Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: BENUDHAR MANDAL

Subject: Botany

Paper: Core Course I. Phycology and Microbiology, Course Code: BOTACOR01T & BOTACOR01P, . Economic Botany(BOTACOR06T,), Industrial and Environmental Microbiology, Course Code: (BOTADSE03T, BOTADSE03P) Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) and (BOTHGEC01P)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	1, Continuous assessment of Topic 1 Core Course-, Industrial and Environmental Microbiology, Course Code: , BOTADSE03P Topic 1, Continuous assessment Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and	Core Course I. Microbiology, Course Code: BOTACOR01T Unit 1, Class Test Core Course Economic Botany(BOTACOR06T,) Unit 1 Core Course- Unit 1, Class Test Unit 1. Core Course-, Industrial and Environmental Microbiology, Course Code: BOTADSE03T, Topic 1, Continuous assessment Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) Unit 1,Unit 2,
Week 5 to Week 8	2,3, Continuous assessment of topic 2,3 Core Course-, Industrial and Environmental	Core Course I. Microbiology, Course Code: BOTACOR01T Unit 2, Class Test Core Course Economic Botany(BOTACOR06T,) Unit 1 Class test Core Course-, Industrial and Environmental Microbiology, Course Code: BOTADSE03T, Topic 2,3, Class test Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) Unit 1, Unit 2, Class test Unit 1 and Unit 2
Week 9 to Week 12	3,4 Continuous assessment Core Course-, Industrial and Environmental	Core Course I. Microbiology, Course Code: BOTACOR01T Unit 3, Class Test Core Course Economic Botany(BOTACOR06T,) Unit 1 Class test Core Course-, Industrial and Environmental Microbiology, Course Code: BOTADSE03T, Topic 2,3, Class test Generic Electives Course (GE): Biodiversity (Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) Unit 4, Unit 5, Class test Unit 4 and Unit 5,

Week 13	Core Course I. Phycology and Microbiology, Course	Core Course I. Microbiology , Course Code: BOTACOR01T
	Code: BOTACOR01P. Microbiology Topic 2,3,	Unit 2, Class Test
	Continuous assessment of topic 2,3	Core Course Economic Botany(BOTACOR06T,) Unit 1 Class
	Core Course-, Industrial and Environmental	test
	Microbiology, Course Code: , BOTADSE03P Topic	Core Course-, Industrial and Environmental Microbiology,
	1, Continuous assessment	Course Code: BOTADSE03T, Topic 2,3, Class test
	Generic Electives Course (GE):	
	Biodiversity(Microbes Algae, Fungi and	Generic Electives Course (GE): Biodiversity(Microbes Algae,
	Archegoniate) (BOTHGEC01P) Topic 8,9,	Fungi and Archegoniate) (BOTHGEC01T) Unit 4, Unit 5,
	Continuous assessment of topic 8,9	Class test Unit 4 and Unit 5,
Week 14	Internal	Examination

to week 17	Code: BOTACOR01P. Microbiology Topic 3,4 Continuous assessment Core Course-, Industrial and Environmental Microbiology, Course Code: , BOTADSE03P Topic 2, Continuous assessment Generic Electives Course (GE Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01P) Topic	Core Course I. Microbiology, Course Code: BOTACOR01T Unit 3, Class Test Core Course Economic Botany(BOTACOR06T,) Unit 1 Class test Core Course-, Industrial and Environmental Microbiology, Course Code: BOTADSE03T, Topic 2,3, Class test Generic Electives Course (GE): Biodiversity(Microbes Algae,
	14, Continuous assessment Topic 14	Fungi and Archegoniate) (BOTHGEC01T) Unit 7, Class test Unit 7,
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for EVEN Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: BENUDHAR MANDAL

Subject: Botany

Paper: Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03T & BOTACOR03P. Ethnobotany(BOTSSECO2M)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03P.Topic 1, Continuous assessment of Topic 6	Core Course I Mycology and Plant Pathology , Course Code: BOTACOR03T. Unit 5,Class Test Ethnobotany(BOTSSECO2M)Unit 1 Class test of Unit 1
Week 5 to Week 8	Core Course I Mycology and Plant Pathology, Course Code: BOTACOR03P.Topic 7, Continuous assessment of topic 2,3	Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03T.Unit 6, Class Test Ethnobotany(BOTSSECO2M) Unit 2 Class test of Unit 2
	Core Course I Mycology and Plant Pathology, Course Code: BOTACOR03P.Topic 8 Continuous assessment	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03T. Unit 7, Class Test Ethnobotany (BOTSSECO2M) Unit 2Class test of Unit 2

Week 13	Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03P.Topic 09, Continuous assessment of topic 9	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03T. Unit 28 Class Test Ethnobotany(BOTSSECO2M) Unit 3 Class test of Unit 3
Week 14	Internal I	Examination
Week 15 to week 17	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03P.Topic 10 .11Continuous assessment	Core Course Mycology and Plant Pathology , Course Code: BOTACOR03T.Unit 39 Class Test Ethnobotany(BOTSSECO2M) Unit 3 Class test of Unit 3
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B. Sc (Honours)

Semester I & V

Name of the Teacher: Dr. Bharati Mukhopadhyay Subject: Botany

Examination

Paper: Core Course I: Phycology and Microbiology. BOTACOR01T and BOTACOR01P, Core Course XII: Plant Physiology, Course Code: BOTACOR12T & BOTACOR12P,

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course I: Phycology and Microbiology (BOTACOR01P),	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 4
	Topic 1, Continuous assessment Core Course XII: Plant Physiology (BOTACOR12P) Topic 7, Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 2, Class Test
Week 5 to Week 8	Core Course I: Phycology and Microbiology (BOTACOR01P),	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 5
	Topic 1, Continuous assessment Core Course XII: Plant Physiology (BOTACOR12P) Topic 8, Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 3, Class Test
Week 9 to Week 12	Core Course I: Phycology and Microbiology (BOTACOR01P), Topic 2, Continuous assessment	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 6
	Core Course XII: Plant Physiology (BOTACOR12P) Topic 1 Demonstration, Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 5, Class Test
Week 13	Core Course I: Phycology and Microbiology (BOTACOR01P), Topic 2, Continuous assessment	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 7
	Core Course XII: Plant Physiology (BOTACOR12P) Topic 2, Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 5, Class Test
Week 14	Internal	Examination
Week 15 to week 17	Core Course I: Phycology and Microbiology (BOTACOR01P), Practical Mock Test, Continuous assessment	Core Course I: Phycology and Microbiology (BOTACOR01T) Revision, Tutorials
	Core Course XII: Plant Physiology (BOTACOR12T) Revision, Practice	Core Course XII: Plant Physiology (BOTACOR12T) Revision, Tutorials
Week18	Revision of Experiments, End Term	Revision, Question-Answer Analyses, End Term

Examination

Teaching Plan for Even Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B. Sc (Honours) Semester VI

Class: B. Sc (General) Semester IV G

Name of the Teacher: Dr. Bharati Mukhopadhyay Subject: Botany

Paper: Core Course XIII: Plant Metabolism

Course Code: BOTACOR13T and BOTACOR13P,

Discipline Specific Elective Analytical Techniques in Plant Sciences

Course Code: BOTADSE04T and BOTADSE04P

Paper: IVG Plant Physiology and Metabolism Course Code: BOTHGEC04T and BOTHGEC04P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1	Core Course XIII: Plant Metabolism	Core Course XIII: Plant Metabolism
to week 4	Course Code: BOTACOR13P	Course Code: BOTACOR13T
	Topic 3, Continuous assessment	Unit 2, Class Test
	Analytical Techniques BOTADSE04P	Analytical Techniques BOTADSE04T
	Topic 7, Continuous assessment	Unit 1, Class Test
	Plant Physiology and Metabolism Course Code: BOTHGEC04P Topic 1, Topic 2, Continuous assessment	Plant Physiology and Metabolism Course Code: BOTHGEC04T Unit 1: Plant-water relations, Unit 2: Mineral nutrition, Class Test
Week 5 to Week 8	Core Course XIII: Plant Metabolism Course Code: BOTACOR13P	Core Course XIII: Plant Metabolism Course Code: BOTACOR13T
	Topic 4, Continuous assessment	Unit 2, Class Test
	Analytical Techniques BOTADSE04P Topic 8, Continuous assessment	Analytical Techniques BOTADSE04T Unit 1, Class Test
	Plant Physiology and Metabolism Course Code: BOTHGEC04P Topic 3, Continuous assessment	Plant Physiology and Metabolism Course Code: BOTHGEC04T Unit 3: Translocation in phloem, Unit 4: Photosynthesis,
	Topic 1- demonstration	Class Test

Week 9 to	Core Course XIII: Plant Metabolism	Core Course XIII: Plant Metabolism
Week 12	Course Code: BOTACOR13P	Course Code: BOTACOR13T
	Topic 5, Continuous assessment	Unit 3, Class Test
	Analytical Techniques BOTADSE04P Demonstration, Continuous assessment	Analytical Techniques BOTADSE04T Unit 1, Revision, Class Test
	Plant Physiology and Metabolism Course Code: BOTHGEC04P Topic 2- demonstration Continuous assessment	Plant Physiology and Metabolism Course Code: BOTHGEC04T Unit 5: Respiration, Class Test

Week 13	Core Course XIII: Plant Metabolism	Core Course XIII: Plant Metabolism
	Course Code: BOTACOR13P	Course Code: BOTACOR13T
	Practical Mock Test, Continuous assessment	Unit 7, Class Test
	Analytical Techniques BOTADSE04P Demonstration, Practical Mock Test,	Analytical Techniques BOTADSE04T Class Test, Tutorials,
	Continuous assessment	
	Plant Physiology and Metabolism Course Code: BOTHGEC04P	Plant Physiology and Metabolism Course Code: BOTHGEC04T
	Practical Mock Test, Continuous assessment	Class Tests, Tutorials
Week 14	Internal	Examination
Week 15	Core Course XIII: Plant Metabolism	Core Course XIII: Plant Metabolism
to week 17	Course Code: BOTACOR13P	Course Code: BOTACOR13T
	Practical Mock Test, Continuous assessment	Class Tests, Tutorials
	Analytical Techniques BOTADSE04P Demonstration, Practical Mock Test, Continuous assessment	Analytical Techniques BOTADSE04T Class Test, Tutorials,
	Plant Physiology and Metabolism Course Code: BOTHGEC04P Practical Mock Test, Continuous assessment	Plant Physiology and Metabolism Course Code: BOTHGEC04T Class Tests, Tutorials
Week18	Revision, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Odd Semester, UG course, Department of Botany, Session(2022-2023)

Class: B.Sc. (Honours and General)

Name of the Teacher: DR. KAJARI LAHIRI.

Subject: Botany

Paper: Core Course II (BOTACOR02T, BOTACOR02P), Core Course XII (BOTACOR12T, BOTACOR12P),

Generic Elective-(BOTHGEC03T, BOTHGEC03P) - Plant Anatomy and Embryology

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1	Core Course II: BOTACOR02P - Biomolecules	Core Course II: BOTACOR02T(Biomolecules and
to week 4	and Cell Biology	Cell Biology)
	Topic 2, Continuous assessment	Unit 1 (Biomolecules), Class Test
	Core Course XII BOTACOR12P(Plant	Generic Elective: BOTHGEC03T (Plant anatomy
	Physiology)	and Embryology)
	Topic 4, Continuous assessment	Embryology- Unit 5: Structural organization of
		flower, Class Test
		Core Course XII BOTACOR12T(Plant Physiology)
		Unit 3 (Nutrient Uptake), Class test
Week 5 to week 8	Core Course II: BOTACOR02P (Biomolecules and Cell Biology)	Core Course II: BOTACOR02T (Biomolecules and Cell Biology)
Week 6	Topic 3, Continuous assessment	Unit 1(Biomolecules), Class Test
	Core Course XII: BOTACOR12P(Plant Physiology) Topic 5, Continuous assessment	Generic Elective: BOTHGEC03T (Plant anatomy and Embryology) Embryology -Unit 6: Pollination and fertilization, Class
		Test
		Core Course XII: BOTACOR12T(Plant Physiology) Unit 4: Translocation in the phloem:, Class test
Week 9 to Week 12	Core Course II: BOTACOR02P (Biomolecules and Cell Biology)	Core Course II: BOTACOR02T (Biomolecules and Cell Biology)
WEEK 12	Topic 4, Continuous assessment	Unit 1 (Biomolecules), Class Test
	Core Course XII: BOTACOR12P(Plant	Generic Elective: BOTHGEC03T (Plant anatomy and Embryology)
	Physiology) Topic 6, Continuous assessment	Embryology- Unit 7: Embryo and endosperm, Class Test
	Topic o, continuous assessment	Core Course XII: BOTACOR12T(Plant Physiology) Unit 6: Physiology of flowering, Class test

Week 13	Core Course II : BOTACOR02P(Biomolecules and Cell Biology) Practical Mock Test	Core Course II: BOTACOR02T (Biomolecules and Cell Biology) Unit 1(Biomolecules), Class Test	
	Core Course XII: BOTACOR12P(Plant Physiology) Topic4, 5 & Topic 6, Practical Mock Test	Generic Elective: BOTHGEC03T (Plant anatomy and Embryology) Embryology- Unit 8: Apomixis and polyembryony	
		Core Course XII: BOTACOR12T(Plant Physiology) Unit 7 :Phytochrome , crytochromes and phototropins) Class test	
Week1	Week14 Internal Examination		
Week 15 to 17	Core Course II : BOTACOR02P (Biomolecules and Cell Biology) Mock Test on Topics 2,3,4 Core Course XII : BOTACOR12P(Plant Physiology) Mock Test on Topics on Topics 5&6	Core Course II : BOTACOR02T(Biomolecules and Cell Biology) Mock Test on Unit 1(Biomolecules) Generic Elective: BOTHGEC03T (Plant anatomy and Embryology) Mock Test on Embryology units Core Course XII: BOTACOR12T(Plant Physiology) Mock Test on unit 3,4,6,7	
Week 18	Revision, Practice for End Term Examination	Revision and solving of question paper for End term Examination of topic of each semester.	

Teaching Plan for Even Semester, UG course Department of Botany Session (2022-2023)

Class: B.Sc. (Honours and General)

Name of the Teacher: DR. KAJARI LAHIRI

Subject: Botany

Paper: Core Course IV (BOTACOR04T, BOTACOR04P), Core Course XIII (BOTACOR13T,

BOTACOR13P), Course code: DSE (BOTADSE04T, BOTADSE04P) Generic Elective (BOTHGEC04T,

BOTHGEC04P) Plant Physiology and Metabolism

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	Course Code: BOTACOR04P- (Archegoniate- Bryophytes)(- Topic 1, Topic 2, Continuous assessment	Course Code: BOTACOR04T- (Archegoniate- Bryophytes)- Unit 1 Class Test
	Generic Elective: BOTHGEC04P (Plant Physiology and Metabolism) Topic 1, Continuous assessment	Generic Elective: BOTHGEC04T (Plant Physiology and metabolism)- Unit 1: Plant-water relations, & Unit 2: Mineral nutrition Class Test.

	Core Course XIII: BOTACOR13P (Plant Metabolism) Topic 1, Continuous assessment –	Core Course XIII: BOTACOR13T(Plant Metabolism)- Unit 5: ATP-Synthesis, Class Test
	Course code: BOTADSE04P- (Analytical Techniques in Plant Sciences) - Topic 2, Continuous assessment	Course code: BOTADSE04T(Analytical Techniques in Plant Sciences)- Unit 2: Cell fractionation:, Class Test
Week 5 to week 8	Course Code: BOTACOR04P- Archegoniate-Bryophytes- Topic 3, Continuous assessment	Course Code: BOTACOR04T- Archegoniate- Bryophytes- Unit 2, Class Test
	Generic Elective: BOTHGEC04P (Plant Physiology and metabolism) Topic 3, Continuous assessment	Generic Elective: BOTHGEC04T (Plant Physiology and metabolism)- Unit3: Translocation in phloem, Class Test
	Core Course XIII: BOTACOR13P (Plant Metabolism)- Topic 2, Continuous assessment	Core Course XIII : BOTACOR13T (Plant Metabolism)- Unit 6:Lipid metabolism, Class Test
	Course code: BOTADSE04P (Analytical Techniques in Plant Sciences)- Topic 4, Continuous assessment	Course code: BOTADSE04T(Analytical Techniques in Plant Sciences)- Unit 3: Radioisotopes, Class Test
Week 9 to Week 12	Course Code: BOTACOR04P- Archegoniate Bryophytes- Topic 4, Continuous assessment	Course Code: BOTACOR04T- Archegoniate-Bryophytes- Unit 3, Class Test
	Generic Elective: BOTHGEC04P (Plant Physiology and metabolism) Topic 5, Continuous assessment	Generic Elective: BOTHGEC04T (Plant Physiology and metabolism)- Unit 6: Enzymes, Class Test
	Core Course XIII:BOTACOR13P (Plant Metabolism)- Topic 3, Continuous assessment	Core Course XIII: BOTACOR13T(Plant Metabolism)- Unit 8: Mechanisms of signal transduction, Class Test
	Course code: BOTADSE04P (Analytical Techniques in Plant Sciences)- Topic 5, Continuous assessment	Course code: BOTADSE04T(Analytical Techniques in Plant Sciences)- Unit 3:Radioisotopes, Class Test
Week 13	Course Code: BOTACOR04P- Archegoniate- Bryophytes- Topic 5, Continuous assessment	Course Code: BOTACOR04T- Archegoniate- Bryophytes-Unit 4, Class Test
	Generic Elective: BOTHGEC04P (Plant Physiology and metabolism) Topic 3 (DE), Topic 4 (DE), Continuous assessment	Generic Elective: BOTHGEC04T (Plant Physiology and metabolism)- Unit 9: Plant response to light and temperature,
	Core Course XIII:BOTACOR13P: (Plant Metabolism)- Topic 1, 2,3 Practical Mock Test	Core Course XIII: BOTACOR13T(Plant Metabolism)- Unit 8: Mechanisms of signal transduction, Class Test

	Course code : BOTADSE04P (Analytical Techniques in Plant Sciences)- Topic 2,4,5 Practical Mock Test	Course code : BOTADSE04T(Analytical Techniques in Plant Sciences)- Unit 4: Spectrophotometry, Class Test
Week	14 Internal	Examination
Week 15	Course Code: BOTACOR04P-	Course Code: BOTACOR04T- Archegoniate-
to 17	Archegoniate-(Bryophytes) Mock Test on topics-1,2,3,4,5	Mock Test n on Unit 1,2.3.4 Bryophytes
		Generic Elective: BOTHGEC04T (Plant Physiology and
	Generic Elective : BOTHGEC04P	metabolism)
	(Plant Physiology and	Mock Test on Unit 1,2,3,6,9
	metabolism)	Core Course XIII: BOTACOR13T(Plant Metabolism)
	Mock Test on topics-1,3,5 (DE)3,4	Mock Test on Unit 5 , 6, 8
	Core Course XIII: BOTACOR13P	Course code: BOTADSE04T(Analytical Techniques in Plant
	(Plant Metabolism)	Sciences)
	Mock Test on topics-1,2,3	Mock Test on Unit 2 , 3, 4
	Course code : BOTADSE04P	
	(Analytical Techniques in Plant	
	Sciences)	
	Mock Test on topics-2,4,5	
Week 18	Revision, Practice for End term	Revision and solving of question paper for End term
	examination	Examination of topic of each semester.

Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: Dr. Santanu Saha

Semester I, III & V

Subject: Botany

Paper: Core Course V: Morphology and Anatomy(BOTACOR05T, BOTACOR05P), Skill Enhancement Course: Plant Diversity and Human Welfare (BOTSSEC01M), Discipline Specific Elective: Natural Resource Management

Course Code: (BOTADSE01T, BOTADSE01P)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05P Topic 1, Continuous assessment Discipline Specific Elective: Natural Resource Management Course Code: BOTADSE01P Topic 1,2 Continuous assessment	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T Unit 4,5 Class Test Skill Enhancement Course: Plant Diversity and Human Welfare (BOTSSEC01M) Unit 1, 2 Class Test Discipline Specific Elective Natural Resource Management Course Code: BOTADSE01T Unit 1,2,3 Class Test
Week 5 to Week 8	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05P Topic 1, Continuous assessment Discipline Specific Elective: Natural Resource Management Course Code: BOTADSE01P Topic 1,2 Continuous assessment	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T Unit 6,7 Class Test Skill Enhancement Course: Plant Diversity and Human Welfare (BOTSSEC01M) Unit 1, 2 Class Test Discipline Specific Elective Natural Resource Management Course Code: BOTADSE01T Unit 1,2,3 Class Test
Week 9 to Week 12	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T Topic 2, Continuous assessment Discipline Specific Elective: Natural Resource Management Course Code: BOTADSE01P Topic 3,4 Continuous assessment	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T Unit 8, Class Test Skill Enhancement Course: Plant Diversity and Human Welfare (BOTSSEC01M) Unit 3, 4, Class Test Discipline Specific Elective Natural Resource Management Course Code: BOTADSE01T Unit 4,5,6 Class Test

Week 13	Core Course V: Morphology and Anatomy of	Core Course V: Morphology and Anatomy of Angiosperms
	Angiosperms Course Code: BOTACOR05P, Topic 2,	Course Code: BOTACOR05T Unit 9, Class Test
	Continuous assessment	
		Skill Enhancement Course: Plant Diversity and Human
	Discipline Specific Elective : Natural Resource	Welfare (BOTSSEC01M) Unit 3, 4 Class Test

	Management Course Code: BOTADSE01P Topic 3,4 Continuous assessment	Discipline Specific Elective Natural Resource Management Course Code: BOTADSE01T Unit 7 Class Test
Week 14	Internal l	Examination
Week 15	Core Course V: Morphology and Anatomy of	Core Course V: Morphology and Anatomy of Angiosperms
to week 17	Angiosperms Course Code: BOTACOR05P, Practical Mock Test	Course Code: BOTACOR05T Unit 4,5,6,7,8,9 Class Test
	Discipline Specific Elective : Natural Resource Management Course Code: BOTADSE01P, Practical Mock Test	Skill Enhancement Course: Plant Diversity and Human Welfare (BOTSSEC01M) Unit 1,2,3, 4 Class Test
		Discipline Specific Elective Natural Resource Management Course Code: BOTADSE01T Unit 8,9 Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Even Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: Dr. Santanu Saha

Subject: Botany

Paper: Core Course IV Archegoniate(BOTACOR04T, BOTACOR04P) Core Course IX: Plant Ecology and Phytogeography (BOTACOR09T, BOTACOR09P), Plant Ecology and Taxonomy (BOTHGEC02T, BOTHGEC02P)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course IV: Archegoniate Course Code: BOTACOR04P) Topic: Unit 6,7, Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 4, Class Test
	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09P) Topic: Unit 1,2,3 Continuous assessment	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09T) Topic: Unit 1,2,3 Class Test
	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 1 Continuous assessment	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02T) Topic: Unit 1 Class test
Week 5 to Week 8	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit8,9, Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 4, Class Test
	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09P) Topic: Unit 4,5,6 Continuous assessment	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09T) Topic: Unit 4,5,6 Class Test

	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 2 Continuous assessment	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02T) Topic: Unit 2 class test
Week 9 to Week 12	Core Course IV: Archegoniate Course Code: BOTACOR04P) Topic: Unit 10, 11 Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 5 Class Test
	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09P), Topic: Unit 7,8 Continuous assessment	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09T)Topic: Unit 7,8 Class Test
	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 3, Continuous assessment	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02T) Topic: Unit 3 class test

Week 13	Core Course IV: Archegoniate Course Code: BOTACOR04P) Field visit, Mock Practical test Core Course IX: Plant Ecology and Phytogeography (BOTACOR09P) Field visit, Mock Practical test	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 5, Class Test Core Course IX: Plant Ecology and Phytogeography (BOTACOR09T) Topic: Unit 9 Class Test
	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Field visit Practical mock test	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02T) Topic: Unit 4 class test
Week 14	Internal	Examination
Week 15 to week 17	Core Course IV: Archegoniate Course Code: BOTACOR04P) Topic: Unit 12, 13 Continuous assessment, Practical Mock Test	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 6, Class Test
	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09P) Topic: Unit 9,10 Continuous assessment, Practical Mock Test	Core Course IX: Plant Ecology and Phytogeography (BOTACOR09T) Topic: Unit 10 Class Test
	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 4, Topic 5 Continuous assessment	Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02T) Topic: Unit 5 class test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for ODD Semester, UG course, Department of BOTANY, Session (2022 - 2023) Class: B.Sc (Honours) & B.Sc (General) Semester I, III and V

Name of the Teacher: MOUSUMI MUKHOPADHYAY

Subject: Botany

Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T/ Core

Course VI: Economic Botany Course Code: BOTACOR06T/ Core Course VI: Practical Course Code: BOTACOR06P/ Core Course XI: Reproductive Biology of Angiosperms

Course Code: BOTACOR11T/ Core Course XI Practical Course Code:

BOTACOR11P/Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code:

BOTHGEC01T/Practical Course Code: BOTHGEC01P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course VI: Practical Course Code: BOTACOR06P: Topic 1 & Topic 2, Continuous assessment Core Course XI Practical Course Code: BOTACOR11P: Topic 1 & Topic 2, Continuous assessment. Practical Course Code: BOTHGEC01P: Topic 8, Topic 9, Continuous assessment	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T: Unit 1, Class Test Core Course VI: Economic Botany Course Code:BOTACOR067 Unit 1& Unit 2, Class Test Core Course XI: Reproductive Biology of Angiosperms Course Code: BOTACOR11T: Unit 1, Unit 2, Class Test Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: Unit 3: Fungi, Class Test
Week 5 to Week 8	Core Course VI: Practical Course Code: BOTACOR06P Topic 3, Topic 4 & Topic 5, Continuous assessment Core Course XI Practical Course Code: BOTACOR11P: Topic 3 & Topic 4, Continuous assessment. Practical Course Code: BOTHGEC01P: Topic 10, Topic 11, Topic 12, Continuous assessment	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T: Unit 2, Class Test Core Course VI: Economic Botany Course Code:BOTACOR06T: Unit 3, Unit 4 & Unit 5, Class Test. Core Course XI: Reproductive Biology of Angiosperms Course Code: BOTACOR11T: Unit 3 & Unit 4 Class Test Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: Unit 6: Pteridophytes, Class Test
Week 9 to Week 12	Core Course VI: Practical Course Code: BOTACOR06P: Topic 6 & Topic 7, Practical Mock Test Core Course XI Practical Course Code: BOTACOR11P: Topic 5 & Topic 6, Practical Mock Test. Practical Course Code: BOTHGEC01P: Topic 13, Topic 14, Practical Mock Test	Core Course V: Morphology and Anatomy of Angiosperms Course Code: BOTACOR05T: Unit 3, Mid Term Examination Core Course VI: Economic Botany Course Code:BOTACOR06T: Unit 6 & Unit 7, Mid Term Examination. Core Course XI: Reproductive Biology of Angiosperms Course Code: BOTACOR11T: Unit 5 & Unit 6, Mid Term Examination Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: U nit 7: Gymnosperms, Mid- Term Examination
Week 13	Core Course VI: Practical Course Code: BOTACOR061 Remedial classes for unit 6 Core Course XI Practical Course Code: BOTACOR11P Mock Test unit 4, Practical Course Code: BOTHGEC01P: Mock Test unit10,11	Course Code: BOTACOR05T: Tutorial for unit 1
Week 14	Internal	Examination

Week 15	Core Course VI: Practical Course Code:	Core Course V: Morphology and Anatomy of Angiosperms
to week 17	BOTACOR06P Remedial classes for unit7	Course Code: BOTACOR05T: Revision of unit 2
	Core Course XI Practical Course Code:	Core Course VI: Economic Botany Course Code:
	BOTACOR11P: Continuous assessment unit 5 and 6	BOTACOR06T: Revision of unit 6 and 7
	Practical Course Code: BOTHGEC01P : Mock Test	Core Course XI: Reproductive Biology of Angiosperms
	unit 13 and 14	Course Code: BOTACOR11T: Revision unit 5 and 6
		Tutorials.
		Biodiversity (Microbes, Algae, Fungi and Archegoniate)
		Course Code: BOTHGEC01T: Tutorial unit 3
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Semester II, IV and VI

Subject: Botany

Teaching Plan for EVEN Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: MOUSUMI MUKHOPADHYAY

Paper: Core Course III: Mycology and Phytopathology Course Code: BOTACOR03T/ Core Course: IV Practical

Course Code: BOTACOR03P

Core Course X: Plant Systematics Course Code: BOTACOR10T

Core Course X: Practical: Course Code: BOTACOR10P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03P. Topic 1, Topic 2 & Topic 3, Continuous assessment Core Course X:Practical Course Code: BOTACOR10P Topic 1, Topic 2 (Botanical Excursion) & Topic 3 Continuous assessment. Practical Course Code: BOTHGEC02P Topic 6, Topic 7, Continuous assessment	Core Course I Mycology and Plant Pathology, Course Code: BOTACOR03T. Unit 1 & Unit 2, Class Test Core Course X: Plant Systematics Course Code: BOTACOR10T Unit 1 & Unit 2, Class Test Plant Ecology and Taxonomy Course Code: BOTHGEC02T U nit 6: Introduction to plant taxonomy, Unit 7: Identification, Unit 8: Taxonomic evidences from palynology, cytology, Class Test
Week 5 to Week 8	Core Course I Mycology and Plant Pathology , Course Code: BOTACOR03P. Topic 4, Topic 5 & Topic 6, Continuous assessment Core Course X:Practical Course Code: BOTACOR10P Topic 1 Topic 2 (Field Visit) & Topic 3, Continuous assessment Practical Course Code: BOTHGEC02P Topic 6, Topic 7, Continuous assessment	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03T. Unit 3, Unit 4 & Unit 5, Class Test Core Course X: Plant Systematics Course Code: BOTACOR10T Unit 3, Unit 4, Class Test Plant Ecology and Taxonomy Course Code: BOTHGEC02T Unit 8: phytochemistry and molecular data, Unit 9: Taxonomic hierarchy, Unit 10: Botanical nomenclature, Class Test
Week 9 to Week 12	Core Course I Mycology and Plant Pathology, Course Code: BOTACOR03P.Topic 1 and 2 Practical Mock Test Core Course X:Practical Course Code: BOTACOR10 Topic 2 (Field Visit) & Topic 3, Practical Mock Test Practical Course Code: BOTHGEC02P Practical Mock Test Unit 6	Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03T. Unit 6 & Unit 7, Mid Term Examination Core Course X: Plant Systematics Course Code: BOTACOR10T Unit 5, Unit 6, Mid Term Examination Plant Ecology and Taxonomy Course Code: BOTHGEC02T U nit 11: Classification , Unit 12: Numerical taxonomy and cladistics, Mid Term Examination

Week 13	Core Course I. Mycology and Plant Pathology ,	Core Course I. Mycology and Plant Pathology, Course Code:
	Course Code: BOTACOR03P.Topic 3and 4,	BOTACOR03T. Revision, Tutorials, End Term Examination
	Continuous assessment	Core Course X: Plant Systematics
	Core Course X:Practical	Course Code: BOTACOR10T
	Course Code: BOTACOR10P	Tutorial classes on Topic- 2 and 3
	Practical Mock Test on Topic 3	Plant Ecology and Taxonomy Course Code: BOTHGEC02T
	Practical Course Code: BOTHGEC02P Practical Mock	Remedial classes for Unit 8, question-answer analysis unit 6&7
	Test Unit 7	

Week 14	Internal Examination	
Week 15 to week 17	Core Course I. Mycology and Plant Pathology, Course Code: BOTACOR03P.Topic 5 and 6 Continuous assessment Core Course X:Practical Course Code: BOTACOR10P Tutorial classes for Practical viva Practical Course Code: BOTHGEC02P Analysis of question for Viva	Core Course I Mycology and Plant Pathology , Course Code: BOTACOR03T.Unit 2 and 3 Class Test Core Course X: Plant Systematics Course Code: BOTACOR10T Remedial classes for Topic-5 Plant Ecology and Taxonomy Course Code: BOTHGEC02T Question-answer analysis for rest of the units.
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examinati

Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: Dr. Kausik Majumder

Semester I, III & V

Subject: Botany

Paper: Core Course II: Bio-molecules and Cell Biology, Course Code: BOTACOR02T & BOTACOR02P, Core Course VII: Genetics, Course Code: BOTACOR07T & BOTACOR07P, Core Course XII: Plant Physiology, Course Code: BOTACOR12T & BOTACOR12P, Industrial and Environmental Microbiology, Course Code: BOTADSE03T, Plant Anatomy and Embryology, Course Code: BOTHGEC03T & BOTHGEC03P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 1, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 3, Class Test
	Core Course VII: Genetics (BOTACOR07P) Topic 2, Continuous assessment	Core Course VII: Genetics (BOTACOR07T) Unit 1, Class Test
	Core Course XII: Plant Physiology (BOTACOR12P) Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 1, Class Test
	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03P) Topic 1, Topic 2, Topic 3, Continuous assessment	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03T) Unit 1
Week 5 to Week 8	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 7, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 3, Class Test
	Core Course VII: Genetics (BOTACOR07P) Topic 2, Continuous assessment	Core Course VII: Genetics (BOTACOR07T) Unit 1, Class Test
	Core Course XII: Plant Physiology (BOTACOR12P) Topic 1, Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 1, Class Test
	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03P) Topic 4, Topic 5,Topic 7, Continuous assessment	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03T) Unit 2
Week 9 to Week 12	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 1, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 2, Class Test
	Core Course VII: Genetics (BOTACOR07P) Topic 4, Continuous assessment	Core Course VII: Genetics (BOTACOR07T) Unit 1, Class Test
	Core Course XII: Plant Physiology (BOTACOR12P) Topic 1 (Demonstration), Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 4, Class Test
	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03P) Topic 8, Topic 9, Topic 10, Continuous assessment	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03T) Unit 3

Week 13	Core Course II: Bio-molecules and Cell Biology	Core Course II: Bio-molecules and Cell Biology
	(BOTACOR02P) Topic 7, Continuous assessment	(BOTACOR02T) Unit 2, Class Test
	Core Course VII: Genetics (BOTACOR07P) Topic 4, Continuous assessment	Core Course VII: Genetics (BOTACOR07T) Unit 6, Class Test
	Core Course XII: Plant Physiology (BOTACOR12P) Topic 2, Continuous assessment	Core Course XII: Plant Physiology (BOTACOR12T) Unit 4, Class Test
	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03P) Topic 11, Topic 12, Continuous assessment	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03T) Unit 4
Week 14	Internal 1	Examination
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Week 15	Core Course II: Bio-molecules and Cell Biology	Core Course II: Bio-molecules and Cell Biology
to week 17	(BOTACOR02P) Practical Mock Test	(BOTACOR02T) Unit 4, Class Test
	Core Course VII: Genetics (BOTACOR07P) Practical Mock Test	Core Course VII: Genetics (BOTACOR07T) Unit 6, Class Test
	Core Course XII: Plant Physiology (BOTACOR12P) Practical Mock Test	Core Course XII: Plant Physiology (BOTACOR12T) Unit 4, Class Test
	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03P) Practical Mock Test	Generic Electives Course (GE): Plant Anatomy and Embryology (BOTHGEC03T) Unit 4
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Even Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc (Honours) & B.Sc (General)

Name of the Teacher: Dr. Kausik Majumder

Semester II, IV & VI

Subject: Botany

Paper: Core Course XIII: Plant Metabolism, Course Code: BOTACOR13T & BOTACOR 13P, Core Course XIV: Plant Biotechnology, Course Code: BOTACOR14T & BOTACOR14P, Discipline Specific Elective Analytical Techniques in Plant Sciences, Course Code: BOTADSE04T & BOTADSE04P, Discipline Specific Elective Biostatistics, Course Code: BOTADSE06P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course XIII: Plant Metabolism (BOTACOR 13P) Topic 6, Continuous assessment	Core Course XIII: Plant Metabolism (BOTACOR13T) Unit 1, Class test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 5, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 1, Class Test
	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04P) Topic 1, Continuous assessment	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04T), Unit 1, Class Test
	Discipline Specific Elective Biostatistics (BOTADSE06P) Topic 1, Continuous assessment	Discipline Specific Elective Biostatistics (BOTADSE06T) Unit 1, Class Test
Week 5 to Week 8	Core Course XIII: Plant Metabolism (BOTACOR 13P) Topic 6, Continuous assessment	Core Course XIII: Plant Metabolism (BOTACOR13T) Unit 1, Class test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 5, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 1, Class Test
	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04P) Topic 2, Continuous	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04T), Unit 1, Class Test

	assessment	
	Discipline Specific Elective Biostatistics (BOTADSE06P) Topic 1, Continuous assessment	Discipline Specific Elective Biostatistics (BOTADSE06T) Unit 2, Class Test
Week 9 to Week 12	Core Course XIII: Plant Metabolism (BOTACOR 13P) Topic 7, Continuous assessment	Core Course XIII: Plant Metabolism (BOTACOR13T) Unit 1 Class test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 6, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 1, Class Test
	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04P) Topic 3, Continuous assessment	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04T), Unit 6, Class Test
	Discipline Specific Elective Biostatistics (BOTADSE06P) Topic 2, Continuous assessment	Discipline Specific Elective Biostatistics (BOTADSE06T) Unit 3, Class Test
Week 13	Core Course XIII: Plant Metabolism (BOTACOR 13P) Topic 7, Continuous assessment	Core Course XIII: Plant Metabolism (BOTACOR13T) Unit 4, Class test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 6, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 5, Class Test
	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04T) Topic 6, Continuous assessment	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04T), Unit 7, Class Test
	Discipline Specific Elective Biostatistics (BOTADSE06P) Topic 3, Continuous assessment	Discipline Specific Elective Biostatistics (BOTADSE06T) Unit 4, Class Test
Week 14	Internal I	Examination
Week 15 to week 17	Core Course XIII: Plant Metabolism (BOTACOR 13P) Practical Mock Test	Core Course XIII: Plant Metabolism (BOTACOR13T) Unit 4, Class test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Practical Mock Test	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 5, Class Test
	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04P) Practical Mock Test	Discipline Specific Elective Analytical Techniques in Plant Sciences (BOTADSE04T), Unit 7, Class Test
	Discipline Specific Elective Biostatistics (BOTADSE06P) Practical Mock Test	Discipline Specific Elective Biostatistics (BOTADSE06T) Unit 5, Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc. (Hons)

Name of the Teacher: Dr. Subhadipa Sengupta

Semester I, III & V

Subject: Botany

Paper: Core Course II: Bio-molecules and Cell Biology, Course Code: BOTACOR02T & BOTACOR02P, Core Course VII: Genetics, Course Code: BOTACOR07T & BOTACOR07P

	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 5, Continuous assessment Core Course VII: Genetics (BOTACOR07P) Topic 1a, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 6, Class Test Core Course VII: Genetics (BOTACOR07T) Unit 1, Class Test Genetics (BOTACOR07T) Unit 2, Class Test
Week 8	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 5, Continuous assessment Core Course VII: Genetics (BOTACOR07P) Topic 1b, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 6, Class Test Core Course VII: Genetics (BOTACOR07T) Unit 3, Class Test Genetics (BOTACOR07T) Unit 4.
Week 9 to Week 12	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 6, Continuous assessment Core Course VII: Genetics (BOTACOR07P) Topic 3, Topic 5, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 7, Class Test Core Course VII: Genetics (BOTACOR07T) Unit 4, Class Test

Week 13	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 8, Continuous assessment Core Course VII: Genetics (BOTACOR07P) Topic 6, Topic 7, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 7, Class Test Core Course VII: Genetics (BOTACOR07T) Unit 5, Class Test
Week 14	Internal	Examination
Week 15	Core Course II: Bio-molecules and Cell Biology	Core Course II: Bio-molecules and Cell Biology
to week 17	(BOTACOR02P) Practical Mock Test	(BOTACOR02T) Unit 6 and unit 7 revision, Class Test
	Core Course VII: Genetics (BOTACOR07P) Practical Mock Test	Core Course VII: Genetics (BOTACOR07T) Unit 6, Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Even Semester, UG course, Department of BOTANY, Session (2022 - 2023)

Class: B.Sc. (Hons)

Name of the Teacher: Dr. Subhadipa Sengupta

Subject: Botany

Paper: Core Course VIII: Molecular Biology, Course Code: BOTACOR08T & BOTACOR08P, Core Course XIV: Plant Biotechnology, Course Code: BOTACOR14T & BOTACOR14P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course VIII: Molecular Biology (BOTACOR08P) Topic 1, Continuous assessment	Core Course VIII: Molecular Biology (BOTACOR08T) Unit 1, Class Test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 1a, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 2, Class Test Genetics (BOTACOR07T) Unit 2, Class Test
Week 5 to Week 8	Core Course VIII: Molecular Biology (BOTACOR08P) Topic 2 & 3, Continuous assessment	Core Course VIII: Molecular Biology (BOTACOR08T) Unit 2 & 3, Class Test Core Course XIV: Plant Biotechnology (BOTACOR14T)
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 1b, Continuous assessment	Unit 3, Class Test Genetics (BOTACOR07T) Unit 4.
Week 9 to Week 12	Core Course VIII: Molecular Biology (BOTACOR08P) Topic 4 & 5, Continuous assessment	Core Course VIII: Molecular Biology (BOTACOR08T) Unit 4 & 5, Class Test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 2 & 3, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 4, Class Test
Week 13	Core Course VIII: Molecular Biology (BOTACOR08P) Topic 6 & 7, Continuous	Core Course VIII: Molecular Biology (BOTACOR08T) Unit 6, Class Test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 4 & 5, Continuous assessment	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 5, Class Test
Week 14	Interna	l Examination
Week 15 to week 17	Core Course VIII: Molecular Biology (BOTACOR08P) Practical Mock Test	Core Course VIII: Molecular Biology (BOTACOR08T) Unit 7, revision, Class Test
	Core Course XIV: Plant Biotechnology (BOTACOR14P) Topic 6, Practical Mock Test	Core Course XIV: Plant Biotechnology (BOTACOR14T) Unit 5, Class Test

Ī	Week18	Revision of Experiments, End Term	Revision, Question-Answer Analyses, End Term
		Examination	Examination

Teaching Plan for Odd Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: PG Semester I, III

Name of the Teacher: BENUDHAR MANDAL Subject: Botany

Paper: Core Course I. Plant Virus and Bacteria, (Departmental 4) BOTPCORO4T, BOTPCOR04P), Biosafety and laboratory practices (BOT P GEC01)

S. No	Practical syllabus to be covered (Paper code to be mentioned) BOTPCOR04P)	Theory syllabus to be covered (Paper code to be mentioned) BOTPCORO4T Biosafety and laboratory practices (BOT P GEC01)
Week 1 to week 4	Core Course I. Plant Virus and Bacteria (BOTPCOR04P), Topic-Bacterial diversity from various habitats, Continuous assessment.	Core Course I. Plant Virus and Bacteria (BOTPCOR04T) Topic 1. Class test Biosafety and laboratory practices (BOT P GEC01) Topic -5 Class test
Week 5 to Week 8	Core Course I. Plant Virus and Bacteria (BOTPCOR04P), Topic-Bacterial diversity from various habitats, Continuous assessment.	Core Course I. Plant Virus and Bacteria (BOTPCOR04T) Topic 1, Class test. Biosafety and laboratory practices (BOT P GEC01) Topic -5 Class test
Week 9 to Week 12	Core Course I. Plant Virus and Bacteria (BOTPCOR04P), Topic,-Identification of plant pathogenic bacteria through microscopic & biochemical study, Continuous assessment.	Core Course I. Plant Virus and Bacteria (BOTPCOR04T) Topic 2,, Class test Biosafety and laboratory practices (BOT P GEC01) Topic -6 Class test

Week 13	Core Course I. Plant Virus and Bacteria (BOTPCOR04P), Topic-bacterial growth curve determination, Continuous assessment.	Core Course I. Plant Virus and Bacteria (BOTPCOR04T) Topic 3, Class test Biosafety and laboratory practices (BOT P GEC01) Topic -6 Class test
Week 14		Midterm Examination
Week 15 to week 17	Core Course I. Plant Virus and Bacteria (BOTPCOR04P) Topic-bacterial plasmid isolation, Continuous assessment.	Core Course I. Plant Virus and Bacteria (BOTPCOR04T) Topic 4, Class test. Biosafety and laboratory practices (BOT P GEC01) Topic -7 Class test
Week18	Revision of Experiments& End Term Examination.	Revision, Question-Answer Analyses, &End Term Examination

Teaching Plan for EVEN Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: PG Semester II,
Name of the Teacher: BENUDHAR MANDAL Subject: Botany

Paper: Core Course I. Plant Pathology and Crop protection (Departmental 8) Course Code: BOTPCOR08T & BOTPCOR08P.

S. No	Practical syllabus to be covered (Paper code to be mentioned) Course Code: BOTPCOR08P	Theory syllabus to be covered (Paper code to be mentioned) Course Code: BOTPCOR08T
Week 1 to week 4	Core Course I. Plant Pathology and crop protection, Course Code: BOTPCOR08P.Topic 1, Continuous assessment of Topic 1	Core Course Core Course I. Plant Pathology and Crop protection, Course Code: BOTPCOR08T, Crop protection Unit 1 Class Test
Week 5 to Week 8		Core Course Core Course I. Plant Pathology and crop protection, Course Code: BOTPCOR08T, Crop protection Unit 2Class Test
Week 9 to Week 12		Core Course Core Course I. Plant Pathology and crop protection, Course Code: BOTPCOR08T, Crop protection Unit 2 Class Test

Week 13	Core Course I. Plant Pathology and Crop protection, Course Code: BOTPCOR08P.Topic 4, Continuous assessment of Topic 4	Core Course Core Course I. Plant Pathology and crop protection, Course Code: BOTPCOR08T, Crop protection Unit 2 Class Test
Week 14		Midterm Examination
Week 15 to week 17	Core Course I. Plant Pathology and Crop protection, Course Code: BOTPCOR08P.Topic 5, Continuous assessment of Topic 5	Core Course Core Course I. Plant Pathology and crop protection, Course Code: BOTPCOR08T, Crop protection Unit 2 Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Odd Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M. Sc Semester I & III

Name of the Teacher: Dr. Bharati Mukhopadhyay **Subject: Botany**

Paper: Core Course : Integrated Life Sciences (Departmental 1)

BOTPCOR01T

Core Course: Diversity of Plant Life-Algae & Bryophytes (Departmental 2)

BOTPCOR02T

Core Course: Laboratory Course (Departmental 5)

BOTPCOR05P

Core Course: Plant Physiology & Biochemistry (Departmental 12)

BOTPCOR12T

Core Course: Laboratory Course- Plant Physiology & Biochemistry (Departmental 15)

BOTPCOR15P

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S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Laboratory Course Diversity of Plant Life-Algae & Bryophytes BOTPCOR05P Topic 1, Continuous Assessment Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P According to theoretical syllabus, Continuous Assessment	Integrated Life Sciences (Departmental 1) BOTPCOR01T Topic 1, Class Test Diversity of Plant Life-Algae & Bryophytes (Departmental 2) BOTPCOR02T Industrial Phycology, Class Test Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Photosynthesis, Respiration and photorespiration, Class Test
Week 5 to Week 8	Laboratory Course Diversity of Plant Life-Algae & Bryophytes BOTPCOR05P Topic 1, Continuous Assessment Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P According to theoretical syllabus, Continuous Assessment	Diversity of Plant Life-Algae & Bryophytes (Departmental 2) BOTPCOR02T Algal Biotechnology, Class Test Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Nitrogen metabolism, Class Test

Laboratory Course Diversity of Plant Life-Algae & Bryophytes BOTPCOR05P Practical Mock Test	Diversity of Plant Life-Algae & Bryophytes (Departmental 2) BOTPCOR02T Mid Term Examination
Laboratory Course- Plant Physiology & Biochemistry	Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T
(Departmental 15) BOTPCOR15P Practical Mock Test	Plant hormones, Mid Term Examination

Week13 to	Revision of Experiments,	Revision, Question-Answer Analyses,
Week 18		
	End Term Examination	End Term Examination

Teaching Plan for Even Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M. Sc Semester II & IV

Name of the Teacher: Dr. Bharati Mukhopadhyay Subject: Botany

Paper: Core Course: Diversity of Plant Life - Pteridophytes, Gymnosperms, Paleobotany & Palynology

(Departmental 9) **BOTPCOR09T**

Core Course: DSE 2: Advanced Plant Physiology & Biochemistry (Departmental 16) BOTPDSE02T

Core Course: Laboratory course of DSE 2 & 3 (Departmental 18) BOTPCOR18P

Advanced Plant Physiology & Biochemistry

Core Course: Laboratory Course- Seminar Presentation (Departmental 19) BOTPCOR19P

Core Course: Dissertation Project Work (Departmental 20) BOTPCOR20P

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S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)		
Week 1	Laboratory course of DSE 2 & 3 (Departmental DSE 2: Advanced Plant Physiology & Biochemistry			
to week 4	18) BOTPCOR18P	(Departmental 16) BOTPDSE02T		
	Advanced Plant Physiology & Biochemistry	Photosynthesis, Class Test		
	According to theoretical syllabus, Continuous Assessment			
	Laboratory course of DSE 2 & 3 (Departmental	Diversity of Plant Life - Pteridophytes,		
Week 8	18) BOTPCOR18P	Gymnosperms, Paleobotany & Palynology		
	Advanced Plant Physiology & Biochemistry	(Departmental 9) BOTPCOR09T		
	According to theoretical syllabus, Continuous	Genetics and reproductive biology of ferns		
	Assessment	DSE 2: Advanced Plant Physiology & Biochemistry		
		(Departmental 16) BOTPDSE02T		
	Laboratory Course- Seminar Presentation] (Departmental 19) BOTPCOR19P	Respiration and photorespiration, Class Test		
	Seminar preparation by the students, presenting			
	the work done (either be a review or a practical			
	project.) using ICT tools.			
Week 9 to	Laboratory course of DSE 2 & 3 (Departmental	Diversity of Plant Life - Pteridophytes,		
Week 12	18) BOTPCOR18P	Gymnosperms, Paleobotany & Palynology		
	Advanced Plant Physiology & Biochemistry	(Departmental 9) BOTPCOR09T		
		Mid Term Examination		
	Practical Mock Test	DSE 2: Advanced Plant Physiology & Biochemistry		
	Laboratory Course- Seminar Presentation]	(Departmental 16) BOTPDSE02T		
	(Departmental 19) BOTPCOR19P	Carbabydrata Matabaliam Mid Tarm Evanication		
	Seminar preparation by the students, presenting	Carbohydrate Metabolism, Mid Term Examination		
	the work done (either be a review or a practical project.) using ICT tools.	Dissertation Project Work (Departmental 20) BOTPCOR20P		

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Week13 to Week 18	Revision of Experiments, Seminar Presentation End Term Examination	Dissertation Project Work (Departmental 20) BOTPCOR20P The project work can either be a review or a practical project which on completion will have to be presented as a dissertation. The topic of the review/project will be finalized after discussion with the concerned teacher. Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Odd Semester, PG course, Department of Botany, Session(2022-2023)

Class: M.Sc. Semester I, III
Name of the Teacher: DR. KAJARI LAHIRI. : Subject: Botany

Paper: COURSE CODE: BOTPCOR01T (Departmental 1) INTEGRATED LIFE SCIENCES, COURSE CODE: BOTPCOR02T (Departmental 2)- DIVERSITY OF PLANT LIFE-ALGAE & BRYOPHYTES, COURSE CODE: BOTPCOR05P (Departmental 5)- LABORATORY COURSE, COURSE CODE: BOTPCOR12T (Departmental 12) - PLANT PHYSIOLOGY & BIOCHEMISTRY, COURSE CODE: BOTPDSE01T, (Departmental 13) DSE1-PLANT DEVELOPMENTAL BIOLOGY AND ANATOMY, COURSE CODE: BOTPCOR15P (Departmental 15) LABORATORY COURSE-PLANT PHYSIOLOGY & BIOCHEMISTRY

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1		COURSE CODE: BOTPCOR01T (Departmental 1)
to week 4	BOTPCOR15P (Departmental 15)	INTEGRATED LIFE SCIENCES,
	LABORATORY COURSE-Plant Physiology &	Unit-2: Membrane structure and function, Class
	Biochemistry - according to the theoretical syllabus, Continuous assessment	Test
		COURSE CODE: BOTPCOR12T (Departmental 12) -
		PLANT PHYSIOLOGY & BIOCHEMISTRY
		Unit-1:Membrane Transport, Class Test
Week 5 to		
week 8	BOTPCOR15P (Departmental 15)	COURSE CODE: BOTPCOR12T (Departmental 12) -
WCCK 6	LABORATORY COURSE-Plant Physiology &	PLANT PHYSIOLOGY & BIOCHEMISTRY
	Biochemistry - according to the theoretical	Unit7: Sensory Photobiology, Class Test
	syllabus, Continuous assessment.	,
Week 9 to		COURSE CODE: BOTPCOR12T (Departmental 12) -
Week 12	COURSE CODE: BOTPCOR14P	PLANT PHYSIOLOGY & BIOCHEMISTRY
	BOTPCOR15P (Departmental 15)	Unit7: Sensory Photobiology, Class Test
	LABORATORY COURSE-Plant Physiology &	
	Biochemistry - according to the theoretical	
	syllabus, Continuous assessment.	COURSE CODE: BOTPDSE01T, (Departmental 13) DSE1
		PLANT DEVELOPMENTAL BIOLOGY AND ANATOMY
		Unit-1: Seed germination and seedling growth, Class Test
Week 13	COURSE CODE: BOTPCOR05P (Departmental	COURSE CODE: BOTPCOR02T (Departmental 2)-
	5) - Unit -3 , Bryophytes- Continuous	DIVERSITY OF PLANT LIFE-ALGAE & BRYOPHYTES
	assessment.	Bryophytes-Unit 8- Bryophyte chemistry and its
		taxonomic implications. Biologically active compounds
	BOTPCOR15P (Departmental 15)	in bryophytes. Class test

	LABORATORY COURSE-Plant Physiology & Biochemistry- according to the theoretical syllabus, Continuous assessment.	COURSE CODE: BOTPCOR12T (Departmental 12) - PLANT PHYSIOLOGY & BIOCHEMISTRY Unit-9:Stress physiology COURSE CODE: BOTPDSE01T, (Departmental 13) DSE1 PLANT DEVELOPMENTAL BIOLOGY AND ANATOMY Unit-10: Senescence and programmed cell death (PCD) Class Test
Week14 Internal Examination		ation
Week 15 to 17	BOTPCOR15P (Departmental 15) LABORATORY COURSE-Plant Physiology & Biochemistry- Mock Test on Practical (Experiments performed)	COURSE CODE: BOTPCOR01T (Departmental 1) INTEGRATED LIFE SCIENCES Mock Test on Unit-2: Membrane structure and function COURSE CODE: BOTPCOR12T (Departmental 12) - PLANT PHYSIOLOGY & BIOCHEMISTRY Unit-9:Stress physiology, Class Test
Week 18	Revision, End Term Examination	Revision and analysis of questions for End term Examination of topic of each semester.

Teaching Plan for Even Semester, PG course Department of Botany Session (2022-2023)

Class: M.Sc. Semester II, IV
Name of the Teacher: DR. KAJARI LAHIRI Subject: Botany

Paper: COURSE CODE: BOTPCOR08T (Departmental 8) PLANT PATHOLOGY & CROP PROTECTION, COURSE CODE: BOTPDSE02T (Departmental 16)- ADVANCED PLANT PHYSIOLOGY& BIOCHEMISTRY, BOTPDSE03T, Laboratory course of DSE 2 (Departmental 18) BOTPCOR18P Laboratory Course-Seminar Presentation, (Departmental 19) BOTPCOR19P, Dissertation, Project Work, (Departmental 20) BOTPCOR20P

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1		
to week 4	Laboratory course of DSE 2 (Departmental 18) BOTPCOR18P,- According to theoretical syllabus,	COURSE CODE: BOTPDSE02T (Departmental 16)-ADVANCED PLANT PHYSIOLOGY& BIOCHEMISTRY Unit 1: Programmed cell death, Class Test
	Continuous Assessment Dissertation Project Work (Departmental 20) BOTPCOR20P, The dissertation will be based on the Departmental 16 (DSE2) & Departmental 17 (DSE3) opted by the student. The outcome	
	is to be presented in Departmental	

	19.(P). The project work can either	
	be a review or a practical project	
	which on completion will have to	
	be presented as a dissertation. The	
	topic of the review/project will be	
	finalized after	
	discussion with the concerned	
	teacher.	
Week 5 to	tedonen	COURSE CODE: BOTPDSE02T (Departmental 16)- ADVANCED
week 8	Laboratory course of DSE 2	PLANT PHYSIOLOGY& BIOCHEMISTRY
WCCK 0	(Departmental 18)	Unit 1-Programmed cell death, Class Test
	BOTPCOR18P, According to	office 1 Programmed cell death, class rest
	theoretical syllabus,	
	Continuous Assessment	
	Continuous Assessment	
	Dissertation Brainst Work	
	Dissertation Project Work	
	(Departmental 20)	
	BOTPCOR20P, The dissertation will	
	be based on the	
	Departmental 16 (DSE2) &	
	Departmental 17 (DSE3)	
	opted by the student. The outcome	
	is to be presented	
	in Departmental 19.(P). The project	
	work can either	
	be a review or a practical project	
	which on	
	completion will have to be	
	presented as a dissertation.	
	The topic of the review/project will	
	be finalized after discussion with	
	the concerned teacher.	
Week 9 to	Laboratory course of DSE 2	
Week 12	(Departmental 18)	COURSE CODE: BOTPDSE02T (Departmental 16)- ADVANCED
	BOTPCOR18P, According to	PLANT PHYSIOLOGY& BIOCHEMISTRY
	theoretical syllabus,	Unit-2: Stress physiology, Class Test
	Continuous Assessment	() () () () () () () () () ()
	Dissertation Project Work	
	(Departmental 20)	
	BOTPCOR20P, The dissertation will	
	be based on the	
	Departmental 16 (DSE2) &	
	Departmental 17 (DSE3) opted by	
	the student. The outcome is to be	
	presented in Departmental 19.(P).	
	The project work can either	
	be a review or a practical project	
	which on completion will have to	
	be presented as a dissertation.	

	The topic of the review/project will be finalized after discussion with the concerned teacher.	
Week 13	Laboratory course of DSE 2 (Departmental 18) BOTPCOR18P, According to theoretical syllabus, Continuous Assessment Dissertation Project Work (Departmental 20) BOTPCOR20P, The dissertation will be based on the Departmental 16 (DSE2) & Departmental 17 (DSE3) opted by the student. The outcome is to be presented in Departmental 19. (P). The project work can either be a review or a practical project which on completion will have to be presented as a dissertation. The topic of the review/project will be finalized after discussion with the concerned teacher.	COURSE CODE: BOTPDSE02T (Departmental 16)- ADVANCED PLANT PHYSIOLOGY& BIOCHEMISTRY Unit-: 3: Oxidative and nitrosative stress and antioxidative strategies:, Class Test
Week	14 Internal	Examination
Week 15 to 17	Laboratory course of DSE 2 (Departmental 18) BOTPCOR18P- Practical Mock Test Seminar presentation by the students, It will consist of presentation the work done in Departmental 20 (which can either be a review or a practical project.) in the form of a seminar using ICT tools.	COURSE CODE: BOTPDSE02T (Departmental 16)- ADVANCED PLANT PHYSIOLOGY& BIOCHEMISTRY Unit-7: Secondary metabolites and their biotechnological aspects, Class Test
Week 18	Revision, Practice for End term examination	Revision, solving and analysis of questions for End term Examination of topic of each semester.

Teaching Plan for Odd Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M.Sc. Semester I, III
Name of the Teacher: Dr. Santanu Saha Subject: Botany

Paper: AECC 1: Understanding and Presenting Scientific Literature (BOTPAEC01M)

Discipline Specific Elective (DSE)1: Plant Developmental Biology and Plant Anatomy

(BOTPDSE01T)

Laboratory Course - Plant Physiology & Biochemistry (BOTPCOR15P)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)	
Week 1 to week 4	Anatomy Laboratory Course(BOTPCOR15P) Topic 1,	AECC 1: Understanding and Presenting Scientific Literature (BOTPAEC01M) Topic 1, Class Test DSE 1: Plant Developmental Biology and Plant Anatomy (BOTPDSE01T) Topic 3 Class test	
Week 5 to Week 8	Anatomy Laboratory Course(BOTPCOR15P) Topic 2, continuous assessment	AECC 1: Understanding and Presenting Scientific Literature (BOTPAEC01M) Topic 2, Class Test DSE 1: Plant Developmental Biology and Plant Anatomy (BOTPDSE01T) Topic 4 Class test	
Week 9 to Week 12	Anatomy Laboratory Course(BOTPCOR15P)Topic 7,	AECC 1: Understanding and Presenting Scientific Literature (BOTPAEC01M) Topic 3, Class Test DSE 1: Plant Developmental Biology and Plant Anatomy (BOTPDSE01T) Topic 5 Class test	
Week 13	Anatomy Laboratory Course(BOTPCOR15P) Topic 8, continuous assessment	AECC 1: Understanding and Presenting Scientific Literature (BOTPAEC01M) Topic 4, Class Test DSE 1: Plant Developmental Biology and Plant Anatomy (BOTPDSE01T) Topic 6 Class test	
Week 14	14 Internal Examination		
Week 15 to week 17	Anatomy Laboratory Course (BOTPCOR15P)Topic 9, continuous assessment	AECC 1: Understanding and Presenting Scientific Literature (BOTPAEC01M) Topic 5,6 Class Test DSE 1: Plant Developmental Biology and Plant Anatomy (BOTPDSE01T) Topic 7 Class test	
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination	

Teaching Plan for Even Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M.Sc. Semester II, IV
Name of the Teacher: Dr. Santanu Saha Subject: Botany

Paper: Core Course: Plant Ecology and Environmental Biology (BOTPCOR07T)

Revision of Experiments, End Term Examination

Week18

Skill Enhancement Course (SEC): Biodiversity & Conservation (BOTPSEC01T)

Laboratory Course: BOTPCOR10P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned
Week 1 to week 4	Core Course: Plant Ecology and Environmental Biology :Laboratory Course (BOTPCOR10P) Topic 1, continuous assessment Field visit	Core Course: Plant Ecology and Environmental Biology (BOTPCOR07T) Topic 1, 2 Class Test SEC: Biodiversity & Conservation (BOTPSEC01T) Topic 1,2 Class test
Week 5 to Week 8	Core Course: Plant Ecology and Environmental Biology :Laboratory Course (BOTPCOR10P) Topic 2, 3 continuous assessment Field visit	Core Course: Plant Ecology and Environmental Biology (BOTPCOR07T) Topic 3,4, Class Test SEC: Biodiversity & Conservation (BOTPSEC01T) Topic 3,4 Class test
Week 9 to Week 12	Core Course: Plant Ecology and Environmental Biology :Laboratory Course (BOTPCOR10P) Topic 4, 5, 6 continuous assessment	Core Course: Plant Ecology and Environmental Biology (BOTPCOR07T) Topic 5,6, 7 Class Test SEC: Biodiversity & Conservation (BOTPSEC01T) Topic 5,6 Class test
Week 13	Core Course: Plant Ecology and Environmental Biology :Laboratory Course (BOTPCOR10P) Topic 7, continuous assessment	Core Course: Plant Ecology and Environmental Biology (BOTPCOR07T) Topic 8, Class Test SEC: Biodiversity & Conservation (BOTPSEC01T) Topic 7 Class test
Week 14	Internal	Examination
Week 15 to week 17	Core Course: Plant Ecology and Environmental Biology :Laboratory Course (BOTPCOR10P) Topic 8, 9 continuous assessment	Core Course: Plant Ecology and Environmental Biology (BOTPCOR07T) Topic 9, 10 Class Test SEC: Biodiversity & Conservation (BOTPSEC01T)Topic 8 Class test
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Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for ODD Semester, PG course, Department of BOTANY, Session (2022 - 2023)
Class: MSc Semester I AND III
Name of the Teacher: MOUSUMI MUKHOPADHYAY Subject: Botany

Core course: Fungal & Oomycete Biology (Departmental 3) BOTPCOR03T/ Laboratory Course (Departmental 5) BOTPCOR05P/ DSE1: Phytochemistry and Pharmacognosy (Departmental 13) BOTPDSE01T/ Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P

S No. Practical syllabus to be covered (Pener code to Theory syllabus to be covered (Pener code to be presented to

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)	
Week 1 to week 4	Laboratory Course (Departmental 5) BOTPCOR05P: Fungi & Oomycete: Topic 1, Continuous Assessment Laboratory Course- Plant Physiology & Biochemistry According to theoretical syllabus, Continuous Assessment (Departmental 15) BOTPCOR15P:	Fungal & Oomycete Biology (Departmental 3) BOTPCOR03T: Topic 1, Class Test DSE1: Phytochemistry and Pharmacognosy (Departmental 13) BOTPDSE01T: Phytochemistry and Pharmacognosy: Introduction, history, & scope, Classification and pharmacological action of plant drugs, Class Test	
Week 5 to Week 8	Laboratory Course (Departmental 5) BOTPCOR05P: Fungi & Oomycete: Topic 1, Continuous Assessment Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P: According to theoretical syllabus, Continuous Assessment	Fungal & Oomycete Biology (Departmental 3) BOTPCOR03T: Topic 2, Topic 3, Class Test DSE1: Phytochemistry and Pharmacognosy (Departmental 13) BOTPDSE01T: Phytochemistry and Pharmacognosy: Ethanopharmacognosy and Ethanomedicine, Class Test	
Week 9 to Week 12	Laboratory Course (Departmental 5) BOTPCOR05P: Fungi & Oomycete: Practical Mock Test Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P: Practical Mock Test	Fungal & Oomycete Biology (Departmental 3) BOTPCOR03T: Topic 8, Mid Term Examination DSE1: Phytochemistry and Pharmacognosy (Departmental 13) BOTPDSE01T: Phytochemistry and Pharmacognosy: Ethanopharmacognosy and Ethanomedicine, Mid Term Examination	
Week 13	Laboratory Course (Departmental 5) BOTPCOR05P: Fungi & Oomycete: Revision of Experiments, Laboratory Course- Plant Physiology & Biochemistry(Departmental 15) BOTPCOR15P: Revision of Experiments.	Fungal & Oomycete Biology(Departmental 3) BOTPCOR03T: Revision, Problems analyses, DSE1: Phytochemistry and Pharmacognosy (Departmental 13) BOTPDSE01T: Phytochemistry and Pharmacognosy:Revision, Problems analyses, End Term Examination	
Week 14	Internal Examination		
Week 15 to 17	Laboratory Course- Plant Physiology & Biochemistry(Departmental 15) BOTPCOR15P: Revision of Experiments, Mock Test	Fungal & Oomycete Biology(Departmental 3) BOTPCOR03T: Revision, Problems analyses, Tutorial	
Week 18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination	

Teaching Plan for ODD Semester, PG course, Department of BOTANY, Session (2022 - 2023)
Class: MSc Semester II AND IV

Name of the Teacher: MOUSUMI MUKHOPADHYAY

Subject: Botany

Core course: Angiosperm Systematics (Departmental 6) BOTPCOR06T/Laboratory Course (Departmental 10) BOTPCOR10P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Laboratory Course (Departmental 10) BOTPCOR10P: Topic 1, Topic 2, Topic 3, Continuous Assessment	Angiosperm Systematics (Departmental 6) BOTPCOR06T: Botanical Nomenclature, Major systems of angiosperm classification, Taxonomic evidences and concepts of characters, Species/genes/family and other categories
Week 5 to Week 8	Laboratory Course (Departmental 10) BOTPCOR10P : Topic 4, Topic 5, Topic 6, Topic 7, Continuous Assessment	Angiosperm Systematics (Departmental 6) BOTPCOR06T: A general survey of the following orders of angiosperms (Sensu Cronquest, 1988), Biosystematics, Numerical taxonomy
Week 9 to Week 12	Laboratory Course (Departmental 10) BOTPCOR10P : Topic 10, Topic 11, Practical Mock Test	Angiosperm Systematics (Departmental 6) BOTPCOR06T: Phylogenetic taxonomy, Molecular Systematics, Mid Term Examination
Week 13	Laboratory Course	Angiosperm Systematics

Week 13	Laboratory Course (Departmental 10) BOTPCOR10P: Revision of Experiments.	Angiosperm Systematics (Departmental 6) BOTPCOR06T: Revision, Problems analyses,
Week 14	Internal Exar	nination
Week 15 to 17	Laboratory Course (Departmental 10) BOTPCOR10P: Revision of Experiments, Mock Test	Angiosperm Systematics (Departmental 6) BOTPCOR06T: Revision, Problems analyses, Tutorial
Week 18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Odd Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M. Sc Semester I & III
Name of the Teacher: Dr. Kausik Majumder Subject: Botany

Paper: Integrated Life Sciences (Departmental 1) BOTPCOR01T, Plant Viruses & Bacteria (Departmental 4) BOTPCOR04T, Laboratory Course (Departmental 5) BOTPCOR05P, Molecular & Cellular Genetics & Plant Breeding (Departmental 11) BOTPCOR11T, Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T, Laboratory Course- Molecular & Cellular Genetics & Plant Breeding (Departmental 14) BOTPCOR14P, Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Laboratory Course (Departmental 5) BOTPCOR05P Topic 1, Continuous Assessment	Integrated Life Sciences (Departmental 1) BOTPCOR01T, Basic statistics, Class Test
	Laboratory Course- Molecular & Cellular Genetics & Plant Breeding (Departmental 14) BOTPCOR14P, According to theoretical syllabus, Continuous Assessment Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P, According to theoretical syllabus, Continuous Assessment	Plant Viruses & Bacteria (Departmental 4) BOTPCOR04T, Principles of Plant Viral Taxonomy, Class Test Molecular & Cellular Genetics & Plant Breeding (Departmental 11) BOTPCOR11T, Laws of inheritance, Extensions of Mendelian principles, Class Test Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Enzymes and bioenergetics, Class Test
Week 5 to Week 8	Topic 1, Continuous Assessment	Integrated Life Sciences (Departmental 1) BOTPCOR01T, Basic statistics, Class Test Plant Viruses & Bacteria (Departmental 4) BOTPCOR04T, Principles of plant viral structure and genetics, Class Test Molecular & Cellular Genetics & Plant Breeding (Departmental 11) BOTPCOR11T, Organization and measure of genetic variation, Class Test Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Enzymes and bioenergetics, Class Test
Week 9 to Week 12	Topic 2, Continuous Assessment Laboratory Course- Molecular & Cellular Genetics & Plant Breeding (Departmental 14) BOTPCOR14P, According to theoretical syllabus, Continuous Assessment	Integrated Life Sciences (Departmental 1) BOTPCOR01T, Methods in Biology, Class Test Plant Viruses & Bacteria (Departmental 4) BOTPCOR04T, Principle techniques of study Assay and purification of virus particle, Class Test Molecular & Cellular Genetics & Plant Breeding (Departmental 11) BOTPCOR11T, Organization and measure of genetic variation, Class Test Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Protein structure, Class Test

week 13	1	Methods in Biology, Class Test
	Plant Breeding (Departmental 14) BOTPCOR14P, According to theoretical syllabus, Continuous Assessment Laboratory Course- Plant Physiology & Biochemistry (Departmental 15) BOTPCOR15P, According to theoretical syllabus, Continuous Assessment	Plant Viruses & Bacteria (Departmental 4) BOTPCOR04T, of plant viral structure and genetics, Class Test Molecular & Cellular Genetics & Plant Breeding (Departmental 11) BOTPCOR11T, Marker assisted breeding, Class Test Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Protein structure, Class Test
Week 14	Internal I	Examination
Week 15 to week 17	Practical Mock Test	Integrated Life Sciences (Departmental 1) BOTPCOR01T, Laws of inheritance, Extensions of Mendelian principles, Class Test
		Plant Viruses & Bacteria (Departmental 4) BOTPCOR04T, Virus induced gene silencing (VIGS), Class Test
		Molecular & Cellular Genetics & Plant Breeding (Departmental 11) BOTPCOR11T, Marker assisted breeding, Class Test
		Plant Physiology & Biochemistry (Departmental 12) BOTPCOR12T Protein structure, Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Laboratory Course (Departmental 5) BOTPCOR05P Integrated Life Sciences (Departmental 1) BOTPCOR01T.

Teaching Plan for Even Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M. Sc Semester II & IV
Name of the Teacher: Dr. Kausik Majumder Subject: Botany

Paper: Discipline Specific Electives (DSE) DSE 2: Advanced Plant Physiology & Biochemistry (Departmental 16) BOTPDSE02T, DSE 3: Plant Molecular Biology (Departmental 17) BOTPDSE03T, Laboratory course of DSE 2 & 3 (Departmental 18) BOTPCOR18P Laboratory Course- Seminar Presentation, (Departmental 19) BOTPCOR19P, Dissertation Project Work, (Departmental 20) BOTPCOR20P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Laboratory course of DSE 2 & 3 (Departmental 18) BOTPCOR18P, According to theoretical syllabus, Continuous Assessment	Advanced Plant Physiology & Biochemistry (Departmental 16) BOTPDSE02T, Genomics, Class Test
	Dissertation Project Work (Departmental 20) BOTPCOR20P, The dissertation will be based on the Departmental 16 (DSE2) & Departmental 17 (DSE3) opted by the student. The outcome is to be presented in Departmental 19.(P). The project work can either be a review or a practical project which on completion will have to be presented as a dissertation.	

	The topic of the review/project will be finalized after discussion with the concerned teacher.	
Week 5 to	Laboratory course of DSE 2 & 3 (Departmental 18)	Advanced Plant Physiology & Biochemistry (Departmental 16)
Week 8	BOTPCOR18P, According to theoretical syllabus, Continuous Assessment	BOTPDSE02T, Genomics, Class Test
	Dissertation Project Work (Departmental 20) BOTPCOR20P, The dissertation will be based on the Departmental 16 (DSE2) & Departmental 17 (DSE3) opted by the student. The outcome is to be presented in Departmental 19.(P). The project work can either be a review or a practical project which on completion will have to be presented as a dissertation. The topic of the review/project will be finalized after discussion with the concerned teacher.	
Week 9 to Week 12	Laboratory course of DSE 2 & 3 (Departmental 18) BOTPCOR18P, According to theoretical syllabus, Continuous Assessment	Advanced Plant Physiology & Biochemistry (Departmental 16) BOTPDSE02T, Proteomics, Class Test
	Dissertation Project Work (Departmental 20) BOTPCOR20P, The dissertation will be based on the Departmental 16 (DSE2) & Departmental 17 (DSE3) opted by the student. The outcome is to be presented in Departmental 19.(P). The project work can either be a review or a practical project which on completion will have to be presented as a dissertation. The topic of the review/project will be finalized after discussion with the concerned teacher.	
Week 13	Laboratory course of DSE 2 & 3 (Departmental 18) BOTPCOR18P, According to theoretical syllabus, Continuous Assessment	Advanced Plant Physiology & Biochemistry (Departmental 16) BOTPDSE02T, Proteomics, Class Test
	Dissertation Project Work (Departmental 20) BOTPCOR20P, The dissertation will be based on the Departmental 16 (DSE2) & Departmental 17 (DSE3) opted by the student. The outcome is to be presented in Departmental 19.(P). The project work can either be a review or a practical project which on completion will have to be presented as a dissertation. The topic of the review/project will be finalized after discussion with the concerned teacher.	
Week 14	Internal l	Examination
Week 15 to week 17	Laboratory course of DSE 2 & 3 (Departmental 18) BOTPCOR18P, Practical Mock Test	Advanced Plant Physiology & Biochemistry (Departmental 16) BOTPDSE02T, Proteomics, Class Test
	Seminar presentation by the students, It will consist of presenting the work done in Departmental 20 (which can either be a review or a practical project.) in the form of a seminar using ICT tools.	
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination
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Teaching Plan for Odd Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M.Sc. Semester I & III
Name of the Teacher: Dr. Subhadipa Sengupta Subject: Botany

Paper: Core Course: Integrated Life Sciences (Departmental 1), Course Code: BOTPCOR01T, Core course: Molecular & Cellular Genetics & Plant Breeding (Departmental 11)

Course Code: BOTPCOR011T and BOTPCOR11P

Biosafety And Laboratory Practices BOTPGEC01T Course Code: GEC1

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1	Departmental 1: Integrated Life Sciences	Departmental 1: Integrated Life Sciences
to week 4	Laboratory course	(BOTPCOR01T)
	Genomic DNA isolation, Continuous assessment	Methods in Biology, Class Test
	Departmental 11: Molecular & Cellular Genetics & Plant Breeding (BOTPCOR11P) Study on compound microscope	Departmental 11: Molecular & Cellular Genetics & Plant Breeding (BOTPCOR11T) Topic 1, 2 & 3
		GEC1: Biosafety And Laboratory Practices Topic 1
Week 5 to	Departmental 1: Integrated Life Sciences	Departmental 1: Integrated Life Sciences
Week 8	Laboratory course	(BOTPCOR01T)
	Plasmid DNA isolation	Methods in Biology, Class Test
	Continuous assessment	
		Departmental 11: Molecular & Cellular Genetics & Plant
	Departmental 11: Molecular & Cellular Genetics & Plant Breeding (BOTPCOR11P)	Breeding (BOTPCOR11T) Topic 4, 5 & 6
	Mitosis and Meiosis study	GEC1: Biosafety And Laboratory Practices
	,	Topic 2
Week 9 to	Departmental 1: Integrated Life Sciences	Departmental 1: Integrated Life Sciences
Week 12	Laboratory course	(BOTPCOR01T)
	Molecular techniques	Methods in Biology, Class Test
	Continuous assessment	
	Departmental 11: Molecular & Cellular Genetics	Departmental 11: Molecular & Cellular Genetics & Plant
	& Plant Breeding (BOTPCOR11P)	Breeding (BOTPCOR11T)
	Karyotype analysis	Topic 7, 8, 9 & 10
		GEC1: Biosafety And Laboratory Practices
		Topic 3

Week 13	Departmental 1: Integrated Life Sciences Laboratory course	Departmental 1: Integrated Life Sciences (BOTPCOR01T)
	1	Methods in Biology, different problem analysis on the
	Continuous assessment	topics, Class Test
	•	Departmental 11: Molecular & Cellular Genetics & Plant Breeding (BOTPCOR11T) Topic 11 & 12
		GEC1: Biosafety And Laboratory Practices
		Topic 4

Week 14	Internal	Examination
	Departmental 1: Integrated Life Sciences Revision, Viva preparation Departmental 18(P): Laboratory Course of DSE 3 Departmental 11: Molecular & Cellular Genetics	Departmental 1: Integrated Life Sciences (BOTPCOR01T) Methods in Biology, different problem analysis on the topics, Class Test Departmental 11: Molecular & Cellular Genetics & Plant
	& Plant Breeding (BOTPCOR11P) Ring chromosome study at translocation in Rhoeo plants	Breeding (BOTPCOR11T) Topic 13, 14, 15 & 16 GEC1: Biosafety And Laboratory Practices Revision, Question-Answer Analyses
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

Teaching Plan for Even Semester, PG course, Department of BOTANY, Session (2022 - 2023)

Class: M.Sc. Semester II & IV
Name of the Teacher: Dr. Subhadipa Sengupta Subject: Botany

Core course: Plant Molecular Biology (Departmental 17 & Departmental 18 (P)

Course Code: DSE 3 & Laboratory Course of DSE 3

COURSE CODE: BOTPCOR19P [Departmental 19 (P) Laboratory Course -Seminar Presentation] COURSE CODE: BOTPCOR20P [Departmental 20 (P): Dissertation Project Work]

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Departmental 18(P): Laboratory Course of DSE 3 Restriction mapping problems, Continuous assessment Departmental 20: Dissertation project work supervision	Departmental 17: Plant Molecular Biology Recombinant DNA technology, Basics of Cloning, Methods of DNA, RNA and protein analysis, Transcriptional analysis of gene expression, Class Test
Week 5 to Week 8	Departmental 18(P): Laboratory Course of DSE 3 Genomic DNA Isolation, Continuous assessment Departmental 20: Dissertation project work supervision	Departmental 17: Plant Molecular Biology Over expression of Recombinant proteins, Analysis of protein-DNA and protein-protein interaction, Class Test
Week 9 to Week 12	Departmental 18(P): Laboratory Course of DSE 3 Plasmid DNA Isolation, Restriction Digestion, Continuous assessment Departmental 20: Dissertation project work supervision	Departmental 17: Plant Molecular Biology Plant tissue culture and somatic cell genetics, Plant transformation vectors and methods, Direct gene transfer, Class Test
Week 13	Departmental 18(P): Laboratory Course of DSE 3 MS Media Preparation, Seed Sterilisation, Continuous assessment Departmental 20: Dissertation project work supervision	Departmental 17: Plant Molecular Biology Applications of transgenic technology in plants,
Week 14	Internal Ex	camination
Week 15 to week 17		Departmental 17: Plant Molecular Biology Gene regulation, Molecular biology of Recombination, Molecular markers

Week18		Departmental 17: Plant Molecular Biology Revision and class test
	Departmental 20: Dissertation project work supervision Departmental 19: Supervision on seminar presentation	

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA Teaching Plan for Odd Semester, UG and PG Courses

Department of Chemistry Session (2022-23)

Class: B.Sc and M.Sc. Semester: 1, 3, 5

Name of the Teacher: Dr. Nikhil Ranjan Pramanik

Subject: Chemistry

Paper: CEMACOR02T&P (UG SEM-I), CEMACOR05T&P (UG SEM-III), CEMADSE01T&P (UG SEM-V),

CHEMCOR03 &04(PG SEM-I) and CHEMCOR13&14 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry I: Chemical
to week 4	–I Lab: Discussion of principles of	Thermodynamics: Introduction, Zeroth law and First law.
	Physical experiments and Exp-1.	, , , , , , , , , , , , , , , , , , ,
	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II: Application of
	-II Lab: Discussion of principles of	thermodynamics-I:Partial molar properties and chemical
	Physical experiments and Exp-1 and 2	potential.
	CEMADSE01P: Advanced Physical	CEMADSE01T: Advanced Physical Chemistry: Statistical
	Chemistry Lab: Introduction to	thermodynamics: Introduction, Configurations.
	Fortran: Structure of Fortran program,	
	Programming and running in Laptop/	
	mobile	
	CHEMCOR04: Physical Chemistry	CHEMCOR03: Physical chemistry 1: Chemical Kinetics –I:
	Practical –I: Discussion of principles	Collision theory and activated complex theory.
	of Physical experiments and Exp-1	Comsion theory and activated complex theory.
	and 2	
	CHEMCOR14: Physical Chemistry	CHEMCOR13: Physical chemistry -3: Nanomaterials:
	Practical (Practical 5): Discussion of	Definition, classification and properties.
	principles of Physical experiments and	
	Exp-1and 2	
Week 5	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry I: Chemical
to week 8	–I Lab: Physical experiments, Exp-2	Thermodynamics: Thermochemistry
	and 3	CDM (CODOTT DI LI LOL LI
	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II: Application of
	–II Lab: Physical experiments, Exp- 3and 4	thermodynamics-I: Chemical potential and other properties of ideal substances: Pure and mixture.
	CEMADSE01P: Advanced Physical	CEMADSE01T: Advanced Physical Chemistry: Statistical
	Chemistry Lab: Inputs and outputs	thermodynamics: Boltzmann distribution.
	statements, Programming and running	thermodynamics. Bottzmann distribution.
	in Laptop/ mobile	
	1 1	
	CHEMCOR04 Physical Chemistry	CHEMCOR03: Physical chemistry 1: Chemical Kinetics –I:
	Practical –I:: Physical experiments,	Reactions between ions in solution: Influence of dielectric
	Exp-3and 4	constant, ionic strength and pressure on rate constatnt.
	CHEMCOR14: Physical Chemistry	CHEMCOR13: Physical chemistry -3: Nanomaterials:
	Practical (Practical 5): Physical	Relevance to dependency on size and shape.
W/2 -1- O	experiments Exp-3, 4 and 5	CEMACODOTT. Disserved Character L Character 1
Week 9	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry I: Chemical
to Week 12	–I Lab: Physical experiments, Exp-4 and 5	Thermodynamics: Second Law
12	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II: Application of
	-II Lab: Physical experiments, Exp-5	thermodynamics-I: Chemical equilibrium.
	and 6	mermon mannes i. Chemical equinorium.
	CEMADSE01P: Advanced Physical	CEMADSE01T: Advanced Physical Chemistry: Statistical
	Chemistry Lab: Control statements,	thermodynamics: Partition function and its applications.

	Programming and running in Laptop/mobile	
	CHEMCOR04: Physical Chemistry Practical –I: Physical experiments, Exp-5and 6 CHEMCOR14: Physical Chemistry Practical (Practical 5): Physical experiments Exp-6, 7 and 8	CHEMCOR03: Physical chemistry 1: Chemical Kinetics –I: Unimolecular reactions: Lindemann- Hinshelwood and RRK mechanism. CHEMCOR13: Physical chemistry -3: Nanomaterials: Synthetic methodologies – both physical and chemical methods.
Week 13	CEMACOR02P: Physical Chemistry –I Lab: Revision of physical	CEMACOR02T: Physical Chemistry I: Chemical Thermodynamics: Thermo dynamic relations.
	Experiments CEMACOR05P: Physical Chemistry –II Lab: Revision of Physical Experiments	CEMACOR05T: Physical Chemistry –II: Transport processes: Viscosity
	CEMADSE01P: Advanced Physical Chemistry Lab: Do Loops, Programming and running in Laptop/ mobile	CEMADSE01T: Advanced Physical Chemistry: Special Selected Topics: Third law of thermodynamics.
	CHEMCOR04: Physical Chemistry Practical –I: Revision of Physical experiments.	CHEMCOR03: Physical chemistry 1: Chemical Kinetics –I: Chain reactions and its mechanism.
	CHEMCOR14: Physical Chemistry Practical (Practical 5): Physical experiments Exp-9 and 10	CHEMCOR13: Physical chemistry -3: Carbon nanotubes, fullerene ,graphene
Week13 to		Exam
Week 15 to 17	CEMACOR02P: Physical Chemistry –I Lab: Tutorial on principles and experiments of physical chemistry experiments	CEMACOR02T: Physical Chemistry I: Chemical Chemical Kinetics: Theory of rate process.
	CEMACOR05P: Physical Chemistry –II Lab: Tutorial on principles and experiments of physical chemistry	CEMACOR05T: Physical Chemistry –II: Tutorial on application of thermodynamics-I and viscosity.
	experiments CEMADSE01P: Advanced Physical Chemistry Lab: Programming and running on several problems in Laptop/ mobile	CEMADSE01T: Advanced Physical Chemistry: Special Selected Topics: Tutorial on statistical thermodynamics and third law of thermodynamics.
	CHEMCOR04: Physical Chemistry Practical –I: Tutorial on principles and experiments of physical chemistry experiments	CHEMCOR03: Physical chemistry 1: Chemical Kinetics –I: Oscillatory reactions: Observation and mechanism. Autocatalytic reactions.
	CHEMCOR14: Physical Chemistry Practical (Practical 5): Tutorial on principles and experiments of physical chemistry experiments.	CHEMCOR13: Physical chemistry -3: Applications of nanomaterials and nanotechnology.
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA Teaching Plan for Odd Semester, UG and PG Courses

Department of Chemistry Session (2022-23)

Class: B.Sc and M.Sc. Semester: 1, 3, 5

Name of the Teacher: Dr. Sanat Kumar Saha

Subject: Chemistry

Paper: CEMACOR02T&P (UG SEM-I), CEMACOR05T&P (UG SEM-III), CEMADSE01T&P (UG SEM-V),

CHEMCOR03 &04(PG SEM-I) and CHEMCOR13&14 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry –I: Kinetic theory and
to week 4	–I Lab: Discussion of principles of Physical experiments and Exp-1.	gaseous state. Kinetic theory of gases: Ideal gas Part 1.
	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II: Foundation of
	-II Lab: Discussion of principles of	Quantum Mechanics: Beginning of Quantum Mechanics, wave
	Physical experiments and Exp-1 and 2	function, operators
	CEMADSE01P: Advanced Physical	CEMADSE01T: Advanced Physical Chemistry: Crystal
	Chemistry Lab: Introduction to	structure: Bravais lattice and laws of crystallography
	Fortran: Structure of Fortran program,	
	Programming and running in Laptop/	
	mobile	
	CHEMCOR04: Physical Chemistry	
	Practical –I: Discussion of principles	CHEMCOR03: Physical chemistry 1: Quantum Mechanics-I:
	of Physical experiments and Exp-1	Part-1: Postulates, Barrier problems and Tunnelling.
	and 2 CHEMCOR14 : Physical Chemistry	
	Practical (Practical 5): Discussion of	CHEMCOR13: Physical chemistry -3: Electrochemistry II: Ion
	principles of Physical experiments and	-transport in solution: Debye-Huckel- Onsager theory.
	Exp-1 and 2	aransport in solution. Booys Trucker onsager theory.
Week 5	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry –I :Kinetic theory and
to week 8	-I Lab :Physical experiments, Exp-2	gaseous state. Maxwell's distribution: Ideal gas Part 2.
	and 3	
	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II :Foundation of
	-II Lab: Physical experiments, Exp-	Quantum Mechanics: Particle in a box, Simple harmonic
	3and 4	oscillator
	CEMADSE01P: Advanced Physical Chemistry Lab: Inputs and outputs	CEMADSE01T: Advanced Physical Chemistry: Crystal structure: Crystal planes and determination of crystal structure.
	statements, Programming and running	structure. Crystar planes and determination of crystar structure.
	in Laptop/ mobile	
	III Euptop, moone	
	CHEMCOR04: Physical Chemistry	CHEMCOR03: Physical chemistry 1: Quantum Mechanics-I:
	Practical –I: Physical experiments,	Part-2:Angular momentum, Ehrenfest's theorem, Hydrogen
	Exp-3and 4	atom problem
	CHEMCOR14: Physical Chemistry	CHEMCOR13: Physical chemistry -3: Electrochemistry II:
	Practical (Practical 5): Physical	Thermodynamics of electrified interfaces.
W 1.0	experiments Exp-3, 4 and 5	CDM (CODOM DI LICILITY AND
Week 9	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry –I: Kinetic theory and
to Week 12	–I Lab: Physical experiments, Exp-4 and 5	gaseous state. Real gases.
12	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II:Foundation of
	-II Lab: Physical experiments, Exp-5	Quantum Mechanics: Particle in a box, Simple harmonic
	and 6	oscillator
	CEMADSE01P: Advanced Physical	CEMADSE01T: Advanced Physical Chemistry: Special topics:
	Chemistry Lab: Control statements,	Specific heat of solid, 3 rd Law of thermodynamics.
	Programming and running in Laptop/	

	mobile	
	CHEMCOR04: Physical Chemistry	CHEMCOR03: Physical chemistry 1: Electrochemistry I: Part-
	Practical –I: Physical experiments,	1:Ion-ion interaction: Debye Huckel theory of activity
	Exp-5and 6	coefficient.
	CHEMCOR14: Physical Chemistry	CHEMCOR13: Physical chemistry -3: Electrochemistry II:
	Practical (Practical 5): Physical	Structure of electrified interfaces: Helmholtz -Perrin model and
	experiments Exp-6, 7 and 8	Gouy-Chapman model.
Week 13	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry –I: Chemical Kinetics:
WEEK 13	· · · · · · · · · · · · · · · · · · ·	
	–I Lab: Revision of physical	Rate law, theory of reaction rate
	Experiments	CEMA CODOFT DI 1 1 CI 1 1 H T
	CEMACOR05P: Physical Chemistry	CEMACOR05T: Physical Chemistry –II:Transport processes:
	-II Lab: Revision of Physical	Conductance and transport number
	Experiments	
	CEMADSE01P: Advanced Physical	CEMADSE01T: Advanced Physical Chemistry: Special topics:
	Chemistry Lab: Do Loops,	Polymers
	Programming and running in Laptop/	
	mobile	CHEMCOR03: Physical chemistry 1: Electrochemistry I: Part-
	CHEMCOR04: Physical Chemistry	2:Electrode kinetics: Butler Volmer equation, Overpotential
	Practical –I:Revision of Physical	
	experiments.	CHEMCOR13: Physical chemistry -3: Electrochemistry II:
	CHEMCOR14 : Physical Chemistry	Structure of electrified interfaces: Stern model and Contact
	Practical (Practical 5): Physical	adsorption model (First part)
	experiments Exp-9 and 10	
Week13 to		Exam
Week 15	CEMACOR02P: Physical Chemistry	CEMACOR02T: Physical Chemistry –I: Chemical Kinetics:
to 17	-I Lab: Tutorial on principles and	homogeneous catalysis and autocatalysis
	experiments of physical chemistry	
	experiments	CEMACOR05T: Physical Chemistry –II:Tutorial on Quantum
	CEMACOR05P: Physical Chemistry	Mechanics and conductance
	-II Lab: Tutorial on principles and	
	experiments of physical chemistry	CEMADSE01T: Advanced Physical Chemistry: Tutorial on
	experiments	crystallography, Specific heat and Polymer
	CEMADSE01P: Advanced Physical	crystanography, specific ficat and rotyffici
	Chemistry Lab: Programming and	CHEMCOR03: Physical chemistry 1: Electrochemistry I: Part-
		2:Electrode kinetics: Overpotential
	running on several problems in	2. Electrode kinetics: Overpotential
	Laptop/ mobile	
	CHEMCOR04: Physical Chemistry	CHEMCODIA DI LI I LI LA CELLA IL LA CARRA
	Practical –I: Tutorial on principles and	CHEMCOR13: Physical chemistry -3: Electrochemistry II:
	experiments of physical chemistry	Structure of electrified interfaces: Contact adsoption model
	experiments	(Second part)
	CHEMCOR14: Physical Chemistry	
	Practical (Practical 5): Tutorial on	
	principles and experiments of physical	
	principles and experiments of physical chemistry experiments.	

Problem solving

Week 18

Class test

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry

Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 1, 3, 5 Name of the Teacher: Anisur Rahaman Molla

Subject: Chemistry

Paper: CEMACOR01 (UG SEM-I), CEMACOR07 (UG SEM-III), CEMHGEC03 (UG SEM-III GE),

CEMACOR12 (UG SEM-V), CHEMCOR02& CHEMCOR05 (PG SEM-I) and CHEMCOR12 (PG SEM-III)

CLN-	Door of and analysis to be a seen of	Th
SI No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR07: Qualitative analysis	CEMACOR01: Basics of organic chemistry – MO theory
to week 4	of single solid organic compounds	CEMACOR07: Structure, reactivity and preparation of
	(known samples)	carbonyl compounds, Burgi-Dunitz trajectory
	CHEMGEC03: Identification of pure	CEMHGEC03: Alcohols
	organic compound (known solid)	CEMACOR12: Structure of monosaccharides
	CHEMCOR05: Systematic	CHEMCOR02: Symmetry properties, point groups
	qualitative analysis of a liquid organic	CHEMCOR12: Basic principles of photochemistry
	compound (known samples)	
Week 5	CEMACOR07: Qualitative analysis	CEMACOR01: Basics of organic chemistry– FMO
to week 8	of single solid organic compounds (2	interactions
	unknown samples)	CEMACOR07: Nucleophilic addition reactions to C=O
	CHEMGEC03: Identification of pure	CEMHGEC03: Phenols and ethers
	organic compound (unknown solid)	CEMACOR12: Reactions of monosaccharides
	CHEMCOR05: Systematic	CHEMCOR02: Stereoisomerism and nomenclature
	qualitative analysis of a liquid organic	CHEMCOR12: Cis-trans isomerism, di-pi methane
	compound (2 unknown samples)	rearrangement
Week 9	CEMACOR07: Qualitative analysis	CEMACOR01: Aromaticity
to Week	of single solid organic compounds (2	CEMACOR07: Name reactions of carbonyl compounds
12	unknown samples)	CEMHGEC03: Aldehyde and ketone (preparation and
	CHEMGEC03: Identification of pure	reactivity)
	organic compound (known liquid)	CEMACOR12: Ring structure of monosaccharides
	CHEMCOR05: Systematic	CHEMCOR02: Conformational analysis of cyclic system
	qualitative analysis of a liquid organic	CHEMCOR12: Norish type-I and Norish type-II reaction
	compound (2 unknown samples)	
Week 13	CEMACOR07: Qualitative analysis	CEMACOR01: Mechanistic classification
	of single solid organic compounds (1	CEMACOR07: Reaction of carbonyl compounds with ylides
	unknown samples)	CEMHGEC03: Reactions of aldehydes & ketones-1
	CHEMGEC03: Identification of pure	CEMACOR12: Fischer's proof of configuration of (+)-glucose
	organic compound (unknown liquid)	CHEMCOR02: Topicity
	CHEMCOR05: Systematic	CHEMCOR12: Patterno-Buchi reaction
	qualitative analysis of a liquid organic	
	compound (1 unknown samples)	
Week13 to week 14 Internal Exam		Exam
		CEMACOR01: Reactive intermediates
to 17	of single solid organic compounds (1	CEMACOR07: Oxidation and reduction of carbonyl
	unknown samples)	compounds
	CHEMGEC03: Identification of pure	CEMHGEC03: Reactions of aldehydes & ketones-2
	organic compound (unknown liquid)	CEMACOR12: Disaccharides and polysaccharides
	CHEMCOR05: Systematic	CHEMCOR02: Dynamic aspects
	qualitative analysis of a liquid organic	CHEMCOR12: Photo reduction of ketones
	compound (2 unknown samples)	
Week 18	Class test	Problem solving
WCCK 10	C1858 1581	1 Toolem solving

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA Teaching Planfor Odd Semester, UG & PG course

Department of Chemistry Session (2022-2023)

Class: B.Sc Semester 1,3,5

Name of the Teacher: Dr. Shubhankar Samanta

Subject: Chemistry

Paper: CEMACOR01P, CEMHGEC01P, CEMACOR12P, CEMACOR07T, CEMACOR12T, PG Core -02, PG

Core -12

S. No	Practical syllabus to be covered (Paper	Theory syllabus to be covered (Paper code to be
	code to be mentioned)	mentioned)
Week	Paper CEMACOR01P: Identification of a	Paper CEMACOR07T: Substitution on -COX; directed ortho
1 to	Pure Organic Compound Solid compounds:	metalation of arenes using organolithiums, conjugate addition
week	oxalic acid, tartaric acid	by Gilman cuprates; Corey-House synthesis.
4	Paper CEMHGEC01P: Qualitative	Paper CEMACOR12T: Bogert-Cook and other useful
	Analysis of Single Solid Organic	syntheses (with mechanistic details)
	Compound(s) Experiment A: Detection of	PG Core -02: Organic Chemistry – 1: 1H NMR
	special elements (N, Cl, and S) in organic	Spectroscopy: spin-spin coupling – notation for spin systems.
	compounds.	Core -12: Organic Chemistry – 3 : Reduction with metal-
	Paper CEMACOR12P: Chromatographic	hydrides of B, Al, Sn, Si.
	Separations 1. TLC separation of a mixture	
	containing 2/3 amino acids	
Week	Paper CEMACOR01P: Identification of a	Paper CEMACOR07T: Grignard reagent; Organolithiums;
5 to	Pure Organic Compound Solid compounds:	Gilman cuprates: preparation and reactions (mechanism with
week	citric acid, succinic acid, resorcinol	evidence); addition of Grignard and organolithium to carbonyl
8	Paper CEMHGEC01P: Qualitative	compounds;
	Analysis of Single Solid Organic	Paper CEMACOR12T: Polynuclear hydrocarbons and their
	Compound(s) Experiment A: Solubility and	derivatives: synthetic methods include Haworth, Bardhan-
	Classification (solvents: H2O, dil. HCl, dil.	Sengupta,
	NaOH)	PG Core -02: Organic Chemistry – 1: 1H NMR
	Paper CEMACOR12P: Chromatographic	Spectroscopy: Equivalence and nonequivalence of protons
	Separations 1. TLC separation of a mixture	Core -12: Organic Chemistry – 3: Dissolving metal-
	of dyes (fluorescein and methylene blue)	reduction, Synthetically useful hydrogenolysis reaction.
Week	Paper CEMACOR01P: Identification of a	Paper CEMACOR07T: abnormal behavior of Grignard
9 to	Pure Organic Compound Solid compounds:	reagents; comparison of reactivity among Grignard,
Week	urea, glucose, cane sugar, benzoic acid and	organolithiums and organocopper reagents; Reformatsky
12	salicylic acid.	reaction; Blaise reaction; concept of umpolung and base-
	Paper CEMHGEC01P: Qualitative	nucleophile dichotomy in case of organometallic reagents.
	Analysis of Single Solid Organic	Paper CEMACOR12T: fixation of double bonds and Fries
	Compound(s): Detection of functional	rule; reactions (with mechanism) of naphthalene,
	groups: Aromatic-NO2, Aromatic -NH2, -	PG Core -02: Organic Chemistry – 1: coupling constant and
	СООН	its variation with stereochemistry – Karplus equation
	Paper CEMACOR12P: Chromatographic	Core -12: Organic Chemistry – 3: Shapiro reaction,
	Separations 1. Column chromatographic	Mitsunobu reaction,
	separation of leaf pigments from spinach	
	leaves	
Week	Paper CEMACOR01P: Identification of a	Paper CEMACOR07T: Twelve (12) principles of green
13	Pure Organic Compound Liquid	chemistry; planning of green synthesis; common organic
	Compounds: formic acid, acetic acid,	reactions

methyl alcohol, ethyl alcohol, acetone,

Paper CEMHGEC01P: Qualitative

Analysis of Single carbonyl (no distinction of –CHO and >C=O needed), -OH (phenolic) in solid organic compounds.

Paper CEMACOR12P: Paper chromatographic separation of a mixture containing 2/3 amino acids; NMR spectra analysis of (i) 4'-Bromoacetanilide (ii) 2-Bromo-4'-methylacetophenone (iii) Vanillin (iv) 2'- Methoxyacetophenone (v) 4-Aminobenzoic acid (vi) Salicylamide (vii) 2'Hydroxyacetophenone (viii) 1,3-Dinitrobenzene

Paper CEMACOR12T: anthracene, phenanthrene and their derivatives,

PG Core -02: Organic Chemistry – 1: Application of 1H NMR and 13C NMR for structure elucidation.

Core -12: Organic Chemistry – 3: Hofmann-Loffler-Freytag reaction, Barton reaction, Barton decarboxylation and deoxygenation reaction,

Week13 to week 14

Internal Exam

Week 15	Paper CEMACOR01P: Identification	Paper CEMACOR07T: Substitution at sp2 carbon (C=O
to 17	of a Pure Organic Compound Liquid	system): mechanism (with evidence): BAC2, AAC2, AAC1,
	Compounds: aniline, dimethylaniline,	AAL1 (in connection to acid and ester); acid derivatives:
	benzaldehyde, chloroform and	amides, anhydrides & acyl halides (formation and hydrolysis
	nitrobenzene; Unknown solid	including comparison).
	compound determination.	Paper CEMACOR12T: anthracene, phenanthrene and their
	Paper CEMHGEC01P:	derivatives,
	Qualitative determination unknown	PG Core -02: Organic Chemistry – 1: Application of 1H
	solid compounds	NMR and 13C NMR for structure elucidation.
	Paper CEMACOR12P: Assignment of	Core -12: Organic Chemistry – 3: Tandem cycloaddition
	labelled peaks in the IR spectrum of the	reaction, Baylis - Hilman Reaction, Passerini reaction, Ugi
	same compound explaining the relative	Reactions.
	frequencies of the absorptions (C-H, O-	
	H, N-H, C-O, C-N, C-X, C=C, C=O,	
	N=O, C≡C, C≡N stretching	
	frequencies; characteristic bending	
	vibrations are included).	
Week 18	Revision of whole allotted practical	Revision the whole theory syllabus by University Question
	syllabus by University question papers	papers.

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc and M.Sc. Semester: 1, 3, 5

Name of the Teacher: Susanta Kumar Manna

Subject: Chemistry

Paper: CEMACOR01 (UG SEM-I), CEMACOR07 (UG SEM-III), CEMHGEC03 (UG SEM-III GE),

CEMACOR12 (UG SEM-V), CHEMCOR02 (PG SEM-I) and CHEMCOR12 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CHEMGEC03P:Identification of pure	CEMACOR07T: Aromatic electrophilic substitution-nitration,
to week 4	organic compound(known solid)	sulphonation, halogenation
	CEMACOR12P:Chromatographic	CEMACOR12T:Pericyclic reaction: pi molecular orbital
	separation mixture of amino acids-	CHEMCOR02: Pericyclic reaction, Woodward-Hoffmann
	TLC	selection rule, F.M.O,
	CHEMCOR02: Drying of organic	CHEMCOR12: Oxidation Zones reagent, Cr (VI), Collins,
	solvents Chlorinated solvent CHCl ₃ ,	PCC
	DCM	
Week 5	CHEMCOR02: Drying of organic	CEMACOR07T: Different electrophilic substitution and
to week 8	solvents- Toluene, THF	mechanism
	CHEMGEC03: Identification of pure	CHEMCOR12T: electrocyclic reaction
	organic compound (unknown solid)	CHEMCOR02: Electrocyclic reaction, Huckel-Mobius
	CHEMCOR12p: Alanine, Lysine,	approach
	Leucine (known)	CHEMCOR12: Oxidation, PDC, PFC, DMSO based oxidation
Week 9	CHEMCOR02: Drying of organic	CEMACOR07T: Nucleophilic substitution, Benzyne
to Week	solvents MeOH	mechanism
12	CHEMGEC03: Identification of pure	
	organic compound (known liquid)	CHEMCOR12T:Cycloaddition reaction
	CEMACOR12P: TLC separation with	CHEMCOR02: Cycloaddition reaction
	unknown and mixture	CHEMCOR12: OxidationMofatt, Swern, DMP, IBX, Ag ₂ O,
		RuO ₄ , OSO ₄ , NaIO ₄ ,
Week 13	CHEMGEC03:Identification of pure	CEMACOR07T: Ipso substitution
	organic compound (unknown liquid)	
	CHEMCOR02:ET ₃ N	CHEMCOR12T:Sigmatropic rearrangement
	CEMACOR12P:Paper	CHEMCOR02: Sigmatropic rearrangement [1,3] [1,5], [1,7]H
	chromatography	shift -group transfer reaction
		CHEMCOR12: reduction with Metal hydride B, Al, Sn, Si, Sm,
W-112		In
Week13 to	o week 14 Internal	Exam
Week 15	CHEMGEC03:Identification of pure	CEMACOR07T: Tutorial of entire aromatic substitution
to 17	organic compound (unknown liquid)	CHEMCOR12T:Claisen and Cope rearrangement
	CEMACOR12P:Column	CHEMCOR02: [3,3] Claisen and Cope rearrangement
	chromatography with spinach leaves	CHEMCOR12: Special reaction Shapiro, Mitsonobu, Barton,
	6 1 J	Ugi, Passerini reaction
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry

Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 1, 3, 5 Name of the Teacher: Tirtha Pada Majhi

Subject: Chemistry

Paper: CEMACOR01 (UG SEM-I), CEMACOR07 (UG SEM-III), CEMHGEC03 (UG SEM-III GE),

CEMACOR12 (UG SEM-V), CHEMCOR02 (PG SEM-I) and CHEMCOR12 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR07: Qualitative analysis	CEMACOR01: Basics of organic chemistry – Valence Bond
to week 4	of single solid organic	theory and orbital pictures of bonding
	compounds(known samples)	CEMACOR07: Acidity of α-H of C=O, kinetic and
	CHEMGEC03: Identification of pure	thermodynamic enolates, halogenation of carbonyl compds.
	organic compound(known solid)	CEMHGEC03:Benzene-preparations
	CHEMCOR02: Systematic	CEMACOR12: Amino acids: types and properties
	qualitative analysis of a liquid organic	CHEMCOR02: Reaction intermediate, thermodynamic and
	compound (known samples)	kinetic aspects
		CHEMCOR12: Radicals-generation, shape and stability
Week 5	CEMACOR07: Qualitative analysis	CEMACOR01: Basics principles of organic chemistry—
to week 8	of single solid organic compounds (2	electronic displacement, inductive effect, resonance,
	unknown samples)	hyperconjugation and steric effects.
	CHEMGEC03: Identification of pure	CEMACOR07: Condensation reaction of carbonyl compds.
	organic compound (unknown solid)	CEMHGEC03:Electrophilic substitution in benzene
	CHEMCOR02: Systematic	CEMACOR12: Synthesis of α - amino acids
	qualitative analysis of a liquid organic	CHEMCOR02: Methods of determining reaction mechanism
	compound (2 unknown samples)	CHEMCOR12: Radical reactions
Week 9	CEMACOR07: Qualitative analysis	CEMACOR01: Physical properties of organic molecules- bond
to Week	of single solid organic compounds (2	energy, bond distance, bond angle, bond angle strain.
12	unknown samples)	CEMACOR07: Preparation and synthetic applications of
	CHEMGEC03: Identification of pure	diethyl malonate and ethyl acetoacetate.
	organic compound (known liquid)	CEMHGEC03: Grignard reagent-preparation and reaction
	CHEMCOR02: Systematic	CEMACOR12: Reactions of amino acids
	qualitative analysis of a liquid organic	CHEMCOR02: Correlation of structure and reactivity
	compound (2 unknown samples)	CHEMCOR12: C – X bond, C – C bond forming reactions.
Week 13	CEMACOR07: Qualitative analysis	CEMACOR01:Covalent & non-covalent intermolecular forces
	of single solid organic compounds (1	CEMACOR07: H.V.Z. reaction and Riley oxidation
	unknown samples)	CEMHGEC03:Side chain oxidation of aromatic system
	CHEMGEC03: Identification of pure	CEMACOR12:Peptide syntheses
	organic compound (unknown liquid)	CHEMCOR02:Nonlinear Hammett plots
	CHEMCOR02: Systematic	CHEMCOR12: C–C bond cleaving reactions via radical
	qualitative analysis of a liquid organic	reactions
*** 1.40 /	compound (1 unknown samples)	
Week13 to		
Week 15	CEMACOR07: Qualitative analysis	CEMACOR01:Dipole moments; relative stabilities of isomeric
to 17	of single solid organic compounds (1	hydrocarbons CEMACOPO7. Organometallia commounds
	unknown samples) CHEMGEC03: Identification of pure	CEMACOR07: Organometallic compounds.
	organic compound (unknown liquid)	CEMHGEC03: Aryl halides-preparation and reaction CEMACOR12: Determination of amino acid sequence and
	CHEMCOR02: Systematic	structure of protein
	qualitative analysis of a liquid organic	CHEMCOR02:Discussion on question pattern
	compound (2 unknown samples)	CHEMCOR12: Radical rearrangements
Week 18	Class test	Problem solving
W CCK 10	Class test	r rooteni sorving

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 1, 3, 5 Name of the Teacher: Arup Kumar Adak

Subject: Chemistry

Paper: CEMACOR06 (UG SEM-III), CEMACOR11 (UG SEM-V), CHEMCOR01 (PG SEM-I) and

CHEMCOR11 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR06P:Iodo-/	CEMACOR06T: Molecular orbital concept of bonding (The
to week 4	Iodimetricestimation of Cu ²⁺ ions CEMADSE02P: Estimation of .calcium, magnesium. AECC(PG):Plot of graphs for change in the UV-visand fluorescence spectra of the sensor L and in the presence of various metal ions using Origin Pro software	approximations of the theory, Linearcombination of atomic orbitals (LCAO)) (elementary pictorial approach CEMACOR11T: General Comparison on electronic configuration, oxidation states of lanthanoids and actinoidsCEMADSE02:Flame Atomic Absorption Spectrometry: Basic principles of instrumentation (choice of source, monochromator, detector, choice of flame and Burner designs. CHEMCOR01(PG):Basic principle, instrumentation, special futures of Polarography CHEMCOR11(PG):Nuclearstability, terrestrialabundance, distribution, relativistic effect of <i>f– BlockElements</i>
Week 5 to week 8	CEMACOR06P:Iodo-/ Iodimetric estimation of Vitamin C CEMADSE02P: To separate a mixture of Ni ²⁺ & Fe ²⁺ by complexation with DMG and extracting the Ni ²⁺ DMG complex in chloroform, and determine its concentration by spectrophotometry. AECC(PG): Limit of detection (LOD) calculation for sensor Lusing Microsoft Excel and Origin Pro software	CEMACOR06T:Sigma and pi bonds and delta interaction, multiple bonding. orbital designations: gerade, ungerade, HOMO, LUMO. orbital mixing CEMACOR11T: General Comparison on colour of lanthanoids and actinoids CEMADSE02:Flame Emission Spectrometry: Basic principles of instrumentation (choice of source, monochromator, detector, choice of flame and Burner designs. CHEMCOR01(PG):Special futures of Polarography and Ilkovic equation, half wave potential and its significance CHEMCOR11(PG):Electronic configuration, oxidationstates, aqueous-, redox-and complex-chemistry of f—BlockElements
Week 9 to Week 12	CEMACOR06P:Iodo-/ Iodimetricestimation of available chlorine in bleaching powder. CEMADSE02P: Determination of pKa values of indicator using spectrophotometry. AECC(PG)::Association constant using Benesi-Hildebrand method for sensor L usingMicrosoft Excel andOrigin Pro software	CEMACOR06T: Bond properties: bond orders, bond lengths, MO diagrams of H ₂ , Li ₂ , Be ₂ , B ₂ , C ₂ , N ₂ , O ₂ , F ₂ , and their ions wherever possible CEMACOR11: General Comparison on spectral and of lanthanoids and actinoids CEMADSE02: Techniques of atomization and sample introduction CHEMCOR01(PG): Electroanalytical method: Basic principle, instrumentation, special futures of ion selective electrode CHEMCOR11(PG): Electronicspectra and magnetic properties. Lanthanide and actinide contractions and their consequences, separation of lanthanidesandactinidesand theirapplications(examples) of of <i>f</i> – <i>BlockElements</i>
Week 13	CEMACOR06P: Estimation of Cu in brass. AECC(PG): Job's plot for meatal ions calculated by absorption	CEMACOR06T: Heteronuclear molecular orbitals: CO, NO, NO ⁺ , CN ⁻ CEMACOR11:Lanthanide contraction, separation of lanthanides (ion-exchange method only).

	spectroscopy using Origin Pro software	Orgel diagrams for 3d1 to 3d9 ions. CEMADSE02:Method of background correction, sources of chemical interferences and their method of removal. CHEMCOR01(PG):Electroanalytical method: Basic principle, instrumentation, special futures of cyclic voltametry CHEMCOR11 (PG):General Comparison on magnetic properties of lanthanoids and actinoids
Week13 to	week 14 Interna	
WCCKIS to	WCCK 14 Interna	i Exam
Week 15	CEMACOR06P: Estimation of Fe in	CEMACOR06T: Heteronuclear molecular orbitals: HF,
to 17	cement.	BeH ₂ , CO ₂ and H ₂ O
	AECC(PG): Plot of IR	CEMACOR11: General Comparison on magnetic properties
	spectrausing Origin Pro software	of lanthanoids and actinoids
		CEMADSE02: Techniques for the quantitative estimation of
		trace level of metal ions from water samples.
		CHEMCOR01(PG) Electroanalytical method: Basic
		principle, instrumentation, special futures of ampherometric
		titration,
		CHEMCOR11(PG):Lanthanidecompounds as high
		temperaturesuperconductor,nmr shiftreagentand MRI
		reagentof f—BlockElements
Week 18	Class test	Problem solving

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 1, 3, 5 Name of the Teacher: Arabinda Mandal

Subject: Chemistry

Paper: CEMG01T (UG SEM-I G), CEMACOR06 (UG SEM-III), CEMACOR11 (UG SEM-V), CHEMCOR01 (PG

SEM-I) and CHEMCOR11 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR06P: Estimation of Cu(II)	CEMG01T: Classification of elements on the basis of
to week 4	CEMACOR11P: Principles involved	electronic configuration
	in chromatographic separations. Paper	CEMACOR06T: Nuclear stability and nuclear binding energy.
	chromatographic separation of	Nuclear forces: meson exchange theory.
	following metal ions:	CEMG03T: Thermodynamic conditions for equilibrium,
	1. Ni (II) and Co (II)	degree of advancement; Variation of free energy with degree of
	2. Fe (III) and Al (III)	advancement; Equilibrium constant and standard Gibbs' free
	CHEMCOR01P: Spectrophotometric	energy change.
	Determination of:	CEMADSE02T: Solvent extraction: Classification, principle
	Fe(III) by sulphosalicylic acid and thiocyanate method	and efficiency of the technique.
		Mechanism of extraction: extraction by solvation and chelation.
		Technique of extraction: batch, continuous and counter current extractions.
		CHEMCOR01T: Introduction to group, sub group
		CHEMDSE1: Franck-Condon principle, Mirror-image
		symmetry and its violation, Radiative and radiationless
		deactivation.
Week 5	CEMACOR06P:	CEMG01T: General characteristics of s-, p-, d- and f-block
to week 8	Estimation of Vitamin C	elements.
	CEMACOR11P:	
	Estimation of Ni(II) using	CEMACOR06T: Nuclear models (elementary idea): Concept
	Dimethylglyoxime (DMG).	of nuclear quantum number, magic numbers. Nuclear
	2. Estimation of copper as CuSCN.	Reactions: Artificial radioactivity, transmutation of elements,
	CHEMCOR01P: Spectrophotometric	fission, fusion and spallation reaction.
	Determination of:	CEMG03T: Definitions of KP, KC and KX and relation
	Mn(II) by periodate oxidation method	among them; van't Hoff's reaction isotherm, isobar and isochore from different standard states.
		isochore from different standard states.
		CEMADSE02T: Qualitative and quantitative aspects of
		solvent extraction: extraction of metal ions from aqueous
		solution, extraction of organic species from the aqueous and
		nonaqueous media.
		CHEMCOR01T: Introduction to symmetry and symmetry
		operations.
		CHEMDSE1: Oscillator strength, Fluoroscence Quenchers
		and life-time variations, Photophysical processes of
Wastro	CEMACODOCD.	unimolecular processes.
Week 9 to Week	CEMACOR06P: Estimation of available chlorine in	CEMG01T: Positions of hydrogen and noble gases.
12	bleaching powder.	Atomic and ionic radii.
14	CEMACOR11P:	CEMACOR06T: Nuclear energy and power generation. Separation and uses of isotopes.
	Estimation of Al(III) by precipitating	CEMG03T: Shifting of equilibrium due to change in external
	with oxine and weighing as Al(oxine)3	parameters e.g. temperature and pressure; variation of
	(aluminium oxinate).	equilibrium constant with addition to inert gas; Le Chatelier's
	CHEMCOR01P: Synthesis of	principle.
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Week 13	Reinicke's salt CEMACOR06P: Estimation of Cu in brass. CEMACOR11P: Estimation of chloride. CHEMCOR01P: Synthesis of bis(biguanido) copper(II) sulphate.	CEMADSE02T: Chromatography: Classification, principle and efficiency of the technique. CHEMCOR01T: Matrix algebra for representation of group. CHEMDSE1: Delayed fluorescence, Kinetics of bimolecular processes: collision quenching. CEMG01T: Ionization potential, electron affinity, and electronegativity; periodic. CEMACOR06T: Radio chemical methods: principles of determination of age of rocks and minerals. CEMG03T: Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water; Ionization of weak acids and bases, pH scale, common ion effect. CEMADSE02T: Mechanism of separation: adsorption, partition & ion exchange.
Week13 to	week 14 Internal	Development of chromatograms: frontal, elution and displacement methods. CHEMCOR01T: Matrix representation of symmetry operations, characters of symmetry operations. CHEMDSE1: Stern-Volmer equation, Concentration dependence of quenching.
	week 14 Internal	Exam
Week 15 to 17	CEMACOR06P: Estimation of Fe in cement. CEMACOR11P: Spectrophotometry 1. Measurement of 10Dq by spectrophotometric method. 2. Determination of λmax of [Mn(acac)3] and [Fe(acac)3] complexes.	CEMG01T: Group-wise variation of above properties in respect of s- and p- block elements. CEMACOR06T: Radio carbon dating, hazards of radiation and safety measures. CEMG03T: Salt hydrolysis-calculation of hydrolysis constant, degree of hydrolysis and pH for different salts; Buffer solutions; Solubility and solubility product of sparingly soluble salts – applications of solubility product principle. CEMADSE02T: Qualitative and quantitative aspects of chromatographic methods of analysis: IC, GLC, GPC, TLC and HPLC. CHEMCOR01T: Examples og Reducible representation. CHEMDSE1:Excimer formation, Excited state electron transfer processes.
Week 18	Revision and Practice	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry

Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 1, 3, 5

Name of the Teacher: Rituparna Biswas

Subject: Chemistry

Paper: CEMG01T (UG SEM-I G), CEMACOR06 (UG SEM-III), CEMACOR11 (UG SEM-V), CHEMCOR01 (PG

SEM-I) and CHEMCOR11 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR06P: Estimation of	CEMG01T: Bohr's theory for hydrogen atom, atomic spectra of
to week 4	Cu(II)	hydrogen and Bohr's model.
	CEMADSE02P: Estimation of	CEMACOR06T: radius ratio rule and its application and
	calcium, magnesium.	limitations.
	CHEMCOR01P:	CEMACOR11T: Orbital and spin magnetic moments, spin only
	Spectrophotometric	moments of d ⁿ ions.
	Determination of: Fe(III) by	CEMADSE02T: basic principle of pH metric
	sulphosalicylic acid and	CHEMCOR01T: The concept of groups, subgroups, classes
	thiocyanate method	CHEMCOR11T: Stepwise and overall formation constants and
		their relations
Week 5	CEMACOR06P:	CEMG01T: Sommerfeld's model, quantum numbers and their
to week 8	Estimation of Vitamin C	significance
	CEMADSE02P: To separate a	CEMACOR06T: Born-Landé equation with derivation and
	mixture of Ni ²⁺ & Fe ²⁺ by	importance of Kapustinskii expression for lattice energy.
	complexation with DMG and	CEMACOR11T: effective magnetic moments, including orbital
	extracting the Ni ²⁺ -DMG complex	contribution.
	in chloroform, and determine its	CEMADSE02T: potentiometric titration
	concentration by	CHEMCOR01T: Group multiplication tables and the
	spectrophotometry.	rearrangement theorem.
	CHEMCOR01P:	CHEMCOR11T: factors affecting the stability of metal complexes
	Spectrophotometric	with reference to the nature of the metal ions and ligands.
	Determination of: Mn(II) by	
	periodate oxidation method	
Week 9	CEMACOR06P:	CEMG01T: Pauli's exclusion principle, Hund's rule
to Week	Estimation of available chlorine in	CEMACOR06T: Madelung constant, Born-Haber cycle
12	bleaching powder.	CEMACOR11T: quenching of magnetic moment: super exchange
	CEMADSE02P: Determination	and antiferromagnetic interactions
	of pKa values of indicator using	CEMADSE02T: conductometric titrations.
	spectrophotometry.	CHEMCOR01T: Symmetry elements and operations, products
	CHEMCOR01P: Synthesis of	of symmetry operations,
	Reinicke's salt	CHEMCOR11T: non statistical factors influencing stability of
		complexes in solution.
Week 13	CEMACOR06P: Estimation of	CEMG01T: Electronic configuration of many-electron atoms
	Cu in brass.	CEMACOR06T: Born-Haber cycle and its application,
	CHEMCOR01P: Synthesis of	CEMACOR11T: Orgel diagrams for 3d1 to 3d9 ions.
	bis(biguanido) copper(II)	CEMADSE02T: Techniques used for the determination of
	sulphate.	equivalence points.
		CHEMCOR01T: identification of point groups, Matrix
		representation of symmetry operations,
		CHEMCOR11T: Stability and reactivity of mixed ligand
		complexes with reference to chelate effect and thermodynamic
		considerations. Macrocyclic effect.
Week13 to week 14 Internal Exam		

Week 15 to 17	CEMACOR06P: Estimation of Fe in cement.	CEMG01T: Aufbau principle and its limitations CEMACOR06T: Defects in solids, Solubility energetics of dissolution process CEMACOR11T: Selection rules for electronic spectral transitions; spectrochemical series of ligands; charge transfer spectra CEMADSE02T: Determination of composition of metal complexes using Job's method of continuous variation and mole ratio method. CHEMCOR01T: reducible and irreducible representations, the "Great Orthogonality Theorem" CHEMCOR11T:Spectrophotometric and pH metric determination of binary formation constants.
Week 18	Practice	Revision

Teaching Plan for Even Semester, UG and PG courses Department of Chemistry Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 2, 4, 6 Name of the Teacher: Dr. Nikhil Ranjan Pramanik

Subject: Chemistry

Paper: CEMACOR08T&P (UG SEM-IV), CEMACOR14T&P (UG SEM-VI), CHEMCOR08 and, CHEMCOR10

(PG SEM-II), ,CHEMDSE02 and CHEMDSE03 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR08P: Physical Chemistry	CEMACOR08T: Physical Chemistry –III: Application of
to week 4	-III Lab: Discussion of principles of	Thermodynamics- II: Colligative properties.
	Physical experiments and Exp-1 and 2.	
	CEMACOR14P: Physical Chemistry	CEMACOR14T: Physical Chemistry –IV: Surface
	-IV Lab: Discussion of principles of	Phenomenon: Surface tension and energy.
	Physical experiments and Exp-1 and 2.	
	CHEMCOR10: Practical -4: Physical	CHEMCOR08: Physical Chemistry -2: Chemical Kinetics.
	Chemistry Practical II: Discussion of	Introduction: Enzyme catalysis.
	principles of Physical experiments and	
	Exp-1.	
	CHEMDSE03: Laboratory	CHEMDSE02: Physical Chemistry: Macromolecules:
	Experiment and Research Project:	Introduction, Definition and types of polymers.
	Physical: Spectrophotometric	
	experiments: Discussion of principles	
	of Physical experiments and Exp-1 and	
W1- F	CEMA CODOD Plania I Charistan	CEMA CODOCT: Dissert of Characters His Asself and Characters His Assel
Week 5	CEMACOR08P: Physical Chemistry	CEMACOR08T: Physical Chemistry –III: Application of
to week 8	–III Lab: Physical experiments: Exp-3 and 4.	Thermodynamics- II: Phase rule-Part 1
	CEMACOR14P: Physical Chemistry	CEMACOR14T: Physical Chemistry –IV: Surface
	-IV Lab: Physical experiments Exp-3	Phenomenon: Adsorption.
	and 4.	1 henomenon. Adsorption.
	and i.	
	CHEMCOR10: Practical -4: Physical	CHEMCOR08: Physical Chemistry -2: Chemical Kinetics:
	Chemistry Practical II: Physical	Characteristics and mechanism of enzyme catalysis.
	experiments: Exp 2 and Exp-3.	
	CHEMDSE03: Laboratory	CHEMDSE02: Physical Chemistry: Macromolecules:
	Experiment and Research Project:	Polymerization process.
	Physical experiments: Exp-3, 4 and 5.	•
Week 9	CEMACOR08P: Physical Chemistry	CEMACOR08T: Physical Chemistry –III: Application of
to Week	–III Lab: Physical experiments: Exp-5	Thermodynamics- II: Phase rule-Part 2.
12	and 6.	
	CEMACOR14P: Physical Chemistry	CEMACOR14T: Physical Chemistry –IV: Surface
	–IV Lab: Physical experiments Exp-5	Phenomenon: Heterogeneous catalysis.
	and 6.	
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	CHEMCOR10: Practical -4: Physical	CHEMCOR08: Physical Chemistry -2: Chemical Kinetics:
	Chemistry Practical II: Physical	Surface reactions and kinetics.
	experiments: Exp 4.	CHEMDSE02. Dhysical Chamistree Mannes land as Vinetic
	CHEMDSE03: Laboratory	CHEMDSE02: Physical Chemistry: Macromolecules: Kinetics
	Experiment and Research Project: Literature Review	of polymerization.
Week 13	CEMACOR08P: Physical Chemistry	CEMACOR08T: Physical Chemistry –III: Application of
WEEK 13	CENTACORUOI . Physical Chemistry	CENTACONOT. I Hysical Chemistry —III. Application of

Week 18	Class test	Problem solving
	Project work	
	Experiment and Research Project:	Conducting polymers
	Chemistry Experiments. CHEMDSE03: Laboratory	CHEMDSE02: Physical Chemistry: Macromolecules:
	Principles and experiments of Physical	
	Chemistry Practical II: Tutorial on	Kinetics of fast reactions.
	CHEMCOR10: Practical -4: Physical	CHEMCOR08: Physical Chemistry -2: Chemical Kinetics:
	experiments of Physical chemistry.	The second of surface the surf
	-IV Lab: Tutorial on Principles and	Phenomenon: Tutorial on Surface Phenomenon
	CEMACOR14P: Physical Chemistry	CEMACOR14T: Physical Chemistry –IV: Surface
to 17	–III Lab: Tutorial on Principles and experiments of Physical chemistry.	Thermodynamics- II: Tutorial on Application of thermodynamics.
Week 15	CEMACOR08P: Physical Chemistry	CEMACOR08T: Physical Chemistry –III: Application of
Week13 to		Exam
	Project work	more and morgan or polymers then determination.
	Experiment and Research Project:	Molecular weight of polymers- their determination.
	Experiments. CHEMDSE03: Laboratory	Micelles, micellar catalysis and its application. CHEMDSE02: Physical Chemistry: Macromolecules:
	CHEMCOR10: Revision Physical	CHEMCOR08: Physical Chemistry -2: Chemical Kinetics:
	•	
	experiments	Phenomenon: Colloids.
	CEMACOR14P: Revision of Physical	CEMACOR14T: Physical Chemistry –IV: Surface
	–III Lab: Revision of Physical experiments.	Thermodynamics- II: Binary solutions.

Teaching Plan for Even Semester, UG and PG courses

Department of Chemistry Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 2, 4, 6 Name of the Teacher: Dr. Sanat Kumar Saha

Subject: Chemistry

Paper: CEMACOR08T&P (UG SEM-IV), CEMACOR14T&P (UG SEM-VI), CHEMCOR08 and, CHEMCOR10

(PG SEM-II), CHEMCOR17, CHEMDSE02 and CHEMDSE03 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR08P: Physical Chemistry –	CEMACOR08T: Physical Chemistry –III: Electrical properties
to week	III Lab: Discussion of principles of	of molecules: Ionic equilibria, Electromotive force
4	Physical experiments and Exp-1 and 2.	CEMACOR14T: Physical Chemistry –IV: Molecular
	CEMACOR14P: Physical Chemistry –	spectroscopy: Introduction, Rotational spectroscopy
	IV Lab: Discussion of principles of	CHEMCOR08: Physical Chemistry -2: Statistical
	Physical experiments and Exp-1 and 2.	Thermodynamics I: Introduction, Ensembles, Maxwell
	CHEMCOR10: Practical -4: Physical	Boltzman distribution.
	Chemistry Practical II: Discussion of	CHEMCOR17: Physical Chemistry-4: Material Chemistry:
	principles of Physical experiments and	Introduction, Classification-Conductors, insulators,
	Exp-1.	semiconductors
	CHEMDSE03: Laboratory Experiment	CHEMDSE02: Physical Chemistry: Non-equilibrium
	and Research Project:	thermodynamics: Introduction, thermodynamic criteria for non-
	Spectrophotometric experiments:	equilibrium states
	Discussion of principles of Physical	
*** 1 7	experiments and Exp-1 and 2.	CDM CODOM PLANT COM TO THE PART OF THE PAR
Week 5	CEMACOR08P: Physical Chemistry –	CEMACOR08T: Physical Chemistry –III: Electrical properties
to week	III Lab: Physical experiments: Exp-3	of molecules: Dipole moment and poarizability
8	and 4.	CEMACOR14T: Physical Chemistry –IV: Molecular
	CEMACOR14P: Physical Chemistry –	spectroscopy: Vibrational and Raman spectroscopy
	IV Lab: Physical experiments Exp-3 and	CHEMCOR08: Physical Chemistry -2: Statistical
	4. CHEMCOR10: Practical -4: Physical	Thermodynamics I: The molecular partition function and
	Chemistry Practical II: Physical	thermodynamic properties. CHEMCOR17: Physical Chemistry-4: Material Chemistry:
	experiments: Exp 2 and Exp-3.	Theoretical basis: Free electron theory of metals, Specific heat,
	CHEMDSE03: Laboratory Experiment	Hall effect
	and Research Project:	CHEMDSE02: Physical Chemistry: Non-equilibrium
	Spectrophotometric experiments:	thermodynamics: Examples and criteria of irreversible
	Physical experiments: Exp-3, 4 and 5.	processes
Week 9	CEMACOR08P: Physical Chemistry –	CEMACOR08T: Physical Chemistry –III: Quantum chemistry:
to Week	III Lab: Physical experiments: Exp-5	Angular momentum, Hydrogen and Hydrogen-like atom
12	and 6.	CEMACOR14T: Physical Chemistry –IV: Molecular
	CEMACOR14P: Physical Chemistry –	spectroscopy: NMR and ESR spectroscopy.
	IV Lab: Physical experiments Exp-5 and	CHEMCOR08: Physical Chemistry -2: Statistical
	6.	Thermodynamics I: Factorisation of molecular partition
	CHEMCOR10: Practical -4: Physical	function.
	Chemistry Practical II: Physical	CHEMCOR17: Physical Chemistry-4: Material Chemistry:
	experiments: Exp 4.	Bloch theory, Bloch function
	CHEMDSE03: Laboratory Experiment	CHEMDSE02: Physical Chemistry: Non-equilibrium
	and Research Project: Literature Review	thermodynamics: Phenomenological equations, equivalent
		systems. Onsager Reciprocity Relation, Examples and
		illustrations
Week	CEMACOR08P: Physical Chemistry –	CEMACOR08T: Physical Chemistry –III: Quantum chemistry:
13	III Lab: Revision of Physical	LCAO and HF-SCF method
	experiments.	CEMACOR14T: Physical Chemistry –IV: Photochemistry:
	experiments.	CENTER ORITION IN THE DICTION OF THE PROPERTY.

	CEMACOR14P: Physical Chemistry –	Lambert-Beer's law, Photochemical processes
	IV Lab: Revision of Physical	CHEMCOR08: Physical Chemistry -2: Statistical
	experiments	Thermodynamics I: Thermodynamic properties of ideal gases.
	CHEMCOR10: Practical -4: Physical	CHEMCOR17: Physical Chemistry-4: Material Chemistry:
	Chemistry Practical II: Revision	Band theory and its consequences, Semiconductors-intrinsic
	Physical Experiments.	and extrinsic
	CHEMDSE03: Laboratory Experiment	CHEMDSE02: Physical Chemistry: Non-equilibrium
	and Research Project: Project work	thermodynamics: Onsager Reciprocity Relation, Examples and
		illustrations
Week13 t	o week 14 Internal	Exam
Week 15	CEMACOR08P: Physical Chemistry	CEMACOR08T: Physical Chemistry –III: Tutorial on
to 17	–III Lab: Tutorial on Principles and	electrical properties of molecules and Quantum chemistry.
	experiments of Physical chemistry.	CEMACOR14T: Physical Chemistry –IV: Photochemistry:
	CEMACOR14P: Physical Chemistry	Rate of photochemical processes.
	–IV Lab: Tutorial on Principles and	CHEMCOR08: Physical Chemistry -2: Statistical
	experiments of Physical chemistry.	Thermodynamics I: Calculation of equilibrium constant of
	CHEMCOR10: Practical -4: Physical	gaseous reaction in terms of partition function.
	Chemistry Practical II:Tutorial on	CHEMCOR17: Physical Chemistry-4: Material Chemistry:
	Principles and experiments of Physical	Superconductor: Theory and application.
	Chemistry Experiments.	CHEMDSE02: Physical Chemistry: Non-equilibrium
	CHEMDSE03: Laboratory	thermodynamics: Non-equilibrium stationary states: Prigogine's
	Experiment and Research Project:	principle of entropy production.
	Project work.	
Week 18	Class test	Problem solving

Teaching Plan for Even Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 2,4,6 Name of the Teacher: Anisur Rahaman Molla

Subject: Chemistry

Paper: CEMACOR04 (UG SEM-II), CEMACOR10 (UG SEM-IV), CEMSSEC002 (UG SEM-IV), CEMHGEC04

(UG SEM-IV GE)CHEMCOR07&CHEMCOR10 (PG SEM-II) and CHEMDSE02 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR04:Organic Preparations	CEMACOR10: Rearrangement to electron-deficient carbon
to week 4	(1-3)	CEMSSEC002: Carbohydrate
	CHEMCOR10: Separation,	CEMHGEC04: Solutions (1 st part)
	purification and identification of	CHEMCOR07: Synthetic Strategy-Basic concept
	organic compounds in binary mixtures	CHEMDSE02: Proteins
	(Known samples)	
Week 5	CEMACOR04:Organic Preparations	CEMACOR10: Rearrangement to electron-deficient nitrogen
to week 8	(4-6)	CEMSSEC002: Protein
	CHEMCOR10: Separation,	CEMHGEC04: Solutions (2 nd part)
	purification and identification of	CHEMCOR07: Synthetic strategy of various ring synthesis
	organic compounds in binary mixtures	CHEMDSE02: Carbohydrates
	(2 unknown samples)	
Week 9	CEMACOR04: Organic Preparations	CEMACOR10: Aromatic rearrangements
to Week	(7-9)	CEMSSEC002: Enzyme
12	CHEMCOR10: Separation,	CEMHGEC04: Phase rule
	purification and identification of	CHEMCOR07: Retrosynthetic analysis and forward synthesis
	organic compounds in binary mixtures	of organic molecules
	(2 unknown samples)	CHEMDSE02: Nucleic acids
Week 13	CEMACOR04: Organic Preparations	CEMACOR10: Rearrangement to electron-deficient oxygen
	(10)	CEMSSEC002: Biocatalysis
	CHEMCOR10: Separation,	CEMHGEC04: Phase diagram (one component system)
	purification and identification of	CHEMCOR07: Retrosynthetic analysis and forward synthesis
	organic compounds in binary mixtures	of organic molecules
	(1 unknown samples)	CHEMDSE02: Replication, transcription
Week13 to	week 14 Internal	Exam
Week 15	CEMACOR04:Organic Preparations	CEMACOR10: Rearrangement reactions by green approach
to 17	(11)	CEMSSEC002: Biochemistry of disease
1017	CHEMCOR10: Separation,	CEMHGEC04: Phase diagram (two component system)
	purification and identification of	CHEMCOR07: Synthetic strategies of few natural products
	organic compounds in binary mixtures	CHEMDSE02:Structural features of DNA and RNA
	(1 unknown samples)	
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry

Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 2,4,6 Name of the Teacher: Tirtha Pada Majhi

Subject: Chemistry

Paper: CEMACOR04 (UG SEM-II), CEMACOR10 (UG SEM-IV), CEMSSEC002 (UG SEM-IV), CEMHGEC04

(UG SEM-IV GE) CHEMCOR07 (PG SEM-II) and CHEMCOR16 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR04: Organic Preparations	CEMACOR04: Chirality arising out of stereo-axis
to week 4	(1-3)	CEMACOR1: Nitro compounds: aliphatic and aromatic
	CHEMCOR10: Separation,	CEMSSEC002: Lipids
	purification and identification of	CEMHGEC04: Conductance, cell constant, specific
	organic compounds in binary mixtures	conductance: variation with dilution
	(Known samples)	CEMADSE05T: Chemical explosives
	•	CHEMCOR07: Reduction using boron compounds
		CHEMCOR16: Bacterial and animal cells, mode of action of
		antibacterial agents, Sulfonamides
Week 5	CEMACOR04: Organic Preparations	CEMACOR04: Concept of pro-stereoisomerism
to week 8	(4-6)	CEMACOR10: Amines: Aliphatic
	CHEMCOR10: Separation,	CEMSSEC002: Lipoproteins
	purification and identification of	CEMHGEC04: Conductance at infinite dilution and their
	organic compounds in binary mixtures	determination for strong and weak electrolytes, Ostwald's
	(2 unknown samples)	dilution law
		CHEMCOR07: Hydroboration
		CHEMCOR16: β-lactum antibiotics-1
Week 9	CEMACOR04: Organic Preparations	CEMACOR04: Conformational: nomenclature, energy barrier,
to Week	(7-9)	stability
12	CHEMCOR10: Separation,	CEMACOR10: Amines: Aromatic
	purification and identification of	CEMSSEC002: Structure and biological role of DNA and
	organic compounds in binary mixtures	RNA
	(2 unknown samples)	CEMHGEC04: Application of conductance measurement
		CHEMCOR07: Reactions of organoboranes
		CHEMCOR16: 2 nd generation antibiotics
Week 13	CEMACOR04: Organic Preparations	CEMACOR04: Strains in molecules
	(10)	CEMACOR10: Alkylnitrile and isonitrile CEMSSEC002:
	CHEMCOR10: Separation,	Replication, Transcription and Translation
	purification and identification of	CEMHGEC04: Transport Number
	organic compounds in binary mixtures	CHEMCOR07: Unsaturated hydrocarbon synthesis
	(1 unknown samples)	CHEMCOR16: Anti-AIDS drugs
Week 14	Internal Exam	
Week 15	CEMACOR04: Organic Preparations	CEMACOR04: Conformational analysis of selected alkanes
to 17	(11)	and haloalkanes
	CHEMCOR10: Separation,	CEMACOR10: Diazonium salts and their related compounds
	purification and identification of	CEMSSEC002: Biochemistry of disease
	organic compounds in binary mixtures	CEMHGEC04: Electromotive force
	(1 unknown samples)	CHEMCOR07: Rearrangements of borane compounds
		CHEMDSE02:Structural features of DNA and RNA
		CHEMCOR16: Omeprazole, Prostaglandins- structure and
		synthesis
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA Teaching Plan for even Semester, UG & PG course Department of Chemistry Session (2022-2023)

Class: B.Sc

Semester 2,4,6 Name of the Teacher: Shubhankar Samanta

Subject: Chemistry

Paper: CEMACOR04P, CEMADSE04P, Core -05: Practical - 2, DSE - 03 - Laboratory Experiment & Research

Project:

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1 to week 4	CEMACOR04P: Estimation of glycine by Sörensen"s formol method CEMADSE04P: Use of molecular model kit to stimulate the reaction to investigate how the atom economy can illustrate Green Chemistry. Core -05: Practical – 2: Solvent Distillation DSE – 03 – Laboratory Experiment & Research Project: Project Work & Separation, purification and identification of organic compounds in binary mixtures	CEMACOR04T: Nucleophilic substitution reactions: substitution at sp3 centre: mechanisms (with evidence), relative rates & stereochemical features: SN1. CEMACOR10T: Amines: Aliphatic & Aromatic: preparation, separation (Hinsberg"s method) and identification of primary, secondary and tertiary amines; reaction (with mechanism) CEMADSE04T: Green Synthesis of the following compounds: adipic acid, catechol, disodium iminodiacetate (alternative to Strecker synthesis) Core -07: Organic Chemistry – 2, PG2: Organosulphur: Sulphur stabilization of anions and cations PG4-DSE: Advanced NMR spectroscopy 13M Application of DEPT,1H1H COSY,
Week 5 to week 8	CEMACOR04P: Estimation of glucose by titration using Fehling"s solution Estimation of vitamin-C (reduced) CEMADSE04P: •Benzoin condensation using Thiamine Hydrochloride as a catalyst instead of cyanide. PG-2: Solvent Distillation PG-4: Project Work & Separation, purification and identification of organic compounds in binary mixtures	CEMACOR04T: SNi; effects of solvent, substrate structure, leaving group and nucleophiles (including ambident nucleophiles, cyanide & nitrite); CEMACOR10T: Eschweiler—Clarke methylation, diazo coupling reaction, Mannich reaction; formation and reactions of phenylenediamines, diazomethane and diazoacetic ester. CEMADSE04T: Microwave assisted reactions in water: Hofmann Elimination, methyl benzoate to benzoic acid, oxidation of toluene and alcohols; microwave assisted reactions 54 in organic solvents Diels-Alder reaction and Decarboxylation reaction 3. Ultrasound assisted reactions: sonochemical Simmons-Smith Reaction Core -07: Organic Chemistry – 2, PG2: Organosulphur: Sulphonium salts, Sulphonium and sulphoxonium ylides PG4-DSE: Advanced NMR spectroscopy. Application of TOCSY, NOESY
Week 9 to	CEMACOR04P: Estimation of	CEMACOR04T: substitutions involving NGP; role of crown ethers
Week 12	formaldehyde (Formalin)	and phase transfer catalysts;
	Estimation of acetic acid in	CEMACOR10T: preparation and reaction (with mechanism):
	commercial vinegar	reduction under different conditions; Nef carbonyl synthesis,

	CEMADSE04P:	Henry reaction and conjugate addition of nitroalkane anion.
	Mechanochemical solvent free	CEMADSE04T:
	synthesis of azomethines.	Ultrasound assisted reactions: sonochemical Simmons-Smith
	Photoreduction of benzophenone	Reaction (Ultrasonic alternative to Iodine) 4 Surfactants for
	to benzopinacol in the presence of	carbon dioxide – replacing smog producing and ozone depleting
	sunlight	solvents with CO2 for precision cleaning and dry cleaning of
	PG-2: Solvent Distillation	garments. 5 Designing of Environmentally safe marine
	PG-4: Project Work & Separation,	antifoulant. 6 Rightfit pigment: synthetic azopigments to replace
	purification and identification of	toxic organic and inorganic pigments. 7 An efficient, green
	organic compounds in binary mixtures	synthesis of a compostable and widely applicable plastic (poly
	mixtures	lactic acid) made from corn.
		Core -07: Organic Chemistry – 2, PG2: Oganosilicon Compounds
		PG4-DSE : Advanced NMR spectroscopy. Application of HMBC, HSQC
Week 13	CEMACOR04P: Estimation of	CEMACOR04T: substitutions involving NGP; role of crown ethers
WCCK 13	Aniline	and phase transfer catalysts;
	Estimation of Phenol	CEMACOR10T: preparation and reaction (with mechanism):
	CEMADSE04P:	reduction under different conditions; Nef carbonyl synthesis,
	Photoreduction of benzophenone	Henry reaction and conjugate addition of nitroalkane anion.
	to benzopinacol in the presence of	,
	sunlight	CEMADSE04T:
	PG-2: Solvent Distillation	Oxidation reagents and catalysts; Biomimetic, multifunctional
	PG-4: Project Work & Separation,	reagents; Combinatorial green chemistry; Proliferation of
	purification and identification of	solventless reactions; co crystal controlled solid state synthesis
	organic compounds in binary	(C2 S 3); Green chemistry in sustainable development.
	mixtures	
		Core -07: Organic Chemistry – 2, PG2: Oganosilicon Compounds
		PG4-DSE: Advanced NMR spectroscopy. Solid State NMR
Week13	3 to week 14	Internal Exam
Week 15	CEMACOR04P: Estimation of	CEMACOR04T : substitutions involving NGP; role of crown ethers
to 17	Unknown sample solution	and phase transfer catalysts;
	PG-2: Solvent Distillation	CEMACOR10T : preparation and reaction (with mechanism):
	PG-4: Project Work & Separation,	reduction under different conditions; Nef carbonyl synthesis,
	purification and identification of organic compounds in binary	Henry reaction and conjugate addition of nitroalkane anion.
	mixtures	CEMADSE04T:
		Oxidation reagents and catalysts; Biomimetic, multifunctional
		reagents; Combinatorial green chemistry; Proliferation of
		solventless reactions; co crystal controlled solid state synthesis
		(C2 S 3); Green chemistry in sustainable development.
		Core -07: Organic Chemistry – 2, PG2: Oganosilicon Compounds
		PG4-DSE: Problem and Solution of NMR spectroscopy

Revision

Week 18

Revision, Practise

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc. and M.Sc.

Semester: 2,4,6 Name of the Teacher: Susanta Kumar Manna

Subject: Chemistry

Paper: CEMACOR04 (UG SEM-II), CEMACOR10 (UG SEM-IV), CEMSSEC002 (UG SEM-IV), CEMHGEC04

(UG SEM-IV GE)CHEMCOR07 (PG SEM-II) and CHEMDSE02 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR10P: estimation (1,2))	CEMACOR10T: NMR Spectroscopy-principle
to week 4	CHEMDSE03: multistep organic	CHEMCOR07: alkaloid (Coniine, tropine)
	synthesis; TLC treatment	CHEMDSE04T: Principles of green chemistry
		CHEMDSE02: Advanced pericyclicreaction, General
		perturbation molecular orbital theory,
		CEMACOR04T: elimination reaction –E1, E1CB
Week 5	CEMACOR10P: estimation (3-5))	CEMACOR10T: NMR Spectroscopy Chemical shift
to week 8	CHEMDSE03: multistep organic	CHEMDSE04T: Design of green solvent in
	synthesis; Preparation of phthalic acid	ionic liquids, fluorous biphasic solvent, PEG,
	to pthalimide	CHEMCOR07: Alkalod (Cocaine, quinine)
		CHEMDSE02:Correlation diagram, [1,3] Dipolar
		cycloaddition
		CEMACOR04T: elimination reaction E2, Ei, mechanism
Week 9	CEMACOR10P: estimation (6,7))	CEMACOR10T: NMR Spectroscopy, diamagnetic anisotropic
to Week	CHEMDSE03: project work and	effect
12	literature review	CHEMDSE04T:Solventless approach in green chemistry
		CHEMCOR07: Terpenoid (pinene, camphor,)
		CHEMDSE02: Electrocyclic reaction in charged system
		CEMACOR04T: Hoffmann and Saytzeffelimination reaction
Week 13	CEMACOR10P: estimation (8,9))	CEMACOR10T: NMR Spectroscopy-
	CHEMDSE03: project work and	CHEMDSE04T:Instrumental approach Microwave, sonication,
	literature review	in green chemistry
		CHEMCOR07: Terpenoid (caryophyllene)
		CHEMDSE02:Ene reaction, group transfer reaction
		CEMACOR04T: elimination reaction-Bredts rule, comparison
		of Substitution and elimination
Week13 to	week 14 Internal	Exam
Week 15	CEMACOR10P: estimation (10))	CEMACOR10T: NMR Spectroscopy
to 17	CHEMDSE03: project work and	CHEMDSE04T: Future trends ingreen chemistry
	literature review	CHEMCOR07:Steroid (cholesterol)
		CHEMDSE02:Cope and Claisen rearrangement [5,5] and [2,3]
		shift in ylide
		CEMACOR04T: elimination reaction tutorial class
Week 18	Class test	Problem solving

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc and M.Sc.

Semester: 2,4,6 Name of the Teacher: ARUP KUMAR ADAK

Subject: Chemistry

Paper: CEMACOR03 (UG SEM-II), CEMACOR09 (UG SEM-IV), CEMACOR13 (UG SEM-VI), CHEMCOR06

(PG SEM-II) and CHEMCOR11 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR03P: Estimation of Fe(II)	CEMACOR03T: Ion-electron method of balancing equation of
to week 4	using standardized KMnO ₄ solution	redox reaction
	CEMACOR09P: Complexometric	CEMACOR09T: Relative stability of different oxidation
	titration Zn(II)	states, diagonal relationship and anomalous behaviour of first
	CHEMCOR15P: Determination of	member of group 1 and 2.
	composition of complexes formed in	Study of Beryllium hydrides and halides compounds with
	solution by spectrophotometric methods:	emphasis on structure, bonding, preparation, properties and uses.
	Mole-ratio method	CEMACOR13T: Definition and classification of
		organometallic compounds on the basis of bond type .Concept
		of hapticity of organic ligands. 18-electron and 16-electron rules
		(pictorial MO approach)
		CHEMCOR06T(PG):Main group organometallics:
		Classification, synthesis, reactions, structure and bonding and
		applications with typical examples
		CHEMCOR15T: Catalysis by Organometallic compounds:
		Hydrogenationofolefins, Wilkinson's catalyst, Tolman catalytic
		loop, synthesis gas, water-gas shift reaction;
Week 5	CEMACOR03P: Estimation of Fe(II)	CEMACOR03T: Elementary idea on standard redox potentials
to week 8	and Fe(III) in a given mixture using	with sign conventions, Nernst equation (without derivation).
	K2Cr2O7 solution.	CEMACOR09T: Relative stability of different oxidation
	CEMACOR09P: Zn(II) in a Zn(II)	states, diagonal relationship and anomalous behaviour of first
	and Cu(II) mixture.	member of group 13 and 14
	CHEMCOR15P:Determination of	CEMACOR13T: Applications of 18-electron rule to metal
	composition of complexes formed in	carbonyls, nitrosyls, cyanides
	solution by spectrophotometric	CHEMCOR06T(PG): Application of 18- electron and 16-
	methods:	electron rules to transition metal organometallics, structure,
	Slope- ratio method	bonding pictorial mo-approach) and reactions of of η2-ethylinic
		, η3-allylic and η5- cyclopentadineyl compounds: K [Pt (η2-
		C2H4)Cl3], [(η3-C3H5) Pd Cl]2, (η5- C5H5)2 Fe];
		CHEMCOR15T(PG):),
		CatalysisbyOrganometalliccompounds: Hydroformylation(oxo
		process),Monsantoaceticacidprocess,Wackerprocess;.
Week 9	CEMACOR03P:	CEMACOR03T: Influence of complex formation on redox
to Week	Estimation of Fe(III) and Mn(II) in a	potentials; formal potential
12	mixture using standardized KMnO4	CEMACOR09T: Allotropy and catenation and relative
	solution	stability of different oxidation states and anomalous behaviour
	. CEMACOR09P: Ca(II) and Mg(II)	of first member of group 15
	in a mixture.	CEMACOR13T: General methods of preparation of mono and
	CHEMCOR15P:Determination of	binuclear carbonyls of 3d series. Structures of mononuclear and
	composition of complexes formed in	binuclear carbonyls.
	solution by spectrophotometric	CHEMCOR06T(PG): Carbene and carbyne complexes.
	methods:	CHEMCOR15T(PG):Syntheticgasoline:Fischer-Tropsch

	Job's method of continuous variation	processandMobileprocess,polymerization, oligomerization
Week 13	CEMACOR03P: Estimation of Fe(III) and Cu(II) in a mixture using K2Cr2O7. CEMACOR09P: Hardness of water. CHEMCOR15P:Determination of the rates of consecutive aquation of the complex, H[Co(III)(DMGH) ₂ Cl ₂], by conductance method	CEMACOR03T: Influence of precipitation on redox potentials CEMACOR09T:Study of Boric acid and borates, boron nitrides, borohydrides (diborane) compounds with emphasis on structure, bonding, preparation, properties and uses, CEMACOR13T:Pi-acceptor behaviour of CO, synergic effect and use of IR data to explain extent of back bonding. CHEMCOR06T(PG):Reactions of organometallic complexes: substitution, oxidative addition, reductive elimination, CHEMCOR15T(PG):Metathesisreactionsof alkenesandalkynes,Zieglar-Nattacatalysis.
Week 15 to 17	CEMACOR03P: Estimation of Fe(III) and Cr(III) in a mixture using K2Cr2O7. CEMACOR09P: Preparation of [Mn(acac)3] and Fe(acac)3] (acac=acetylacetonate)	CEMACOR03T: Influence of change of pH on redox potentials, Disproportionation and comproportionation reactions. CEMACOR09T: Study of graphitic compounds, silanes, Oxides and oxoacids of nitrogen, phosphorus compounds with emphasis on structure, bonding, preparation, properties and uses, CEMACOR13T:Reactions of organometallic complexes: substitution, oxidative addition, reductive elimination and insertion reactions CHEMCOR06T(PG):Reactions of organometallic complexes: insertion and elimination, electrophilic and nucleophilic reactions of coordinated ligands CHEMCOR15T:Photo dehydrogenationcatalyst(platinum POP).
Week 18	Class test	Problem solving

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc and M.Sc.

Semester: 2,4,6 Name of the Teacher: Arabinda Mandal

Subject: Chemistry

Paper: CEMACOR03 (UG SEM-II), CEMACOR09 (UG SEM-IV), CEMACOR13 (UG SEM-VI), CHEMCOR06

(PG SEM-II) and CHEMCOR11 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR03P: Estimation of Fe(II)	CEMACOR03T: Modern IUPAC Periodic table, Effective
to week 4	using standardized KMnO ₄ solution	nuclear charge, screening effects and penetration,
	CEMACOR09P: Complexometric	CEMACOR09T: Occurrence and uses, rationalization of
	titration Zn(II)	inertness of noble gases, peculiar behaviour of liquid helium,
	CEMACOR13P: Qualitative	Clathrates
	semimicro analysis of mixtures	CEMACOR13T: Zeise's salt: Preparation, structure,
	containing four radicals: Cation	evidences of synergic effect.
	Radicals: Na ⁺ , K ⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ ,	CEMADSE-O5T: Classification of alloys, ferrous and non-
	$Al^{3+}, Cr^{3+}, Mn^{2+}/Mn^{4+}$	ferrous alloys
	, ,	DSE T2: Separation techniques: Solvent extraction:
	CEMGEP2: Inorganic Chemistry-	Classification, principle and efficiency of the technique.
	LAB Qualitative semimicro	Mechanism of extraction: extraction by solvation and chelation.
	analysis of mixtures containing	CEMGET2: Comparative study of p-block elements:
	three radicals.	Group trends in electronic configuration, modification of pure
		elements.
	CEMGEP4:To find the total	CEMGET4: The Atmosphere: composition and structure of the
	hardness of water by EDTA titration.	atmosphere; troposphere, stratosphere, mesosphere and
	CHEMCODIAN C : :	thermosphere; ozone layer and its role; major air pollutants:
	CHEMCOR13P:Semimicro	CO, SO2, NOx and particulate matters – their origin and harmful effects
	qualitative inorganic analysis including rare elements. Cation Radicals derived	narmiui effects
	from: Ag, Hg, Pb, Bi, Cd, Cu, As, Sb,	CHEMCOR06 (PG SEM-II): LCAO-MO and VB treatments
	Sn, Fe, Al, Cr, Co, Ni, Mn, Zn, Ba, Sr,	on H_2^+ , H_2
	Ca,Mg, Na, K and NH ₄ ⁺ ion.	CHEMCOR13T: Construction of character tables (C_2v ,
		C_3v, C_4v, D_4).
		CHEMCOR15T: Fundamentals of X-ray crystallography,
		crystal forms, lattice, primitive cell, crystal systems and
		symmetry.
Week 5	CEMACOR03P: Estimation of Fe(II)	CEMACOR03T: Slater's rules, atomic radii, ionic radii
to week 8	and Fe(III) in a given mixture using	(Pauling's univalent), covalent radii, lanthanide contraction.
	$K_2Cr_2O_7$ solution.	Ionization potential, electron affinity
	CEMACOR09P: Zn(II) in a Zn(II)	CEMACOR09T: preparation and properties of XeF2, XeF4
	and Cu(II) mixture.	and XeF6
		CEMACOR13T: Ferrocene: Preparation and reactions
	CHEMCOR13P: Qualitative	(acetylation, alkylation, metallation, Mannich Condensation)
	semimicro analysis of mixtures	DSE T2: Separation techniques: Technique of extraction:
	containing four radicals: , Fe ³⁺ ,	batch, continuous and counter current extractions.
	Co^{2+}/Co^{3+} , Ni^{2+} , Cu^{2+} , Zn^{2+} , Pb^{2+} ,	Qualitative and quantitative aspects of solvent extraction:
	Co ²⁺ /Co ³⁺ , Ni ²⁺ , Cu ²⁺ , Zn ²⁺ , Pb ²⁺ , Cd ²⁺ , Bi ³⁺ , Sn ²⁺ /Sn ⁴⁺ , As ³⁺ /As ⁵⁺ ,	extraction of metal ions from aqueous solution, extraction of
	$Sb^{3+/5+}$, NH^{4+} , Mg^{2+} .	organic species from the aqueous and non aqueous media.
		CEMGET2: common oxidation states, inert pair effect, and
		their important compounds in respect of the following groups of
	CEMGEP2: Inorganic Chemistry-	elements.
		erenieno.

	LAB Qualitative semimicro analysis of mixtures containing three radicals.	CEMGET4: Problem of ozone layer depletion; green house effect; acid rain and photochemical smog; air pollution episodes: air quality standard; air pollution control measures: cyclone collector, electrostatic precipitator, catalytic converter.
	CEMGEP4: To find the PH of an unknown solution by comparing color of a series of HCl solutions + 1 drop of methyl orange, and a similar series of NaOH solutions + 1 drop of phenolphthalein.	CHEMCOR06 (PG SEM-II): application to homo- and hetero- nuclear diatomic molecules/ ions of second period elements CHEMCOR13T: representation for cyclic groups, wave functions as bases for Irreducible Representations. CHEMCOR15T: non-primitive lattices, crystal classes,
	CHEMCOR13P: Anion Radicals: F ⁻ , Cl ⁻ , Br ⁻ , I ⁻ , BrO ₃ ⁻ , IO ₃ ⁻ , SCN ⁻ , S ²⁻ S2O ₃ ²⁻ , SO ₃ ²⁻ , SO ₄ ²⁻ , NO ₂ ⁻ , NO ₃ ⁻ , PO ₄ ³⁻ , AsO ₃ ³⁻ ·AsO ₄ ³⁻ , BO ₃ ³⁻ , H ₃ BO ₃ ,SiO ₂ ⁻ , CrO ₄ ²⁻ , Cr ₂ O ₇ ²⁻ , [Fe(CN) ₆ ⁴⁻], [Fe(CN) ₆ ³⁻].	space groups, crystals and their properties.
Week 9 to Week 12	CEMACOR03P: Estimation of Fe(III) and Mn(II) in a mixture using standardized KMnO ₄ solution . CEMACOR09P: Ca(II) and Mg(II) in a mixture. CEMACOR13P: Qualitative semimicro analysis of mixtures containing four radicals: Anion Radicals: F ⁻ , Cl ⁻ , Br ⁻ , BrO ₃ ⁻ , I ⁻ , IO ₃ ⁻ , SCN ⁻ , S ²⁻ , SO ₄ ²⁻ , NO ₃ ⁻ CEMGEP2: Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals. CEMGEP4: To determine the rate constant for the acid catalysed	CEMACOR03T: electronegativity (Pauling's, Mulliken's and Allred-Rochow's scales) and factors influencing these properties CEMACOR09T: Nature of bonding in noble gas compounds (Valence bond treatment CEMACOR13T: Reactions of organometallic complexes: substitution. DSE T2: Separation techniques: Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange. CEMGET2: Comparative study of B-Al-Ga-In-Tl and C-Si-Ge-Sn-Pb CEMGET4: The Hydrosphere: environmental role of water, natural water sources, water treatment for industrial, domestic and laboratory uses; water pollutants; action of soaps and detergents, phosphates, industrial effluents, agricultural runoff, domestic wastes; thermal pollution, radioactive pollution and their effects on animal and plant life.
	hydrolysis of an ester. CHEMCOR13P: Insoluble Materials: PbSO ₄ , BaSO ₄ , SrSO ₄ , PbCrO ₄ , CaF ₂ , SiO ₂ and various silicates, SnO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , Cr ₂ O ₃ , AgCl, AgBr, AgI. Cation radicals, anion radicals and insoluble materials derived from the following rare Elements: V, Mo, W, U, Ti, Zr and Ce.	CHEMCOR06 (PG SEM-II): Electron density, forces and theirrole in chemical bonding. Hybridization and valences. CHEMCOR13T: Symmetry of normal modes, normal mode analysis, selection rules for IR and Raman transitions. CHEMCOR15T: Diffraction of x-ray, lattice planes, indices, Bragg's condition, reciprocal lattice, Bragg's law in reciprocal.
Week 13	CEMACOR03P: Estimation of Fe(III) and Cu(II) in a mixture using K ₂ Cr ₂ O ₇ . CEMACOR09P: Hardness of water. CEMACOR13P: Qualitative semimicro analysis of mixtures containing four radicals: NO ²⁻ , PO ₄ ³⁻ , AsO ₄ ³⁻ , BO ₃ ³⁻ , CrO ₄ ²⁻ /Cr ₂ O ₇ ²⁻ , Fe(CN) ₆ ⁴⁻ , Fe(CN) ₆ ³⁻ .	CEMACOR03T: group electronegativities. Group trends and periodic trends in these properties in respect of s-, p- and d-block elements CEMACOR09T: MO treatment for XeF2 and XeF4). Xenon-oxygen compounds. CEMACOR13T: Reactions of organometallic complexes: oxidative addition, reductive elimination. DSE T2: Separation techniques: Development of chromatograms: frontal, elution and displacement methods. CEMGET2: Comparative study of N-P-As-Sb-Bi CEMGET4: Water pollution episodes: water pollution control

CEMGEP2: Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals.

CEMGEP4: Determination of the strength of the H₂O₂ sample.

CHEMCOR13P: Analysis of Dolomite (CaCO₃, MgCO₃, Fe₂O₃,

SiO₂) and Pyrolusite (MnO₂, MnO,

measures: waste water treatment; chemical treatment and microbial treatment; water quality standards: DO, BOD, COD, TDS and hardness parameters; desalination of sea water: reverse osmosis, electrodialysis.

CHEMCOR06 (PG SEM-II): MO's of H₂O, NH₃, CH₄. Huckel – pi – electron theory.

CHEMCOR13T: Projection operator (without derivation). CHEMCOR15T: Geometric data collection (simple examples), structure factor, systematic absence, heavy atom method.

Week13 to week 14

 Fe_2O_3).

Internal Exam

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Week 15	CEMACOR03P:	CEMACOR03T: Secondary periodicity, Relativistic Effect,
to 17	Estimation of Fe(III) and Cr(III) in a	Inert pair effect.
	mixture using $K_2Cr_2O_7$.	CEMACOR09T: Molecular shapes of noble gas compounds
	CEMACOR09P: Preparation of	(VSEPR theory).
	$[Mn(acac)_3]$ and $Fe(acac)_3]$ (acac=	CEMACOR13T: Reactions of organometallic complexes:
	acetylacetonate)	insertion reactions.
	CEMACOR13P: Qualitative	DSE T2: Separation techniques: Qualitative and quantitative
	semimicro analysis of mixtures	aspects of chromatographic methods of analysis: IC, GLC,
	containing four radicals: Insoluble	GPC, TLC and HPLC
	Materials: Al ₂ O ₃ (ig), Fe ₂ O ₃ (ig),	CEMGET2: Comparative study of O-S-Se-Te and F-Cl-Br-I
	Cr ₂ O ₃ (ig), SnO ₂ , SrSO ₄ , BaSO ₄ ,	CEMGET4: The Lithosphere: water and air in soil, waste
	CaF ₂ , PbSO ₄ .	matters and pollutants in soil, waste classification, treatment
	CEMGEP2: Inorganic Chemistry-	and disposal; soil pollution and control measures.
	LAB Qualitative semimicro	CHEMCODO((DC SEM II), andications of IIMO to
	analysis of mixtures containing	CHEMCOR06 (PG SEM-II): applications of HMO to ethylene, butadiene and benzene, idea of self consistent field.
	three radicals.	Concept of resonance.
	CEMGEP4: To determine the	•
	solubility of a sparingly soluble salt,	CHEMCOR13T: use of the projection operator to form
	e.g. KHTa (one bottle).	symmetry adapted linear combination (SALC) of simple
	` /	system.
	CHEMCOR13P: Brass (Cu, Zn);	CHEMCOR15T: Fourier synthesis, Patterson function,
	Bronze (Cu, Zn, Sn), Steel (Cr, Mn,	experimental diffraction methods (Laue method, rotating
	Ni, P).	crystal method).
Week 18	Practice	Revision and Practice

Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry Session (2022-23)

Class: B.Sc and M.Sc.

Semester: 2,4,6 Name of the Teacher: Rituparna Biswas

Subject: Chemistry

Paper: CEMACOR03 (UG SEM-II), CEMACOR09 (UG SEM-IV), CEMACOR13 (UG SEM-VI), CHEMCOR06

(PG SEM-II) and CHEMCOR15 (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CEMACOR03P: Estimation of Fe(II)	CEMACOR03T: Solubility product principle,
to week 4	using standardized KMnO ₄ solution	CEMACOR09T: Werner's theory of coordination complexes,
	CEMACOR09P: Complexometric	CEMACOR13T: Biological nitrogen fixation.
	titration Zn(II)	CEMADSE-O5T: Classification of alloys, ferrous and non-
	CHEMCOR15P: Determination of	ferrous alloys
	composition of complexes formed in	CHEMCOR06T: Electronic configuration, oxidation states;
	solution by spectrophotometric	aqueous, redox and complex chemistry, spectral and magnetic
	methods:	properties of compounds in different oxidation states
	Mole-ratio method	CHEMCOR15T: Magnetic susceptibility and its determination
		by Gouy and Faraday method.
Week 5	CEMACOR03P: Estimation of Fe(II)	CEMACOR03T: common ion effect
to week 8	and Fe(III) in a given mixture using	CEMACOR09T: Classification of ligands, Ambidentate
	$K_2Cr_2O_7$ solution.	ligands, chelates,
	CEMACOR09P: Zn(II) in a Zn(II)	CEMACOR13T: Photosynthesis: Photosystem-I and
	and Cu(II) mixture.	Photosystem-II.
	CHEMCOR15P: Determination of	CEMADSE-O5T: Manufacture of Steel (removal of silicon
	composition of complexes formed in	decarbonization, demanganization, desulphurization
	solution by spectrophotometric	dephosphorisation)
	methods:	CHEMCOR06T: Ti-Zr-Hf, Cr-Mo-W, Mn-Tc-Re and Pt group
	Slope- ratio method	metals
		CHEMCOR15T: Diamagnetism in atoms and polyatomic
W. 1.0	CENTA CODATA	systems, Pascal's constants.
Week 9	CEMACOR03P:	CEMACOR03T: common ion effect and their applications
to Week	Estimation of Fe(III) and Mn(II) in a	CEMACOR09T: Coordination numbers, IUPAC nomenclature
12	mixture using standardized KMnO ₄ solution	of coordination complexes CEMACOR13T: Toxic metal ions and their effects.
	. CEMACOR09P: Ca(II) and Mg(II) in a mixture.	CEMADSE-O5T: Ar and heat treatment, nitriding, carburizing CHEMCOR06T: Mixed valence compounds of Fe, Cu, Pt; Fe-
	CHEMCOR15P: Determination of	S compounds,
	composition of complexes formed in	CHEMCOR15T: Spin and orbital moments, spin-orbit
	solution by spectrophotometric	coupling, Lande interval rule, energies of J states. Curie
	methods:	equation, Curies law and Curie-Weiss law.
	Job's method of continuous variation	equation, curies law and curie weiss law.
	of the mean of the manual through	
Week 13	CEMACOR03P:	CEMACOR03T: Redox potential diagram (Latimer and Frost
	Estimation of Fe(III) and Cu(II) in a	diagrams)
	mixture using $K_2Cr_2O_7$.	CEMACOR09T: Isomerism in coordination compounds,
	CEMACOR09P: Hardness of water.	constitutional and stereo isomerism,
	CHEMCOR15P: Determination of	CEMACOR13T: chelation therapy (examples only).
	the rates of consecutive aquation of	CEMADSE-O5TT: Composition and properties of different
	the complex,	types of steels.
	H[Co(III)(DMGH) ₂ Cl ₂], by	CHEMCOR06T: Thermochromism of Ni(II) compounds,
	conductance method	Ru(II) and Ru(III) compounds
		CHEMCOR15T: First order and second order Zeeman effects,
		temperature independent paramagnetism, simplification and

		application of Van Vleck susceptibility equation.		
Week13 to	Week13 to week 14 Internal Exam			
Week 15 to 17	CEMACOR03P: Estimation of Fe(III) and Cr(III) in a mixture using K ₂ Cr ₂ O ₇ . CEMACOR09P: Preparation of [Mn(acac) ₃] and Fe(acac) ₃] (acac=acetylacetonate)	CEMACOR03T: Disproportionation and comproportionation reactions. CEMACOR09T: Geometrical and optical isomerism in square planar and octahedral complexes. CEMACOR13T: Pt and Au complexes as drugs, metal dependent diseases CHEMCOR06T: oxo compounds of Ru and Os CHEMCOR15T: Quenching of magnetic moments, low spinhigh spin crosser. Magnetic behaviour of Lanthanides and actinides.		
Week 18	Practice	Revision and Practice		

GOVERNMENT OF WEST BENGAL

SALT LAKE, KOLKATA

Teaching Plan for Odd Semester

UG course (CBCS)

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: I, III & V.

Name of the Teacher: Dr. Ratan Kumar Biswas.

Subject: History

S. No	Practical	Syllabus
	Syllabus	
	to be	
	covered	
Week	NA	1. HISACOR01T: Reconstructing Ancient Indian History & Sources.
1 to		2. HISACOR02T: Bronze Age Civilization, Introduction.
week		3. HISHGEC01T: Ancient Indian Sources and Interpretations.
4		4.HISACOR05T: Agrarian Structure and Social Change.
		5. HISACOR06T: The African slaves and Commercial Revolution; Influx of
		American silver.
		6. HISACOR07T: Sultanate Society and Economy-2, Changes in rural society;
		revenue systems, Monetization; market regulations.
		7.HISHGEC03T: Economy under the Mughals.
		8. HISACOR11T: Age of Nationalism Unification of Italy.
		9. HISACOR12T: Government of India Act 1935.
		10. HISADSE01T: Growth of early European interests in Southeast Asia: 16th to 18th centuries.
		11. HISADSE02T: Nationalism and religion in Burma.
Week		1. HISACOR01T: Early Indian Notions of History.
5 to	NA	2. HISACOR02T: Mesopotamian Society.
week	1171	3. HISHGEC01T: Sixteen Mahajanapadas.
8		4.HISACOR05T: Agricultural expansion & crops.
		5. HISACOR06T: The Price Revolution.
		6. HISACOR07T: Growth of urban centers; trade and commerce; Indian Ocean
		trade.
		7.HISHGEC03T : Society under the Mughals.
		8. HISACOR11T:Unification of Germany.
		9. HISACOR12T: The rise of the leftist movements.
		10. HISADSE01T: Colonial penetration and indigenous response.
		11. HISADSE02T: The Pongyis and the Sayasan Rebellion.
Week	NA	1. HISACOR01T: Historical Interpretations of Gender, Environment.
9 to		2. HISACOR02T: Mesopotamian Economy.
Week		3. HISHGEC01T: Territorial States and The Rise of the Magadha.
12		4.HISACOR05T: Landlords and peasants.
		5. HISACOR06T: Emergence of European state system: Spain.
		6. HISACOR07T: Religion and Culture, Sufi silsilas: Chishtis and Suhrawardis;
		doctrines and practices; social roles.

T.HISHGEC03T : Culture under the Mughals. 8. HISACOR11T:Political and administrative re organization. 9. HISACOR12T: The Peasant and Working class movements . 10. HISADSE01T: Stamford Raffles in Java. 11. HISADSE02T: The Thakin movement.	_		,
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Week 13 to week 14Internal ExamWeek 15 to 15 to 171. HISACOR01T: Sixteen Mahajanapadas and Magadhan Imperialism.172. HISACOR02T: Mesopotamian Religion.183. HISHGEC02T: Magadhan Imperialism from Bimbisara to Mahapadmananda.4. HISACOR05T: Tribes as peasants and their place in the Varna order.5. HISACOR06T: Emergence of European state system: England and Russia.6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition.7. HISHGEC03T: Mughal Maratha Conflict and its Impact.8. HISACOR11T: The second Empire in France and Louis Napoleon .9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements.10. HISADSE01T:Foundation of Singapore.11. HISADSE02T: The struggle for independence and the transfer of power.Week Revision, Revision			10. HISADSE01T:British forward movement in Malaya.
Week NA 1. HISACOR01T: Sixteen Mahajanapadas and Magadhan Imperialism. 2. HISACOR02T: Mesopotamian Religion. 3. HISHGEC02T: Magadhan Imperialism from Bimbisara to Mahapadmananda. 4. HISACOR05T: Tribes as peasants and their place in the Varna order. 5. HISACOR06T: Emergence of European state system: England and Russia. 6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition. 7. HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			11. HISADSE02T: Second World War.
2. HISACOR02T: Mesopotamian Religion. 3. HISHGEC02T: Magadhan Imperialism from Bimbisara to Mahapadmananda. 4. HISACOR05T: Tribes as peasants and their place in the Varna order. 5. HISACOR06T: Emergence of European state system: England and Russia. 6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition. 7. HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision	Week1	3 to week 1	4 Internal Exam
2. HISACOR02T: Mesopotamian Religion. 3. HISHGEC02T: Magadhan Imperialism from Bimbisara to Mahapadmananda. 4. HISACOR05T: Tribes as peasants and their place in the Varna order. 5. HISACOR06T: Emergence of European state system: England and Russia. 6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition. 7. HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision	Week	NA	1. HISACOR01T: Sixteen Mahajanapadas and Magadhan Imperialism.
3. HISHGEC02T: Magadhan Imperialism from Bimbisara to Mahapadmananda. 4. HISACOR05T: Tribes as peasants and their place in the Varna order. 5. HISACOR06T: Emergence of European state system: England and Russia. 6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition. 7. HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision	15 to		
4. HISACOR05T: Tribes as peasants and their place in the Varna order. 5. HISACOR06T: Emergence of European state system: England and Russia. 6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition. 7. HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision	17		1
6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition. 7. HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			4. HISACOR05T: Tribes as peasants and their place in the Varna order.
tradition. 7.HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			5. HISACOR06T: Emergence of European state system: England and Russia.
7.HISHGEC03T: Mughal Maratha Conflict and its Impact. 8. HISACOR11T: The second Empire in France and Louis Napoleon. 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			6. HISACOR07T: Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant
8. HISACOR11T: The second Empire in France and Louis Napoleon . 9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			tradition.
9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			7.HISHGEC03T: Mughal Maratha Conflict and its Impact.
movements. 10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			8. HISACOR11T: The second Empire in France and Louis Napoleon.
10. HISADSE01T:Foundation of Singapore. 11. HISADSE02T: The struggle for independence and the transfer of power. Week Revision, Revision			9. HISACOR12T: Wavell Plan, Cabinet Mission; Tebhaga and Telengana
Week Revision, Revision 11. HISADSE02T: The struggle for independence and the transfer of power.			movements.
Week Revision, Revision			10. HISADSE01T:Foundation of Singapore.
			11. HISADSE02T: The struggle for independence and the transfer of power.
18 Practise	Week	Revision,	Revision

GOVERNMENT OF WEST BENGAL,
SALT LAKE, KOLKATA
Teaching Plan for Odd Semester,
UG course (CBCS & Old B.A. 1+1+1)

Department of History Session (2022-23)

Class: B.A. in History under CBCS.

Semester: I, III & V.

Name of the Teacher: Smt. Sumati Majumdar.

Subject: History

S. No Practical	Syllabus
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	Syllabus to be covered	
Week	NA	1. HISACOR01T: The Advent of Food Production.
1 to	1111	2. HISACOR02T: Polis in ancient Greece.
week		3. HISHGEC01T: The Vedic Period: Polity and Society.
4		4.HISACOR05T: Arab conquest of Sindh: nature and impact of the new
		set-up and Ismaili Dawah.
		5. HISACOR06T: Origins of the European Reformation in the 16th century.
		6. HISACOR07T: Sources for studying/Interpreting the Delhi Sultanate Survey of sources.
		7.HISHGEC03T: Miltary reforms under the Khiljis&the Tughlaqs.
		8. HISACOR11T: Industrialization.
		9. HISACOR12T: Demand for Pakistan.
		10. HISADSE01T: Nationalism in Indonesia: Sarekat Islam.
		11. HISADSE02T: Growth of nationalism in British Malaya.
Week		1. HISACOR01T: Neolithic cultures.
5 to	NA	2. HISACOR02T: Athens.
week		3. HISHGEC01T: The Vedic Period: Economy and Religion.
8		4.HISACOR05T: Causes of early Turkish invasions.
		5. HISACOR06T: Course of the European Reformation in the 16th
		century.
		6. HISACOR07T: Persian tarikh tradition.
		7.HISHGEC03T : Administrative reforms under the Khiljis & the
		Tughlaqs.
		8. HISACOR11T:Industrial Revolution; Definition and characteristics.
		9. HISACOR12T: Lahore session of the Muslim League.
		10. HISADSE01T: PKI.
XX71-	NT A	11. HISADSE02T: Growth of nationalism in British Malaya . 1. HISACOR01T: The Chalcolithic Cultures.
Week	NA	
9 to Week		2. HISACOR02T: Sparta. 3. HISHGEC01T: Iron Age and PGW.
12		4.HISACOR05T: Consequences of early Turkish invasions.
12		5. HISACOR06T: Lutheranism, Calvinism.
		6. HISACOR07T: Vernacular histories; epigraphy.
		7.HISHGEC03T: Economic reforms under the Khiljis&the Tughlaqs.
		8. HISACOR11T:Bismarck's diplomacy.
		9. HISACOR12T: Rise of Hindu Mahasabha.
		10. HISADSE01T:PNI
		11. HISADSE02T: National liberation movement.
Week	NA	1. HISACOR01T: Subsistence Economy.
13		2. HISACOR02T: Nomadic Groups in Central and West Asia.
		3. HISHGEC01T: Megaliths.
		4.HISACOR05T: Mahmud of Ghazna.
		5. HISACOR06T: Zwingli & Protestant.
		6. HISACOR07T: Sultanate Society and Economy-, Iqta.
		7.HISHGEC03T : Bhakti Movement.
		8. HISACOR11T: Kaiser WilliamII and Welt Politik.
		9. HISACOR12T: Akali Dal.

		10. HISADSE01T: Other political parties
		11. HISADSE02T: National liberation movement.
Week1	3 to week 1	4 Internal Exam
Week	NA	1. HISACOR01T: Pattern's of Exchange.
15 to		2. HISACOR02T: Debate on the Advent of Iron and Its Implications.
17		3. HISHGEC02T: Iranian and Macedonian Invasions.
		4.HISACOR05T: Shahab-ud-Din of Ghur.
		5. HISACOR06T: Results of the European Reformation in the 16th
		century.
		6. HISACOR07T: Sultanate Society and Economy- the revenue-free
		grants Agricultural production.
		7.HISHGEC03T : Sufi Movement.
		8. HISACOR11T:Balkan wars.
		9. HISACOR12T: Partition and its consequences.
		10. HISADSE01T: Impact.
		11. HISADSE02T: Malaya Union Plan.
Week	Revision,	Revision
18	Practise	

GOVERNMENT OF WEST BENGAL,

SALT LAKE, KOLKATA

Teaching Plan for Odd Semester,

UG course (CBCS & Old B.A. 1+1+1)

Department of History Session (2022-23)

Class: B.A. in History under CBCS.

Semester: I, III & V.

Name of the Teacher: Dr. Eeshita Chatterjee.

Subject: History

S. No	Practical	Syllabus
	Syllabus	
	to be	
	covered	
Week	NA	1. HISACOR01T: Harappan Civilization: Origin.
1 to		2. HISACOR02T: Food Production (Neolithic).
week		3. HISHGEC01T: Harappan Civilization: Origin and Extent.
4		4.HISACOR05T: Evolution of political structures: Rashtrakutas.
		5. HISACOR06T: Early colonial expansion: motives, voyages and explorations.
		6. HISACOR07T: Regional Political structures, Emergence of provincial
		dynasties: Bahamanis.
		7.HISHGEC03T : Foundation, Expansion & Consolidation of the Delhi Sultanate.
		8. HISACOR11T: Vienna Congress; Concert of Europe.
		9. HISACOR12T: Historiography of Indian Nationalism.
		10. HISADSE01T: Economic impact of colonialism.
		11. HISADSE02T: Decolonisation and cold war politics.

Week		1. HISACOR01T: Harappan Civilization: Settlement Patterns and Town Planning.
5 to	NA	2. HISACOR02T: Beginning of Agriculture.
week	1,11	3. HISHGEC01T: Features of Harappan Civilization.
8		4.HISACOR05T: Evolution of political structures: Palas.
		5. HISACOR06T: The conquests of the Americas: beginning of the era of
		colonization.
		6. HISACOR07T: Vijayanagar and Bengal Consolidation of regional identities.
		7.HISHGEC03T : Nobility & Iqta system.
		8. HISACOR11T: Metternich system.
		9. HISACOR12T: Birth of Indian National Congress, The Moderates and the
		Extremists.
		10. HISADSE01T: Dutch domination in Indonesia
		11. HISADSE02T: Decolonisation and cold war politics.
Week	NA	1. HISACOR01T: Harappan Agrarian Base, Craft and Trade.
9 to		2. HISACOR02T: Animal Husbandry.
Week		3. HISHGEC01T: Decline of the Harappan Civilization.
12		4.HISACOR05T: Evolution of political structures: Pratiharas.
		5. HISACOR06T: Renaissance: its social roots, city-states of Italy.
		6. HISACOR07T: Regional art.
		7.HISHGEC03T: Provincial kingdoms: Mewar, Bengal.
		8. HISACOR11T: Greek War of Independence.
		9. HISACOR12T: Partition of Bengal, the Swadeshi movement.
		10. HISADSE01T: Culture system to the Liberal system.
		11. HISADSE02T: Regional cooperation initiatives .
Week	NA	1. HISACOR01T: Social and Political Organisation of the Harappan Civilization.
13		2. HISACOR02T: Greek Culture: Philosophy and Philosophers.
		3. HISHGEC01T: Jainism: Doctrines, Decline and contribution.
		4.HISACOR05T: Evolution of political structures:, Rajputs.
		5. HISACOR06T: Mining and plantation.
		6. HISACOR07T: Architecture.
		7.HISHGEC03T : Provincial kingdoms: Vijaynagar.
		8. HISACOR11T:Revolution of 1830 &1848, & their Impact.
		9. HISACOR12T: Muslim League, Morle Minto Reforms.
		10. HISADSE01T: Colonial policy and land question in Indochina.
		11. HISADSE02T: SEATO, ASA.
	3 to week 1	
Week	NA	1. HISACOR01T: Harappan Religion, Art and Urban Decline.
15 to		2. HISACOR02T: Greek Drama and Religion.
17		3. HISHGEC02T: Buddhism: Doctrines, Decline and contribution.
		4.HISACOR05T: Evolution of political structures: Cholas.
		5. HISACOR06T: Spread of humanism in Europe; Art.
		6. HISACOR07T: Literature.
		7.HISHGEC03T : Provincial kingdoms: Bahamani.
		8. HISACOR11T:Russian revolution, the peace settlements of 1919, the League of
		nations.
		9. HISACOR12T: Revolutionaries in India and abroad, the Lucknow pact,
		10. HISADSE01T: Development of plantation economy in Malay and Singapore.
		11. HISADSE02T: ASEAN and NAM.

Week	Revision,	Revision
18	Practise	

GOVERNMENT OF WEST BENGAL,

SALT LAKE, KOLKATA

<u>Teaching Plan for Odd Semester,</u> <u>UG course (CBCS & Old B.A. 1+1+1)</u>

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: I, III & V.

Name of the Teacher: Smt. Swati Sen.

Subject: History

S. No	Practical	Syllabus
	Syllabus	
	to be	
	covered	
Week	NA	1. HISACOR01T: Palaeolithic Cultures.
1 to		2. HISACOR02T: Evolution of Human Kind of the Ancient World.
week		3. HISHGEC01T: Palaeolithic Cultures.
4		4.HISACOR05T: Legitimization of kingship; brahmanas and temples and royal
		genealogies and rituals.
		5. HISACOR06T: Transition from feudalism to capitalism: Debates.
		6. HISACOR07T: Sultanate Political Structures: Foundation, expansion.
		7.HISHGEC03T : Second Afghan State: Formation, Mughal- Afgan Conflict.
		8. HISACOR11T: The French Revolution and its European repercussions Crisis of
		Ancien regime.
		9. HISACOR12T: Gandhi's rise to power, Rowlatt Satyagraha.
		10. HISADSE01T: British annexation of Burma.
		11. HISADSE02T: Early nationalist protest movement against French rule in
		Indochina.
Week		1. HISACOR01T: Stone Industries and other Technological Developments.
5 to	NA	2. HISACOR02T: Palaeolithic Cultures, Features, Technology Rock Art.
week		3. HISHGEC01T: Mesolithic Cultures.
8		4.HISACOR05T: Trade and Commerce: (a) Inter-regional trade (b) Maritime trade.
		5. HISACOR06T: Feudal order.
		6. HISACOR07T: Consolidation of the Sultanate of Delhi.
		7.HISHGEC03T : Second Afghan State: Under Sher Shah.
		8. HISACOR11T:Political, social, economic and intellectualbackground (role of
		Philosophers) of the French Revolution The revolution in the making – the
		Aristocratic Revolt and the consolidation of the Third Estate.
		9. HISACOR12T: Montagu Chelmsford reforms; Khilafat and Non-co-operation
		movement.
		10. HISADSE01T:British movement in Borneo.
		11. HISADSE02T: Rise of Ho Chih Minh.

Week	NA	1. HISACOR01T: Mesolithic Cultures: Regional and Chronological Distributions,
9 to		New Developments in Technology, Economy.
Week		2. HISACOR02T: Neolithic Cultures.
12		3. HISHGEC01T: Decline of the Harappan Civilization.
		4.HISACOR05T: Forms of exchange.
		5. HISACOR06T: Feudalism: problems and theories.
		6. HISACOR07T: The Khaljis and the Tughluqs.
		7.HISHGEC03T : Emergence and consolidation of Mughal State-Akbar.
		8. HISACOR11T: The Constituent Assembly; Radicalization of the Revolution;
		the reign of Terror.
		9. HISACOR12T: The Swarajya party, Poona Pact.
		10. HISADSE01T:The Brookes in Sarawak.
		11. HISADSE02T: The birth of Communist party.
Week	NA	1. HISACOR01T: Rock Art.
13		2. HISACOR02T: Dating Methods.
		3. HISHGEC01T: Sangam Literatures.
		4.HISACOR05T: Process of urbanization.
		5. HISACOR06T: Economic developments of the sixteenth century.
		6. HISACOR07T: Mongol threat and Timur's invasion.
		7.HISHGEC03T : Jahangirand Shah Jahan.
		8. HISACOR11T: The Crimean War.
		9. HISACOR12T: Civil Disobedience Movement.
		10. HISADSE01T:Japanese impact during the World War II.
		11. HISADSE02T: Vietminh.
Week1	3 to week 1	4 Internal Exam
Week	NA	1. HISACOR01T: Sangam Age
15 to		2. HISACOR02T: Palaeolithic and Mesolithic Religion
17		3. HISHGEC02T: Sangam Society and the Tamil Language.
		4.HISACOR05T: Merchant guilds of South India, Islamic intellectual traditions.
		5. HISACOR06T: Shift of economic balance from the Mediterranean to the
		Atlantic.
		6. HISACOR07T: The Lodis: Conquest of Bahlul and Sikandar.
		7.HISHGEC03T: Mughal Empire under Aurangzeb.
		8. HISACOR11T: Treaty of Paris, Balkan Nationalism.
		9. HISACOR12T: Quit India Movement.
		10. HISADSE01T: Birth of Indonesian Republic and the constitution of 1945 –
		Indonesian National Revolution, 1945-50.
		11. HISADSE02T: The August Revolution (1945).
Week	Revision,	Revision
18	Practise	

GOVERNMENT OF WEST BENGAL,

SALT LAKE, KOLKATA

Teaching Plan for Odd Semester,

UG course (CBCS)

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: I, III & V.

Name of the Teacher: Dr. Bhaskar Roy.

S. No	Practic	Syllabus
	al	
	Syllabu	
	s to be	
	covered	
Week 1 to week 4	NA	 HISACOR01T: Cultures in transition Settlement patterns, technological and economic developments (From Earliest Times to c.300 BCE). HISACOR02T: Slave society in ancient Greece. HISHGEC01T: Political History of Satavahanas. HISACOR05T: Concepts Early Medieval India. HISACOR06T: Origin of the European Reformation in the 16th century. HISACOR07T: Sources for studying/Interpreting the Delhi Sultanate Survey of sources. HISHGEC03T: Akbar to Aurangzeb: administrative structure. HISACOR11T: Napoleon Bonaparte and the French Revolution Rise of Napoleon. HISACOR12T: Queen's Proclamation; The Indigo Rebellion. HISADSE01T: Historical writings on Southeast Asia in the early 20th
		century. 11. HISADSE02T: Growth of anti-Spanish sentiments in the Philippines.
Week 5 to week 8	NA	 HISACOR01T: The Aryan Problem. HISACOR02T: Agrarian economy of ancient Greece. HISHGEC01T: State formation of Satavahanas. HISACOR05T: Studying Early Medieval India: Historical geography Sources. HISACOR06T: Course of the European Reformation in the 16th century. HISACOR07T: Delhi Sultanate: Persian tarikh tradition; vernacular histories & epigraphy. HISHGEC03T: Akbar to Aurangzeb: Mansab and Jagirs. HISACOR11T: Napoleonic reforms, Napoleonic Empire and Europe Fall of Napoleon: The Continental System. HISACOR12T: The Deccan Riots, The growth of the new middle class. HISADSE01T: South-East: Debates on the question of 'Indianisation'. HISADSE02T: The First Indochina war.

Week 9 to	NA	1. HISACOR01T: North India (circa 1500 BC	E-300 BCE).
Week 12		2. HISACOR02T: Urbanization of ancient Gr	
		3. HISHGEC01T: Material Culture of Sataval	nanas.
		4. HISACOR05T: Rise of the Rajputs.	
		5. HISACOR06T: Results of the European Re	formation in the 16 th century.
		6. HISACOR07T: Foundation, expansion and	
		of Delhi.	
		7. HISHGEC03T: Akbar to Aurangzeb: State	Politics.
		8. HISACOR11T: The Spanish Ulcer; The Mo	
		of Napoleon.	
		9. HISACOR12T: The Age of the Association	S.
		10.HISADSE01T: Post-War historiography of	
		11.HISADSE02T: Geneva Agreements	
Week 13	NA	1. HISACOR01T: Central India and the Dec	can (circa1000 BCE-circa 300
W CCK 13	11/1	BCE).	can (chearood Bell-chea 300
		2. HISACOR02T: Trade of ancient Greece	
		3. HISHGEC01T: Administration of Satavaha	nnac
		4. HISACOR05T: Early Medieval India: The	
		5. HISACOR06T: Results of the European Ro	
		6. HISACOR07T: The Khaljis and the Tughl	
		7. HISHGEC03T: Akbar to Aurangzeb: Relig	=
		8. HISACOR11T: Character of the French Re	
		9. HISACOR11T: Character of the Trenen Re	volution.
		10. HISACOK121: The Angain movement.	past Asia
		11. HISADSE011: The autonomy of South	tast Asia.
	1		nternal Exam
Week 15	NA	1.HISACOR01T: Aryan Problem.	
to 17		2. HISACOR02T: Trade of ancient Greece.	
		3. HISHGEC01T: Religion of Satavahanas.	
		4. HISACOR05T: Early Medieval India: The	nature of the state.
		5. HISACOR06T: Trade of ancient Greece	
		6. HISACOR07T: Mongol threat and Timur's	s invasion & the Lodis:
		Conquest of Bahlul and Sikandar.	
		7. HISHGEC03T: Akbar to Aurangzeb: Socio	•
		8. HISACOR11T: Impact of French Revoluti	=
		9. HISACOR12T: The Arya and the Prarthan	
		10. HISADSE01T: The 'autonomy' of South	
		11. HISADSE02T: The nature of American p	articipation.
Week 18		Revision, Practise	Revision

GOVERNMENT OF WEST BENGAL SALT LAKE, KOLKATA

Teaching Plan for Even Semester

UG course (CBCS)

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: II, IV & VI.

Name of the Teacher: Dr. Ratan Kumar Biswas.

Subject: History

Paper: CC-3, CC-4, GE-2, CC-9, CC-10, GE-4, CC-13, CC-14, DSE-4, DSE-5.

S. No.	Practical	Syllabus
	Syllabus	
	to be	
	covered	
Week	NA	1. HISACOR03T: Economy and Society (circa 300 BCE to circa CE 300): (a)
1 to		Expansion of agrarian economy: production relations.
week		2. HISACOR04T: Roman Republic, Principate and Empire.
4		3. HISHGEC02T: The Rise & Growth of the Guptas.
		4. HISACOR09T: State and religion under Aurangzeb.
		5. HISACOR010T: Foundations of Company's Rule.
		6. HISHGEC04T: Interpreting the 18th Century.
		7. HISACOR013T: Indian Democracy at Work c1950- 1970s.
		8. HISACOR014T: Cold War and the emergence of bipolar politics.
		9. HISADSE04T: Pre-colonial China- Nature and structure of the traditional
		Chinese society.
		10. HISADSE05T: Nationalism in China.
Week		1. HISACOR03T: Urban growth: north India, central India and the Deccan.
5 to	NA	2. HISACOR04T: Slave society in ancient Rome.
week		3. HISHGEC02T: Gupta Administration.
8		4.HISACOR09T : Aurangzeb: Issues in the war of success ion; policies regarding
		Religious groups and Institutions.
		5. HISACOR010T: Early contestations between the Dutch, French and the British
		East India, The emergence of the English East India Company as a political power.
		6.HISHGEC04T: Interpreting the 18th Century: Debates.
		7. HISACOR013T: Language, Region, Caste and Religion.
		8. HISACOR014T: Rise of Communist China.
		9. HISADSE04T: The peasantry and gentry.
		10. HISADSE05T: Emergence of the Republic and Yuan Shih Kai.
Week	NA	1. HISACOR03T: Craft Production: trade and trade routes; coinage.
9 to		2. HISACOR04T: Agrarian economy of Rome.
Week		3. HISHGEC02T: Territorial States and The Rise of the Magadha.
12		4.HISACOR09T : Aurangzeb: Conquests and limits of expansion.
		5. HISACOR010T: Regulating Act; Pitt's India Act; Charter Acts.
		6.HISHGEC04T: Emergence of Independent States.
		7. HISACOR013T: Electoral Politics and the Changing Party System.

		8. HISACOR014T: Cold War in Asia: Korea, Cuba, Vietnam, Middle East.
		9. HISADSE04T: Government bureaucracy and central control.
		10. HISADSE05T: Warlordism.
Week	NA	1. HISACOR03T: Social stratification: class, varna, jati, untouchability.
13		2. HISACOR04T: Urbanization in Rome.
		3. HISHGEC02T: Society, Economy in the Gupta Age.
		4.HISACOR09T: Aurangzeb: Beginning of the crisis.
		5. HISACOR010T: Rural Economy and Society, Permanent settlement, Rayotwari
		and Mahalwari Commercialization of agriculture.
		6.HISHGEC04T: The Rise of the British Power in Bengal.
		7. HISACOR013T: Regional Experiences India and the World.
		8. HISACOR014T: Third World and Non Aligned Movement.
		9. HISADSE04T: The Confucian value system.
		10. HISADSE05T: May 4 th Movement: origin.
Week1	3 to week 1	4 Internal Exam
Week	NA	1. HISACOR03T: Gender; marriage and property Relations.
15 to		2. HISACOR04T: Roman Trade.
17		3. HISHGEC02T: Religion and Art, Literatures, Science & Technology in the Age of the Guptas.
		4. HISACOR09T: Aurangzeb: Contemporary perceptions; agrarian and Jagir crises, Inland and ocean trade network.
		5. HISACOR010T: Trade and Industry De industrialization, Trade and fiscal policy, Drain of Wealth, Growth of modern industry.
		6.HISHGEC04T: Establishment of Colonial power: Battle of Plassey and Buxar.
		7. HISACOR013T: Non Aligned Movement.
		8. HISACOR014T: Détente and disintegration of the Soviet Bloc.
		9. HISADSE04T: China's pre-modern economy.
		10. HISADSE05T: May 4th Movement: nature and significance.
Week	Revision,	Revision
18	Practise	

GOVERNMENT OF WEST BENGAL,

SALT LAKE, KOLKATA

Teaching Plan for Even Semester,

UG course (CBCS)

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: II, IV & VI.

Name of the Teacher: Smt. Sumati Majumdar.

Subject: History

Paper: CC-3, CC-4, GE-2, CC-9, GE-4, CC-13, CC-14, DSE-4, DSE-5.

S. No	Practical	Syllabus
	Syllabus	
	to be	
	covered	

Week	NA	1 HICA CODOZT, Towards agrly madigyal India (airea CE fourth contury)
	INA	1. HISACOR03T: Towards early medieval India (circa CE fourth century
1 to		to CE 750): Agrarian expansion.
week		2. HISACOR04T: Societies in Central Islamic Lands.
4		3. HISHGEC02T: Arabs in Sindh.
		4.HISACOR09T: Sources, establishment of Mughal Rule.
		5. HISHGECO4T: Expansion of Colonial Power up to 1857.
		6. HISACOR013T: The Nehru era: Internal policy between 1947 to 1964.
		7. HISACOR014T: Iranian Revolution.
		8. HISADSE04T: Meiji Restoration.
		9. HISADSE05T: Japan and World War II.
Week		1. HISACOR03T: Land grants, changing production relations; graded
5 to	NA	Land rights and peasantry.
week		2. HISACOR04T: The tribal background, ummah, Caliphal state.
8		3. HISHGEC02T: Polity of Arabs.
		4.HISACOR09T: Akbar.
		5. HISHGECO4T: Consolidation of Colonial Power up to 1857.
		6. HISACOR013T: Movements for social justice.
		7. HISACOR014T: Afghanistan in turmoil.
		8. HISADSE04T: Meiji Restoration (a) Causes and nature of Restoration.
		9. HISADSE05T: Japan and World War II.
Week	NA	1. HISACOR03T: The problem of urban decline.
9 to		2. HISACOR04T: Rise of Sultanates.
Week		3. HISHGEC02T: Religion and Society of Arabs.
12		4.HISACOR09T: Aurangzeb.
		5. HISHGECO4T: Communalism: Genesis, Growth.
		6. HISACOR013T: The new constitution, integration of the princely states.
		7. HISACOR014T: Globalization and its impact.
		8. HISADSE04T: Transformation of Japan.
		9. HISADSE05T: Japan's bid for supremacy and defeat.
Week	NA	1. HISACOR03T: Patterns of trade.
13	1177	2. HISACOR04T: Religious developments: the origins of shariah, Mihna,
13		Sufism.
		3. HISHGEC02T: Struggle for power in Northern India.
		4. HISACOR09T: Mughal Art, Architecture & Painting.
		5. HISHGECO4T: Partition of India.
		6. HISACOR013T: Growth of parliamentary democracy.
		7. HISACOR014T: Rise of Terrorism – 9/11.
		8. HISADSE04T: Process of modernization.
XX/1-1	2 4	9. HISADSE05T: Japan's bid for supremacy and defeat.
	3 to week	<u></u>
Week	NA	1. HISACOR03T: Currency, and urban Settlements.
15 to		2. HISACOR04T: Urbanization and trade.
17		3. HISHGEC02T: Establishment of Sultanate.
		4.HISACOR09T: Patterns of Regional Politics.
		5. HISHGECO4T: Advent of Freedom: Constituent Assembly,
		establishment of Republic.
		6. HISACOR013T: Five years' plan.
		7. HISACOR014T: Rise of Terrorism – 9/11 and Its impact.
		8. HISADSE04T: Meiji Constitution.

		9. HISADSE05T: Post war Japan under General Douglas MacArthur.
Week	Revision,	Revision
18	Practise	

GOVERNMENT OF WEST BENGAL,

SALT LAKE, KOLKATA

Teaching Plan for Even Semester,

<u>UG course (CBCS)</u>

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: II, IV & VI.

Name of the Teacher: Dr. Eeshita Chatterjee.

Subject: History

Paper: CC-3, CC-4, GE-2, CC-8, CC-10, GE-4, CC-13, CC-14, DSE-4, DSE-5.

S. No	Practical	Syllabus
	Syllabus	·
	to be	
	covered	
Week	NA	1. HISACOR03T: Changing political formations (circa 300 BCE to circa CE 300).
1 to		2. HISACOR04T: Religion medieval Europe.
week		3. HISHGEC02T: Evolution of Political structures of Rashtakutas.
4		4. HISACOR08T: Rise of modern science.
		5. HISACOR010T: Bengal Renaissance.
		6. HISHGECO4T: Uprising of 1857.
		7. HISACOR013T: Partition.
		8. HISACOR014T: The Road to 2nd World War.
		9. HISADSE04T: Anglo Chinese relations till the Opium War.
		10. HISADSE05T: The Communist Victory in China.
Week		1. HISACOR03T: The Mauryan Empire.
5 to	NA	2. HISACOR04T:Culture in medieval Europe
week		3. HISHGEC02T: Evolution of Political structures of Palas.
8		4. HISACOR08T: Mercantilism.
		5. HISACOR010T: Rammohan Roy (Brahma Samaj), Young Bengal.
		6. HISHGECO4T: Uprising of 1857: Causes.
		7. HISACOR013T: Riots and Rehabilitation.
		8. HISACOR014T: Germany's aggressive foreign policy.
		9. HISADSE04T: The Tribute system; the Canton trade and its collapse.
		10. HISADSE05T: Background of the foundation of the Communist Party.
Week	NA	1. HISACOR03T: Post-Mauryan Polities with special reference to the Kushanas.
9 to		2. HISACOR04T: Role of Byzantine Emperors in Promoting Cultures in Medieval
Week		Europe.
12		3. HISHGEC02T: Evolution of Political structures of Pratiharas.
		4. HISACOR08T: European economics; 17th and 18th centuries.
		5. HISACOR010T: Vidyasagar.
		6. HISHGECO4T: Uprising of 1857: Nature.

	7. HISACOR013T: Making of the Republic The Constituent Assembly.
	8. HISACOR014T: The role of the war economy, Spanish civil war.
	9. HISADSE04T: First & Second Opium Wars—the unequal treaties.
	10. HISADSE05T: CCP under Mao Tse-tung: the making of the Red Army; the
	Second United Front; Long March.
NA	1. HISACOR03T: Post-Mauryan Polities with special reference to the Satavahanas.
	2. HISACOR04T: Monasteries in Medieval Europe.
	3. HISHGEC02T: Administration.
	4. HISACOR08T: European politics in the 18th century.
	5. HISACOR010T: Educational Reforms initiated by the Company.
	6. HISHGECO4T: Uprising of 1857: Aftermath.
	7. HISACOR013T: Drafting of the Constitution.
	8. HISACOR014T: Mussolini's foreign policy and Abyssinian crisis.
	9. HISADSE04T: Financial Imperialism: Open Door policy.
	10. HISADSE05T: The Yenan experiment.
3 to week 1	4 Internal Exam
NA	1. HISACOR03T: Post-Mauryan Polities with special reference to Gana Sanghas.
	2. HISACOR04T: Growth of Papacy in Medieval Europe.
	3. HISHGEC02T: Decline of the Rashtakutas, Pala & Pratiharas.
	4. HISACOR08T: Absolutism in Europe.
	5. HISACOR010T: Popular Resistance.
	6. HISHGECO4T: Socio-Religious Movements in the 19th century.
	7. HISACOR013T: Integration of Princely States.
	8. HISACOR014T: Formation of the Rome Berlin Tokyo Axis – Grand Alliance
	and the Second World War - Impact of the War.
	9. HISADSE04T: The Taiping Rebellion: causes, nature and failure.
	10. HISADSE05T: The Chinese Revolution (1949): Ideology, causes and
	significance; the establishment of the Peoples'Republic of China.
Revision,	significance; the establishment of the Peoples Republic of China. Revision
	3 to week 1

GOVERNMENT OF WEST BENGAL,

SALT LAKE, KOLKATA

Teaching Plan for Even Semester,

<u>UG course (CBCS)</u> <u>Department of History</u>

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: II, IV & VI.

Name of the Teacher: Smt. Swati Sen.

Subject: History

Paper: CC-3, CC-4, GE-2, CC-8, CC-9, GE-4, CC-13, CC-14, DSE-4, DSE-5.

S. No	Practical	Syllabus
	Syllabus	
	to be	
	covered	

XX7 1	3.7.4	1 HIGA CODOTT FILL A COLUMN AS
Week	NA	1. HISACOR03T: The nature of polities: the Gupta empire-Chandra Gupta I to
1 to		Chandra Gupta II.
week		2. HISACOR04T: Economic developments in Europe from the 7th to the 14th
4		centuries: Organization of production.
		3. HISHGEC02T: Harsha & His Times: Harsha's Kingdom.
		4. HISACOR08T: 17th century European crisis.
		5. HISHGECO4T: Emergence of Nationalism.
		6. HISACOR013T: Towards Independence.
		7. HISACOR014T: Challenges to the new European order.
		8. HISADSE04T: Boxer Uprising: causes, nature and failure.
4		9. HISADSE05T: The Kuomintang and the Nationalist government.
Week		1. HISACOR03T: Kumara Gupta, Skanda Gupta and latter rulers.
5 to	NA	2. HISACOR04T: Economic developments in Europe from the 7th to the 14th
week		centuries: towns and trade.
8		3. HISHGEC02T: Harsha's Administration
		4. HISACOR08T: The English Revolution.
		5. HISHGECO4T: Growth of Nationalism.
		6. HISACOR013T: Emergence of the New State.
		7. HISACOR014T: Consolidation and Development of power of the Soviet State.
		8. HISADSE04T: The Revolution of 1911: background and causes, nature and
		significance.
		9. HISADSE05T: The rise of the Kuomintang Party.
Week	NA	1. HISACOR03T: Gupta Administration, Society, Culture and Religion.
9 to		2. HISACOR04T: Economic developments in Europe from the 7th to the 14th
Week		centuries: technological developments.
12		3. HISHGEC02T: Buddhism & Nalanda.
		4. HISACOR08T: Political issues in the American Revolution.
		5. HISHGECO4T: Gandhian nationalism.
		6. HISACOR013T: Government of India Act 1935Working of the GOI Act.
		7. HISACOR014T: French search for security, Rise of Fascism in Italy.
		8. HISADSE04T: Role of Dr Sun Yat- Sen.
		9. HISADSE05T: Political crisis in the 1920s.
Week	NA	1. HISACOR03T: Decline of the Gupta Empire and Pallavas, Chalukyas, and
13		Vardhanas.
		2. HISACOR04T: Fall of feudalism.
		3. HISHGEC02T: South India: Polity.
		4. HISACOR08T: Economic issues in the American Revolution.
		5. HISHGECO4T: Civil Disobedience Movement.
		6. HISACOR013T: Negotiations for Independence.
		7. HISACOR014T: Nazism in Germany.
		8. HISADSE04T: Principles and polities, formation of the Republic.
		9. HISADSE05T: The First United Front [b] Chiang Kai-shek.
Week1	3 to week 1	4 Internal Exam
Week	NA	1. HISACOR03T: A brief survey of Sanskrit, Pali, Prakrit and Tamil literature.
15 to	1471	Scientific and technical treatises. Art and architecture & forms and patronage;
17		Mauryan, post-Mauryan, Gupta, post-Gupta.
1 /		2. HISACOR04T: Crisis of Feudalism.
		3. HISHGEC02T: South India: Society, and Economy and Culture.
		4. HISACOR08T: Prelude to the Industrial Revolution.
		T. THEACORVOT. I ICHAC TO THE HIGHENIAI REVOLUTION.

		5. HISHGECO4T: Quit India Movement.	
		6. HISACOR013T: Popular Movements.	
		7. HISACOR014T: World Economic depression of 1929, the Crisis of the Inter	
		War European Order.	
		8. HISADSE04T: Yuan Shih-kai and warlordism; the rise of the Kuomintang.	
		9. HISADSE05T: The KMT-CCP conflict- Ten Years of Nanking Government.	
Week	Revision,	Revision	
18	Practise		

GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for Even Semester,

UG course (CBCS)

Department of History

Session (2022-23)

Class: B.A. in History under CBCS.

Semester: II, IV & VI.

Name of the Teacher: Dr. Bhaskar Roy

Subject: History

Paper: CC-03, CC-4, GE-2, CC-9, GE-4, SEC, CC-13, CC-14, DSE-4, DSE-5.

S. No	Practical	Syllabus	
	Syllabus		
	to be		
	covered		
	NA	1. HISACOR03T: Religion, philosophy and society (circa 300 BCE-CE 750).	
		2. HISACOR04T: Crises of the Roman Empire.	
		3. HISHGEC02T: Emergence of Rajput States in Northern India.	
		4. HISACOR09T: Akbar and Consolidation of Mughal Empire.	
Week		5. HISGCORO4T: Communalism:Genisis and Growth.	
1 to		6. HISACOR13T: The Land Question Planned Economy (1950-1970s).	
week		7. HISACOR14T: United Nations Organization: its origin.	
4		8. HISADSE04T: Pre-Meji Japan (a) Tokugawa Shogunate.	
		9. HISADSE05T: Rise of modern Japan: Process of modernization.	
		10. HISSSEC02M: Indian art and architecture (c. 1200 CE –1800 CE):	
		Sultanate architecture.	
	NA	1. HISACOR03T: Consolidation of the Brahmanical tradition: Dharma,	
		Varnashram, Purusharthas, Samskaras.	
		2. HISACOR04T: Economic developments in Europe from the 7 th to the 14 th	
		centuries: Organization of production.	
Week		3. HISHGEC02T: Rajput Polity.	
5 to		4. HISACOR09T: Mughal Empire Under Aurangazeb.	
week		5. HISGCORO4T: Communalism and Partition of India.	
8		6. HISACOR13T: Industry and Labour Science and Education (1950-1970s).	
		7. HISACOR14T: United Nations Organization: its functions.	
		8. HISADSE04T: The feudal society and the government; Shintoism.	
		9. HISADSE05T: Rise of modern Japan [a] Process of modernization.	
		10. HISSSEC02M: Indian art and architecture (c. 1200 CE–1800 CE): Mughal	

		architecture.		
Week 9 to Week 12	NA	 HISACOR03T: Theistic cults (from circa second century BC): Mahayana. HISACOR04T: Economic developments in Europe from the 7th to the 14th centuries: towns and trade. HISHGEC02T: Rajput Economy. HISACOR09T: Rise of the Marathas. HISGCORO4T: Advent of Freedom. HISACOR13T: The Women's Question: Movements and Legislation. (1950-1970s). HISADSE04T: Economic condition. HISADSE05T: Modern Japan: Rise of Political Parties. 		
Week 13	NA	 HISACOR03T: The Puranic tradition. HISACOR04T: Economic developments in Europe from the 7th to the 14th centuries: towns and trade. HISHGEC02T: Rajput Society. HISACOR09T: Rise of the Marathas. HISGCOR04T: Constituent Assembly. HISACOR13T: The Women's Question: Movements and Legislation. (1950-1970s). HISACOR14T: United Nations Organization. HISADSE04T: Encounter with the West: the Perry Mission. HISADSE05T: Abolition of feudalism and economic growth. 		
XX7 1	NT A		al Exam	
Week 15 to 17	NA	 HISACOR03T: Art and architecture & forms and patronage; post-Mauryan, Gupta, post-Gupta. HISACOR04T: Europe from the 7th to the 14th centuries: Crisis of feudalism. HISHGEC02T: Rajput Society. HISACOR09T: Bengal Nawabs and the rise of the English East India Company in Bengal. Debate of the 18th Century on the decline of the Mughal Empire. HISGCOR04T: Establishment of Republic. HISACOR13T: Cultural Trends: Institutions and Ideas, Literature, Media, Arts (1950-1970s). HISADSE01T: Pre-Meji Japan: Encounter with the West: the Perry Mission. The crisis and fall of the Shogunate. HISADSE04T: The opening of the Japan to the west, The crisis and fall of the Shogunate. 		
Week 18		9. HISADSE05T: The Zaibatsu of Japan. Revision, Practise Revision		

Teaching Plan for Odd Semester, UGcourse

Department of Political Science

Session (2022-23)

Class:B.A

Semester 1, 3 & 5 Name of the Teacher: Dr.Shahid Jamal Siddiqi (SJS)

Subject: Political Science

Paper:CC1, CC 2, CC6, CC12, DSE1(CBCS) (Theory)

S. No	Theory syllabus to be covered (Paper code to be mentioned)	
Week 1 to week 4	Paper-CC1(PLSACOR01T): Understanding Political Theory	
	Module 2. Approaches to the study	
	Paper-CC6(PLSACOR06T): Perspectives on Public Administration	
	Module-1. Public Administration as a Discipline	
	Paper-CC12(PLSACOR12T): Indian Political Thought - I	
	Module 1. Traditions of Pre-colonial Indian Political Thought	
	Paper-DSE1(PLSADSE01T): Reading Gandhi (Module 1)	
Week 5 to week 8	Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India	
	Module 3. Constitution of India: Structure, Process, Behaviour	
	Paper-CC6(PLSACOR06T): Perspectives on Public Administration	
	Module-2. Theoretical Perspectives	
	Paper-CC12(PLSACOR12T): Indian Political Thought - I	
	Module 2 Outline of ancient Indian Political Thought	
Week 9 to Week12	Paper-CC6(PLSACOR06T): Perspectives on Public Administration	
	Module-3. Major Approaches In Public Administration	
	Paper-DSE1(PLSADSE01T): Reading Gandhi	
	Module 2. Gandhian Thought: Theory and Action	
	Paper-CC12(PLSACOR12T): Indian Political Thought - I	
	Module 3. Outline of Islamic and Syncretic Thought	
Week 13 to Week	Internal Examination	
14		
Week 15 to Week	Paper-DSE1(PLSADSE01T): Reading Gandhi (Module 3)	
17		
Week 18	Revision	

Teaching Plan for Odd Semester, UGcourse

Department of Political Science

Session (2022-23)

Class:B.A

Semester 1, 3 & 5 Name of the Teacher: Saibal Gupta (SG)

Subject: Political Science

Paper:CC1, CC 2, CC5,CC11,GE3 (CBCS) (Theory)

S. No	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India Module 1. Constitution of India(Article-wise)
	Paper-CC5(PLSACOR05T): Introduction to Comparative Government and Politics
	Module – 1. Understanding Comparative Politics
	Paper-CC11(PLSACOR11T): Classical Political Philosophy
	Module 1. Antiquity
Week 5 to week 8	Paper-CC5(PLSACOR05T): Introduction to Comparative Government and
	Politics
	Module – 2. Historical context of modern government
	Paper-CC11(PLSACOR11T): Classical Political Philosophy
	Module 2. Interlude
Week 9 to Week 12	Paper-CC1(PLSACOR01T): Understanding Political Theory
	Module 3. Models of Studying Political Theory
	Paper-GE3 (PLSHGEC03T): Comparative Government and Politics
	Module 2. Historical Context of Modern Government
	Paper-CC11(PLSACOR11T): Classical Political Philosophy
	Module 3. Hobbes , Locke and Rousseau
Week 13 to Week 14	Internal Examination
Week 15 to 17	Paper-CC5(PLSACOR05T): Introduction to Comparative Government and
	Politics
	Module – 3. Themes for comparative analysis
Week 18	Revision

Teaching Plan for Odd Semester, UGcourse

Department of Political Science

Session (2022-23)

Class:B.A

Semester 1, 3&5 Name of the Teacher: Deeplekha Sengupta Dasgupta

Subject: Political Science

Paper: CC1, CC2, CC7, SEC1, DSE3, GE 1, GE3(CBCS) (Theory)

S. No	Theory syllabus to be covered (Paper code to be mentioned)	
Week 1 to week 4	Paper-CC1(PLSACOR01T): Understanding Political Theory	
	Module - 1	
	Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in	
	India	
	Module 2. Federalism	
	Paper-GE1(PLSHGEC01T)Introduction to Political Theory	
	Module I. Introducing the subject	
	Paper-CC7 (PLSACOR07T): Perspectives on International Relations and World	
	History	
	Module-1. Studying International Relations	
	Paper-DSE3(PLSADSE03T): Understanding Global Politics	
	Module I. Globalization: Conceptions and Perspectives	
Week 5 to week 8	Paper-GE1(PLSHGEC01T) Introduction to Political Theory	
	Module 2. Concepts	
	Paper-CC7 (PLSACOR07T): Perspectives on International Relations and World	
	History	
	Module 2. Theoretical Perspectives	
	Paper-SEC1(PLSSSEC01M): Democratic Awareness with Legal Literacy(Unit -1)	
	Paper-GE3 (PLSHGEC03T): Comparative Government and Politics	
	Module I. Understanding Comparative Politics	
	Paper-DSE3(PLSADSE03T): Understanding Global Politics	
	Module 2. Identity and Culture: Crisis of Coexistance	
Week 9 to Week 12	Paper-SEC1(PLSSSEC01M): Democratic Awareness with Legal Literacy(Unit -2)	
,, com > 00 ,, com 12	Paper-CC7 (PLSACOR07T): Perspectives on International Relations and World	
	History	
	Module 3. An Overview of Twentieth Century IR History	
	Paper-GE1(PLSHGEC01T) Introduction to Political Theory	
	Module 3. Debates in Political Theory	
	Paper-DSE3(PLSADSE03T): Understanding Global Politics	
	Module 3. Global Environment	
Week 13 to Week 14	Internal Examination	
Week 15 to 17	Paper-SEC1(PLSSSEC01M): Democratic Awareness with Legal Literacy(Unit -3)	
	Paper-GE3 (PLSHGEC03T): Comparative Government and Politics	
	Module 3. Themes for comparative analysis	
Week 18	Revision	
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Teaching Plan for Even Semester, UG course

Department of Political Science

Session (2022-23)

Class:B.A

Semester 2,4 &6 Name of the Teacher: Dr.Shahid Jamal Siddiqi (SJS)

Subject: Political Science

Paper: CC3, CC4,CC9,CC14, DSE6(CBCS) (Theory)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates
	Module – 3. Theories of State
	Paper- CC9(PLSACOR09T): Public Policy and Administration in India
	Module I. Public Policy
	Paper-CC14(PLSACORT4T): Indian Political Thought - II
	Module 1. Introduction to Modern Indian Political Thought
	Paper -DSE6(PLSADSE06T): Governance: Issues and Challenges
	Module 1. Government And Governance: Concepts
Week 5 to week 8	Paper-CC4 (PLSACOR04T): Political Process in India
	Module-3 The Concerns
	Paper-GE2-(PLSHGEC02T): Indian Government and Politics
	Module-2. Constitution of India (Article Wise)
	Paper- CC9(PLSACOR09T): Public Policy and Administration in India
	Module-2.
	Paper-CC14(PLSACORT4T): Indian Political Thought - II (Module – 2)
Week 9 to Week 12	Paper-GE4(PLSHGEC04T): Introduction to International Relations
	Module-1. Studying International Relations
	Paper- CC9(PLSACOR09T): Public Policy and Administration in India
	Module -3. Budget
	Paper-CC14(PLSACORT4T): Indian Political Thought – II (Module – 3)
	Paper -DSE6(PLSADSE06T): Governance: Issues and Challenges
	Module 2. Environmental Governance
Week 13 to Week 14	Internal Examination
Week 15 to Week 17	Paper -DSE6(PLSADSE06T): Governance: Issues and Challenges
	Module -3. Good Governance Initiatives in India: Best Practices
Week 18	Revision

$\label{thm:course} \textbf{Teaching Plan for Even Semester, UG course}$

Department of Political Science

Session (2022-23)

Class:B.A

Semester 2,4 &6 Name of the Teacher: Ranjan Kumar Ray (RKR)

Subject: Political Science

Paper: CC 4, CC8, CC13, DSE1, GE 2, GE 4(CBCS) (Theory)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper-CC4 (PLSACOR04T): Political Process in India
	Module – 1. Structure and process of election system
	Paper -CC8(PLSACOR08T): Political Processes and Institutions in
	Comparative Perspective
	Module 1. Approaches to Studying Comparative Politics
	Paper –CC13(PLSACOR13T): Modern Political Philosophy
	Module 1. Modernity and its discourse(Two essential readings)
Week 5 to week 8	Paper-CC4 (PLSACOR04T): Political Process in India
	Module 2. Issues in contemporary politics
	Paper -CC8(PLSACOR08T): Political Processes and Institutions in
	Comparative Perspective (Module 2)
	Paper – DSE5(PLSADSE05T): Human Rights in a Comparative Perspective
	Module 1. Human Rights: Theory and Institutionalization
Week 9 to Week 12	Paper-GE2-(PLSHGEC02T): Indian Government and Politics
	Module-3 Constitution of India
	Paper-GE4(PLSHGEC04T): Introduction to International Relations
	Module-3. An Overview of Twentieth Century IR History
	Paper – CC13(PLSACOR13T): Modern Political Philosophy
	Module 3. Liberal socialist and Radicals (Karl Marx)
Week 13 to Week 14	Internal Examination
Week 15 to 17	Paper -CC8(PLSACOR08T): Political Processes and Institutions in
	Comparative Perspective (Module -3)
Week 18	Revision

Teaching Plan for Even Semester, UG course

Department of Political Science

Session (2022-23)

Class:B.A

Semester 2,4 &6 Name of the Teacher: Biplab Barman (BB)

Subject: Political Science

Paper: CC3, CC10, CC13, SEC2, GE4, DSE5 (CBCS) (Theory)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper-GE4(PLSHGEC04T): Introduction to International Relations
	Module 1. Studying International Relations
	Paper-CC10(PLSACOR10T): Global Politics
	Module-1. Globalization: Conceptions and Perspectives
	Paper – CC13(PLSACOR13T): Modern Political Philosophy
	Module 2. Faminist Discourse
	Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates
	Module –1. Core political concepts
Week 5 to week 8	Paper-CC10(PLSACOR10T): Global Politics
	Module-2. Contemporary Global Issues
	Paper-GE4(PLSHGEC04T): Introduction to International Relations
	Module-2. Theoretical Perspectives
	Paper-SEC2(PLSSSEC02M): Public Opinion and Survey Research
	Module-1. Introduction to the course
	Paper – DSE5(PLSADSE05T): Human Rights in a Comparative Perspective
	Module 2. Issues
Week 9 to Week 12	Paper-CC10(PLSACOR10T): Global Politics
	Module-3. Global Shifts: Power and Governance
	Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates
	Module – 2. Core Concepts and Debates
	Paper-SEC2(PLSSSEC02M): Public Opinion and Survey Research
	Module-2. Measuring Public Opinion with Surveys: Representation and
	Sampling
	Paper – DSE5(PLSADSE05T): Human Rights in a Comparative Perspective
	Module 3. Structural Violence
Week 13 to Week 14	Internal Examination
Week 15 to Week 17	Paper-SEC2(PLSSSEC02M): Public Opinion and Survey Research
	Module-3. Quantitative Data Analysis
	Paper – CC13(PLSACOR13T): Modern Political Philosophy
	Module 3. Liberal socialist and Radicals (John Stuart Mill & Antonio Gramsci)
Week 18	Revision

Teaching Plan for Odd Semester, UG course

Department of Education

Session (2022-2023)

Class: B.A.

Semester I, III & V (Under CBCS)

Name of the Teacher: Shoumyasree Sen

Subject: Education

Paper: CC-1, CC-2, GE-1, CC-5, DSE-1 (Theory and Practical)

SL. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
week 4	Paper B: NONE	Unit 2: Indian philosophical thoughts and their influence on
	Paper C:	education – Sankhya, Yoga
		SEM I: Educational Psychology/ EDCACOR02T
		Unit 4: Learning – concept and scope, Factors influencing learning – attention, maturation
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 1: Concept nature and scope of Education
		SEM III: Education in pre independence India / EDCACOR05T
		Unit 2: Charter Act of 1813, Macaulay Minute
		SEM V: Women Education/ EDCADSE01T
		Unit 2: Development of Women Education in ancient, mediaeval
		and British period (from 1600 to 1947)
Week 4	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
to	Paper B: NONE	Unit 2: Jainism, Buddhism
week 8	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
	'	Unit 4: Factors influencing learning –motivation and emotion,
		Theories of learning: Pavlov, Skinner
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 1: Concept nature and scope of Education
		SEM III: Education in pre independence India / EDCACOR05T
		Unit 2: Macaulay Minute
		Unit 3: Wood's Despatch (1854)
		SEM V: Women Education/ EDCADSE01T
		Unit 2: Development of Women Education in post –independence
		period: Recommendations of various Commission and Committee
		for the development of Women Education.
Week 8	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
to	Paper B: NONE	Unit 2: Buddhism, Islamic.
Week 12	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 4: Theories of learning: Bandura and Vygotsky
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 1: Concept nature and scope of Education
		SEM III: Education in pre independence India / EDCACOR05T
		Unit 3: Hunter Commission (1882-83)
		SEM V: Women Education/ EDCADSE01T
		Unit 3: Probable Remedial measures to solve the problems of
		Women Education with reference to NPE 1986, 1992 and 2019,
		Role of Teacher in popularizing Women Education
Week 13	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
	Paper B: NONE	Unit 4: Swami Vivekananda
	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 4: Theories of learning: Vygotsky

		SEM I: Philosophical Foundation of Education/GE-1 Unit 1: Concept nature and scope of Education SEM III: Education in pre independence India / EDCACOR05T Unit 2: Charter Act of 1813 b. Macaulay Minute Unit 3: Curzon's Policy (1902) SEM V: Women Education/ EDCADSE01T
		Unit 4: Constitutional Rights – Article 15, 16, 23, 39, 42, 51, 243.
Week	13 to week 14	Internal Exam
Week 15	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
to	Paper B: NONE	Unit 4: Swami Vivekananda
Week 17	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 4: Theories of learning: Vygotsky
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 1: Concept nature and scope of Education
		SEM III: Education in pre independence India / EDCACOR05T
		Unit 2: Curzon's Policy (1902)
		SEM V: Women Education/ EDCADSE01T
		Unit 4: Legal Rights – Domestic Violence Act (2005), National
		Commission for Women Act (1990), Sexual Harassment of Women
		at Workplace Act (2013)
Week 18	Revision, Practise	Revision

Teaching Plan for Even Semester, UG course

Department of Education

Session (2022-2023)

Class: B.A.

Semester II, IV, & VI (Under CBCS)

Name of the Teacher: Shoumyasree Sen

Subject: Education

Paper: CC-4, GE-2, CC- 8, CC-13 (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered
	(Paper code to be mentioned)	(Paper code to be mentioned)
Week 1 to	Paper A:	SEM II: Pedagogy/ EDCACOR04T
week 4	Paper B: NONE	Unit 1: Pedagogy – concept, scope; relationship between
	Paper C:	learning and teaching b. Bases of pedagogy – philosophical
		SEM II: Psychological Foundation of Education/GE-2
		Unit 3: Concept of attention
		SEM IV: Educational Management/ EDCACOR08T
		Unit 1: Educational management – concept, nature, need
		and scope
		SEM VI: Curriculum Studies/ EDCACOR13T
		Unit 2: Need to form aims and objectives of curriculum,
		Areas of educational objectives: Bloom's taxonomy
Week 4	Paper A:	SEM II: Pedagogy/ EDCACOR04T
to	Paper B: NONE	Unit 1: Bases of pedagogy – sociological and psychological,
week 8	Paper C:	Pedagogy vs Andragogy
		SEM II: Psychological Foundation of Education/GE-2
		Unit 3: Concept & Nature of attention
		SEM IV: Educational Management/ EDCACOR08T
		Unit 1: Types of educational management –centralized,
		decentralized authoritarian, democratic, dynamic and
		laissez faire

		SEM VI: Curriculum Studies/ EDCACOR13T
		Unit 3: UGC model of curriculum development: CBCS,
		Factors of curriculum development
Week 8	Paper A:	SEM II: Pedagogy/ EDCACOR04T
to	Paper B: NONE	Unit 3: Teaching – learning of 3 R's, Teaching – learning of
Week 12	Paper C:	verbal conditioning
		SEM II: Psychological Foundation of Education/GE-2
		Unit 3: Nature and determinants of attention
		SEM IV: Educational Management/ EDCACOR08T
		Unit 1: Supervision and inspection – concept, scope
		difference between supervision and inspection
		Unit 2: Leadership in management – concept, scope,
		significance, Characteristics of an effective leader in
		education
		SEM VI: Curriculum Studies/ EDCACOR13T
		Unit 4: Meaning and purpose of curriculum evaluation b.
		Approaches of curriculum evaluation: formative and
		summative
Week 13	Paper A:	SEM II: Pedagogy/ EDCACOR04T
	Paper B: NONE	Unit 3: Teaching – learning of psychomotor skill
	Paper C:	SEM II: Psychological Foundation of Education/GE-2
		Unit 3: Determinants of attention
		SEM IV: Educational Management/ EDCACOR08T
		Unit 2: Total Quality in educational management
		SEM VI: Curriculum Studies/ EDCACOR13T
		Unit 4: Scientific model of curriculum evaluation –
		Stenhouse's model
Week	13 to week 14	Internal Exam
Week 15	Paper A:	SEM II: Pedagogy/ EDCACOR04T
to	Paper B: NONE	Unit 3: Teaching —Teaching — learning of psychomotor skill
Week 17	Paper C:	SEM II: Psychological Foundation of Education/GE-2
		Unit 3: Determinants of attention
		SEM IV: Educational Management/ EDCACOR08T
		Unit 2: Total Quality in educational management
		SEM VI: Curriculum Studies/ EDCACOR13T
		Unit 4: Scientific model of curriculum evaluation –
		Stenhouse's model
Week 18	Revision, Practise	Revision

Teaching Plan for Odd Semester, PG course

Department of Education

Session (2022-2023)

Class: M.A.

Semester I & III (Under CBCS)

Name of the Teacher: Shoumyasree Sen

Subject: Education

Paper: Departmental: 1, AECC & 12 (Theory and Practical)

SL. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: NONE	Unit- 2: Indian Philosophy – Concept, nature and types,
week 4	Paper C:	Sankhya, Yoga, Vedanta Philosophy – with special reference to

T		
		Aims of Education, Methods of Teaching and acquiring valid
		knowledge
		SEM-I: Communication Skill/ EDCPAEC01M
		Unit-1: Importance and purpose of communication, process of
		Communication, types & technique of communication, barriers
		of communication, Non-verbal communication, Body language,
		tips for improving non-verbal communication
		SEM-III: Educational Management/ EDCPCOR12T
		Unit-1: POSDCORB, PERT, SWOT analysis, Administration as a
		Bureaucracy, Human relations Approach to Administration
Week 4	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: NONE	Unit-2: Jainism, Buddhism & Islamic traditions – with special
week 8	Paper C:	reference to Aims of Education, Methods of teaching and
		acquiring knowledge, Comparison between Indian & Western
		Philosophy
		SEM-I: Communication Skill/ EDCPAEC01M
		Unit-1: Academic listening: listening to lecturer and
		presentation, tips for taking down points, Reading Skills:
		purpose, process, methodologies, academic reading tips,
		Speaking Skills: pronunciation, communication provokes,
		expressing opinions and command over language, self
		confidence
		SEM-III: Educational Management/ EDCPCOR12T
		Unit-2: Approaches to Leadership - Traits, Transformational,
		Transactional, value based, Cultural, Psychodynamic - Concept
		and their Characteristics, Models of Leadership - Blake &
		Mouton's Managerial grid, Fiedler's Contingency Model, Ideal
		Leadership in Educational Institution, development of Leadership in Education
		Unit-3: Concept of quality and Quality in Education - Indian and
		International Perspectives
Week 8	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: NONE	Unit- 3: Meaning, Importance of Metaphysics, Epistemology &
Week 12	Paper C:	Axiology, Idealism, Naturalism & Realism – Introduction,
VVEEK 12	rapei C.	Knowledge & Wisdom
		SEM-I: Communication Skill/ EDCPAEC01M
		Unit-2: Element of effective writing: The sentence phrases and
		clauses, types of sentences, Main forms of written
		communication: summarising and elaboration as per
		requirement, Remedial English grammar and usage: Articles
		tenses, preposition, correction of errors in given sentences, error
		in the use of words, errors in punctuation
		SEM-III: Educational Management/ EDCPCOR12T
		Unit-3: Evolution of Quality - Inspection, Quality Control, Quality
		Assurance Quality Gurus- Walter Shewhart, Edward Deming, C.K
		Prahlad, Peter Drucker
Week 13	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
	Paper B: NONE	Unit- 3: Pragmatism - Introduction, Knowledge & wisdom
	Paper C:	SEM-I: Communication Skill/ EDCPAEC01M
	: F =	Unit-2: Preparing a CV
		SEM-III: Educational Management/ EDCPCOR12T
		Unit-4: Unit-4: Concept, Needs for planned change. (ii) Three
		steps Model of Changes – Unfreezing, Moving & Refreezing

Week 15	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: NONE	Unit- 3: Marxism & Existentialism - Introduction, Knowledge &
Week 17	Paper C:	wisdom, Modern Concept of Philosophy – Logical Analysis,
		Positivism and Positive Relativism
		SEM-I: Communication Skill/ EDCPAEC01M
		Unit-2: Presentation Skill: Preparing a power point presentation,
		presenting a paper, group discussion, preparing for facing a job
		interview
		SEM-III: Educational Management/ EDCPCOR12T
		Unit-4: Cost of Quality- Appraisal costs, Failure Costs,
		Preventable Costs, Cost benefit & Cost-Effective Analysis
		(Concept only), Indian & International Quality Assurance
		Agencies - NAAC, Quality Council of India (QCI), International
		Network for quality Assurance Agency in Higher Education
		(INQAAHE)
Week 18	Revision, Practise	Revision

Teaching Plan for Even Semester, PG course

Department of Education

Session (2022-2023)

Class: M.A.

Semester II & IV (Under CBCS)

Name of the Teacher: Shoumyasree Sen

Subject: Education

Paper: Departmental: 7, 17, 19, 20 (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1	Paper: Review of Related Literature	Paper: Pedagogical Studies / EDCPCOR07T
to	/EDCPCOR17P	Unit-1: Pedagogy – Meaning, Nature, & Importance, Pedagogical
week 4	Paper: Dissertation / Project/EDCPCOR18P	Analysis - Concept & Stages, Critical Pedagogy – Meaning, Needs
		and its Implication in Teacher Education, Organising Teaching –
		Memory, Understanding, and Reflective Level
		Paper: Education of Children with Diverse Needs/ EDCPCOR16T
		Unit 4: UDL/Universal Design of Learning
Week 4	Paper: Review of Related Literature	Paper: Pedagogical Studies / EDCPCOR07T
to	/EDCPCOR17P	Unit-2: Meaning & Nature of Andragogy and Importance of
week 8	Paper: Dissertation / Project/EDCPCOR18P	Andragogy in Education, Meaning, Principles, Competencies of
		Self- directed learning, Theory of Andragogy (Malcom Knowles),
		The Dynamic Model of Learner Autonomy
		Paper: Education of Children with Diverse Needs/ EDCPCOR16T
		Unit 4: UDL/Universal Design of Learning
Week 8	Paper: Review of Related Literature	Paper: Pedagogical Studies / EDCPCOR07T
to	/EDCPCOR17P	Unit-3: Feedback Devices – Meaning, types, criteria, Meaning,
Week 12	Paper: Dissertation / Project/EDCPCOR18P	nature & perspectives of assessment (Assessment for Learning
		and assessment of Learning), Guidance as a Feedback Devices –
		Assessment of Portfolios
		Paper: Education of Children with Diverse Needs/ EDCPCOR16T
		Unit 4: Research Trends of Inclusive Education in India
Week 13	Paper: Review of Related Literature	Paper: Pedagogical Studies / EDCPCOR07T
	/EDCPCOR17P	Unit-3: Guidance as a Feedback Devices – Reflective Journal
	Paper: Dissertation / Project/EDCPCOR18P	Paper: Education of Children with Diverse Needs/ EDCPCOR16T
		Unit 4: Research Trends of Inclusive Education in India

Weel	k 13 to week 14	nternal Exam
Week 15	Paper: Review of Related Literature	Paper: Pedagogical Studies / EDCPCOR07T
to	/EDCPCOR17P	Unit-3: Guidance as a Feedback Devices – Field engagement
Week 17	Paper: Dissertation / Project/EDCPCOR18P	using Rubrics, Assessment of teacher prepared ICT Resources
		Paper: Education of Children with Diverse Needs/ EDCPCOR16T
		Unit 4: Research Trends of Inclusive Education in India
Week 18	Revision, Practise	Revision

Teaching Plan for Odd Semester, UG course

Department of Education

Session (2022-2023)

Class: B.A.

Semester I, III & V (Under CBCS)

Name of the Teacher: Purnendu Acharya

Subject: Education

Paper: CC-1, CC-2, GE-1, CC-5, DSE-1, DSE-2 (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1 to	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
week 4	Paper B: NIL	Unit 1: Concept of different forms of education – informal
	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 1: Introduction to educational psychology
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 2: Forms of Education – Informal and Formal
		SEM III: Education in Pre-independence India/ EDCACOR05T
		Unit 1: Salient features of Brahmanic, education w.r.t: aims of
		education & Curriculum and method of teaching
		SEM V: Women Education/ EDCADSE01T
		Unit 1: Women Education—meaning and nature
		SEM V: Teacher Education / EDCADSE02T
		Unit 2: Functions of teacher
Week 4	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
to	Paper B: NIL	Unit 1: Concept of different forms of education – formal
week 8	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 1: Introduction to educational psychology
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 2: Forms of Education –Non-formal and Open Education
		SEM III: Education in Pre-independence India/ EDCACOR05T
		Unit 1: Salient features of Buddhistic w.r.t: aims of education &
		Curriculum and method of teaching
		SEM V: Women Education/ EDCADSE01T
		Unit 1: Women Education—scope
		SEM V: Teacher Education / EDCADSE02T
		Unit 2: Characteristics of an ideal teacher
Week 8	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
to	Paper B: NIL	Unit 1: Concept of different forms of education –non-formal
Week 12	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 1: Relation between education and psychology
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 2: Individualistic aims of Education
		SEM III: Education in Pre-independence India/ EDCACOR05T

		Unit 1: Salient features of Islamic education w.r.t: aims of
		education & Curriculum and method of teaching
		SEM V: Women Education/ EDCADSE01T
		Unit 1: Necessities of women Education.
		SEM V: Teacher Education / EDCADSE02T
		Unit 2: Role of teacher at present context.
Week 13	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
	Paper B: NIL	Unit 1: Concept of different forms of education –open education.
	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 1: Relation between education and psychology
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 2: Socialistic view of Education.
		SEM III: Education in Pre-independence India/ EDCACOR05T
		Unit 1: Nabadwip, Nalanda
		SEM V: Women Education/ EDCADSE01T
		Unit 1: Necessities of women Education.
		SEM V: Teacher Education / EDCADSE02T
		Unit 2: Definition and characteristics of Teaching
Weel	13 to week 14	Internal Exam
Week 15	Paper A:	SEM I: Educational Philosophy/ EDCACOR01T
to	Paper B: NIL	Unit 1: Concept of different forms of education –open education.
Week 17	Paper C:	SEM I: Educational Psychology/ EDCACOR02T
		Unit 1: Relation between education and psychology
		SEM I: Philosophical Foundation of Education/GE-1
		Unit 2: Democratic view of Education.
		SEM III: Education in Pre-independence India/ EDCACOR05T
		Unit 1: Nalanda, Agra
		SEM V: Women Education/ EDCADSE01T
		Unit 1: Necessities of women Education.
		SEM V: Teacher Education / EDCADSE02T
		Unit 2: Teaching as a profession, Ethics of a teacher
Week 18	Revision, Practise	Revision

Teaching Plan for Even Semester, UG course

Department of Education

Session (2022-2023)

Class: B.A.

Semester II, IV, & VI (Under CBCS)

Name of the Teacher: Purnendu Acharya

Subject: Education

Paper: CC-3, GE-2, CC- 8, DSE-4 (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1 to	Paper A:	SEM II: Educational Sociology / EDCACOR03T
week 4	Paper B: NIL	Unit 1: Educational sociology – concept, scope
	Paper C:	SEM II: Psychological Foundation of Education / GE-2
		Unit 1: Relationship between Psychology and Education
		SEM IV: Educational Management / EDCACOR08T
		Unit 3: Ministry of Human Resource Development
		SEM VI: Value Education/ EDCADSE04T
		Unit 1: Value - Meaning, nature

Week 4	Paper A:	SEM II: Educational Sociology / EDCACOR03T
to	Paper B: NIL	Unit 1: Relationship between education and sociology
week 8	Paper C:	SEM II: Psychological Foundation of Education / GE-2
		Unit 1: Educational Psychology- concept of Educational
		Psychology
		SEM IV: Educational Management / EDCACOR08T
		Unit 3: Agencies of education (Centre and State)
		SEM VI: Value Education/ EDCADSE04T
		Unit 1: Importance of Value
Week 8	Paper A:	SEM II: Educational Sociology / EDCACOR03T
to	Paper B: NIL	Unit 1: Education as a social process – social system,
Week 12	Paper C:	socialization
		SEM II: Psychological Foundation of Education / GE-2
		Unit 1: Nature of Educational Psychology
		SEM IV: Educational Management / EDCACOR08T
		Unit 3: UGC, NCERT
		SEM VI: Value Education/ EDCADSE04T
		Unit 1: Classification of value -Indian context
Week 13	Paper A:	SEM II: Educational Sociology / EDCACOR03T
	Paper B: NIL	Unit 1: Social groups (primary)
	Paper C:	SEM II: Psychological Foundation of Education / GE-2
		Unit 1: Contribution of Educational Psychology
		SEM IV: Educational Management / EDCACOR08T
		Unit 3: SCERT
		SEM VI: Value Education/ EDCADSE04T
		Unit 1: Classification of value - Western context
Week	13 to week 14	Internal Exam
Week 15	Paper A:	SEM II: Educational Sociology / EDCACOR03T
to	Paper B: NIL	Unit 1: Social groups (secondary, tertiary), social mobility.
Week 17	Paper C:	SEM II: Psychological Foundation of Education / GE-2
		Unit 1: Contribution of Educational Psychology
		SEM IV: Educational Management / EDCACOR08T
		Unit 3: SCERT, WBSCHE
		SEM VI: Value Education/ EDCADSE04T
		Unit 1: Classification of value - Western context
Week 18	Revision, Practise	Revision

Teaching Plan for Odd Semester, PG course

Department of Education

Session (2022-2023)

Class: M.A.

Semester I & III (Under CBCS)

Name of the Teacher: Purnendu Acharya

Subject: Education

Paper: Departmental: 1,2, 11, 12, 13, 14A, DSE-1 (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: Nil	Unit- 1: Concept, nature & scope of Education and Philosophy.
week 4	Paper C:	SEM-I: Psychological Foundations of Education/ EDCPCOR02T
		Unit- 1: Behaviourism – Characteristics & significance in
		Education

		SEM III. Educational Technology /EDCDCOD11T
		SEM-III: Educational Technology /EDCPCOR11T Unit- 1: Development of Educational Technology.
		SEM-III: Educational Management/ EDCPCOR12T
		Unit- 1: Concept, principles, functions & importance of
		Educational Management and Educational Administration
		SEM-III: Value and Peace Education/EDCPCOR13T
		Unit- 1: Historical Perspectives of value & Peace Education
		SEM-III: Guidance & Counselling / EDCPDSE01T
		Unit- 1: Nature, Principles & Need
Week 4	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: Nil	Unit- 1: Concept, nature and scope of Educational Philosophy
week 8	Paper C:	SEM-I: Psychological Foundations of Education/ EDCPCOR02T
		Unit- 1: Cognitivism – Characteristics & significance in Education
		SEM-III: Educational Technology /EDCPCOR11T
		Unit- 1: Educational Technology as a discipline.
		SEM-III: Educational Management/ EDCPCOR12T
		Unit- 1: Management as a System
		Unit- 2: Leadership in Educational Administration – Concept,
		Nature
		SEM-III: Value and Peace Education/EDCPCOR13T
		Unit- 1: Values in Indian Culture
		SEM-III: Guidance & Counselling / EDCPDSE01T
		Unit- 1: Types of Guidance – Concept, Nature and Educational
		Importance
Week 8	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: Nil	Unit- 1: Relationship between Education and Philosophy
Week 12	Paper C:	SEM-I: Psychological Foundations of Education/ EDCPCOR02T
		Unit- 1: Humanism – Characteristics & significance in Education.
		SEM-III: Educational Technology /EDCPCOR11T
		Unit- 1: Application of E.T in formal, non-formal (open and
		distance learning), Informal & Inclusive Education systems
		SEM-III: Educational Management/ EDCPCOR12T
		Unit- 2: Leadership in Educational Administration –types
		Unit- 3: Total Quality Management (TQM) – Concept
		SEM-III: Value and Peace Education/EDCPCOR13T
		Unit- 1: Need & importance of Education for Peace
		SEM-III: Guidance & Counselling / EDCPDSE01T
		Unit- 1: Role of Parents, Teachers, Peer Group & Society in
		Guidance
Week 13	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
	Paper B: Nil	Unit- 1: Concept of Educational Philosophy and Philosophy of
	Paper C:	Education
	'	SEM-I: Psychological Foundations of Education/ EDCPCOR02T
		Unit- 1: Constructivism – Characteristics & significance in
		Education.
		SEM-III: Educational Technology /EDCPCOR11T
		Unit- 1: Advantages and limitation of E.T
		SEM-III: Educational Management/ EDCPCOR12T
		Unit- 3: Total Quality Management (TQM) –Nature
		SEM-III: Value and Peace Education/EDCPCOR13T
		Unit- 1: Values & Peace in the Socio- cultural context in India.
		SEM-III: Guidance & Counselling / EDCPDSE01T
		Unit- 1: Guidance Personnel- Functions & Importance.
Mod	│ <13 to week 14	Internal Exam
week	VID TO MEEK 14	IIILEIIIAI LAAIII

Week 15	Paper A:	SEM-I: Philosophical Foundations of Education/ EDCPCOR01T
to	Paper B: Nil	Unit- 1: Concept of Educational Philosophy and Philosophy of
Week 17	Paper C:	Education
		SEM-I: Psychological Foundations of Education/ EDCPCOR02T
		Unit- 1: Constructivism – Characteristics & significance in
		Education.
		SEM-III: Educational Technology /EDCPCOR11T
		Unit- 1: Advantages and limitation of E.T
		SEM-III: Educational Management/ EDCPCOR12T
		Unit- 3: Total Quality Management (TQM) –Nature
		SEM-III: Value and Peace Education/EDCPCOR13T
		Unit- 1: Values & Peace in the Socio- cultural context in India
		SEM-III: Guidance & Counselling / EDCPDSE01T
		Unit- 1: Guidance Personnel- Functions & Importance
Week 18	Revision, Practise	Revision

Teaching Plan for Even Semester, PG course

Department of Education

Session (2022-2023)

Class: M.A.

Semester II & IV (Under CBCS)

Name of the Teacher: Purnendu Acharya

Subject: Education

Paper: Departmental: 7, 16, 17, SEC-1P (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1	SEM-II: Communication Skill/ EDCPSEC01P	SEM-II: Pedagogical Studies / EDCPCOR07T
to	Unit-1: Interrelationship of skills in English	Unit-4: Flanders Interaction Analysis
week 4	as a Second language	SEM-IV: Curriculum Studies/ EDCPCOR15T
		Unit-1: Curriculum – Concept, Types & Principles, Curriculum
		Development – Strategies & Stages
		SEM-IV: Education of Children with Diverse Needs/
		EDCPCOR16T
		Unit-1: Education of Children with Diverse Needs – Concept &
		Principles, Evolution – Special, Integrated, Inclusive Education,
		Education of Children with Diverse Needs
Week 4	SEM-II: Communication Skill/ EDCPSEC01P	SEM-II: Pedagogical Studies / EDCPCOR07T
to	Unit-1: Development of Reading Skills- •	Unit-4: Galloway's System of Interaction
week 8	Reading for Word Perception • Reading for	SEM-IV: Curriculum Studies/ EDCPCOR15T
	Comprehension, Types and Characteristics	Unit-1: Foundations / Bases of Curriculum – Philosophical Bases
	of reading	(National, Democratic), Sociological Bases (Learners' Needs &
		Interests), Role of National level Statutory Bodies in Curriculum
		Development – UGC, NCTE, NCERT & other Agencies
		SEM-IV: Education of Children with Diverse Needs/
		EDCPCOR16T
		Unit-1: Policies & Legislations – PWD Act(1995), National Policy
		of Disabilities(2006), PWD Act(2015), Functions of RCI, Inclusive
		Education under SSA, Functions of UNCRPD (United Nations
		Convention on the Rights of Persons with Disabilities)

Week 8	SEM-II: Communication Skill/ EDCPSEC01P	SEM-II: Pedagogical Studies / EDCPCOR07T
to	Unit-1: Types of Reading Skill, Reading	Unit-4: Criteria for Teacher Evaluation – Product, Process and
Week 12	problems and faulty reading habits,	Presage criteria
	Classroom approaches to reading	SEM-IV: Curriculum Studies/ EDCPCOR15T
	Unit-2: Introduction — what is writing?	Unit-4: Curriculum Change – Concept & Needs, Curriculum
	How is Writing Different from Speech	Change – Factors & Approaches
		SEM-IV: Education of Children with Diverse Needs/
		EDCPCOR16T
		Unit-2: Classification of Disabilities based on ICF Model, Types,
		Characteristics & Educational Needs of Diverse Learners
		(Intellectual, Physical & Multiple Disabilities)
Week 13	SEM-II: Communication Skill/ EDCPSEC01P	SEM-II: Pedagogical Studies / EDCPCOR07T
	Unit-2: How to Improve English Writing	Unit-4: Rubrics for Self and Peer Evaluation – Concept and Steps
	Skills?	of construction.
		SEM-IV: Curriculum Studies/ EDCPCOR15T
		Unit-4: Curriculum Research – Recent Trends
		SEM-IV: Education of Children with Diverse Needs/
		EDCPCOR16T
		Unit-2: Identification of Diverse Learners for Inclusion –
		Educational Evaluation Methods, Techniques & Tools.
Wee	k13 to week 14 Interna	al Exam
Week 15	SEM-II: Communication Skill/ EDCPSEC01P	SEM-II: Pedagogical Studies / EDCPCOR07T
to	Unit-2: Formal Letter Writing (Official &	Unit-4: Rubrics for Self and Peer Evaluation – Concept and Steps
Week 17	Application), Essay Writing	of construction.
		SEM-IV: Curriculum Studies/ EDCPCOR15T
		Unit-4: Curriculum Research – Recent Trends
		SEM-IV: Education of Children with Diverse Needs/
		EDCPCOR16T
		Unit-2: Identification of Diverse Learners for Inclusion –
		Educational Evaluation Methods, Techniques & Tools.
Week 18	Revision, Practise	Revision

Teaching Plan for Odd Semester, UG Course Department of Education

Session (July 2022-December 2022)

Class: B.A. (CBCS)

Semester: 1, 3, 5

Name of the Teacher: Dr. Jhuma Bandyopadhyay

Subject: Education

Paper: EDCACOR01T, EDCACOR02T, EDCAHGE01T, EDCACOR05T, EDCADSE02T (Theory & Practical)

Sl. No.	Practical Syllabus to be Covered (Paper Code to be mentioned)	Theory Syllabus to be Covered (Paper Code to be mentioned)
		SEM-1 EDCACOR01T: Philosophy in Education
Week 1 to		SEM-1 EDCAHGE01T: Philosophical Foundation of
Week 4		Education
		SEM-3 EDCACOR05T: Development of Education
		under East India Company
		SEM-5 EDCADSE02T: Teacher & Teaching

		SEM-1 EDCACOR02T: Introduction to Educational
Week 5 to		Psychology
Week 8		SEM-1 EDCAHGE01T: Philosophical Foundation of
		Education
		SEM-3 EDCACOR05T: Development of Education
		under East India Company
		SEM-5 EDCADSE02T: Historical Development of
		Teacher Edu.
		SEM-1 EDCACOR01T: National Value & Role of
Week 9 to		Education
Week 12		SEM-1 EDCAHGE01T: Philosophical Foundation of
		Education
		SEM-3 EDCACOR05T: Development of Education
		under East India Company
		SEM-5 EDCADSE02T: Historical Development of
		Teacher Edu.
		SEM-1 EDCACOR02T: Introduction to Educational
Week 13		Psychology
		SEM=1 EDCAHGE01T: Philosophical Foundation of
		Education
		SEM-3 EDCACOR05T: Development of Education
		under East India Company
		SEM-5 EDCADSE02T: Trends in Methodology of
		Teaching
	V	Veek 14 Internal Exam
		SEM-1 EDCACOR02T: Personality
Week 15		SEM-1 EDCAHGE01T: Philosophical Foundation of
to Week		Education
17		SEM-3 EDCACOR05T: Development of Education
		under East India Company
		SEM-5 EDCADSE02T: Trends in Methodology of
		Teaching
Week 18	Revision, Practice	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL SALT LAKE CITY, KOLKATA Teaching Plan for Even Semester, UG Course Department of Education Session (January 2023-June 2023)

Class: B.A. (CBCS)

Semester: 2, 4, 6

Name of the Teacher: Dr. Jhuma Bandyopadhyay

Subject: Education

Paper: EDCACOR04T, EDCHCGE02T, EDCACOR08T, EDCACOR14T(Theory & Practical)

Sl. No.	Practical Syllabus to be	Theory Syllabus to be Covered (Paper Code to be
	Covered (Paper Code to	mentioned)
	be mentioned)	
		SEM-2 EDCACOR04T: Pedagogy as Science of Teaching
Week 1 to		SEM-2 EDCHCGE02T: Attention & Memory
Week 4		SEM-4 EDCACOR08T: Leadership & Management
		SEM-6 EDCACOR14T: Introduction to Special
		Education
		SEM-2 EDCACOR04T: Pedagogy as Science of Teaching
Week 5 to		SEM-2 EDCHCGE02T: Attention & Memory
Week 8		SEM-4 EDCACOR08T: Leadership & Management
		SEM-6 EDCACOR14T: Introduction to Special
		Education
Week 9 to		SEM-2 EDCACOR04T: Application of Pedagogy &
Week 12		Classroom
		SEM-2 EDCHCGE02T: Attention & Memory
		SEM-4 EDCACOR08T: Planning & Management
		SEM-6 EDCACOR14T: Gifted & Slow Learners
		SEM-2 EDCACOR04T: Application of Pedagogy &
Week 13		Classroom
		SEM-2 EDCHCGE02T: Attention & Memory
		SEM-4 EDCACOR08T: Planning & Management
		SEM-6 EDCACOR14T: Types of Exceptionality, Causes,
		Prevention & Remedial Measures
	Wed	ek 14 Internal Exam
Week 15		SEM-2 EDCACOR04T: Application of Pedagogy &
to Week		Classroom
17		SEM-2 EDCHCGE02T: Attention & Memory
		SEM-4 EDCACOR08T: Planning & Management
		SEM-6 EDCACOR14T: Types of Exceptionality, Causes,
		Prevention & Remedial Measures
Week 18	Revision, Practice	Revision

Teaching Plan for Even Semester, PG course

Department of Education

Session (July 2022-December 2022)

Class: M.A. (CBCS) Semester: 1, 3

Name of the Teacher: Dr. Jhuma Bandyopadhyay

Subject: Education

Paper: EDCPCOR01T, EDCPCOR04T, EDCPCOR13T, EDCPCOR14P (Theory & Practical)

	Practical works to be covered	Theorytopicstobecovered(PaperCodetobe
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Sl. No.	(PaperCodetobementioned)	mentioned)	
Week 1 to Week 4	SEM-3 EDCPCOR14P: Total Selection and Conduct of Content Analysis of the selected topic. Writing objectives	SEM-1 EDCPCOR01T: Western School of Philosophy SEM-3 EDCPCOR13T: Nature and Concept of Values in Education	
Week 5 to Week 8	SEM-3 EDCPCOR14P: Preparing table of specification Developing test item and scoring key	SEM-1 EDCPCOR04T: Statistics in Educational Research Qualitative Data SEM-3 EDCPCOR13T: Nature and Concept of Peace in Education	
Week 9 to Week 12	SEM -3 EDCPCOR14P: Conduct pilot testing and item analysis, Preparing second draft	SEM-1 EDCPCOR04T: Inferential Statistics Parametric & Non-Parametric Techniques SEM-3 EDCPCOR13T: Approaches of Education in relation to Value and Peace	
Week 13	SEM-3 EDCPCOR14P: Preparing the final version of the test	SEM-1 EDCPCOR04T: Inferential Statistics Parametric & Non-Parametric Techniques SEM-3 EDCPCOR13T: : Approaches of Education in relation to Value and Peace	
	Week 14 INTERNAL EXAM		
Week 15 to Week 17	SEM-3 EDCPCOR14P: Conduct of Standardization Process	SEM-1 EDCPCOR04T: Qualitative Data Analysis SEM-3 EDCPCOR13T: : Approaches of Education in relation to Value and Peace	

Teaching Plan for Even Semester, PG course Department of Education

Session(January 2023-June 2023)

Class: M.A. (CBCS) Semester: 2, 4

Name of the Teacher: Dr. Jhuma Bandyopadhyay

Subject: Education

Paper: EDCPCOR08T, EDCPCOR09P, EDCPCOR16T, EDCPCOR17P, EDCPCOR18P(Theory & Practical)

Sl. No.	Practical works to be covered (PaperCodetobementioned)	Theorytopicstobecovered(PaperCodetobe mentioned)
Week 1 to Week 4	SEM-2 EDCPCOR09P: Topic Selection and Conduct of Content Analysis of the selected topic. Writing objectives SEM-4 EDCPCOR17P: Introduction to Review of related Studies EDCPCOR18P: Topic Selection,	SEM-2 EDCPCOR08T: Qualitative Data SEM-4 EDCPCOR16T: Barriers and Fecilitators in Inclusive Education

	Research Proposal Writing	
Week 5 to Week 8	SEM-2 EDCPCOR09P: Preparing table of specification Developing test item and scoring key SEM-4 EDCPCOR17P: Introduction to Review of related Studies EDCPCOR18P: Data Collection, Data Analysis	SEM-2 EDCPCOR08T: Inferential Statistics
Week 9 to Week 12	SEM-2 EDCPCOR09P: Conduct Pilot testing and item analysis, Preparing second draft SEM-4 EDCPCOR17P: Develop the Appraisal Report EDCPCOR18P: Data Collection, Data NALYSIS	SEM-2 EDCPCOR08T: Parametric & Non-Parametric Techniques
Week 13	SEM-2 EDCPCOR09P: Preparing the final version of the test SEM-4 EDCPCOR17P: Find the knowledge gap EDCPCOR18P: Project Report Writing Week 14 INT	SEM-2 EDCPCOR08T: Parametric & Non-Parametric Techniques
Week 15 to Week 17	SEM-2 EDCPCOR09P: Conduct of Standardization Process SEM-4 EDCPCOR17P: Report Writing EDCPCOR18P: Project Report Writing	SEM-2 EDCPCOR08T: Parametric & Non-Parametric Techniques

Teaching Plan for Odd Semester, UG course

Department of Education

Session (2022-2023)

Class: B.A.

Semester I, III & V (Under CBCS)

Name of the Teacher: Priyanka Datta

Subject: Education

Paper: CC-1, CC-2, GE-1, CC-6, CC-12 (T & P) (Theory and Practical)

SL. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1 to	SEM V: Basic ICT /EDCACOR12P	SEM I: Educational Philosophy/ EDCACOR01T
week 4	Unit 1: Opening and shutting	Unit 2: Idealism, Naturalism, Pragmatism
	down of computer: Outlook of	SEM I: Educational Psychology/ EDCACOR02T
	Desktop & Laptop - Different	Unit 3: Intelligence – concept and scope, Theories of intelligence
	parts of computer - Different	– Guilford
	Cables to join the ports - Power	SEM I: Philosophical Foundation of Education/GE-1
	switch of UPS, CPU, & Monitor –	Unit 4: R. N. Tagore
	Steps to opening & shutting down	SEM III: Education in Post-independence India/ EDCACOR06T
	the Computer	Unit 1: University Education Commission (1948-49), Secondary
		Education Commission (1952-53)
		SEM V: Educational Technology/ EDCACOR12T

		Unit 1: Concept, nature, scope and limitations of educational technology, Approaches to educational technology – hardware, software
Week 4	SEM V: Basic ICT /EDCACOR12P	SEM I: Educational Philosophy/ EDCACOR01T
to	Unit 1: Basic introduction of	Unit 2: Existentialism
week 8	computer – Classification –	Unit 4: Rabindranath Tagore
	Different components – Input	SEM I: Educational Psychology/ EDCACOR02T
	devices – Output devices –	Unit 3: Theories of intelligence – Gardener, Sternberg
	Storage devices – Bit & Byte	SEM I: Philosophical Foundation of Education/GE-1
	Concept – Data Transfer devices	Unit 4: R. N. Tagore
	(Bluetooth & Wi-Fi).	SEM III: Education in Post-independence India/ EDCACOR06T
	,	Unit 2: Indian Education Commission (1964-66), National Policy
		on Education, 1968
		Unit 3: National Policy on Education, 1986
		SEM V: Educational Technology/ EDCACOR12T
		Unit 1: Systems approach
		Unit 2: Communication- Concept, components, classification and
		barriers, One basic classroom-oriented model, i.e., linear and its
		significance in education
Week 8	SEM V: Basic ICT /EDCACOR12P	SEM I: Educational Philosophy/ EDCACOR01T
to	Unit 2: Typing words: Creating	Unit 4: Swami Vivekananda, John Dewey
Week 12	new file – Typing – Opening &	SEM I: Educational Psychology/ EDCACOR02T
	Saving the file – Copy, Cut &	Unit 3: Creativity – concept, scope and characteristics of creative
	Paste, Font: Names – Sizes –	person
	Styles (Bold, Italic & Underline),	SEM I: Philosophical Foundation of Education/GE-1
	Paragraph: Align Text (Left, Right,	Unit 4: R. N. Tagore & F. W. A. Froebel
	Centre, Justifying) – Line Spacing	SEM III: Education in Post-independence India/ EDCACOR06T
		Unit 3: Sarva Shiksha Mission
		SEM V: Educational Technology/ EDCACOR12T
		Unit 3: Mass instructional techniques – seminar, symposium,
		workshop, panel discussion, Personalized instructional techniques
		- programme learning (linear), microteaching
Week 13	SEM V: Basic ICT /EDCACOR12P	SEM I: Educational Philosophy/ EDCACOR01T
	Unit 2: Bullets formation –	Unit 4: Bertrand Russell
	Numbering, Page Set Up: Margins	SEM I: Educational Psychology/ EDCACOR02T
	– Orientation – Sizes – Columns,	Unit 3: Relationship between intelligence, creativity and
	Inserting Tables (Drawing,	education
	Erasing, & Formatting)	SEM I: Philosophical Foundation of Education/GE-1
	<i>S</i> , <i>S</i> ,	Unit 4: F. W. A. Froebel
		SEM III: Education in Post-independence India/ EDCACOR06T
		Unit 3: Right to Education Act, 2009
		SEM V: Educational Technology/ EDCACOR12T
		Unit 3: Mastery learning
Week	13 to week 14	Internal Exam
Week 15	SEM V: Basic ICT /EDCACOR12P	SEM I: Educational Philosophy/ EDCACOR01T
to	Unit 2: Page Numbering – Adding	Unit 4: Bertrand Russell
Week 17	Pictures & Symbols, Printing:	SEM I: Educational Psychology/ EDCACOR02T
	Print Set Up – Landscape &	Unit 3: Relationship between intelligence, creativity and
	Portrait – Page Range – Zooming	education
	– Copies	SEM I: Philosophical Foundation of Education/GE-1
		Unit 4: F. W. A. Froebel
		SEM III: Education in Post-independence India/ EDCACOR06T
		Unit 4: Right to Education Act, 2009
		SEM V: Educational Technology/ EDCACOR12T
		Unit 3: Computer assisted instruction (CAI)

Teaching Plan for Even Semester, UG course

Department of Education

Session (2022-2023)

Class: B.A.

Semester II, IV, & VI (Under CBCS)

Name of the Teacher: Priyanka Datta

Subject: Education

Paper: CC-3, GE-2, CC- 10 (T&P), DSE-4 (Theory and Practical)

SL. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	SEM IV: Statistics in Education / EDCACOR10P Unit 1: Introduction to Data: Definition, types, uses Collection of Data: To collect relevant data of two set of Achievement Test from respective 14 colleges or neighbourhood institutions (sample size 50)	SEM II: Educational Sociology / EDCACOR03T Unit 2: Culture – concept, interrelationship between education and culture, importance of folk culture in education SEM II: Psychological Foundation of Education / GE-2 Unit 4: Personality-concept, characteristics & types b. Psychoanalytic theory by Freud SEM IV: Statistics in Education / EDCACOR10T Unit 1: Statistics – concept, scope, uses of statistics in psychology and education, Organization and tabulation of data, Graphical representation of data – bar graph, frequency polygon, histogram, pie chart, ogive – drawing, uses SEM VI: Value Education/ EDCADSE04T Unit 1: Value - Meaning, nature and importance, Classification of value -Indian and Western context
Week 4 to week 8	SEM IV: Statistics in Education / EDCACOR10P Unit 2: Data Analyses by manual - Determination of Central Tendency & Variability (Range, SD, QD) b. Graphical Representation of Data: Frequency Polygon, Ogive	SEM II: Educational Sociology / EDCACOR03T Unit 2: The concept of 'Unity in Diversity', cultural lag, cultural conflict, acculturation. c. National Integration, International Understanding. SEM II: Psychological Foundation of Education / GE-2 Unit 4: Personality-concept, characteristics & types b. Psychoanalytic theory by Freud SEM IV: Statistics in Education / EDCACOR10T Unit 2: Measures of central tendency – concept, properties, uses, calculation, Measures of variability – concept, types (concept), uses, calculation of SD SEM VI: Value Education / EDCADSE04T Unit 2: Values from different perspectives-Philosophy, History, Environment, Literature, Religion and Education (concept, nature, importance), Democratic and Universal Human Values – Concept, nature and importance
Week 8 to Week 12	SEM IV: Statistics in Education / EDCACOR10P Unit 2: Data Analyses by excel/software- Determination of Central Tendency & Variability (Range, SD, QD), Graphical Representation of Data: Frequency Polygon, Ogive, Comparison between two sets of data: Correlation (only software	SEM II: Educational Sociology / EDCACOR03T Unit 2. National Integration, International Understanding. Unit 3: Social development in India – Sanskritization, Modernisation SEM II: Psychological Foundation of Education / GE-2 Unit 4: Personality-concept, characteristics & types b. Psychoanalytic theory by Freud SEM IV: Statistics in Education / EDCACOR10T Unit 3: Measures of variability – concept, types (concept), uses, calculation of QD, variance, Normal Probability Curve – concept, characteristics, uses; skewness and kurtosis

	calculation) – Rank difference and	SEM VI: Value Education/ EDCADSE04T
	product moment.	Unit 3: Value Crises – Definition, nature and characteristics,
		Causes of Value crises with respect to Social, Economic and
		Political life, preventive measures of value crises
Week 13	SEM IV: Statistics in Education /	SEM II: Educational Sociology / EDCACOR03T
	EDCACOR10P	Unit 3: Social development in India –Globalisation
	Unit 2: Writing the report of	SEM II: Psychological Foundation of Education / GE-2
	statistical practical	Unit 4: Personality-concept, characteristics & types b.
		Psychoanalytic theory by Freud
		SEM IV: Statistics in Education / EDCACOR10T
		Unit 3: PP, PR – concept, calculation, uses
		SEM VI: Value Education/ EDCADSE04T
		Unit 4: Value Education - meaning, nature, approaches
Week	13 to week 14	Internal Exam
Week 15	SEM IV: Statistics in Education /	SEM II: Educational Sociology / EDCACOR03T
to	EDCACOR10P	Unit 3: Education for sustainable development – concept, need,
Week 17	Unit 2: Writing the report of	report of the Brundtland Commission
	statistical practical	SEM II: Psychological Foundation of Education / GE-2
		Unit 4: Personality-concept, characteristics & types b.
		Psychoanalytic theory by Freud
		SEM IV: Statistics in Education / EDCACOR10T
		Unit 3: Correlation – concept, types, significance – rank
		difference, product moment
		SEM VI: Value Education/ EDCADSE04T
		Unit 4: Learning experiences in value education through
		imitation, indoctrination, inculcation and internalization, Role of
		parents, teachers, mass-media in inculcating values
Week 18	Revision, Practise	Revision

Teaching Plan for Even Semester, PG course Department of Education

Session(July 2022-December 2022)

Class: M.A. (CBCS) Semester: 1, 3

Name of the Teacher: Dr. Priyanka Dutta

Subject: Education

Paper: EDCPCOR01T, EDCPCOR02T, EDCPCOR11T, EDCPCOR13T, EDCPCOR05P (Theory & Practical)

SI. No.	Practical works to be covered (PaperCodetobementioned)	Theorytopicstobecovered(PaperCodetobe mentioned)
Week 1 to Week 4	EDCPCOR05P: Evaluation of listing and Speaking Skill	EDCPCOR01T : Great Educators EDCPCOR11T : General Idea of Educational Technology
Week 5 to Week 8	EDCPCOR05P: Evaluation of listing and Speaking Skill	EDCPCOR02T : Growth and Development EDCPCOR11T : System Approach

Week 9	EDCPCOR05P : Evaluation of listing	EDCPCOR02T : Intelligence and Creativity
to Week	and Speaking Skill	EDCPCOR11T : Emerging Trends in E – Learning
12		
Week 13	EDCPCOR05P: Evaluation of listing	EDCPCOR02T : Personality
	and Speaking Skill	EDCPCOR11T : Use of ICT
	Week 14 INT	ERNAL EXAM
Made 15	EDCDCODOED - Evoluation of listing	EDCDCODO3T - Dorson olite
Week 15	EDCPCOR05P : Evaluation of listing	EDCPCOR02T : Personality
to Week	and Speaking Skill	EDCPCOR13T : Nature and Concept of Value
18		

Teaching Plan for Even Semester, PG course Department of Education

Session(January 2023-June 2023)

Class: M.A. (CBCS) Semester: 2, 4

Name of the Teacher: Dr. Priyanka Dutta

Subject: Education

Paper: EDCPCOR08T, EDCPCOR15T, EDCPCOR10T, EDCPDSE03T, (Theory & Practical)

SI. No.	Practical works to be covered (PaperCodetobementioned)	Theorytopicstobecovered(PaperCodetobe mentioned)
Week 1 to Week		EDCPCOR08T: Qualitative Data EDCPCOR15T: Model of Curriculum Design
4		EDCPDSE03T : Concept of Teacher Education
Week 5		EDCPCOR10T: Theories of Learning
to Week		EDCPCOR15T: Model of Curriculum Design
8		EDCPDSE03T: In – Service Teacher Education
Week 9		EDCPCOR10T: Theories of Learning
to Week		EDCPCOR15T: Curriculum Evaluation
12		EDCPDSE03T : Professionalism in Teacher Education
Week 13		EDCPCOR10T : Learning and Motivation
		EDCPCOR15T: Curriculum Evaluation
		EDCPDSE03T : Modern Trends in Teacher Education
	Week 14	INTERNAL EXAM
Week 15		EDCPCOR10T : Social Learning
to Week		EDCPCOR15T : Curriculum Evaluation

Teaching Plan for Odd Semester, UG course

Department of Education

Session (July 2022-December 2022)

NameoftheTeacher: Shikha Roy

Class: B.A

Semester 1,3,5 Subject: Education

Paper: CC1, CC2, CC7 T.P. EDCPCORO1, EDCPCORO2T, EDCPCORO3T, EDCPCORO4T (TheoryandPractical)

S.No	Practical works to be covered	Theorytopicstobecovered(Papercodetobe mentioned)
	(Papercodetobementioned)	
Week1 toweek4	(Papercodetobementioned) Paper: EDCACOR07P/Core07P: Field Tour and Report Writing	Paper: EDCACOR01T / Core 01T: Educational Philosophy Unit3: National values and role of education Paper: EDCACOR02T / Core 02T: Educational Psychology Unit 2: Psychology of human development and education EDCACOR07T/Core 07T: Contemporary issues Unit 1 Traditional issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit- 3: Western Schools of Philosophy Departmental: 2 / EDCPCOR02T Psychological Foundations of Education Unit-2: Growth & Development Departmental: 3 / EDCPCOR03T Methodology of Educational Research
		Unit-1: Basic Concept on Educational Research Departmental: 4 / EDCPCORO4T Statistics in Education Unit-1: Statistics in Educational Research
Week4 to week8	Paper: SEC I/ EDCSSEC01M: Skill development for social awareness	Paper: EDCACOR01T / Core 01T: Educational Philosophy Unit3: National values and role of education Paper: EDCACOR02T / Core 02T: Educational Psychology Unit 2: Personality EDCACOR07T/Core 07T: Contemporary issues Unit 2 Social issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit- 3: Western Schools of Philosophy Departmental: 2 / EDCPCOR02T Psychological Foundations of Education Unit-2: Growth & Development
		Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-1: Research and Educational Research, Scientific Method Departmental: 4 / EDCPCORO4T Statistics in Education Unit-1: Hypothesis
Week8 to Week12	Paper: EDCACOR07P/Core07P: Field Tour and Report Writing	Paper: EDCACOR01T / Core 01T: Educational Philosophy Unit3: Values as enshrined in the Indian constitution Paper: EDCACOR02T / Core 02T: Educational Psychology Unit 2: Cognitive development EDCACOR07T/Core 07T: Contemporary issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit- 3: Naturalism & Realism, Pragmatism,. Unit- 4: Contributions of Educational Thinkers Departmental: 2 /

Unit-2: Vygotsky & Erickson Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-1: Qualitative, Quantitative ResearchDepartmental: 4 / EDCPCORO4 Statistics in Education Unit-1: Confidence Level & Significance Testing, Week13 Paper: SEC I / EDCSSEC01M: Skill development for social awareness Paper: EDCACOR01T / Core 01T: Educational Philosophy Unit-3: Educational provisions in the Indian constitution Paper: EDCACOR01T / Core 02T: Educational Psychology Unit-2: Moral development EDCACOR07T/Core 07T: Contemporary issues Unit-3 Educational issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit-3: Logical analysis, Positivism and Positive Relativism. Unit-4: R.N. Tagore & M. K. GandhiDepartmental: 2 / EDCPCOR02T Psychological Foundations of Education alexandrea of Education Unit-1: Fundamental, Applied & Action Research, Historical, Descriptive, Experimental, Departmental: 4 / EDCPCOR04T Statistics in Education Unit-1: Type-I and Type-II Errors, One tailed & Two Tailed Tests. Week15 Week15 Week15 Paper: EDCACOR07P/Core07P: Field Tour and Report Writing Paper: SEC I / EDCSSEC01M: Skill development for social awareness Paper: EDCACOR01T / Core 01T: Educational Psychology Unit-2: Possible of Paper: EDCACOR01T / Core 01T: Educational Psychology Unit-2: Psycho-social development EDCACOR07T/Core 07T: Contemporary issues Unit-3: Educational issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit-2: Psycho-social development EDCACOR01T (Core 07T: Contemporary issues Unit-3: Bositive Relativism. Unit-4: M. K. GandhiDepartmental: 2 / EDCPCOR01T Psychological Foundations of Education Unit-3: Psychological Foundations of Education Unit-3: Psychological Foundations of Education Unit-3: Psychological Foundations of Education Unit-1: One tailed & Two Tailed Tests.			EDCPCORO2T Psychological Foundations of Education
Unit-1: Qualitative, Quantitative ResearchDepartmental: 4 / EDCPCORO4 Statistics in Education Unit-1: Confidence Level & Significance Testing, Week13			
Skill development for social awareness			Unit-1: Qualitative, Quantitative ResearchDepartmental: 4 / EDCPCORO47 Statistics in Education
Skill development for social awareness			
Week15 to 17 Paper: EDCACOR07P/Core07P: Field Tour and Report Writing Paper: SEC I/ EDCSSEC01M: Skill development for social awareness Paper: EDCACOR01T / Core 01T: Educational Philosophy Unit4: Contributions of great educators on philosophy of education Paper: EDCACOR02T / Core 02T: Educational Psychology Unit 2: Psycho-social development EDCACOR07T/Core 07T: Contemporary issues Unit 3 Educational issues Departmental: 1 / EDCPCOR01T Philosophical Foundations or Education Unit- 3: Positive Relativism. Unit- 4: M. K. GandhiDepartmental: 2 / EDCPCOR02T Psychological Foundations of Education Unit-1: Holistic Theory of development [Steiner]Departmental: 3 EDCPCOR03T Methodology of Educational Research Unit-1: Descriptive, Experimental Departmental: 4 / EDCPCOR04T Statistics in Education Unit-1: One tailed & Two Tailed Tests.	Week13	Skill development for social	Philosophy Unit 3: Educational provisions in the Indian constitution Paper: EDCACOR02T /Core 02T: Educational Psychology Unit 2: Moral development EDCACOR07T/Core 07T: Contemporary issues Unit 3 Educational issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit- 3: Logical analysis, Positivism and Positive Relativism. Unit- 4: R.N. Tagore & M. K. GandhiDepartmental: 2 / EDCPCOR02T Psychological Foundations of Education Unit-2: Holistic Theory of development [Steiner]Departmental: 3 / EDCPCOR03T Methodology of Educational Research Unit-1: Fundamental, Applied & Action Research, Historical, Descriptive, Experimental, Departmental: 4 / EDCPCOR04T Statistics in Education
Field Tour and Report Writing Paper: SEC I/ EDCSSEC01M: Skill development for social awareness Philosophy Unit4: Contributions of great educators on philosophy of education Paper: EDCACOR02T /Core 02T: Educational Psychology Unit 2: Psycho-social development EDCACOR07T/Core 07T: Contemporary issues Unit 3 Educational issues Departmental: 1 / EDCPCORO1T Philosophical Foundations of Education Unit- 4: M. K. GandhiDepartmental: 2 / EDCPCORO2T Psychological Foundations of Education Unit-2: Holistic Theory of development [Steiner]Departmental: 3 EDCPCORO3T Methodology of Educational Research Unit-1: Descriptive, Experimental Departmental: 4 / EDCPCORO4T Statistics in Education Unit-1: One tailed & Two Tailed Tests.	Week13	toweek14	InternalExam
Week18 Revision,Practise Revision	Week15 to 17	Field Tour and Report Writing Paper: SEC I/ EDCSSEC01M: Skill development for social	Philosophy Unit4: Contributions of great educators on philosophy of education Paper: EDCACOR02T /Core 02T: Educational Psychology Unit 2: Psycho-social development EDCACOR07T/Core 07T: Contemporary issues Unit 3 Educational issues Departmental: 1 / EDCPCOR01T Philosophical Foundations of Education Unit- 3: Positive Relativism. Unit- 4: M. K. GandhiDepartmental: 2 / EDCPCOR02T Psychological Foundations of Education Unit-2: Holistic Theory of development [Steiner]Departmental: 3 / EDCPCOR03T Methodology of Educational Research Unit-1: Descriptive, Experimental Departmental: 4 / EDCPCOR04T Statistics in Education
	Week18	Revision,Practise	Revision

Teaching Plan for Odd Semester, PG course

Department of Education

Session (July 2022-December 2022)

Name of the Teacher: Shikha Roy

Class: M.A Semester:1,3

Subject: Education

Paper: EDCPCOR01T, EDCPCOR02T, EDCPCOR03T, EDCPCOR04T, EDCPCOR11T, EDCPCOR12T, EDCPCOR13T, DSE01T (Theory and Practical)

S.No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week1 toweek4		Departmental: 1 / EDCPCORO1T Philosophical Foundations of Education Unit- 3: Western Schools of Philosophy
		Departmental: 2 / EDCPCORO2T Psychological Foundations of Education Unit-2: Growth & Development
		Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-1: Basic Concept on Educational Research
		Departmental-4 Contemporary Issues and Trends in Education
		Departmental-14/DSE01T-Guidance & Counselling
		Unit-1: Guidance
Week4 to week8		Departmental: 1 / EDCPCORO1T Philosophical Foundations of Education Unit- 3: Western Schools of Philosophy
		Departmental: 2 / EDCPCORO2T Psychological Foundations of Education Unit-2: Growth & Development
		Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-2: Planning & Design of Research Departmental:
		EDCPCORO4T Statistics in Education Unit-1: Hypothesis
		Unit-1: General Ideas on Educational Technology
		Departmental-12 Educational Management
		Unit-2: Leadership in Education
		Departmental-13 Value & Peace Education
		Unit - 1: General ideas on Value & Peace Education
		Departmental-14/DSE01T-Guidance & Counselling
		Unit-2: Counselling
Week8 to Week12		Departmental: 1 / EDCPCORO1T Philosophical Foundations of Education Unit- 3: Naturalism & Realism, Pragmatism,. Unit- 4: Contributions of Educational Thinkers Departmental: 2 / EDCPCORO2T Psychological Foundations of Education Unit-2: Vygotsky & Erickson
		Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-3: Research Design
		Departmental: 4 / EDCPCORO4T Statistics in Education Unit-1: Confidence Level & Significance Testing,
		Unit-1: General Ideas on Educational Technology
		Departmental-12 Educational Management
		Unit-2: Leadership in Education
		Departmental-13 Value & Peace Education
		Unit - 1: General ideas on Value & Peace Education

		Departmental-14/DSE01T-Guidance & Counselling
		Unit-3: Guidance Programme
Week13		Departmental: 1 / EDCPCORO1T Philosophical Foundations of Education Unit- 3: Logical analysis, Positivism and Positive Relativism. Unit- 4: R.N. Tagore & M. K. Gandhi Departmental: 2 / EDCPCORO2T Psychological Foundations of Education Unit-2: Holistic Theory of development [Steiner]Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-4: Qualitative Data Analysis Departmental: 4 / EDCPCORO4T Statistics in Education Unit-1: Type-I and Type-II Errors, One tailed & Two Tailed Tests. Unit-1: General Ideas on Educational Technology Departmental-12 Educational Management Unit-2: Leadership in Education Departmental-13 Value & Peace Education Unit - 1: General ideas on Value & Peace Education Departmental-14/DSE01T-Guidance & Counselling
		Unit-4: Stress & Stress Management
Week13t	oweek14	InternalExam
Week15 to 17		Departmental: 1 / EDCPCORO1T Philosophical Foundations of Education Unit- 3: Positive Relativism. Unit- 4: M. K. GandhiDepartmental: 2 / EDCPCORO2T Psychological Foundations of Education Unit-2: Holistic Theory of development [Steiner]Departmental: 3 / EDCPCORO3T Methodology of Educational Research Unit-1: Descriptive, Experimental Departmental: 4 / EDCPCORO4T Statistics in Education Unit-1: One tailed & Two Tailed Tests. Unit-1: General Ideas on Educational Technology
		Departmental-12 Educational Management
		Unit-2: Leadership in Education
		Departmental-13 Value & Peace Education
		Unit - 1: General ideas on Value & Peace Education
		Departmental-14/DSE01T-Guidance & Counselling
		Unit-4: Stress & Stress Management
Week18	Revision,Practise	Revision

Teaching Plan for even Semester, UG course

Department of Education

Session(January 2023 - June 2023)

NameoftheTeacher: Shikha Roy

Class: B.A,

Semester 2,4,6 Subject: Education

Paper: CC3, CC4, GE2, CC9, SECII, (Theoryand Practical)

	(Theoryan	ndPractical)
S.No	Practical works to be covered (Papercodetobementioned)	Theorytopicstobecovered(Papercodetobe mentioned)
Week1 toweek4	Paper: SEC II (EDCSSEC02M) Development of observational skills	Paper: EDCACOR03T / Core 03T: Educational SociologyUnit 4: Social issues and education
	SKIIIS	Paper: EDCACOR04T / Core 04 Unit 3: Pedagogy of teaching – learning
		Paper: DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T) Psychological Foundation of Education
		Unit 2: Psychology of Human Development and Education
		EDCACOR09T/Core 09T: Basics of Educational Research and Evaluation
		Unit1: Preliminary concepts on research methodology
Week4 to week8	Paper: SEC II (EDCSSEC02M) Development of observational	Paper: EDCACOR03T / Core 03T: Educational Sociology Unit 4: Education for poverty eradication
	skills	Paper: EDCACOR04T / Core 04: Unit 3: Teaching – learning of 3 R's
		Paper :DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T) Psychological Foundation of Education
		Unit 2:. Concept of Physical, development and its significance in Education
		EDCACOR09T/Core 09T: Basics of Educational Research and Evaluation
		unit 1: Research related terminologies
Week8 to Week12	Paper: SEC II (EDCSSEC02M) Development of observational skills	Pape: EDCACOR03T / Core 03T: Educational Sociology Unit 4: Child rights and abuses
	SKIIIS	Paper: EDCACOR04T / Core 04 Unit 3: Teaching – learning of verbal conditioning
		Paper: DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T) Psychological Foundation of Education
		Unit 2: Moral development and its significance in Education
		EDCACOR09T/Core 09T: Basics of Educational Research and Evaluation

		Unit 2: Sampling and hypothesis
Week13	Paper: SEC II (EDCSSEC02M)	Paper: EDCACOR03T / Core 03T: Educational Sociology
	Development of observational skills	Unit 4:. Child rights and abuses
	•	Paper: EDCACOR04T / Core 04:
		Unit 3:. Teaching – learning of psychomotor skill
		paper:DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T)
		Psychological Foundation of Education
		Unit 2: Moral development and its significance in Education
		EDCACOR09T/Core 09T: Basics of Educational Research and
		Evaluation
		Unit 3: Evaluation and Measurement
Week13	Stoweek14	InternalExam
Week15	Paper: SEC II (EDCSSEC02M)	Paper: EDCACOR03T / Core 03T: Educational Sociology
to 17	Development of observational skills	Unit 4: Child rights and abuses
		Paper: EDCACOR04T / Core 04
		Unit 3: Teaching – learning of psychomotor skill paper: DSC 1B
		(EDCGCOR01T) / GE 2(EDCHGE02T) Psychological Foundation of
		Education Unit 2:
		Cognitive, Moral development and its significance in Education
		EDCACOR09T/Core 09T: Basics of Educational Research and Evaluation
	1	
		Unit 4: Standardization of a test

Teaching Plan for even Semester, PG course

Department of Education

Session (January 2023-June 2023)

Name of the Teacher: Shikha Roy

Class: M.A

Semester: 2,4 Subject: Education

Paper: EDCPCORO6T, EDCPCORO7T, EDCPCORO8T, EDCPCORO10T, EDCPCOR15T, EDCPCOR16T, EDCPDSE02T

(Theory and Practical)

S. No	Practical syllabus to be covered (Paper	Theory syllabus to be covered (Paper code to be mentioned)
	code to be mentioned)	
Week 1	Departmental-19	Departmental-6 Sociological Foundations of Education
to week 4	Practical	Unit – 4: Education and Social Problems
	(Review of Related Literature on a given topic)	Discriminatory issues
		Departmental-7 Pedagogical Studies
		Unit- 1:
	Departmental-20	Pedagogic
	& 21	al Analysis
	& 21	Pedagogy – Meaning, Nature, & Importance.
	Dissertation/Project EDCPCOR18P	Departmental-8 Contemporary Issues and Trends in Education

	T	L
		Unit-1: Education and Reservation
		Reservation - Concept, nature and needs.
		Departmental-10 Psychology of Learner & Learning Process
		Unit-3: Transfer of Learning
		Transfer of Learning - Concept, Nature & Educational Importance
		Departmental-16 Curriculum Studies
		Unit - 1: Concept of Curriculum
		Departmental-17 Education of Children with Diverse Needs
		Unit - 2: Types of Diverse Learners
		Departmental-18
		DSE-Teacher Education
		Unit - 2: In-service Teacher Education
	Departmental-19	Departmental-6 Sociological Foundations of Education
week 8	Practical	Unit – 4: Education and Social Problems
	(Review of Related Literature on a given	Drug Abuse & Drug Addiction
	topic)	Departmental-7 Pedagogical Studies
	EDCPCOR17P	Unit- 1:
	Departmental-20	Pedagogic al Analysis
	& 21	Pedagogy – Meaning, Nature, & Importance.
	Dissertation/Project EDCPCOR18P	Departmental-8 Contemporary Issues and Trends in Education
		Departmental-8 Contemporary Issues and Trends in Education
		Unit-1: Education and Reservation
		(ii) Reservation for SC/ST/OBC.
		Departmental-10 Psychology of Learner & Learning Process
		Unit-3: Transfer of Learning.
		Types of Transfer – Concept, types & Importance
		Departmental-16 Curriculum Studies
		Unit - 1: Concept of Curriculum
		Departmental-17 Education of Children with Diverse Needs
		Unit - 2: Types of Diverse Learners
		Departmental-18
		DSE-Teacher Education
		Unit - 2: In-service Teacher Education
Week 8 to	Departmental-19	Departmental-6 Sociological Foundations of Education
Week 12	Practical	

	(Review of Related Literature on a given	Unit – 4: Education and Social Problems
	topic) EDCPCOR17P	Terrsm.
	Departmental-20	Departmental-7 Pedagogical Studies
	& 21	
	Dissertation/Pr	Unit- 1: Pedagogical Analysis
	oject EDCPCOR18P	Pedagogical Analysis - Concept & Stages.
	EDCPCORTOP	Departmental-8 Contemporary Issues and Trends in Education
		Unit-1: Education and Reservation
		Reservation for Women.
		Departmental-10 Psychology of Learner & Learning Process
		Unit-3: Transfer of Learning
		Theories of Transfer of Learning
		Departmental-16 Curriculum Studies
		Unit - 1: Concept of Curriculum
		Departmental-17 Education of Children with Diverse Needs
		Unit - 2: Types of Diverse Learners
		Departmental-18
		DSE-Teacher Education
		Unit - 2: In-service Teacher Education
Week 13	Departmental-19 Practical	Departmental-6 Sociological Foundations of Education
	(Review of Related Literature on a given topic)	Unit – 4: Education and Social Problems
	EDCPCOR17P	Terrsm.
	Departmental-20	Departmental-7 Pedagogical Studies
	& 21	
	Dissertation/Pr	Unit- 1: Pedagogical Analysis
	oject EDCPCOR18P	Critical Pedagogy – Meaning, Needs and its
	LDCI CORTOI	Departmental-8 Contemporary Issues and Trends in Education
		Unit-1: Education and Reservation
		Reservation for Differently Abled /Impaired. Departmental-10 Psychology of Learner & Learning Process
		Unit-3: Transfer of Learning

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		(iii)Theories of Transfer of Learning
		Departmental-16 Curriculum Studies
		Unit - 1: Concept of Curriculum
		Departmental-17 Education of Children with Diverse Needs
		Unit - 2: Types of Diverse Learners
		Departmental-18
		DSE-Teacher Education
		Unit - 2: In-service Teacher Education
Week13 t	to week 14	Internal Exam
Week 15 to 17	Departmental-19	Departmental-6 Sociological Foundations of Education
10 17	Practical	
	(Review of Related Literature on a given topic)	Unit – 4: Education and Social Problems
		Terrsm.
	EDCPCOR17P	Departmental-7 Pedagogical Studies
	Departmental-20	Unit- 1: Pedagogical Analysis
	& 21	
	Dissertation/Pr	Departmental-16 Curriculum Studies
	oject EDCPCOR18P	Unit - 1: Concept of Curriculum
	EDCPCORISP	Departmental-17 Education of Children with Diverse Needs
		Unit - 2: Types of Diverse Learners
		Departmental-18
		DSE-Teacher Education
		Unit - 2: In-service Teacher Education
		Critical Pedagogy – Meaning, Needs and its
		Departmental-8 Contemporary Issues and Trends in Education
		Unit-1: Education and Reservation
		Reservation for Differently Abled /Impaired.
		Departmental-10 Psychology of Learner & Learning Process
		Unit-3: Transfer of Learning
		Methods for enhancing Transfer of Learning
Week 18	Revision, Practise	Revision
	,	

Class: B.Sc.
Semester 1, 3, 5
Name of the Teacher: Prof. Narayan Chandra Basak
Subject: Mathematics Core

Paper: MTMACOR01T, MTMACOR05T, MTMADSE03T (Theory)

S. No.		Theory syllabus to be covered
Week 1 to	Sem 1	MTMACOR01T: Reflection properties of conics, translation and rotation of
Week 4		axes and second degree equations,
	Sem 3	MTMACOR05T: Limits of functions (ε - δ approach),
	Sem 5	MTMADSE03T: Sample space, probability axioms, real random variables
		(discrete and continuous), cumulative distribution function, probability
		mass/density functions, mathematical expectation, moments, moment
		generating function, characteristic function, discrete distributions: uniform,
		binomial, Poisson, geometric, negative binomial, continuous distributions:
	-	uniform, normal, exponential
Week 5 to	Sem 1	MTMACOR01T: Classification of conics using the discriminant, polar
Week 8		equations of conics
	Sem 3	MTMACOR05T: sequential criterion for limits, divergence criteria
	Sem 5	MTMADSE03T: Joint cumulative distribution function and its properties, joint
		probability density functions, marginal and conditional distributions,
		expectation of function of two random variables, conditional expectations,
		independent random variables, bivariate normal distribution, correlation
		coefficient, joint moment generating function (jmgf) and calculation of covariance (from jmgf), linear regression for two variables.
Week 9 to	Sem 1	MTMACOR01T: Spheres. Cylindrical surfaces. Central conicoids,
Week 12	SCIII I	paraboloids, plane sections of conicoids
WCCK 12	Sem 3	MTMACOR05T: Limit theorems, one sided limits
	Sem 5	MTMADSE03T: Chebyshev's inequality, statement and interpretation of
	Beni 3	(weak) law of large numbers and strong law of large numbers. Central Limit
		theorem for independent and identically distributed random variables with finite
		variance, Markov Chains, Chapman-Kolmogorov equations, classification of
		states
Week 13		Internal examination
to 14		
Week 15	Sem 1	MTMACOR01T: Revision of Generating lines, classification of quadrics,
to Week		Illustrations of graphing standard quadric surfaces like cone, ellipsoid
17	Sem 3	MTMACOR05T: : Infinite limits and limits at infinity
	Sem 5	MTMADSE03T: Random Samples, Sampling Distributions, Estimation of
		parameters, Testing of hypothesis
Week 18	Sem 1	MTMACOR01T: Revision and practice.
	Sem 3	MTMACOR05T: Revision and Practice.
	Sem 5	MTMADSE03T: Revision and Practice.

Class: B.Sc.
Semester 2, 4, 6
Name of the Teacher: Prof. Narayan Chandra Basak
Subject: Mathematics Core

Paper: MTMACOR04T, MTMACOR08T, MTMADSE04T (Theory)

S. No.		Theory syllabus to be covered
Week 1 to	Sem 2	MTMACOR04T: Triple product, introduction to vector functions.
Week 4	Sem 4	MTMACOR08T: Fourier series: Definition of Fourier coefficients and series.
	Sem 6	MTMADSE04T: General properties of polynomials, Graphical representation of a polynomial, maximum and minimum values of a polynomials, General properties of equations, Descarte's rule of signs positive and negative rule, Relation between the roots and the coefficients of equations
Week 5 to	Sem 2	MTMACOR04T: Operations with vector-valued functions.
Week 8	Sem 4	MTMACOR08T: Reimann Lebesgue lemma, Bessel's inequality, Parseval's
WCCR 0	Sem 4	identity, Dirichlet's condition, Examples of Fourier expansions and summation results for series
	Sem 6	MTMADSE04T: Symmetric functions. Applications of symmetric function of the roots. Transformation of equations. Solutions of reciprocal and binomial equations. Algebraic solutions of the cubic (Cardan's method) and biquadratic (Ferrari's method). Properties of the derived functions
Week 9 to	Sem 2	MTMACOR04T: Limits and continuity of vector functions.
Week 12	Sem 4	MTMACOR08T: Power series, radius of convergence, Cauchy Hadamard
		Theorem.
	Sem 6	MTMADSE04T: Symmetric functions of the roots, Newton's theorem on the
		sums of powers of roots, homogeneous products, limits of the roots of equations
Week 13		Internal examination
to 14		
Week 15	Sem 2	MTMACOR04T: Differentiation and integration of vector functions.
to Week	Sem 4	MTMACOR08T: Differentiation and integration of power series; Abel's
17		Theorem; Weierstrass Approximation Theorem
	Sem 6	MTMADSE04T: Separation of the roots of equations, Strums theorem.
		Applications of Strum's theorem, Conditions for reality of the roots of an
		equation. Solution of numerical equations
Week 18	Sem 2	MTMACOR04T: Revision and practice.
	Sem 4	MTMACOR08T: Revision and Practice.
	Sem 6	MTMADSE04T: Revision and Practice.

Class: B.Sc.
Semester 1, 3, 5
Name of the Teacher: Dr. Syamali Bhadra

Subject: Mathematics Core

Paper: MTMACOR01T, MTMACOR07T, MTMADSE01T, MTMSSEC01M (Theory)

S. No.		Theory syllabus to be covered
Week 1 to	Sem 1	MTMACOR01T: Reduction formulae, derivations and illustrations of
Week 4		reduction formulae for the integration of $\sin^n x$, $\cos^n x$, $\tan^n x$, $\sec^n x$, $(\log x)^n$,
		sin ⁿ x sin ^m x, parametric equations.
	Sem 3	MTMACOR07T: Algorithms, Convergence, Errors: Relative, Absolute. Round off, Truncation. Transcendental and Polynomial equations: Bisection method, Newton's method, Secant method, Regula-falsi method, fixed point iteration, Newton-Raphson method. Rate of convergence of these methods.
		MTMSSEC01M: Definition, Requirement of programming language, Machine language, high-level programming languages, machine code of a program: compilation process, Problem solving approaches: algorithm and flowchart.
	Sem 5	MTMACOR11T: Partial Differential Equations - Basic concepts and
		Definitions. Mathematical Problems. First- Order Equations: Classification, Construction and Geometrical Interpretation. Method of Characteristics for obtaining General Solution of Quasi Linear Equations. Canonical Forms of First-order Linear Equations. Method of Separation of Variables for solving first order partial differential equations
Week 5 to	Sem 1	MTMACOR01T: Parametrizing a curve, arc length, arc length of parametric
Week 8	Beni i	curves, area of surface of revolution. Techniques of sketching conics.
	Sem 3	MTMACOR07T: System of linear algebraic equations: Gaussian Elimination and Gauss Jordan methods. Gauss Jacobi method, Gauss Seidel method and their convergence analysis, LU Decomposition. Interpolation: Lagrange and Newton's methods, Error bounds, Finite difference operators. Gregory forward and backward difference interpolations. Numerical differentiation: Methods based on interpolations, methods based on finite differences.
		MTMSSEC01M: Built in Data Types: int, float, double, char; Constants and Variables; first program: printf(), scanf(), compilation etc., keywords, Arithmetic operators: precedence and associativity, Assignment Statements: post & pre increment/decrement, logical operators: and, or, not. Relational
		operators, if-else statement, Iterative Statements: for loop, while loop and do- while loop; controlling loop execution: break and continue, nested loop
	Sem 5	MTMACOR11T: Central force. Constrained motion, varying mass, tangent and normal components of acceleration, modelling ballistics and planetary motion, Kepler's second law
Week 9 to	Sem 1	MTMACOR01T: Differential equations and mathematical models. General,
Week 12		particular, explicit, implicit and singular solutions of a differential equation.
	Sem 3	MTMACOR07T: Interpolation: Lagrange and Newton's methods, Error bounds, Finite difference operators. Gregory forward and backward difference interpolations.
		MTMSSEC01M: Definition & requirement, declaration & initialization, indexing, one dimensional array: finding maximum, minimum, simple sorting and searching. Matrix Manipulations (Addition, Multiplication, Transpose)

		Arrays and Pointers, Memory allocation and deallocation: malloc() and free() functions.
	Sem 5	MTMADSE01T: Duality, formulation of the dual problem, primal-dual relationships, economic interpretation of the dual. Transportation problem and its mathematical formulation, northwest-corner method, least cost method and Vogel approximation method for determination of starting basic solution, algorithm for solving transportation problem, assignment problem and its mathematical formulation, Hungarian method for solving assignment problem.
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 1	MTMACOR01T: Exact differential equations and integrating factors, separable equations and equations reducible to this form, linear equation and Bernoulli equations, special integrating factors and transformations.
	Sem 3	MTMACOR07T: Numerical differentiation: Methods based on interpolations, methods based on finite differences. The algebraic eigenvalue problem: Power method. Ordinary Differential Equations: The method of successive approximations, Euler's method, the modified Euler method, Runge-Kutta methods of orders two and four. MTMSSEC01M: Why?, How to declare, define and invoke a function, Variables' scope, local& global variables and function parameters, Pointers, arrays as function parameters, return statement, Header files and their role. Illustrate different examples like swapping values, compute n!, nCr, find max/min from a list of elements, sort a set of numbers, matrix addition/multiplication etc.
	Sem 5	MTMADSE01T: Game theory: Formulation of two person zero sum games, solving two person zero sum games, games with mixed strategies, graphical solution procedure, linear programming solution of games.
Week 18	Sem 1	MTMACOR01T: Revision and practice.
	Sem 3	MTMACOR07T: Revision and Practice.
		MTMSSEC01M: Revision and Practice.
	Sem 5	MTMADSE01T & MTMACOR11T: Revision and Practice.

Class: B.Sc. Semester 2, 4, 6

Name of the Teacher: Dr. Syamali Bhadra

Subject: Mathematics Core

Paper: MTMACOR04T, MTMACOR08T, MTMSSEC02M, MTMACOR09T,

MTMADSE06T (**Theory**)

S. No.		Theory syllabus to be covered
Week 1 to	Sem 2	MTMACOR04T: Lipschitz condition and Picard's Theorem (Statement only).
Week 4		General solution of homogeneous equation of second order, principle of super
		position for homogeneous equation,
	Sem 4	MTMACOR08T: Improper integrals, Convergence of Beta and Gamma
		functions.
	Sem 6	MTMADSE06T: Co-planar forces. Astatic equilibrium. Friction. Equilibrium
		of a particle on a rough curve. Virtual work. Forces in three dimensions. General
		conditions of equilibrium. Centre of gravity for different bodies. Stable and
XX7 1 7 .	G 2	unstable equilibrium
Week 5 to	Sem 2	MTMACOR04T: Wronskian: its properties and applications, Linear
Week 8		homogeneous and non-homogeneous equations of higher order with constant coefficients, Euler's equation, method of undetermined coefficients, method of
		variation of parameters
	Sem 4	MTMACOR09T: Definition of vector field, divergence and curl. Line
	Dem 4	integrals, Applications of line integrals: Mass and Work. Fundamental theorem
		for line integrals, conservative vector fields, independence of path,
	Sem 6	MTMADSE06T: Equations of motion referred to a set of rotating axes. Motion
		of a projectile in a resisting medium. Stability of nearly circular orbits. Motion
		under the inverse square law. Slightly disturbed orbits. Motion of artificial
		satellites. Motion of a particle in three dimensions. Motion on a smooth sphere,
		cone, and on any surface of revolution.
Week 9 to	Sem 2	MTMACOR04T: System of linear differential equations, types of linear
Week 12		systems, differential operators, an operator method for linear systems with
	G 4	constant coefficients.
	Sem 4	MTMACOR09T: Green's theorem, surface integrals, integrals over
	Com 6	parametrically defined surfaces. Stoke's theorem, The Divergence theorem.
	Sem 6	MTMADSE06T: Degrees of freedom. Moments and products of inertia. Momental Ellipsoid. Principal axes. D'Alembert's Principle. Motion about a
		fixed axis. Compound pendulum.
Week 13		Internal examination
to 14		
Week 15	Sem 2	MTMACOR04T: Basic Theory of linear systems in normal form,
to Week		homogeneous linear systems with constant coefficients: Two Equations in two
17		unknown functions.
	Sem 4	MTMSSEC02M: Introduction, propositions, truth table, negation, conjunction
		and disjunction. Implications, biconditional propositions, converse, contra
		positive and inverse propositions and precedence of logical operators.

		Propositional equivalence: Logical equivalences. Predicates and quantifiers:
		Introduction, Quantifiers, Binding variables and Negations. Sets, subsets, Set
		operations and the laws of set theory and Venn diagrams. Examples of finite
		and infinite sets. Finite sets and counting principle. Empty set, properties of
		empty set. Standard set operations. Classes of sets. Power set of a set.
		Difference and Symmetric difference of two sets. Set identities, Generalized
		union and intersections. Relation: Product set. Composition of relations, Types
		of relations, Partitions, Equivalence Relations with example of congruence
		modulo relation. Partial ordering relations, n- ary relations
	Sem 6	MTMADSE06T: Motion of a rigid body in two dimensions under finite and
		impulsive forces. Conservation of momentum and energy.
Week 18	Sem 2	MTMACOR04T: Revision and practice.
	Sem 4	MTMACOR08T, MTMACOR09T& MTMSSEC02M: Revision and
		Practice.
	Sem 6	MTMADSE06T: Revision and Practice.

Class: B.Sc.

Semester 1, 3, 5 Name of the Teacher: Utpal Mondal

Subject: Mathematics Core and Mathematics General

Paper: MTMACOR02T, MTMGCOR01T, MTMACOR05T, MTMACOR06T,

MTMACOR12T(**Theory**)

S. No.		Theory syllabus to be covered
Week 1 to Week 4	Sem 1	MTMACOR02T: Polar representation of complex numbers, n-th roots of unity, De Moivre's theorem for rational indices and its applications. Theory of equations: Relation between roots and coefficients. MTMGCOR01T: Limit and Continuity (ε and δ definition), Types of discontinuities, Differentiability of functions.
	Sem 3	MTMACOR05T: Continuous functions, sequential criterion for continuity and discontinuity. Algebra of continuous functions. Continuous functions on an interval, intermediate value theorem, location of roots theorem, preservation of intervals theorem. Uniform continuity, non-uniform continuity criteria, uniform continuity theorem. MTMACOR06T: Properties of cyclic groups, classification of subgroups of cyclic groups.
	Sem 5	MTMACOR12T: Automorphism, inner automorphism, automorphism groups, automorphism groups of finite and infinite cyclic groups, applications of factor groups to automorphism groups, Characteristic subgroups, Commutator subgroup and its properties.
Week 5 to Week 8	Sem 1	MTMACOR02T: Theory of equations: Transformation of equation, Descartes rule of signs, Cubic (Cardan's method) and biquadratic equations (Ferrari's method). Inequality: The inequality involving AM≥GM≥HM, Cauchy-Schwartz inequality. MTMGCOR01T: Successive differentiation, Leibnitz's theorem, Partial
	Sem 3	differentiation, Euler's theorem on homogeneous functions. MTMACOR05T: Differentiability of a function at a point and in an interval, Caratheodory's theorem, algebra of differentiable functions. Relative extrema, interior extremum, theorem. Rolle's Theorem. Mean value theorem, intermediate value property of derivatives. MTMACOR06T: Cycle notation for permutations, properties of permutations, even and odd permutations, alternating group, properties of cosets, Lagrange's
	Sem 5	theorem and consequences including Fermat's Little theorem. MTMACOR12T: Properties of external direct products, the group of units modulo n as an external direct product, internal direct products, Fundamental Theorem of finite abelian groups.
Week 9 to Week 12	Sem 1	MTMACOR02T: Equivalence relations and partitions, Functions, Composition of functions, Invertible functions. MTMGCOR01T: Rolle's theorem, Mean Value theorems, Taylor's theorem with Lagrange's and Cauchy's forms of remainder.
	Sem 3	MTMACOR05T: Darboux's theorem. Applications of mean value theorem to inequalities and approximation of polynomials, Cauchy's mean value theorem. Taylor's theorem with Lagrange's form of remainder, Taylor's theorem with

	Sem 5	Cauchy's form of remainder, application of Taylor's theorem to convex functions, relative extrema. MTMACOR06T:External direct product of a finite number of groups, normal subgroups, factor groups, Cauchy's theorem for finite abelian groups. MTMACOR12T:Group actions, stabilizers and kernels, permutation representation associated with a given group action. Applications of group actions. Generalized Cayley's theorem. Index theorem.
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 1	MTMACOR02T: One to one correspondence and cardinality of a set. MTMGCOR01T: Taylor's series, Maclaurin's series of $sin x$, $cos x$, e^x , $log(l+x), (1+x)^n$.
	Sem 3	MTMACOR05T: Taylor's series and Maclaurin's series expansions of exponential and trigonometric functions, $\ln(1+x)$, $1/ax+b$ and $(1+x)^n$. Application of Taylor's theorem to inequalities. MTMACOR06T: Group homomorphisms, properties of homomorphisms, Cayley's theorem, properties of isomorphisms, First, Second and Third isomorphism theorems.
	Sem 5	MTMACOR12T: Groups acting on themselves by conjugation, class equation and consequences, conjugacy in S_n , p-groups, Sylow's theorems and consequences, Cauchy's theorem, Simplicity of A_n , for $n \ge 5$, non-simplicity tests.
Week 18	Sem 1	MTMACOR02T: Revision and practice. MTMGCOR01T: Revision and practice.
	Sem 3	MTMACOR01T: Revision and practice. MTMACOR05T: Revision and Practice. MTMACOR06T: Revision and Practice.
	Sem 5	MTMACOR12T: Revision and Practice.

Class: B.Sc.

Semester 2, 4, 6 Name of the Teacher: Utpal Mondal

Subject: Mathematics Core and Mathematics General

Paper: MTMACOR03T, MTMACOR08T, MTMACOR10T. MTMACOR13T,

MTMACOR14T(**Theory**)

S. No.		Theory syllabus to be covered
Week 1 to	Sem 2	MTMACOR03T: Review of Algebraic and Order Properties of \mathbb{R} , ε -
Week 4	20111 2	neighbourhood of a point in \mathbb{R} . Idea of countable sets, uncountable sets and
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		uncountability of \mathbb{R} . Bounded above sets, Bounded below sets, Bounded Sets,
		Unbounded sets. Suprema and Infima. Completeness Property of $\mathbb R$ and its
		equivalent properties.
		MTMGCOR02TLinear homogenous equations with constant coefficients,
		Linear non-homogenous equations.
	Sem 4	MTMACOR08T:Riemann integration: inequalities of upper and lower sums,
		Darbaux integration, Darbaux theorem, Riemann conditions of integrability,
		Riemann sum and definition of Riemann integral through Riemann sums,
		equivalence of two Definitions.
		MTMACOR10T: Definition and examples of rings, properties of rings,
		subrings, integral domains and fields, characteristic of a ring. Ideal, ideal
		generated by a subset of a ring, factor rings, operations on ideals, prime and
		maximal ideals
	Sem 6	MTMACOR13T: Continuous mappings, sequential criterion and other
		characterizations of continuity, Uniform continuity.
		MTMACOR14T:Polynomial rings over commutative rings, division algorithm
		and consequences, principal ideal domains, factorization of polynomials,
		reducibility tests, irreducibility tests, Eisenstein criterion, and unique
		factorization in Z [x]. Divisibility in integral domains, irreducible, primes,
		unique factorization domains, Euclidean domains.
Week 5 to	Sem 2	MTMACOR03T: The Archimedean Property, Density of Rational (and
Week 8		Irrational) numbers in \mathbb{R} , Intervals. Limit points of a set, Isolated points, Open
		set, closed set, derived set, Illustrations of Bolzano-Weierstrass theorem for sets,
		compact sets in \mathbb{R} , Heine-Borel Theorem.
		MTMGCOR02T: The method of variation of parameters, The Cauchy-Euler
		equation, Simultaneous differential equations, Total differential equations
	Sem 4	MTMACOR08T:Riemann integrability of monotone and continuous
		functions, Properties of the Riemann integral; definition and integrability of
		piecewise continuous and monotone functions.
		MTMACOR10T: Ring homomorphisms, properties of ring homomorphisms.
		Isomorphism theorems I, II and III, field of quotients
	Sem 6	MTMACOR13T:Connectedness,connected subsets of R. Compactness:
		Sequential compactness, Heine-Borel property.
		MTMACOR14T:Dual spaces, dual basis, double dual, transpose of a linear
		transformation and its matrix in the dual basis, annihilators. Eigen spaces of a
		linear operator, diagonalizability, invariant subspaces and Cayley-Hamilton
		theorem, the minimal polynomial for a linear operator, canonical forms.
	Sem 2	MTMACOR03T: Sequences, Bounded sequence, Convergent sequence, Limit
		of a sequence, liminf, lim sup. Limit Theorems. Monotone Sequences,

Week 9 to		Monotone Convergence Theorem. Subsequences, Divergence Criteria.
Week 12		Monotone Subsequence Theorem (statement only).
		MTMGCOR02T: Order and degree of partial differential equations, Concept
		of linear and non-linear partial differential equations, Formation of first order
		partial differential equations.
	Sem 4	MTMACOR08T: Intermediate Value theorem for Integrals, Fundamental
		theorem of Integral Calculus.
		TMACOR10T: Vector spaces, subspaces, algebra of subspaces, quotient
		spaces, linear combination of vectors, linear span, linear independence, basis and
		dimension, dimension of subspaces.
	Sem 6	MTMACOR13T: Totally bounded spaces, finite intersection property, and
		continuous functions on compact sets.
		MTMACOR14T:Inner product spaces and norms, Gram-Schmidt
		orthogonalisation process, orthogonal complements, Bessel's inequality, the
		adjoint of a linear operator, Least Squares Approximation, minimal solutions to
		systems of linear equations
Week 13		Internal examination
to 14		
Week 15	Sem 2	MTMACOR03T: Bolzano Weierstrass Theorem for Sequences. Cauchy
to Week		sequence, Cauchy's Convergence Criterion.
17		MTMGCOR02T: Lagrange's method, Charpit's method. Classification of
		second order partial differential equations into elliptic, parabolic and hyperbolic
		through illustrations only
	Sem 4	MTMACOR10T: Introduction to linear transformations, Subspaces,
		dimension of subspaces, null space, range, rank and nullity of a linear
		transformation, matrix representation of a linear transformation, algebra of linear
		transformations. Isomorphisms. Isomorphism theorems, invertibility and
ļ	C C	isomorphisms, change of coordinate matrix.
ļ	Sem 6	MTMACOR13T: Homeomorphism, Contraction mappings, Banach Fixed
		point Theorem and its application to ordinary differential equation. MTMACOR14T: Normal and self-adjoint operators, Orthogonal projections and
		Spectral theorem
Week 18	Sem 2	MTMACOR03T: Revision and practice.
WCCK 10	Selli 2	*
	Sem 4	MTMGCOR02T: Revision and practice.
	Sem 4	MTMACOR08T& MTMACOR10T: Revision and Practice.
	Sem 6	MTMACOR13T& MTMACOR14T: Revision and Practice.

Class: B.Sc. Semester 1, 3, 5

Name of the Teacher: Dr. Shib Sankar Giri

Subject: Mathematics Core and Mathematics General

Paper: MTMACOR01T, MTMACOR02T, MTMGCOR01T, MTMACOR06T,

MTMACOR11T, MTMADSE01T (Theory)

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S. No.	Theory syllabus to be covered		
Week 1 to	Sem 1	MTMACOR01T: Hyperbolic functions, higher order derivatives, Leibnitz rule	
Week 4		and its applications to problems of type $e^{ax+b} \sin x$, $e^{ax+b} \cos x (ax+b)^n \sin x$, $(ax+b)^n$	
		cosx, concavity and inflection points, envelopes, asymptotes, curve tracing in	
		Cartesian coordinates, tracing in polar coordinates of standard curves,	
		L'Hospital's rule, applications in business, economics and life sciences	
	G 0	MTMGCOR01T: Tangents and Normals, Curvature,	
	Sem 3	MTMACOR06T: Symmetries of a square, Dihedral groups, definition and	
		examples of groups including permutation groups and quaternion groups	
	G 5	(through matrices)	
	Sem 5	MTMACOR11T: Derivation of Heat equation, Wave equation and Laplace	
		equation. Classification of second order linear equations as hyperbolic, parabolic	
		or elliptic.	
XX 1.5.4	G 1	MTMACOPOTT: NY, II	
Week 5 to	Sem 1	MTMACOR02T: Well-ordering property of positive integers, Division	
Week 8		algorithm, Divisibility and Euclidean algorithm. Congruence relation between integers. Principles of Mathematical Induction, statement of Fundamental	
		Theorem of Arithmetic	
		MTMGCOR01T: Asymptotes, Singular points, Tracing of curves	
	Sem 3	MTMACOR06T: Elementary properties of groups	
	Sem 5	MTMACOR001: Elementary properties of groups MTMACOR11T: Reduction of second order Linear Equations to canonical	
	Seili 3	forms. The Cauchy problem, Cauchy-Kowalewskaya theorem, Cauchy problem	
		of an infinite string, Initial Boundary Value Problems	
		MTMADSE01T: Theory of simplex method, graphical solution, convex sets,	
Week 9 to	Sem 1	MTMACOR02T: Matrix, inverse of a matrix, characterizations of invertible	
Week 12	Belli I	matrices. Rank of a matrix	
*** CCR 12		MTMGCOR01T: Parametric representation of curves and tracing of	
		parametric curves, Polar coordinates and tracing of curves in polar coordinates	
	Sem 3	MTMACOR06T: Subgroups and examples of subgroups, centralizer,	
	Sem 5	MTMACOR11T: Semi-Infinite String with a fixed end, Semi-Infinite String	
Week 13		Internal examination	
to 14			
Week 15	Sem 1	MTMACOR02T: Eigen values, Eigen Vectors and Characteristic Equation of	
to Week		a matrix. Cayley-Hamilton theorem and its use in finding the inverse of a matrix	
17		MTMGCOR01T: Maxima and Minima, Indeterminate forms	
	Sem 3	MTMACOR06T: Normalizer, center of a group, product of two subgroups	
to 14 Week 15 to Week	Sem 1	with a Free end. Equations with non-homogeneous boundary conditions. MTMADSE01T: optimality and unboundedness, the simplex algorithm, simplex method in tableau format, introduction to artificial variables. Internal examination MTMACOR02T: Eigen values, Eigen Vectors and Characteristic Equation of a matrix. Cayley-Hamilton theorem and its use in finding the inverse of a matrix MTMGCOR01T: Maxima and Minima, Indeterminate forms	

	Sem 5	MTMACOR11T: Non-Homogeneous Wave Equation. Method of separation
		of variables, Solving the Vibrating String Problem. Solving the Heat Conduction
		problem.
		MTMADSE01T: Two-phase method Big-M method and their comparison
Week 18	Sem 1	MTMACOR01T and MTMACOR02T: Revision and practice.
		MTMGCOR01T: Revision and practice.
	Sem 3	MTMACOR06T: Revision and Practice.
	Sem 5	MTMACOR11T: Revision and Practice.
		MTMADSE01T: Revision and Practice.

Class: B.Sc. Semester 3

Name of the Teacher: Dr. Shib Sankar Giri

Subject: Mathematics Core Paper: MTMACOR07P (Practical)

S. No.	Practical syllabus to be covered	
Week 1 to	Sem 3	MTMACOR07P: Calculate the sum $1/1 + 1/2 + 1/3 + 1/4 + + 1/N$. Enter
4		100 integers into an array and sort them in an ascending order. Solution of
		transcendental and algebraic equations by a. Bisection method b. Newton
		Raphson method. c. Secant method. d. Regula Falsi method.
Week 5 to	Sem 3	MTMACOR07P: Solution of system of linear equations a. LU decomposition
8		method b. Gaussian elimination method c. Gauss-Jacobi method d. Gauss-
		Seidel method. Interpolation a. Lagrange Interpolation b. Newton Interpolation
Week 9 to	Sem 3	MTMACOR07P: Numerical Integration a. Trapezoidal Rule b. Simpson's
12		one third rule c. Weddle's Rule d. Gauss Quadrature, Method of finding
		Eigenvalue by Power method, Fitting a Polynomial Function
Week 13		Internal examination
to 14	~ 4	
Week 15	Sem 3	MTMACOR07P: Solution of ordinary differential equations a. Euler method
to Week 17		b. Modified Euler method c. Runge Kutta method
Week 18	Sem 3	MTMACOR07P: Revision and Practice.

Class: B.Sc. Semester 2, 4, 6

Name of the Teacher: Dr. Shib Sankar Giri

Subject: Mathematics Core and Mathematics General

Paper: MTMACOR04T, MTMACOR08T, MTMADSE04T (Theory)

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S. No.	Theory syllabus to be covered	
Week 1 to	Sem 2	MTMACOR04T: Equilibrium points, Interpretation of the phase plane,
Week 4		MTMGCOR02T: First order exact differential equations. Integrating factors,
		rules to find an integrating factor.
	Sem 4	MTMACOR08T: Pointwise and uniform convergence of sequence of
		functions. Theorems on continuity, derivability and integrability of the limit
		function of a sequence of functions. Series of functions, Theorems on the
		continuity and derivability of the sum function of a series of functions; Cauchy criterion for uniform convergence and Weierstrass M-Test.
	Sem 6	MTMACOR13T: Metric spaces: Definition and examples. Open and closed
	Selli 0	balls, neighbourhood, open set, interior of a set. Limit point of a set, closed set,
		diameter of a set, subspaces, dense sets, separable spaces. Sequences in Metric
		Spaces, Cauchy sequences. Complete Metric Spaces, Cantor's theorem.
Week 5 to	Sem 2	MTMACOR04T: Power series solution of a differential equation about an
Week 8		ordinary point, solution about a regular singular point
		MTMGCOR02T: First order higher degree equations solvable for x, y, p.
	Sem 4	MTMACOR09T: : Functions of several variables, limit and continuity of
		functions of two or more variables Partial differentiation, total differentiability
		and differentiability, sufficient condition for differentiability. Chain rule for one
		and two independent parameters, directional derivatives, the gradient, maximal
		and normal property of gradient, tangent planes, Extrema of functions of two variables, method of Lagrange multipliers, constrained optimization problems.
	Sem 6	MTMACOR13T: Limits, Limits involving the point at infinity, continuity.
	Sciii 0	Properties of complex numbers, regions in the complex plane, functions of
		complex variable, mappings. Derivatives, differentiation formulas, Cauchy-
		Riemann equations, sufficient conditions for differentiability.
Week 9 to	Sem 2	MTMACOR03T: Infinite series, convergence and divergence of infinite series,
Week 12		Cauchy Criterion, Tests for convergence: Comparison test, Limit Comparison
		test, Ratio Test, Cauchy's nth root test,
		MTMGCOR02T: Methods for solving higher-order differential equations.
	Sem 4	MTMACOR09T: Double integration over rectangular region, double
		integration over non-rectangular region, Double integrals in polar co-ordinates,
		Triple integrals, Triple integral over a parallelepiped and solid regions. Volume
	Som 6	by triple integrals, cylindrical and spherical coordinates. MTM A COP 13T: Applytical functions are applytical functions.
	Sem 6	MTMACOR13T: Analytic functions, examples of analytic functions, exponential function, Logarithmic function, trigonometric function, derivatives
		of functions, and definite integrals of functions. Contours, Contour integrals and
		its examples, upper bounds for moduli of contour integrals. Cauchy- Goursat
		theorem, Cauchy integral formula
Week 13		Internal examination
to 14		
	Sem 2	MTMACOR03T: Integral test. Alternating series, Leibniz test. Absolute and
		Conditional convergence.

Week 15		MTMGCOR02T: Basic theory of linear differential equations, Wronskian, and	
to Week		its properties. Solving a differential equation by reducing its order.	
17	Sem 4	MTMACOR09T: Change of variables in double integrals and triple integrals.	
	Sem 6	MTMACOR13T: Liouville's theorem and the fundamental theorem of algebra.	
		Convergence of sequences and series, Taylor series and its examples, Laurent	
		series and its examples, absolute and uniform convergence of power series.	
Week 18	Sem 2	MTMACOR04T: Revision and practice.	
		MTMGCOR02T: Revision and practice.	
	Sem 4	MTMACOR08T: Revision and Practice.	
		MTMACOR09T: Revision and Practice.	
	Sem 6	MTMACOR13T: Revision and Practice.	

Teaching Plan for Odd Semester, UG course Department of Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 1,3 and 5. Name of the Teacher: Dr Sankha Priya Guha

Subject: Anthropology

Paper: ANTACOR01T, ANTACOR05T, 12T (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)
	be mentioned)	
Week 1		ANTCOR01T, Unit – II: Concepts of Society and Culture
to week 4		(Definitions and salient features) 1. Society, Group, Community
		Old 3 rd Year: Tribal Development in India.
Week 5 to	Field work Preparation	ANTCOR01T Unit II: Social Institution, Social Unit, Social
week 8		Association, Social Fact, Socialization, Social System (Social
		Structure & Social function), Status and Role, Social
		Stratification, Gender, Ethnicity.
		ANTACOR05T UNIT 1: Anthropological concept of tribes
		i. General traditional concept of tribes (Meaning and
		Criteria)
		UNIT 1: Anthropological concept of tribes
		General traditional concept of tribes (Meaning and
		ANTEGORATE VI. 14 VI. G. 11 VII. G. 11 V
Week 9 to		ANTCOR01T Unit II: Social Institution, Social Unit, Social
Week 12		Association, Social Fact, Socialization, Social System (Social
		Structure & Social function), Status and Role, Social
		Stratification, Gender, Ethnicity.
Week 13		
		ANTACOR05T: UNIT 2:
		Tribes and wider world
		i. The history of tribal administration
		Traditional political organization of the Santals, the Garos,
		the Todas, the Chenchus
		ANTACOR12T
		Unit I: Applied fields of Anthropology
		Applied, Action and Development Anthropology:
		Definition, Meaning and Historical Development and Empirical examples from projects.
Week1	3 to week 14	Internal Exam
WCCKI	S to week 17	Internal Padin
Week 15		ANTACOR12T
to 17		Unit II: Role of Anthropology in Development
		Introduction to the Concepts of Development
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of

Anthropology

Session (2022-2023)

Class: B. Sc

Semester 1,3, and 5 Name of the Teacher: Dr. Bandana Chakrabarti

Subject: Anthropology

Paper: ANTACOR04T, ANTACOR05T, 12T, DSE01 (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4		ANTACOR04TUnit-IV: The origin of Homo sapiens: Fossil evidences of Neanderthals: Classic Neandertals (La-Chapelle-Aux – saints), Progressive Neandertals (Tabun); Archaic Homo sapiens. Unit-V: Origin of modern humans (Homo sapiens sapiens): Cro-Magnon, Grimaldi, Chancelade: Distribution and features and their phylogenetic status. Unit-VI: Hominization process, Bio-cultural evolution of Man. Suggested Readings ANTADSE01T: INDIAN ARCHAEOLOGY
Week 4 to week 8		ANTACOT12T.Unit II: Role of Anthropology in Development Introduction to the Concepts of Development Anthropology & Anthropology of Development. Sustainable Development: Meaning, Characters and Empirical Projects. Concept of Development and Welfare;
Week 8 to Week 12		ANTACOR05TUnit 3: Anthropological study of Peasants i. The concept of peasantry (definition and type) ii. Approaches to the study of peasants – economic, political and cultural. iii. Characteristics of Indian village: social organization; economy iv. Tradition and changes in Indian villages v. Caste and peasantry in India: origin history and present situation. vi. Changes in traditional caste system in India.
Week 13		ANTACOT12T.Unit II: Role of Anthropology in Development Development of tribal communities in India in relation to Economic, Social Educational, Health & Environmental concern (Development programmes): Role of NGOs in Development Anthropology
Week13	3 to week 14	Internal Exam
Week 15 to 17		ANTACOR05T Unit 3: Anthropological study of Peasants ANTADSE01T: INDIAN ARCHAEOLOGY
Week 18		Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for Odd Semester, UG course Department of

Anthropology

Session 2022-2023

Class: B. Sc

Semester 1, 3 and 5. Name of the Teacher: Dr Sudesna Chanda

Subject: Anthropology

Paper: ANTACOR01T,01P. ANTACOR06T, 07T, 6P,11T, DSE2T (Theory and Practical)

S. No	Practical works to be covered (Paper	Theory topics to be covered (Paper code to be mentioned)
	code to be mentioned)	intoly topics to so to to read (rupti tout to so members)
Week 1 to week 4	ANTACOR06P Craniometric Measurements (Skull & Mandible) (Direct measurements on at least 3 human skulls) Determination ABO and Rh(D) blood groups of ten subjects by direct slide method. Dermatoglyphics Paper 7/ Practical ANTACOR11P: HUMAN POPULATION GENETICS	ANTACOR01T/ Unit — I: Biological Anthropology: Definition, aim and scope; it's approaches — Bio-cultural, comparative and evolutionary. Concepts and application of adaptation and evolution in Biological anthropology Unit — II: Theories of organic evolution: Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism, Synthetic theory, Neutral theory; Some basic concepts of Evolution: Speciation - Allopatric, Parapatric, Sympatric ANTADSE02T: ANTHROPOLOGY OF HEALTH Theory ANTACOR06T: HUMAN ECOLOGY: BIOLOGICAL & CULTURAL DIMENSIONS ANTACOR11T: HUMAN POPULATION GENETICS
Week 5 to week 9	ANTACOR01P Unit – I: Identification of Human cranium – it's different normas – norma verticalis; norma lateralis; norma occipitalis;	ANTACOR01T Unit – IV: Human skeletal anatomy and functional morphology of bones as parts of total skeleton; relevance of studying human anatomy as a part of anthropology, classification of bones, their anatomical positions and functions.
	norma basalis; norma frontalis; Identification of Cranial bones: Frontal, Parietal, Temporal, Occipital, Maxilla, Zygomatic, Sphenoid, Mandible	Unit – III: Study of Primates in evolution: 1. Primates: Definition, characteristics. 2. Classification of living primates up to family level with example (Simpson); concepts of Strepsirrhini and haplorrhine. ANTACOR07T: BIOLOGICAL DIVERSITY IN HUMAN POPULATIONS ANTACOR11T: HUMAN POPULATION GENETICS
Week 8 to Week 12	ANTACOR01P Unit – I Identification, anatomical position and side determination of Post- Cranial Bones: Scapula, Clavicle, Femur, Tibia, Fibula, Humerus, Radius, Ulna.	ANTACOR01T Unit – III: Study of Primates in evolution: 3. Primate evolutionary trends: limbs & locomotion, teeth & diet, senses, brain & behavior. Morphological and anatomical features of apes. Unit – IV: Human skeletal anatomy and functional morphology of bones as parts of total skeleton
Week 13	Paper 7/ Practical 1. Craniometric Measurements Linear: Maximum Cranial Length, Maximum Cranial Breadth, Morphological Facial Height, ANTACOR11P: HUMAN POPULATION GENETICS	ANTACOR01T Unit – IV: Human skeletal anatomy and functional morphology of bones as parts of total skeleton ANTACOR 06T, Unit III: Concepts of acclimatization, adaptation and adaptability; Adaptation to various ecological stressors: Temperature, Altitude and Nutrition; ANTACOR11TUnit V: Population structure and admixture in human populations ANTADSE02T: ANTHROPOLOGY OF HEALTH Theory
Week13	to week 14	Internal Exam
Week 15	ANTACOR11P: HUMAN	
to 17	POPULATION GENETICS Laboratory	ANTACOR07T/Unit IV: Modern concepts of population
	Note book	ANTACOR11T: HUMAN POPULATION GENETICS

Anthropology

Session (2022-2023)

Class: B. Sc

Semester 1, 3 and 5 Name of the Teacher: Dr Krishnendu Polley

Paper: ANTACOR01P, 02T, 05P, 12T, DSE1T (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4		ANTACOR02TUnit II: Concepts of society and Culture (Brief notes on meaning, definition and salient features) Society, Group, Community, Social Institution, Social Unit, ANTACOR04TUnit-IV: The origin of Homo sapiens: Fossil evidences of Neanderthals: Classic Neandertals (La-Chapelle-Aux – saints), Progressive Neandertals (Tabun); Archaic Homo sapiens.
Week 5 to week 9	ANTACOR01P Unit – I: Typo-technological attributes, cultural ages, probable functions, method of hafting, identification of cortex,	ANTACOR05T Unit 3: Anthropological study of Peasants The concept of peasantry (definition and type) Approaches to the study of peasants – economic, political and cultural. Characteristics of Indian village: social organization; economy ANTACOR04TUnit-IV: Unit-V: Origin of modern humans (Homo sapiens sapiens): Cro-Magnon, Grimaldi, Chancelade: Distribution and features and their phylogenetic status. Unit-VI: Hominization process, Bio-cultural evolution of Man. Suggested Readings
Week 8 to Week 12	ANTACOR01P Unit – II: Osteology	ANTACOR05T Unit 3: Tradition and changes in Indian villages Caste and peasantry in India: origin history and present situation. Changes in traditional caste system in India
Week 13		ANTACOR06T, Unit VI: Ecological themes of state formation: Neolithic revolution, ii. Hydraulic theory; Agriculture and peasantry; Industrial civilization and growth of urban societies. Unit I: Applied fields of Anthropology Applied, Action and Development Anthropology: Definition, Meaning and Historical Development and Empirical examples from projects. Brief discussion on modernization, dependency and world systems theory of Development Issues.
Week13	to week 14	Internal Exam
Week 15 to 17	Laboratory Note-Book	ANTACOR12T, Unit IV: Anthropology and Development in Indian Context
Week 18	Revision	Revision

$\underline{\textbf{Teaching Plan for \ Odd Semester, UG course}}\ \underline{\textbf{Department of Anthropology}}$

Session (2022 -2023)

Class: B.Sc.

Semester 1,3,5 Name of the Teacher: Kaushik Bhattacharya

Paper: ANTACOR01T, 05T, 12T, DSE3T (Theory and Practical)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1 to week 4		ANTACOR01TUnit – I: 1. Fundamentals of Social-Cultural Anthropology: Definition, aim & scope, Distinctiveness - Holism, Cultural Relativism and Cross Cultural Comparison, Fieldwork in Anthropology - Importance and Genesis.
Week 5 to week 9	ANTA02P: Writing ONE CASE STUDY on any one of the following events from one family - Birth, Marriage, Death, Thread Ceremony.	ANTACOROIT Concepts of the major sub-fields: Economic Anthropology, Political Anthropology, Anthropology of Religion, Psychological Anthropology, Cognitive Anthropology, Medical Relationship with Social Sciences: Economics, Geography, History, Political Science, Psychology, Sociology.
Week 8 to Week 12	ANTA02P : Household ritual (e.g. Pujas/ brotos, religious ritual and festival of other communities).	Unit III: Religion: Definition and Anthropological approach; Animism, Animatism, Manaism, Totemism; Magic and Religion.
		ANTACOR05T UNIT 2: Tribes and wider world The history of tribal administration Traditional political organization of the Santals, the Garos, the Todas, the Chenchus Constitutional safeguards for the Indian tribes
Week 13		ANTACOR05T UNIT Tribes and wider world Issues of acculturation assimilation and integration Impact of development schemes and programmes on tribal life
Week13 to	week 14	Internal Exam
Week 15	Laboratory	ANTACOR05T.Unit 4: Ethnicity in India
to 17	Note-Book	i. Concepts and meaning of ethnicity ii. Tribal and peasant movements in colonial and post- colonial India ANTADSE03P: TRIBAL CULTURES AND TRIBAL DEVELOPMENT IN INDIA
Week 18	Revision	Revision

Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 1,3,5 Name of the Teacher: Kartik Chakraborty

Paper: ANTACOR01T, ANTACOR05T,12T, 1P, 6P, DSE3T (Theory and Practical)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	incorp topics to be covered (1 aper code to be inclidence)
Week 1	ANTA01P/UnitII:	ANTACOR01T/ Unit III,4. Primate evolutionary trends:
to week 4		limbs & locomotion, teeth & diet, senses, brain & behavior.
	Anthroposcopy (at-	Morphological and anatomical features of apes viz. gibbons,
	least 10 subjects):	orangutan, chimpanzee, gorillas. Comparison of
	Assessment of skin	morphological and anatomical features of humans and apes
	color: exposed	r · · · · · · · · · · · · · · · · · · ·
	(forehead) and	ANTACOR05T Unit 3:
	unexposed (inner	Anthropological study of Peasants
	surface of the upper	The concept of peasantry (definition and type)
	arm). Head Hair: form,	Approaches to the study of peasants – economic, political
	color, texture, quantity,	and cultural.
	whorl (number and	Characteristics of Indian village: social organization;
	type), hair limit.	economy
	ANTACOR06P: HUMAN	Tradition and changes in Indian villages
	ECOLOGY: BIOLOGICAL &	Caste and peasantry in India: origin history and present
	CULTURAL DIMENSIONS	situation.
		Changes in traditional caste system in India.
Week 5 to week	ANTA01P: Facial Hair:	ANTACOR01T/ Concepts of the major sub-fields:
8	beard and moustache. Nose:	Concept and brief overview of Linguistic
	depression of the nasal root,	Anthropology.
	height of the nasal bridge, nasal	Relationship with Social Sciences: Economics,
	profile, tip of the nose,	Geography, History, Political Science, Psychology,
	inclination of the septum, nasal	Sociology.
	wings. Ear: size, shape, ear lobe	ANTACOR12T: ANTHROPOLOGY IN PRACTICE
	(size, form and attachment),	ANTADSE03P: TRIBAL CULTURES AND TRIBAL
	hypertrichosis of ear.	
	hypertrichosis of car.	DEVELOPMENT IN INDIA
Week 9 to	ANTA02P : Household ritual (e.g.	ANTACOR05T Unit III: Religion: Definition and
Week 12	Pujas/ brotos, religious ritual and	Anthropological approach; Animism, Animatism,
	festival of other communities).	Manaism, Totemism; Magic and Religion.
	·	Transin, Totellisin, Tragic and Teligion.
W 1 12		IDVIDO DE LA
Week 13	ANTACOR06P: HUMAN	ANTACOR05T UNIT 2: Tribes and wider world
	ECOLOGY: BIOLOGICAL &	ANTACOR12T: ANTHROPOLOGY IN PRACTICE
	CULTURAL DIMENSIONS	ANTADSE03P: TRIBAL CULTURES AND TRIBAL
		DEVELOPMENT IN INDIA
Week13	to week 14	Internal Exam
W1-15	[• • ·	ANTA CODOST Unit A. Ethnicitarin India
Week 15 to 17	Laborator	ANTACOR05T Unit 4: Ethnicity in India
to 17	y Note-	Concepts and meaning of ethnicity, Tribal and peasant
	Book	movements in colonial and post-colonial India
		ANTACOR12T: ANTHROPOLOGY IN PRACTICE
Week 18	Revision	Revision
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<u>Teaching Plan for Odd Semester, UG course</u> <u>Department of</u>

Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 1, 3,5 Name of the Teacher: Soumita Biswas
Paper: ANTACOR02T, 05T, 12T,2P, DSE3T (Theory and Practical)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	Theory topics to be covered (raper code to be mentioned)
Week 1	(Faper code to be mentioned)	ANTACOR02T
to week 4		Unit – III: Social Organization:
		1. Family: Definition, Types & Functions, Changes due
		to Industrialization & Urbanization (with special
		reference to Indian Context).
Week 5 to wee	ek ANTAOOD Writing ONE	ANTACOR02T
8	ANTA02P: Writing ONE	Unit – III/ 2. Marriage: Definition, Types,
	CASE STUDY on any one	Preferential & Prescribed forms of marriage,
	of the following events	Functions of marriage, Universality of marriage,
	from one family - Birth,	Incest taboo, Ways of acquiring mates in tribal
	Marriage, Death, Thread	society, Forms of marital transaction and exchange
	Ceremony, Household	theory (Dowry, Bride price, Gift), Post-marital
	ritual (e.g. <i>Pujas/ brotos</i> ,	residence, Divorce & Remarriage.
	religious ritual and festival	residence, Divorce & Remainage.
	of other communities).	ANTADSE03P: TRIBAL CULTURES AND TRIBAL
		DEVELOPMENT IN INDIA
Week 9 to	ANTA02P: Drawing ONE	Kinship: Definition, Structure of kinship (Murdock);
Week 12	GENEALOGICAL CHART	Function of kinship, Kinship behaviour - Avoidance,
	(with kinship terminology)	Joking, Couvade, Teknonymy;
	of one family(Minimum 3	ANTACOR12T
	generations).	Unit IV: Anthropology and Development in Indian
	generations).	Context
		Major tool used in rural development and management-
		RRA and PRA; Local Self-Government (Constitutional
		provisions, Composition, Electoral Process, Membership,
		Functions, importance in decentralization of power) -
		Rural (Panchayat Raj System), Urban (Municipality and
Week 13	Dramanation of SCHEDIH E /	Municipal Corporation).
WCCK 13	Preparation of SCHEDULE / QUESTIONNAIRE any one of	ANTACOR05T, Unit 3: Anthropological study of Peasants
	•	
	the following:	Approaches to the study of peasants – economic, political and cultural.
	Enumeration form (Census)	Tradition and changes in Indian villages
	Schedule for understanding	Caste and peasantry in India: origin history
	Economic Pursuit	Changes in traditional caste system in India.
	Schedule for understanding	
	Political Organization	ANTADSE03P: TRIBAL CULTURES AND TRIBAL DEVELOPMENT IN INDIA
Week13	3 to week 14	Internal Exam
Week 15		Unit IV:
to 17		Concept of
		Ethnicity
Week 18	Revision	Revision

Anthropology

Session (2022-2023)

Class B.Sc. Semester 2,4,6

Name of the Teacher: Dr Sankha Priya

Guha

Paper: ANTACOR04T, 08T,14T, DSE5T (Theory and Practical)

S. No Practical works to be covered (Paper code to be mentioned) Week 1 to week 4 Definition and scope of Archaeological Arc	d)
Week 1 to week 4 ANTACOR04T: unit I: Introduction to Archaeological A Definition and scope of Archaeological A	
to week 4 Introduction to Archaeological A Definition and scope of Archaeological A	
Definition and scope of Archaeological A	
Definition and scope of Archaeological A	nthropology:
anthropology and other natural sciences.	, ,
ANTACOR14T: ANTHROPOLOGY OF I	INDIA Unit - I :
Indian Anthropology: Origin, History, Growth a	and Development
of Anthropology (Mentioning Phases or Stages);	•
Week 5 to week ANTACOR04T: unit I	
A brief introduction to different cultural stages	in Prehistory and
Protohistory;	
ANTACOR08T UNIT I:	
Theory: What is it? How to frame a theory? The Bo	oundaries of
theory; Importance of studying theory in Social Sci	
Social-Cultural Anthropology in particular, Ninete	<u> </u>
Sould cultural interesting, in particular, i times	
ANTADSE05T: RURAL AND URBAN ANTHR	ROPOLOGY
	101 020 0 1
Week 9 to Unit III: Religion: Definition and Anthropologic	cal approach;
Animism, Animatism, Manaism, Totemism; Magic and	Religion.
ANTACOR14TUnit - I:	
S.C. Roy, I. Karve, D.N. Majumdar, N.K. Bose, M.	N. Srinivas, L.P.
Vidhyarthi, T.C. Das, P.K. Bhowmick, Busoga and S	S.S. Sarkar, SRK
Chopra, HD Sankalia, D. Sen, D.K. Bhattachar	rya; Racial and
Linguistic elements in Indian population;	
W. 1.12	
Week 13 ANTACOR04T, Dryopithecus, Sivapithecus, distribu	tion, features and
their phylogenetic relationships	
ANTACOR08T.UNIT II	
Cultural Relativism, Historical particularism: theories.	
Week13 to week 14 Internal Exam	
Week 15 ANTACODORT	
to 17 Laboratory ANTACORUST	
Note-Book UNIT I	
Century Evolutionism: E.B. Tylor and L.H. Morg	an.
Neo-Evolutionism: L White; Multilinear Evolutio	n: Julian
Steward.	
See ward.	
ANTE DODOGTE DID IT AND UPD IN ANTENDED	ODOLOGY
ANTADSE05T: RURAL AND URBAN ANTHR	ROPOLOGY
Week 18 Revision Revision	

Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 2,4 6 Name of the Teacher: Dr Bandana Chakraborti

Paper: ANTACOR03T, ANTACOR03P, ANTACOR10T, (Theory and Practical)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
	(Paper code to be mentioned)	
Week 1 to week 4	ANTACOR03P/ Unit – I: Drawing and labeling of Tool types: Identification of Typotechnological attributes, cultural ages, probable functions,	ANTACOR03T/Unit – II: Unit –II: Methods of Estimation of time in archaeology: Concept of chronology in Prehistory, Following dating methods are to be studied based on the points - discovery, first use, datable material, basic principle, precautions, method of sample collection, advantages and disadvantages, specific examples; Methods of dating: Stratigraphy, Typo-technological analysis, C14, K/Ar, Dendrochronology, TL; Concept of Absolute (Chronometric) and Relative (Non-Chronometric) dating methods.
Week 5 to week 8 Week 9 to Week 12	ANTACOR03P/ Unit – I: Method of hafting, identification of cortex, flake scar, ripple mark.	ANTACOR03T/Unit – V: World prehistory: Africa: The earliest Paleolithic assemblages of Africa - Oldowan, Acheulian; Middle Stone Age, Later Stone Age; Europe: Acheulian, Levalloisian, Middle and Upper Paleolithic Culture, Mesolithic Culture, Neolithic Culture. Old 3 rd Year: Mesolithic, Neolithic Culture ANTACOR03T/Unit – V Prehistoric art (home and cave art); India: The earliest Paleolithic assemblages,
Week 13		ANTACOR03T/Unit – V Acheulian, Middle Paleolithic Culture, Upper Paleolithic, Micro-blade assemblages, Late Stone Age and Neolithic Culture, Megaliths. ANTACOR10T Unit III: Iimportance of consent, privacy and confidentiality in research
Week13	to week 14	Internal Exam
W 1 15	Γ	Т
Week 15 to 17	Laborator y Note- Book	ANTACOR10T Unit III: Ethics of Research
Week 18	Revision	Revision

Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 2,4, 6 Name of the Teacher: Dr Sudesna Chanda

Paper: ANTACOR04T, ANTACOR04P, ANTACOR09T ANTACOR09P (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1	ANTACOR04P/	ANTACOR04T Unit –II
to week 4	Unit – I:	Unit – I: Paleoanthropology: Definition, aim & scope;
	Identification of	Fossils - Process of fossilization, Significance of fossils.
	extant anthropoid	
	skulls with reference	ANTACOR04T, Unit-I: Oligocene Anthropoids:
	to features relevant to	Parapithecus, Aegyptopithecus; Primate origins and radiation
	Hominid evolution	with special reference to Miocene hominoids: Dryopithecus,
	(Gorilla, Chimpanzee, Orangutan and	Sivapithecus, distribution, relationships ANTACOR09T.Unit I: Concepts of human growth,
	Gibbon).	development and maturation; Cellular processes: hyperplasia,
	Gibboli).	hypertrophy and accretion;
	ANTACOR09P: HUMAN	Unit II: Methods of studying human growth and development:
	GROWTH AND	cross sectional, longitudinal, mixed and linked longitudinal.
	DEVELOPMENT	ANTACOR13T: FORENSIC ANTHROPOLOGY
		THATTCOMEST. TOREMOTOR MATTER OF OLD OF
Week 5 to	ANTACOR04P/	ANTACOR04T/ Unit V: La-Chapelle-Aux-saints, Tabun
week 8	H. Sapiens	Man; Phylogenetic position.
	neanderthalensis (La-	
	Chapple-aux-saints),	ANTACOR09T, Unit V: Growth and Nutritional Status: Growth
	H. sapiens sapiens	retardation and faltering: low birth weight, stunting, wasting and
	(Cro- Magnon).	underweight in children, concept of z-score statistic, MAM and SAM in
	ANTACOR13P: FORENSIC	children, Kwashiorkor, Marasmus;
	ANTHROPOLOGY	ANTACOR13T: FORENSIC ANTHROPOLOGY
Week 9 to	Old 3rd Year: Paper VII	ANTEL COROUT II ', III C. C. (1 D. (1 I D.)
Week 12	Anthropometry, Skinfold	ANTACOR09T Unit III: Stages of growth: Prenatal and Post-
	measurements,	natal period of growth (general characteristics), growth spurt,
	Dermatoglyphics.	Scammon 's curves of systemic growth; chronological age and biological age.
	ANTACOR09P: HUMAN	Unit IV: Distance and velocity growth curves: their features and
	GROWTH AND	significance. Growth reference, growth standard, growth chart,
	DEVELOPMENT	Variation in normal growth curve (concepts of canalization, Catch –
		up growth).
		ANTACOR13T: FORENSIC ANTHROPOLOGY
Week 13	ANTACOR09P: HUMAN	Old 3rd Year: Paper V: Chromosomal aberrations
	GROWTH AND	Unit V: Growth and Nutritional Status: Growth retardation and
	DEVELOPMENT	faltering: low birth weight, stunting, wasting and underweight in
Week1.	3 to week 14	Internal Exam
Week 15	Practical	ANTACOR13T, Unit-V
to 17		Individualization: Forensic Odontology- tooth Structure and
		growth, bite marks, facial reconstruction, DNA Profiling:
		principles and application.
		principles and application.
Week 18	Revision	Revision

Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 2,4, 6 Name of the Teacher: Dr Krishnendu Polley
Paper: ANTACOR03T, ANTACOR03P, 10T, 10P, (Theory and Practical)

	NTACOR03T, ANTACOR03P, 10	
S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	(Paper code to be mentioned) ANTACOR03P/ Unit – I: Identification of extant anthropoid skulls with reference to features relevant to Hominid evolution (Gorilla,	ANTACOR03T: Unit – I: Introduction to Archaeological Anthropology: Definition and scope of ArchaeologicalAnthropology, Relationship with other disciplines - history, anthropology and other natura sciences. Prehistory: Definition, aim, scope, concept of periodization – ANTACOR10T Qualitative research and quantitative research, their relationship and uses in
	Chimpanzee, Orangutan and Gibbon).	anthropology. ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY
Week 5 to week 8	ANTACOR03P/ Unit – I: Drawing and labeling of Tool types: Identification of Typotechnological attributes,	ANTACOR03T Unit –II: Methods of Estimation of time in archaeology: Concept of chronology in Prehistory, following dating methods are to be studied based on the points - discovery, first use, datable material, basic principle, precautions, method of sample collection, advantages and disadvantages, specific examples; Methods of dating: Stratigraphy, Typo-technological analysis, C14, K/Ar, Dendrochronology, TL; Concept of Absolute (Chronometric) and Relative (Non-Chronometric) dating methods.
		Unit – V: World prehistory: Africa: The earliest Paleolithic assemblages of Africa - Oldowan, Acheulian; Middle Stone Age, Later Stone Age;
Week 9 to Week 12	ANTACOR03P/ Unit – I: cultural ages, probable functions, method of hafting, identification of cortex, flake scar, ripple mark, striking platform, point of impact, positive and negative bulb of percussion (wherever applicable):	ANTACOR03T Unit — IV: Typo-technological Study of Stone tools: Concept of tool types, primary and combination fabrication technology, Basic concept of stone tool manufacturing technology and estimation of their relative efficiency, basic ideas about identification of core and flake tools. ANTACOR10T Unit I: Research Design Review of literature, conceptual framework, formulation of research problem, formulation of hypothesis, ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY
Week 13	Unit – II: Drawing and labeling of Pottery (any two) (In absence of original specimens, cast or distinct photographs may be utilized).	Unit III: Climatic fluctuations of Pleistocene period in Europe, Africa and India, Glacial and Pluvial zones, Evidences of Pleistocene period for reconstruction of paleo-environment - Moraine, Glacio-fluvial deposits, River terraces, U-shaped valley, Loess, Gravel and Silt deposition; Holocene period. Importance of paleo-environmental study in paleoanthropology and prehistory
Week13	to week 14	Internal Exam
Week 15 to 17	Laborator y Note- Book	Revision

Teaching Plan for Even Semester, UG course

Department of Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 2,4, 6 Name of the Teacher: Kaushik Bhattacharya

Paper: ANTACOR04T, 3T, ANTACOR03P, 10T, 14T, DSE5T (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4		ANTACOR03T Unit – V: World prehistory: Africa: The earliest Paleolithic assemblages of Africa - Oldowan, Acheulian; Middle Stone Age, Later Stone Age; Europe: Acheulian, Levalloisian, Middle and Upper Paleolithic Culture, Mesolithic Culture, Neolithic Culture. ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 5 to week 8		 Unit – III: Australopithecines: Distribution and types, features and their phylogenetic relationships; Evolution & extinction of Australopithecines. Appearance of genus Homo (<i>Homo habilis</i>) morphological features and related finds; Phylogenetic status of <i>Homo habilis</i>. ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY
Week 9 to Week 12	ANTACOR03P/ Unit I: Tool typology, cultural ages, probable functions,	 Unit – IV: Tool manufacturing technology and estimation of their relative efficiency, basic ideas about identification of core and flake tools. ANTACOR10T
		Unit II: Field work tradition in Anthropology Theoretical approaches Cultural relativism, ethnocentrism, etic and emic perspectives, comparative and historical methods, inductive and deductive approach techniques of rapport establishment; identification of representative categories of informants, maintenance of field diary and logbook ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY
Week 13		ANTACOR03T. Unit III: Importance of paleo-environmental study in paleoanthropology and prehistory
		ANTACOR10T Unit IV: Analysis and Writing Up Chapterization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), glossary, prologue and epilogue, appendix, bibliography (annotated) and references cited, review and index Introduction of software for data analysis.
Week13	to week 14	Internal Exam
Week 15 to 17	Laborator y Note- Book	ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 18	Revision	Revision

<u>Teaching Plan for Even Semester, UG course</u> <u>Department of</u>

Anthropology

Session (2022-2023)

Class: B.Sc. Semester 2, 4, 6

Name of the Teacher: Kartick Chakraborty

Paper: ANTACOR04P, ANTACOR03T, 08T, 14T, DSE 05T (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	ANTACOR04P/ Unit – II: Identification of extinct anthropoid remains: Parapithecus mandible, Dryopithecus mandibular fragment, Australopithecus africanus, One typical specimen of H. habilis, H. erectus (Java and Peking man),	ANTACOR03T: Unit – I: Introduction to Archaeological Anthropology: Definition and scope of Archaeological Anthropology, Relationship with other disciplines - history, anthropology and other natural sciences. Prehistory: Definition, aim scope, concept of periodization - Three Age System. Definition of Tool,Artifact, Industry, Assemblage; A brief introduction to different cultural stages in Prehistory andProtohistory; Unit – VI: Origin of modern humans (Homo sapiens sapiens): Anatomically modern Homosapiens (AMHS) ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY
Week 5 to week 8	ANTACOR03P/ Unit – I: Drawing and labeling of Tool types: Identification of Typotechnological attributes,	 Unit – V: World prehistory: Africa: The earliest Paleolithic assemblages of Africa - Oldowan, Acheulian; Middle Stone Age, Later Stone Age; Europe: Acheulian, Levalloisian, Middle and Upper Paleolithic Culture, Mesolithic Culture, Neolithic Culture. ANTACOR10T Unit IV: Analysis and Writing Up 1. Chapterization, preparing a text for submission and publication, concepts of preface, 2. Introduction of software for data analysis. ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 9 to Week 12	ANTACOR09P: HUMAN GROWTH AND DEVELOPMENT	Unit – III: Prehistoric art (home and cave art); India: The earliest Paleolithic assemblages, Acheulian, Middle Paleolithic Culture, Upper Paleolithic, Micro-blade assemblages, Late Stone Age and Neolithic Culture, Megaliths. ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY Unit III: Climatic fluctuations of Pleistocene period in Europe, Africa and India, Glacial and Pluvial zones
Week13	to week 14	Internal Exam
Week 15	Laborator	ANTACOR10T
to 17	y Note- Book	Unit IV: Analysis and Writing Up ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 18	Revision	Revision

<u>Teaching Plan for Even Semester, UG course</u> <u>Department of</u>

Anthropology

Session (2022-2023)

Class: B.Sc.

Semester 2,4, 6 Name of the Teacher: Soumita Biswas

Paper: ANTACOR03T, ANTACOR10T, DSE5T, 14T (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
XX71 1	(Paper code to be mentioned)	ANTACODO2T: II::4 I.
Week 1 to week 4		ANTACOR03T: Unit – I: Introduction to Archaeological Anthropology: Definition and scope of Archaeological Anthropology, Relationship with other disciplines - history,
		ANTADSE05T: RURAL AND URBAN ANTHROPOLOGY Unit: II: Agrarian Social Structure, Agrarian Unrest & Changing Rural Society.
		Peasant Movements in India. Peasant Movements in
		Pre and Independence India: Moplah Rebellion
		((1921); Naxalbari Struggle & Other Contemp peasant struggles.
		ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 5 to week 8		ANTE A DOMESTIC LIDDANI A NUTRIHO DOLLO CAN
week o		ANTADSE05T: URBAN ANTHROPOLOGY
		Unit 1: Introducing the Concepts:
		Defining the Concepts:
		ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 9 to Week 12		ANTACOR 03T/ Unit – III: Upper Paleolithic, Microblade assemblages, Late Stone Age and Neolithic Culture, Megaliths.
		ANTACOR10T, Unit IV: Analysis and Writing Up 1. Chaptalization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), glossary, prologue and epilogue, appendix, bibliography (annotated) and references cited, review and index 2. Introduction of software for data analysis.
Week 13		Unit III: Climatic fluctuations of Pleistocene period in Europe, Africa and India, Glacial and Pluvial zones
		ANTACOR14T: ANTHROPOLOGY OF INDIA
Week13	to week 14	Internal Exam
Week 15		ANTACOR10T Unit I: Qualitative research and quantitative research, their
to 17		relationship and uses in anthropology
		ANTACOR14T: ANTHROPOLOGY OF INDIA
Week 18	Revision	Revision

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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Session: 2022-2023

Class: B.Sc: ODD SEMESTERS – I, III & V Name of the Teacher: Dr. Arun Kumar Jana

Subject: Paper: B.Sc. Hons. & General (Theory and Practical)

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	PHSACOR01P:	PHSACOR02T: Non-Inertial system &
	PHSACOR03P:	STR
	PHSACOR05P:	PHSACOR06T: 0 th & 1 st law of
	PHSHGEC03P:	Thermodynamics:
		PHSHGEC03T : 0 th & 1 st law of
	Whole syllabus will be covered	Thermodynamics
	by different groups	PHSACOR11T:: Basic formalism of
	ay annotono groups	QM
		PHSADSE03T: General properties of
		Nuclei
Week 5to week 8	PHSACOR01P:	PHSAOR02T: Special Theory of
	PHSACOR03P:	Relativity-M M Expt., postulates, L
	PHSACOR05P:	transformations, simultaneity.
	PHSHGEC03P:	PHSACOR06T: 2 nd law of
		Thermodynamics, Carnot's
	Whole syllabus will be covered	theorem & Heat Engine
	by different groups	PHSHGEC03T : 2 nd law of
		Thermodynamics & Heat
		Engine and efficiency
		PHSACOR11T: Schrodinger equation &
		Bound State Problems
		PHSADSE03T: Nuclear Models
Week 9 to week	PHSACOR01P:	PHSACOR02T: Special theory of
12	PHSACOR03P:	Relativity- Order of events, Lorentz
	PHSACOR05P:	contraction, Time Dilation and numerical.
	PHSHGEC03P:	PHSACOR06T: Entropy,
		Thermodynamic potentials and
	Whole syllabus will be covered	applications
	by different groups	PHSHGEC03T: Entropy, Carnot's heat
	ay annotono groups	Engine, 3 rd law of Thermodynamics.
		PHSACOR11T: Bound States- Linear
		Harmonic Oscillator -applications
		PHSADSE03T: Nuclear reactions-
		Types, Conservation laws and kinematics
		of reactions.
Week 13	PHSACOR01P:	PHSACOR02T: Relativistic
WOOK 13	PHSACOR03P:	Transformations of velocity, frequency
	PHSACOR05P:	and wave number.
	PHSHGEC03P:	PHSACOR06T: T-ds equations in
	THE TOLL COST.	various forms
	Whole syllabus will be covered	PHSHGEC03T: Enthalpy, Gibb's,
	by different groups	Helmholtz and Internal Energy functions.
	by unterent groups	PHSACOR11T: Schrodinger equation in
		spherical polar co-ordinates with
		spherically symmetric potential.

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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

		PHSADSE03T: Nuclear reactions-
		Compound and direct reaction.
	Week 13 to week 14 Int	ternal Exam
Week 15 to 17	PHSACOR01P:	PHSACOR02T: Relativistic addition of
	PHSACOR03P:	velocities, Relativistic Doppler effect –
	PHSACOR05P:	applications-numericals.
	PHSHGEC03P:	PHSACOR06T: Maxwell's
		Thermodynamic relations-derivations and
	Whole syllabus will be covered	applications.
	by different groups	PHSHGEC03T: Maxwell's relation and
		applications.
		PHSACOR11T: Quantum theory of
		Hydrogen like atoms-
		PHSADSE03T: Nuclear Reactions-
		Resonance reaction, Coulomb
		Scattering-applications.
Week 18	Revision	Revision

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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Class: B.Sc: **EVEN SEMESTERS –II, IV & VI** Name of the Teacher: **Dr**. **Arun Kumar Jana**

Subject: Paper: B.Sc. Hons. & General (Theory and Practical)

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR03P:	PHSACOR4T: Wave Optics, Intereference-
week 4	PHSACOR04P:	Division of amp. And wavefront, Young's
	PHSACOR09P:	double slit Expt. Etc.
	PHSHGEC02P:	PHSACOR09T:Relativistic Dynamics-
	PHSHGE04P:	Invariance of Space time Interval under
		Lorentz Transformation, Idea of 4-Vector-
	Whole syllabus will be covered	Contravariant and co-variant components.,
	by different groups	Numericals
		PHSHGEC02T: Electromagnetic
		Induction faraday's laws, Lenz's law,
		Numericals.
		PHSHGEC04T:Interference- Division of amp.
		And wavefront, Young's double slit Expt. Etc
		PHSACOR14T:Statistical Mechanics-
		Chemical equilibrium-Chemical potential and
		reaction, Chemical potential for ideal gas,
		photon gas, Ionisation potential, Saha's
		Ionisation formula.
		PHSADSE05T: The Sun and Solar family-
		The Sun-Solar Parameters-photosphere,
		chromospheres, corona, Solar activity, Solar
Week 5to	DUCACODO2D.	magneto hydrodynamics.
	PHSACOR03P:	PHSAOR04T: Interference-Thin and wedge
week 8	PHSACOR04P:	shaped films, Fringes of equal inclination,
	PHSACOR09P:	thickness, Newton's rings.
	PHSHGEC02P:	PHSACOR09T: Relativistic Dynamics-
	PHSHGE04P:	Metric, 4-scalar, space-like, time-like and
	***	light-like separation.
	Whole syllabus will be covered	PHSHGEC02T: Self and Mutual inductance, L
	by different groups	of Single coil, M of two coils, Energy stored in
		magnetic field.
		PHSHGEC04T: Interference- Thin and
		wedge shaped films, Fringes of equal
		inclination, thickness, Newton's rings.
		PHSACOR14T: Statistical Mechanics-System
		of Identical Particles-Occupation Number, MB
		Distribution, Boltzman factor, Bosons and
		Fermions, Pauli Exclusion Principle.
		PHSADSE05T : The and Solar family-The
		Solar family-Solar System-facts and figures,
		origin of solar system.
Week 9 to	PHSACOR03P:	PHSACOR4T : Diffraction-Types, Single slit,
week 12	PHSACOR04P:	Resolving Power of an optical instrument,
	PHSACOR09P:	Double slit.
	PHSHGEC02P:	PHSACOR09T:Relativistic Dynamics-
	PHSHGE04P:	Causality in relativity, Proper time, 4-
		velocity and momentum, Numericals.

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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

	Whole syllabus will be covered	PHSHGEC02T: Linear Network-Impedance,
	by different groups	LC R and their combinations.
		PHSHGEC04T: Diffraction-Fraunhofer
		diffraction-Single slit, Double slit
		PHSACOR14T: Theory of Black Body
		Radiation-Properties, Temperature
		dependence, Kirchoff's, Stefan Boltzman law-
		Thermodynamic proof.
		PHSADSE05T: The Sun and Solar family-
		The Nebular Model, Tidal forces and
		Planetary rings, Extra solar planets.
Week 13	PHSACOR03P:	PHSACOR4T: Diffraction-Fresnel
	PHSACOR04P:	diffraction, Fresnel's assumptions.
	PHSACOR09P:	PHSACOR09T:Relativistic Dynamics-
	PHSHGEC02P:	Conservation law of 4-momentum, Relativistic
	PHSHGE04P:	mass.
		PHSHGEC02T : Maxwell;s equations.
	Whole syllabus will be covered	PHSHGEC04T:Diffraction-Diffraction
	by different groups	grating.
		PHSACOR14T:Statistical Mechanics-
		Recapitulation of Planck;s law of black body
		radiation.
		PHSADSE05T: The and Solar family-Stellar
		spectra and classification structure.
	Week 13 to week 1	
Week 15 to	PHSACOR03P:	PHSACOR4T: Fresnel's Half Period Zones,
17	PHSACOR04P:	Zone Plate-theory and derivation, Numericals.
	PHSACOR09P:	PHSACOR09T:Relativistic Dynamics-
	PHSHGEC02P:	Relativistic energy, Equivalence of mass and
	PHSHGE04P:	energy, Applications in two body decay of a
		particle, two body collisions.
	Whole syllabus will be covered	PHSHGEC02T: Network Theorem-
	by different groups	applications, Anderson's bridge.
		PHSHGEC04T:Diffraction-Fresnel diffraction,
		theory of half perid zones, Zone plates.
		PHSACOR14T:Statistical Mechanics-
		Deduction of Wien's distribution law,
		Rayleigh Jeans law, Stefan Boltzman
		law, Wein's displacement law from Planck's
		law.
		PHSADSE05T: The Sun and Solar Family-
		Stellar spectra and their temperature
		dependence, Black body approx., HR
		Diagram, Main sequence, red giants and white
		dwarfs, Chandrasekhar Mass limit., The Milky
*** 1 10		way.
Week 18	Revision	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

B.Sc. Odd Semester (I, III, V)

Name of the Teacher: **Dr. Subhasis Chakrabarti**

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Calculus (Recapitulation)
week 4	PHSACOR06P, PHSACOR07P,	Approximation: Taylor and
	PHSHGEC03P, PHSACOR12P	binomial series (statements only).
	,	PHSSSEC01M: CRO
		PHSACOR05T: Fourier Series
		PHSACOR12T: Crystal Structure
	:Whole syllabus will be covered by	PHSADSE02T: Lagrangian & Hamiltonian
	different groups	Dynamics
Week 4 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Calculus (1st Order and 2 nd
week 8	PHSACOR06P, PHSACOR07P,	order)
	PHSHGEC03P, PHSACOR12P	PHSSSEC01M: Signal Generators and
	,	analysis Instruments
		PHSACOR05T: Some Special Integrals
		PHSACOR12T: Crystal structure
	:Whole syllabus will be covered by	PHSADSE02T: Small Amplitude Oscillations
	different groups	
Week 8 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Calculus (Calculus of
week 12	PHSACOR06P, PHSACOR07P,	functions of more than one variable)
	PHSHGEC03P, PHSACOR12P	PHSSSEC01M: Digital Instruments
		PHSACOR05T: Variational calculus in
		Physics
		PHSACOR12T: Magnetic Properties of
	:Whole syllabus will be covered by	Matter, Dielectric Properties of Materials
	different groups	PHSADSE02T: Small Oscillations
Week 13	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Calculus (Calculus of
	PHSACOR06P, PHSACOR07P,	functions of more than one variable)
	PHSHGEC03P, PHSACOR12P	PHSSSEC01M: Digital Instruments
	,	PHSACOR05T: Analytical Dynamics
	:Whole syllabus will be covered by	PHSACOR12T: Ferroelectric Properties of
	different groups	Materials
		PHSADSE02T: Fluid Dynamics
	Week 13 to week 14	Internal Exam
Week 15 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Conclusion
17	PHSACOR06P, PHSACOR07P,	PHSSSEC01M: Conclusion
	PHSHGEC03P, PHSACOR12P	PHSACOR05T: Tutorial
		PHSACOR12T: Conclusion
		PHSADSE02T: Conclusion
	W/ 1 11 1 11 11 11 11 11 11 11 11 11 11 1	
	:Whole syllabus will be covered by	
XX 1 10	different groups	D ::
Week 18	Revision & Practice	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

B.Sc. Even Semester (II, IV, VI)

Name of the Teacher: **Dr. Subhasis Chakrabarti**

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR03P, PHSHGEC02P,	PHSACOR04T: Superposition of Collinear
week 4	PHSACOR09P, PHSHGEC04P,	Harmonic oscillations
	PHSACOR13P:	PHSHGEC02T: Vector Analysis
	Whole syllabus will be distributed	PHSACOR8T: Integrals Transforms (Fourier
	to different student groups	Transforms)
		PHSACOR13T: Maxwell Equations
		PHSADSE04T: Group Theory
Week 4 to	PHSACOR03P, PHSHGEC02P,	PHSACOR04T;Wave Motion
week 8	PHSACOR09P, PHSHGEC04P,	PHSHGEC02T: Vector Analysis
	PHSACOR13P:	PHSACOR8T: Integrals Transforms (Fourier
	Whole syllabus will be distributed	Transforms)
	to different student groups	PHSACOR13T: EM Wave Propagation in
		Unbounded Media
		PHSADSE04T: Group Theory
Week 8 to	PHSACOR03P, PHSHGEC02P,	PHSACOR04T: Velocity of Waves
week 12	PHSACOR09P, PHSHGEC04P,	PHSHGEC02T: Vector Analysis
	PHSACOR13P:	PHSACOR08T: Matrices
	Whole syllabus will be distributed	PHSACOR13T: EM Wave Propagation in
	to different student groups	bounded Media
		PHSADSE04T: Group Theory
Week 13	PHSACOR03P, PHSHGEC02P,	PHSACOR04T: Velocity of Waves
	PHSACOR09P, PHSHGEC04P,	PHSHGEC02TVector Analysis
	PHSACOR13P:	PHSACOR08T: Eigen-values and Eigenvectors
	Whole syllabus will be distributed	PHSACOR13T: Polarization of Electromagnetic
	to different student groups	Waves
		PHSADSE04T: Group Theory
	Week 13 to week 14	Internal Exam
Week 15 to	PHSACOR03P, PHSHGEC02P,	PHSACOR04T: Conclusion
17	PHSACOR09P, PHSHGEC04P,	PHSHGEC02T: Conclusion
	PHSACOR13P:	PHSACOR08T: Conclusion
	Whole syllabus will be distributed	PHSACOR13T: Conclusion
	to different student groups	PHSADSE04T: Tutorial
Week 18	Revision & Practice	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Class: B.Sc. (Odd Semester) (I, III, V)

Name of the Teacher: **Dr. Prabir Banerjee**

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Introduction to probability
week 4	PHSACOR06P, PHSACOR07P,	(Independent random variables)
	PHSHGEC03P, PHSACOR12P	PHSACOR02T: Non-Inertial Systems
		PHSSSEC01M: Basic of Measurement
	:Whole syllabus will be covered by	PHSACOR07T: Basic introduction,
	different groups	PHSACOR12T: Elementary band theory
		PHSADSE03T: Rigid Body Mechanics
Week 4 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Introduction to probability
week 8	PHSACOR06P, PHSACOR07P,	(Independent random variables)
	PHSHGEC03P, PHSACOR12P	PHSACOR02T: Non-Inertial Systems
		PHSSSEC01M: Electronic Voltmeter
	:Whole syllabus will be covered by	PHSACOR07T: Digital Circuit
	different groups	PHSACOR12T: Elementary Lattice
		Dynamics
		PHSADSE03T: Rigid Body Mechanics
Week 8 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Introduction to probability
week 12	PHSACOR06P, PHSACOR07P,	(Dependent events)
	PHSHGEC03P, PHSACOR12P	PHSACOR02T: Oscillations
		PHSSSEC01M: Impedance Bridges &
	:Whole syllabus will be covered by	QMeters
	different groups	PHSACOR07T: Arithmetic circuits, Data
		processing circuits
		PHSACOR12T: Superconductivity
		PHSADSE03T: Dynamical Systems
Week 13	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Introduction to probability
	PHSACOR06P, PHSACOR07P,	(Dependent events)
	PHSHGEC03P, PHSACOR12P	PHSACOR02T: Oscillations
		PHSSSEC01M: Digital Multimeter
	:Whole syllabus will be covered by	PHSACOR07T: Registers
	different groups	PHSACOR12T: Drude's theory
		PHSADSE03T: Oscillations
	Week 13 to week 14	Internal Exam
Week 15 to	PHSACOR02P, PHSHGEC01P,	PHSACOR01T: Conclusion
17	PHSACOR06P, PHSACOR07P,	PHSACOR02T: Conclusion
	PHSHGEC03P, PHSACOR12P	PHSSSEC01M: Conclusion
		PHSACOR07T: Conclusion
	:Whole syllabus will be covered by	PHSACOR12T: Conclusion
	different groups	PHSADSE03T: Tutorial
Week 18	Practice	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

B.Sc. Even Semester (II, IV, VI)

Name of the Teacher: **Dr. Prabir Banerjee**

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Electrical Circuits
week 4	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Magnetism
	PHSHGEC04P, PHSACOR13P:	PHSACOR10T: Introduction to Electronics
	Whole syllabus will be distributed	PHSACOR13T: Maxwell Equations
	to different student groups	PHSADSE05T: Astronomical Scales,
		Astronomical techniques
Week 4 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Electromagnetic Induction
week 8	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Electromagnetic Induction
	PHSHGEC04P, PHSACOR13P:	PHSACOR10T: Two-terminal Devices and
	Whole syllabus will be distributed	their Applications
	to different student groups	PHSACOR13T: Optical Fibres
		PHSADSE05T: Physical principles
Week 8 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Network theorems
week 12	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Maxwell's Equations and
	PHSHGEC04P, PHSACOR13P:	Electromagnetic Wave Propagation
	Whole syllabus will be distributed	PHSACOR10T: FET
	to different student groups	PHSACOR13T: Optical Fibres
		PHSADSE05T: The milky way
Week 13	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Network theorems
	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Maxwell's Equations and
	PHSHGEC04P, PHSACOR13P:	Electromagnetic Wave Propagation
	Whole syllabus will be distributed	PHSACOR10T: OpAmp & its applications
	to different student groups	PHSACOR13T: Wave Guides
		PHSADSE05T: Galaxies, Large scale structure &
		expanding universe
	Week 13 to week 14	Internal Exam
Week 15 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Conclusion
17	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Conclusion
	PHSHGEC04P, PHSACOR13P:	PHSACOR10T: Conclusion
	Whole syllabus will be covered	PHSACOR13T: Conclusion
	by different groups	PHSADSE05T: Tutorial
_		
Week 18	Revision & Practice	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Class: B.Sc Odd Semester (1,3,5) Name of the Teacher: **Dr. Supriya Chatterjee**

Sl. No.	Practical syllabus to be	Theory syllabus to be covered
51 1 101	covered	Theory symmous to be covered
Week 1	PHSACOR01P,	PHSACOR01T: Vector Calculus (Recapitulation of
to week	PHSHGEC01P,	vectors)
4	PHSACOR05P,	PHSHGEC01T: Mathematical Methods
'	PHSHGEC03P,	PHSACOR06T: Kinetic Theory of Gases (Distribution of
	PHSACOR11P	Velocities)
		PHSHGEC03T: Laws of Thermodynamics
	:Whole syllabus will be	PHSACOR11T: Basic Formalism PHSACOR1T: Caparal Properties of Nucleic & Nucl
	covered by different groups	PHSADSE03T: General Properties of Nuclei & Nuclear Models
Week 5	PHSACOR01P,	PHSACOR01T: Vector Calculus (Vector Differentiation)
to week	PHSHGEC01P,	PHSACOR06T: Vector Calculus (Vector Differentiation) PHSACOR06T: Kinetic Theory of Gases (Molecular
8	PHSACOR05P,	Collisions)
0		PHSHGEC03T: Laws of Thermodynamics
	PHSHGEC03P, PHSACOR11P	PHSACOR11T: Schrodinger Equation
	PHSACORTIP	PHSADSE03T: Radioactivity decay
	Whole cyllobus will be	
	:Whole syllabus will be covered by different groups	
Wastan	• • •	DUCA CODOLT: Calculus (Calculus of functions of more
Week 9	PHSACOR01P,	PHSACOR01T: Calculus (Calculus of functions of more than one variable) Vector Calculus (Vector Integration)
to week	PHSHGEC01P,	PHSACOR06T: Kinetic Theory of Gases (Molecular
12	PHSACOR05P,	Collisions)
	PHSHGEC03P,	PHSHGEC03T: Laws of Thermodynamics
	PHSACOR11P	PHSACOR11T: Applications of quantization rules in
		Atomic Physics
	:Whole syllabus will be	PHSADSE03T: Radioactivity decay
	covered by different groups	
Week	PHSACOR01P,	PHSACOR01T: Vector Calculus (Vector Integration).
13	PHSHGEC01P,	PHSACOR06T: Kinetic Theory of Gases (Real Gases)
	PHSACOR05P,	PHSHGEC03T: Kinetic Theory of Gases PHSACOR11T: Applications of quantization rules in
	PHSHGEC03P,	Atomic Physics
	PHSACOR11P	PHSADSE03T: Interaction of Nuclear Radiation with
	:Whole syllabus will be	matter
	covered by different groups	
	Week 13	•
Week 15	′	PHSACOR01T: Conclusion + Tutorial
to 17	PHSHGEC01P,	PHSHGEC01T: Conclusion + Tutorial
	PHSACOR05P,	PHSACOR06T: Conclusion + Tutorial PHSHGEC03T: Conclusion + Tutorial
	PHSHGEC03P,	PHSACOR11T: Conclusion + Tutorial
	PHSACOR11P	PHSADSE03T: Conclusion + Tutorial
	:Whole syllabus will be	Tibilibibio T. Conclusion Tuttoriui
	covered by different groups	
Week 18	Revision	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Class: B.Sc Even Semester (2,4,6) Name of the Teacher: **Dr. Supriya Chatterjee**

Sl. No.	Practical syllabus to be	Theory syllabus to be covered
	covered	
Week 1	PHSACOR04P,	PHSACOR04T: Superposition of Collinear Harmonic
to week	PHSHGEC02P,	oscillations
4	PHSACOR08P,	PHSHGEC02T: Vector Analysis
	PHSHGEC04P,	PHSACOR09T: Nuclear Physics (Introduction)
	PHSACOR14P	PHSSSEC02M: Introduction to Computational Physics
		PHSHGEC04T: Wave Optics (Introduction)
	:Whole syllabus will be	PHSACOR14T: Classical Statistical Mechanics
	covered by different groups	
Week 5	PHSACOR04P,	PHSACOR04T: Superposition of two perpendicular
to week	PHSHGEC02P,	Harmonic Oscillations
8	PHSACOR08P,	PHSHGEC02T: Vector Analysis
	PHSHGEC04P,	PHSACOR09T: Nuclear Physics (Nuclear models)
	PHSACOR14P	PHSSSEC02M: Scientific Programming
		PHSHGEC04T: Wave Optics
	:Whole syllabus will be	PHSACOR14T: Classical Statistical Mechanics
	covered by different groups	
Week 9	PHSACOR04P,	PHSACOR04T: Interferometer
to week	PHSHGEC02P,	PHSACOR09T: Nuclear Physics (Radioactivity)
12	PHSACOR08P,	PHSSSEC02M: Control Statements
	PHSHGEC04P,	PHSHGEC04T: Interference, Michelson's Interferometer
	PHSACOR14P	PHSADSE04T: Advanced Probability Theory
	:Whole syllabus will be	(Introduction)
	covered by different groups	
Week	PHSACOR04P,	PHSACOR04T: Holography
13	PHSHGEC02P,	PHSACOR09T: Nuclear Physics (Fission and fusion)
	PHSACOR08P,	PHSSSEC02M: Control Statements
	PHSHGEC04P,	PHSADSE04T: Advanced Probability Theory (Probability
	PHSACOR14P	distributions)
	:Whole syllabus will be	
	covered by different groups	
	· · · · · · · · · · · · · · · · · · ·	to week 14 Internal Exam
Week 15	PHSACOR04P,	PHSACOR04T: Conclusion + Tutorial
to 17	PHSHGEC02P,	PHSHGEC02T: Conclusion + Tutorial
.0 17	PHSACOR08P,	PHSACOR09T: Conclusion + Tutorial
	PHSHGEC04P,	PHSHGEC04T: Conclusion + Tutorial
	PHSACOR14P	PHSACOR14T: Conclusion + Tutorial
		PHSADSE04T: Conclusion + Tutorial
	:Whole syllabus will be	The Design of Tutorial
	covered by different groups	
Week 18	Revision	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Class: B.Sc. (Odd Semester)(I, III, V)

Name of the Teacher: **Dr. Soumyabrata Mondal**

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR02P, PHSHGEC01P,	PHSACOR02T: Gravitation and Central
week 4	PHSACOR06P, PHSACOR07P,	Force Motion
	PHSHGEC03P, PHSACOR12P	PHSHGEC01T: Gravitation
		PHSACOR05T: Partial Differential Equations
	:Whole syllabus will be covered by	PHSHGEC03T: Statistical Mechanics
	different groups	PHSACOR11T: Introduction
		PHSADSE03T: Particle physics
Week 4 to	PHSACOR02P, PHSHGEC01P,	PHSACOR02T: Gravitation and Central
week 8	PHSACOR06P, PHSACOR07P,	Force Motion
	PHSHGEC03P, PHSACOR12P	PHSHGEC01T: Gravitation
		PHSACOR05T: Frobenius Method and
	:Whole syllabus will be covered by	Special Functions (Legendre Polynomials)
	different groups	PHSHGEC03T: Statistical Mechanics
		PHSACOR11T: Basic Formalism
		PHSADSE03T: Particle physics
Week 8 to	PHSACOR02P, PHSHGEC01P,	PHSACOR02T: Fluid Motion
week 12	PHSACOR06P, PHSACOR07P,	PHSHGEC01T: Elasticity
	PHSHGEC03P, PHSACOR12P	PHSACOR05T: Frobenius Method and
		Special Functions (Bessel Polynomials)
	:Whole syllabus will be covered by	PHSHGEC03T: Statistical Mechanics
	different groups	PHSACOR11T: Schrodinger Equation
		PHSADSE03T: Accelerator & Detector
Week 13	PHSACOR02P, PHSHGEC01P,	PHSACOR02T: Fluid Motion
	PHSACOR06P, PHSACOR07P,	PHSHGEC01T: Elasticity
	PHSHGEC03P, PHSACOR12P	PHSACOR05T: Frobenius Method and
		Special Functions
	:Whole syllabus will be covered by	PHSHGEC03T: Statistical Mechanics
	different groups	PHSACOR11T: Application
	Week 13 to week 14	Internal Exam
Week 15 to	PHSACOR02P, PHSHGEC01P,	PHSACOR02T: Conclusion
17	PHSACOR06P, PHSACOR07P,	PHSHGEC01T: Conclusion
	PHSHGEC03P, PHSACOR12P	PHSACOR05T: Conclusion
		PHSHGEC03T: Conclusion
	:Whole syllabus will be covered by	PHSACOR11T: Conclusion
	different groups	PHSADSE03T: Tutorial
Week 18	Practice	Revision

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2022-2023

Class: B.Sc. (Even Semester)(II, IV, VI) Name of the Teacher: **Dr. Soumyabrata Mondal**

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Electric Field and Electric
week 4	PHSACOR09P, PHSACOR10P,	Potential
	PHSHGEC04P, PHSACOR13P:	PHSHGEC02T: Electrostatics
	Whole syllabus will be distributed	PHSACOR08T: Complex Analysis
	to different student groups	PHSSSEC02M: Introduction
		PHSHGEC04T: Fluids
		PHSADSE05T:PDE
Week 4 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Electric Field and Electric
week 8	PHSACOR09P, PHSACOR10P,	Potential
	PHSHGEC04P, PHSACOR13P:	PHSHGEC02T: Electrostatics
	Whole syllabus will be distributed	PHSACOR08T: Complex Analysis
	to different student groups	PHSSSEC02M: Control Statement
		PHSHGEC04T: Fluids
		PHSACOR14T:Quantum Statistics
		PHSADSE05T:PDE
Week 8 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Dielectric Properties of Matter
week 12	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Linear Network
	PHSHGEC04P, PHSACOR13P:	PHSACOR08T: Complex Analysis
	Whole syllabus will be distributed	PHSSSEC02M: Control Statement
	to different student groups	PHSHGEC04T: Fluids
		PHSACOR14T: Quantum Statistics
		PHSADSE05T:Green's function
Week 13	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Dielectric Properties of Matter
	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Linear Network
	PHSHGEC04P, PHSACOR13P:	PHSACOR08T: Boundary Value Problems
	Whole syllabus will be distributed	PHSHGEC04T:Tutorial
	to different student groups	PHSACOR14T: Quantum Statistics
		PHSADSE05T:Tutorial
•••	Week 13 to week 14	Internal Exam
Week 15 to	PHSACOR03P, PHSHGEC02P,	PHSACOR03T: Conclusion
17	PHSACOR09P, PHSACOR10P,	PHSHGEC02T: Conclusion
	PHSHGEC04P, PHSACOR13P:	PHSACOR08T: Conclusion
	Whole syllabus will be covered	PHSHGEC04T: Conclusion
	by different groups	PHSACOR14T: Conclusion
*** 1 10		PHSADSE05T: Conclusion
Week 18	Revision & Practice	Revision

BIDHANNAGAR COLLEGE, GOVERMENT OF WEST BENGAL, SALTE LAKE, KOLKATA TEACHING PLAN FOR ODD SEMESTER, UG COURSE

DEAPARTMENT OF GEOGRAPHY

SESSION: 2022-23

CLASS: B.A/BSC.

SEMESTER: 1, 3 AND 5 NAME OF THE TEACHER: H.K. DATTA

SUBJECT: GEOGRAPHY

	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week4	CC02P: Delineation of drainage basin. GEC03P: 1. Graphical construction of scales: Plain.	CC01T: GEOMORPHOLOGY-1.Weathering, mass wasting and resultant landforms. CC06T: GEOGRAPHY OF WEST BENGAL- 9. Physical perspectives- Physiographic divisions, forest and water resources. CC10T: Environmental Geography — 1. Geographers' approach to environmental studies. DSE01T: SOIL GEOGRAPHY: 1. FACTROS OF SOIL FORMATION - Man as an active agent of soil transformation. 2. Soil profile. Origin and profile characteristics of Latritic, Podzol and Chernozem soil. GEC01T: 1. Physical Geography- Definition and Scope, Components of Earth System. GEC03T: 1.Concept of map Scale- Types and Application. Reading distance on a map.
Week 5 to week 8	CC02P: Delineation of drainage basin. GEC03P: 1. Graphical construction of scales: Plain.	CC01T: GEOMORPHOLOGY- 2.Development of river network and landforms on uniclinal and folded structures. CC06T: GEOGRAPHY WEST BENGAL- 10.Resources: Agriculture, mining, and industry. CC10T: Environmental Geography — 2. Concept of holistic environment and systems approach. DSE01T: SOIL GEOGRAPHY: 3. Soil properties: texture, structure and moisture, 4. PH, organic matter and NPK. GEC01T: 2. Internal structure of earth based on Seismic Evidence, Plate Tectonics. GEC03T:: 1.Concept of map Scale- Types and Application. Reading distance on a map.

Week 9 to week 12	CC02P: Stream ordering. GEC03P: 1. Graphical construction of scales: comparative.	3.Costal processes and landforms CC06T: GEOGRAPHY WEST BENGAL- 4.Development of on granites, basalts and limestone's. CC10T: Environmental Geography — 3. Ecosystem: Concept, structure and functions. DSE01T: SOIL & BIO GEOGRAPHY: 5. Soil erosion and degradation: Factors, Processes and mitigation measures. GEC01T: 3. Influence of rock on topography: Limestone and granite. GEC03T: 1.Concept of map Scale- Types and Application. Reading distance on a map.
Week 13	CC02P: Stream ordering. GEC03P: 1. Graphical construction of scales: comparative	CC01T: GEOMORPHOLOGY- 5. Glacial and glacio -fluvial processes and landform. OF CC06T: GEOGRAPHY WEST BENGAL- 11. Population: Growth, Distribution and human development. CC10T: Environmental Geography – 4. Space-time hierarchy of environmental problems: Local. DSE01T: SOIL GEOGRAPHY: 5. Soil erosion and degradation: Factors, Processes and mitigation measures. 6. Soil classification: Genetic and USDA, land capability and its classification. GEC01T: 4. Evolution of landforms under fluvial process, Normal Cycle of Erosion of Davis. GEC03T: 3.Survey of India topographical maps: Reference scheme of old and open series. Information on the margin maps.
Week 14	Internal Examination	Internal Examination
Week 15 to week 17	CC02P: Revision GEC03P: Revision	CC01T: GEOMORPHOLOGY- 5. Glacial and glacio -fluvial processes and landform. CC06T: GEOGRAPHY WEST BENGAL- 11. Population: Growth, Distribution and human development. 12. Regional Issues: Darjeeling Hills and Sundarban. CC10T: Environmental Geography — 4. Space-time hierarchy of environmental problems: Local, regional and global. DSE01T: SOIL & BIO GEOGRAPHY: 7. Concept of biosphere, ecosystem, biome, ecotone, community, niche, succession and ecology. 8. Concept of trophic structure, food chain and food web. Energy flow in ecosystems. GEC01T: 4. Evolution of landforms under fluvial process, Normal Cycle of Erosion of Davis. GEC03T: Revision

Week 18	CC01T: GEOMORPHOLOGY- Revision
	CC06T: GEOGRAPHY WEST BENGAL- Revision
	CC10T : Environmental Geography – Revision
	DSE01T : SOIL & BIO GEOGRAPHY : Revision
	GEC01T: Revision
	GEC03T : Revision

Name of the teacher: Dr Somdatta Das

	Practical syllabus to be Covered	Theory Syllabus to be covered
Week 1 to Week 4	CC01P:Identification of mineral and rock samples CC07P:Construction of data matrix, Drawing of histogram, frequency, polygon and curve CC11P:Preparation for field work	CC05T:Nature and composition of atmosphere and layering of it CC07T:Frequency distribution, Types, source and collection of data CC11T:Meaning,types and significance of research, Literature review DSE03T:Distribution and growth of population, Demographic transition model GEC01T:Insolation and heat budget GEC03T:Choropleth map
Week 5 to Week 8	CC01P:Concepts associated with geological map, Identification of rock structure, Geological profile of uniclinal structure CC07P:Computation of various measures of central tendency and dispersion CC11P:Preparation for field work	CC05T:Insolation and heat budget Horizontal distribution of temperature CC07T:Measures of central tendency and dispersion CC11T:Research problem, design, objective and hypothesis DSE03T:Theories on population growth, Age sex composition GEC01T:Vertical and horizontal distribution of temperature, Temperature inversion GEC03T:Isopleth map
Week 9 to Week 12	CC01P:Determination of angle of dip and thickness of rock beds, Geological profile of folded structure and structure with intrusion CC07P:Drawing of scatter diagram and linear regression line CC11P: Preparation for field work/field work	CC05T:Vertical distribution of temperature, Temperature inversion, Green house effect CC07T:Linear and non-linear regression, Rank and Product Moment correlation CC11T:Scientific report writing, preparing notes, references, bibliography, abstruct, keywords DSE03T:Rural and urban composition, Literacy and education, Occupational structure of India GEC01T:Distribution of pressure GEC03T:Flow diagram, use of dot and symbol in map
Week 13	CC01P:Geological profile of structure having uncomformity CC07P:Residual map CC11P: Field work/Field report	CC05T:Importance of ozone layer, condensation, stability and instability, barotropic and baroclinic condition CC07T:Time series analysis

	preparation	CC11T:Materials and method of research DSE03T:Urbanisation of India GEC01T:Ocean bottom relief GEC03T:Interpretation of thematic map
Week 14	Internal Examination	Internal Examination
Week 15 to Week 17	CC01P:Interpretation of geological map CC07P:Practise CC11P: Field report preparation	CC05T:Precipitation:types and theories CC07T:Preparation of statistical table CC11T:Revision, Method of research DSE03T:Revision GEC01T:Revision GEC03T:Revision
Week 18	CC01P:Practise CC07P:Practise CC11P: Field report preparation	Revision of all papers

NAME OF TEACHER: RITUPARNA KHAN

WEEK	PRACTICAL TOPICS	THEORETICAL TOPICS
1 TO 4	Sem1: none	Sem1: GEOACOR02T Cartographic
	Sem 3: none	techniques: Grids. Angular, linear systems of
	Sem 5: GEOACOR12P: GIS practice	measurement (cont.)
		Sem 3: GEOACOR06T Geography of India:
		tectonic and stratigraphic provinces,
		physiographic divisions, climate, soil,
		vegetation
		Sem 5: GEOACOR11T: Fieldwork &
		Research Methodology: positioning and
		collection of samples
		Sem 5: GEODSE01T: Soil & Bio
		Geography: bio geography
5 TO 8	Sem1: none	Sem 1: GEOACOR02T Cartographic
	Sem 3: none	techniques: Grids. Angular, linear systems of
	Sem 5: GEOACOR12P: GIS practice	measurement (cont.)
		Sem 3: GEOACOR06T Geography of India:
		population, tribes of India, agricultural
		regions
		Sem 5:GEOACOR11T: post field tabulation
		Sem 5: GEODSE01T: Soil & Bio
		Geography: bio geography
9 TO 12	Sem1: none	Sem 1: GEOACOR02T Cartographic
	Sem 3: none	techniques: Grids. Angular, linear systems of
	Sem 5:GEOACOR12P: GIS practice	measurement
		Sem 3: GEOACOR06T Geography of India:
		mineral and power resources, industrial
		development
		Sem 5:GEOACOR12T: RS & GIS: concept
		of GIS, principles of preparing attribute
		tables and data manipulation
		Sem 5: GEODSE01T: Soil & Bio
		Geography: bio geography
13	Sem1: none	Sem 1: GEOACOR02T Cartographic

	Sem 3: none	techniques: Grids. Angular, linear systems of
	Sem 5:GEOACOR12P: GIS practice	measurement
	_	Sem 3: GEOACOR06T Geography of India:
		regionalisation
		Sem 5:GEOACOR12T: RS & GIS: principles
		of GNSS positioning and waypoint
		collection, transferring waypoints to GIS
		Sem 5: GEODSE01T: Soil & Bio
		Geography: bio geography
14	Sem1: none	Revision
	Sem 3: none	Revision
	Sem 5: Final sheet preparation	Revision
15 TO 17	Sem1: none	Revision
	Sem 3: none	Revision
	Sem 5: class test & viva	Revision
18	Sem1: none	Class tests
	Sem 3: none	Class tests
	Sem 5: class test & viva	Class tests

Name of the Teacher: Dr Shewli Shabnam

Paper: GEOACOR1T, GEOACOR2T & 2P, GEOACO 5T & 5P, GEOACOR7T & 7P, GEOACOR11T & 11P, GEOADSE03T, GEOHGEC01T, GEOHGE03T & 3P

Time	Semester	Theory syllabus to be covered	Practical syllabus to be
frame			covered
Week 1 to	I	GEOACOR1T: Earth's tectonic and structural	GEOACOR2P: Graphical
Week 4		evolution with reference to geological time scale	construction of scales:
		GEOACOR2T: Concept and application of scales:	Plain, comparative
		Plain, comparative	
		GEOHGE01T: Planetary wind System	
	III	GEOACOR5T: Circulation in the atmosphere:	GEOACOR5P:
		Planetary winds, jet stream, index cycle, Air mass	Interpretation of daily
		GEOHGE03T: Map projections: Criteria for choice	weather map: Monsoon
		of projections, Attributes and properties of Zenithal	and post-monsoon
		Gnomonic Polar Case	GEOHGE03P:
			Construction of Polar
			Zenithal Gnomonic
			Projection
	V	GEOACOR11T: Fieldwork in geographical studies:	GEOACOR11P:
		Role and significance, selection of study area and	Fieldwork and research
		objectives, pre-field academic preparations, ethics of	methodology (Lab):
		fieldwork, Field techniques and tools: Participant	Discussion about old field
		and non-participant observations, questionnaire	studies conducted by the
		(open, closed, structured and non-structured), interview	department
		GEOADSE03T: Development of population	
		geography as a field of specialization, relation	
		between population geography and demography,	
		sources of population data, their level of reliability	
		and problems of mapping	
Week 5 to	I	GEOACOR1T: Earth's interior with special	GEOACOR2P: Graphical
			<u> </u>

Week 8		reference to seismology	construction of scales:
		GEOACOR2T: Concept and application of scales:	Diagonal
		Diagonal GEOHGE01T: Characteristics of Monsoon	
	III	GEOACOR5T: Fronts: Warm and cold,	GEOACOR5P:
		frontogenesis and frontolysis, Tropical and mid-	Interpretation of daily
		latitude cyclone	weather map: Monsoon
		GEOACOR7T: Importance and significance of	and post-monsoon
		statistics in geography, Sources of geographical data	GEOHGE03P:
		for statistical analysis	Construction of Polar
		GEOHGE03T: Attributes and properties of Zenithal	Zenithal Stereographic
		Stereographic Polar Case	Projection
	V	GEOACOR11T: Field techniques and tools:	GEOACOR11P:
		Landscape survey using transects and quadrants,	Fieldwork and research
		constructing a sketch, photo and video	methodology (Lab):
		recordingGEOADSE03T: Measurements of fertility	Discussion and
		and mortality, concept of cohort and life table,	identification of the study
		Population and development: population-resource	area for field visit
TT 1.0.	т	regions	GEO L GODAN G 1: 1
Week 9 to	I	GEOACORIT: Isostasy: Models of Airy and Pratt	GEOACOR2P: Graphical
Week 12		GEOACOR2T: Concept and application of scales:	construction of scales:
		Vernier	Vernier
_	III	GEOAGOP5T: Climatic elegification often Vannan	CEOACOD7D, From the
	111	GEOACOR5T: Climatic classification after Koppen,	GEOACOR7P: From the
		Thornthwaite (1955) and Oliver	data matrix a sample set
		GEOACOR7T: Sampling: Need, types, and significance and methods of random sampling	(20%) would be drawn using random, systematic
		GEOHGE03T: Attributes and properties of	and stratified methods of
		Cylindrical Equal Area and Mercator's Projection	sampling and locate the
		Cymidical Equal Area and Mercator's Projection	samples on a map with a
			short note on methods
			used
			GEOHGE03P:
			Construction of
			Cylindrical Equal Area
			and Mercator's Projection
	V	GEOADSE03: Migration: Causes and types,	GEOACOR11P:
		National and international patterns of migration with	Fieldwork and research
		reference to India, Population policies in developed	methodology (Lab):
		and less developed countries, India's population	Collection of maps of the
		policies, population and environment dichotomy and	study area and secondary
		implication for the future	data analysis
Week 13	I	GEOACOR2T: Maps: Classification, types and	GEOACOR2P: Revision
		components of a map	
		GEOHGE01T: Revision	
	III	GEOACOR5T: Monsoon circulation and mechanism	GEOACOR5P:
		with reference to India	Construction and
_	**	GEOHGE03T: Concept of UTM projection	interpretation of wind rose
	V	GEOADSE03: Concept of human development	GEOACOR11P:
		index and its components	Fieldwork and research
			methodology (Lab):
Wast 14		Internal Examination	Preparation of field report
Week 14 Week 15	т	Internal Examination GEOACOR1T: Plate tectonics	GEOACOR2P: Revision
to Week	I	GEOACOR11: Plate tectonics GEOACOR2T: Coordinate systems: Polar and	JEUACUKZP: KeVISION
IO W CCK		OLOACOK21. Coolullate systems. Potat and	1

17		Rectangular	
		GEOHGE01T: Climatic classification: Koppen	
	III	GEOACOR5T: Condensation: Processes and forms,	GEOACOR5P:
		mechanism and forms of precipitation	Hythergraph and
		GEOHGE03T: Attributes and properties of Bonne's	Climograph
		Projection	GEOHGE03P:
			Construction of Bonne's
			Projection
	V	GEOADSE03: Contemporary issues: Ageing of	GEOACOR11P:
		population, declining sex ratio, HIV/AIDS	Fieldwork and research
			methodology (Lab):
			Preparation of field report
Week 18	I	GEOACOR1T &GEOACOR2T: Revision	GEOACOR2P: Revision
	III	GEOACOR5T: Revision	GEOACOR5P: Revision
,]	V	GEOACOR11T& GEOADSE03T: Revision	GEOACOR11P:
			Fieldwork and research
			methodology (Lab):
			Preparation of field report

BIDHANNAGAR COLLEGE, GOVERMENT OF WEST BENGAL, SALTE LAKE, KOLKATA <u>TEACHING PLAN FOR EVEN SEMESTER, UG COURSE</u> <u>DEAPARTMENT OF GEOGRAPHY</u>

SESSION: 2022-23

CLASS: B.A/BSC.

SEMESTER: 2, 4 AND 6 NAME OF THE TEACHER: H K Datta

NAME OF THE TEACHER: H.K. DATTA

	Practical syllabus to be covered	Theory syllabus to be covered
Week 1	CC04P: Profile Survey using	CC03T: HUMAN GEOGRAPHY: Types and
To	Dumpy Level.	patterns of Rural Settlement.
Week 4	CC014P: Disaster Management.	CC04T: CARTOGRAMS AND THEMATIC
		MAPPING: Basic concept of: Dumpy Level and
		Theodolite.
		GEC02T: UNIT-I: MIGRATION: Types, Causes
		and consequences.
		CC08T: UNIT-II: THEORIES AND MODELS OF
		REGIONAL DEVELOPMENT: CUMULATIVE
		CAUSATION (MYRDALL).
		CC09T: UNIT-II: CONCEPT AND
		CLASSIFICATION OF ECONOMIC
		ACTIVITIES.
		CC010T: GEOGRAPHERS' APPROACH TO
		ENVIRONMENTAL STUDIES.
		GEC04T: ENVIRONMENTAL GEOGRAPHY:
		Concepts and approaches.
		CC014T: DISASTER MANAGEMENT
		UNIT-I: 4. Hazards mapping: Data and geospatial
		techniques(for hazards enlistednin Unit-II and Core
		14P)
		DSE04T: HYDROLOGY AND
		OCEANOGRAPHY
		UNIT-I : 1. Systems approach in hydrology: Global
		hydrological cycle: Its physical and biological role
		4. Groundwater: Occurrence and storage. Factors
		controlling recharge, discharge and movement.

Week 5	CC04P: Profile Survey using	CC03T: HUMAN GEOGRAPHY: Types and patterns
To	Dumpy Level.	of Rural Settlements.
Week 8	CC014P: Disaster Management.	CC04T: CARTOGRAMS AND THEMATIC
		MAPPING : Basic concepts of: Dumpy level and Theodolite.
		GEC02T: UNIT-II: SECTORS OF THE
		ECONOMY : Primary, Secondary and quaternary.
		CC08T: UNIT-II: THEORIES AND MODELS OF
		REGIONAL DEVELOPMENT: Stages of
		development (Rostow).
		CC09T: UNIT-II: FACTORS AFFECTING
		LOCATION OF ECONOMIC ACTIVITY WITH
		SPECIAL REFERENCE TO AGRICULTURE (Von Thunen).
		CC010T: Concept of holistic environment and
		systems approach.
		GEC04T: ENVIRONMENTAL GEOGRAPHY-
		Human-Environment Relationship in equatorial, desert,
		mountain and coastal regions.
		CC014T: DISASTER MANAGEMENT
		UNIT-II : 5. Earthquake: Factors, Vulnerability,
		consequences and management DSE04T: HYDROLOGY AND OCEANOGRAPHY
		2. Run Off: controlling factors. Infiltration and
		evapotranspiration. Run off cycle
Week 9	CC04P: Profile Survey using	CC03T: HUMAN GEOGRAPHY: Types and patterns
To Week 12	Dumpy Level. CC014P : Disaster Management.	of Rural Settlements. CC04T: CARTOGRAMS AND THEMATIC
week 12	CC014P: Disaster Management.	MAPPING: Basic concepts: Dumpy level and
		Theodolite.
		GEC02T: UNIT-II: Types and patterns of Rural
		Settlements.
		CC08T: THEORIES AND MODELS FOR
		REGIONAL DEVELOPMENT: Growth Pole
		Model(Perroux). CC09T: UNIT-II: FACTORS AFFECTING
		LOCATION OF ECONOMIC ACTIVITY WITH
		SPECIAL REFERENCE TO INDUSTRY (Weber).
		CC010T: ECOSYSTEM: Concept, Structure and
		Functions.
		GEC04T: Concept of holistic environment and
		system approach.
		CC014T: DISASTER MANAGEMENT
		UNIT-II: 6 Landelide: Feeters, yulnershility, consequences and
		6. Landslide: Factors, vulnerability, consequences and management
		DSE04T: HYDROLOGY AND OCEANOGRAPHY
		UNIT-I:
		3. Drainage basin as a hydrological unit. Principles of
		water harvesting and watershed management

Week 13	CC04P: Profile Survey using Dumpy Level. CC014P: Disaster Management.	CC03T: HUMAN GEOGRAPHY: Types and patterns of Rural Settlements. CC04T: CARTOGRAMS AND THEMATIC MAPPING: Basic concepts: Dumpy level and Theodolite. CC09T: UNIT-II: PRIMARY ACTIVITIES: Agriculture, Forestry, Fishing and mining.
		CC010T: ECOSYSTEM: Concept, Structure and Functions. CC014T: DISASTER MANAGEMENT UNIT-II: 8. Riverbank erosion: Factors, vulnerability, consequences and management DSE04T: HYDROLOGY AND OCEANOGRAPHY 4. Groundwater: Occurrence and storage. Factors controlling recharge, discharge and movement.
Week 14	INTERNAL EXAMINATION	INTERNAL EXAMINATION
Week 15 To Week 17	CC04P: Profile Survey using Dumpy Level. CC014P: Disaster Management.	CC03T: HUMAN GEOGRAPHY: Types and patterns of Rural Settlements. CC04T: CARTOGRAMS AND THEMATIC MAPPING: Basic concepts: Dumpy level and Theodolite. CC09T: UNIT-II: SECONDARY ACTIVITIES: Manufacturing (cotton textile, iron and steel), concept of manufacturing regions, special economic zones and technology parks. CC014T: DISASTER MANAGEMENT - Revision DSE04T: HYDROLOGY AND OCEANOGRAPHY - Revision

Week 18	CC04P: Revision CC014P: Revision	Revision

Name of the teacher: Dr. Somdatta Das

	Practical syllabus to be Covered	Theory Syllabus to be covered
Week	CC04P:Preparation of choropleth map	CC03T:Concept and classification of
1	CC10P:Preparation of schedule/	race
to	questionnaire	CC04T:Choropleth, Isopleth,
Week	CC14P: Preparation of project report on	Proportional circle
4	disaster management	CC08T:concept, types, objectives and principles of regional planning SSEC02M:Sample plans, sampling distribution DSE06T:Iron ore, bauxite, coal and petroleum resource

		CECOST Page and the section
		GECO2T:Race, cultural region
		GEC04T:Concept of ecosystem
\A/aalı	CCOAD-Draggertianal pia diagram propagation	CCOST. Eth minity Coulty and an aring hand
Week	CC04P:Proportional pie diagram preparation	CCO3T:Ethnicity, Cultural region based
5	CC10P:Preparation of schedule/	on language and religion
to	questionnaire	CC04T:Line graph, Bar graph, Landuse
Week	CC14P: Preparation of project report on	and Landcover map
8	disaster management	CC08T:Need for regional planning and
		multi-level planning in India
		SSEC02M:Simple curvilinear
		regression, correlation
		DSE06T:Natural gas, nuclear power,
		hydel power
		GEC02T:Religion and language
		GEC04T:Structure of ecosystem
Week	CC04P:Preparation of dot and sphere	CC03T:Morphology of urban
9	diagram	settlement
to	CC10P:Preparation of schedule/	CC04T:Concepts of rounding,
Week	questionnaire	scientific rotation, logarithm and
12	•	
12	CC14P: Preparation of project report on	antilogarithm
	disaster management	CC08T:Concept of growth and
		development
		Economic, social and environmental
		indicators of development
		SSEC02M:Introduction to multivariate
		analysis, time series components
		DSE06T:Non-conventional energy
		resources, energy crisis
		GEC02T:Trend and pattern of
		urbanisation
		GEC04T:Function of ecosystem
Week	CC04P:Practise	CC03T:Preparation and interpretation
13	CC10P:Practise	of socio-economic maps
	CC14P: Preparation of project report	CC04T:Morphology of urban
		settlement
		CC08T:Human development
		SSEC02M:Time series analysis
		DSE06T:Sharing of natural resource
		GEC02T:Illiteracy and poverty
		GEC04T:Concept of ecosystem
Maak	Internal Eventination	
Week	Internal Examination	Internal Examination
14	00040	00007 8
Week	CC04P:Practise	CC03T: Revision
15	CC10P:Practise	CC04T: Revision
to	CC14P: Project report preparation	CC08T:Growth Pole Theory
Week		SSEC02M: Revision
17		DSE06T:Water resource sharing
		GEC02T:Revision
		GEC04T: Revision
Week	CC04P:Practise	Revision of all papers
18	CC10P:Practise	' '
	CC14P: Preparation for viva on project	
	report	
	report	

NAME OF TEACHER: RITUPARNA KHAN

WEEK	PRACTICAL TOPICS	THEORETICAL TOPICS
1 TO 4	Sem2: none	Sem2: GEOACOR03T Nature, scope and recent
1104	Sem 4: none	trends in Human Geography.
	Sem6: Disaster Management project	Sem 4: GEOACOR08T Regional Panning:
	Senio. Disaster Management project	metropolitan concept & urban region
		Sem 4: GEOACOR09T Economic Geography:
		meaning and approaches, concepts
		Sem6: GEOACOR13T: Geographical Thought:
		development of geography, impact of dark age,
		age of discovery and exploration.
5 TO 8	Sem2: none	Sem 2: GEOACOR03T Approaches to study
	Sem 4: none	Human Geography.
	Sem6: Disaster Management project	Sem 4: GEOACOR09T Economic Geography:
		concept of economic man, theories of choices,
		economic distance & transport costs,
		classification of economic activities, location
		theory, case studies of agriculture
		Sem6: GEOACOR13T: Geographical Thought:
		transition from cosmography to scientific
		geography, evolution of thoughts in Germany,
		France, Britain, USA
9 TO 12	Sem2: none	Sem 2: GEOACOR03T UNIT II: Evolution of
	Sem 4: none	human societies. Human adaptation to
	Sem6: Disaster Management project	environment.
		Sem 4: GEOACOR09T transnational sea routes,
		railways, highways, international trade and
		economic blocs
		Sem6: GEOACOR14T: Disaster Management:
		classification of hazards and disasters, approaches
10		to hazard study, responses to hazards
13	Sem2: none	Sem 2: GEOACOR03T Population-resource
	Sem 4: none	regions.
	Sem6: Disaster Management project	Sem 4: GEOACOR10T Environmental
		Geography: Geographers' approach to
		environmental studies, holistic environment,
		systems approach, ecosystem, environmental policies, global initiatives to environmental
		management
		Sem6: GEOACOR14T: Disaster Management:
		landslides, tropical cyclone
14	Sem2: none	Revision
1 7	Sem 4: none	Revision
	Sem6: Disaster Management project	Revision
15 TO	Sem2: none	Revision
17	Sem 4: none	Revision
1	Sem6: Disaster Management project	Revision
18	Sem2: none	Class tests
	Sem 4: none	Class tests
	Sem6: Disaster Management project	Class tests
	signing	
L		1

Name of the Teacher: Dr Shewli Shabnam

Paper: GEOACOR3T, GEOACOR4T & 4P, GEOACOR8T, GEOACOR10T & 10P, GEOACOR13T, GEOACOR14P, GEOADSE06T, GEOHGEC02T, GEOHGEC04T

Time frame	Semester	Theory syllabus to be covered	Practical syllabus to be covered
Week 1 to Week 4	II	GEOACOR3T: Population growth and distribution GEOACOR4T: Bearing: Magnetic and true GEOHGEC02T: Factors of growth and distribution of world population	GEOACOR4P: Maths related to bearing
	IV	GEOACOR8T: Concept of regions: Types of regions and their delineation GEOACOR10T: Urban environmental issues and concept of waste GEOHGEC04T: Problems and management of air & water pollution	GEOACOR10P: Interpretation of air quality using CPCB/ WBPCB data
	VI	GEOACOR13T: Contributions of Humboldt and Ritter, Richthofen, Hettner, Ratzel GEOADSE06T: Natural resources: Concept and classification, Significance of resource: Backbone of economic growth and development	GEOACOR14P: Disaster management project
Week 5 to Week 8	II	GEOACOR3T: Population composition GEOACOR4T: Basic concept of surveying and prismatic compass GEOHGEC02T: Demographic transition theory	GEOACOR4P: Traverse survey using prismatic compass
	IV	GEOACOR8T: Concept of regions: Types of regions and their delineation, Concept and causes of underdevelopment GEOHGEC04T: Biodiversity loss	GEOACOR10P: Interpretation of air quality using CPCB/ WBPCB data
	VI	GEOACOR13T: Contributions of Vidal de la Blache, Trends in geography in the post-World War-II period: Quantitative Revolution GEOADSE06T: Approaches to resource utilization: Utilitarian, Conservational, Community-based adaptation	GEOACOR14P: Disaster management project
Week 9 to Week 12	II	GEOACOR3T: Population composition GEOACOR4T: Basic concept of dumpy level GEOHGEC02T: World population composition: Age, gender, literacy	GEOACOR4P: Traverse survey using prismatic compass
	IV	GEOACOR8T: Regional development in India: Disparity and diversity GEOHGEC04T: Solid and liquid waste management	GEOACOR10P: Preparation of check-list for EIA
	VI	GEOACOR13T: System approach in geography, Evolution of Critical geography: Behavioural and humanistic geography GEOADSE06T: Pressure on resources: Appraisal and conservation of natural resources	GEOACOR14P: Disaster management project
Week 13	II	GEOACOR4T: Basic concept of theodolite GEOHGEC02T: Revision	GEOACOR4P: Traverse survey using prismatic compass
	IV	GEOACOR10T: Urban waste management GEOHGEC04T: Revision	GEOACOR10P: Preparation of check-list

			for EIA
	VI	GEOADSE06T: Sustainable resource development	GEOACOR14P: Disaster
	l		management project
Week 14	1	Internal Examination	
Week 15	II	GEOACOR3T: Space, society and cultural regions	GEOACOR4P: Revision
to Week	I	GEOHGEC02T: Migration: Types, causes and	
17	ı	consequences	
	IV	GEOACOR8T: Need and measures for balanced	GEOACOR10P:
	I	development in India	Preparation of check-list
	I	GEOACOR10T: Space-time hierarchy of	for EIA
	İ	environmental problems: Local, regional and global	
	İ	GEOHGEC04T: Problems and management of	
	l	desertification and soil erosion	
	VI	GEOACOR13T: Radical geography, Changing	GEOACOR14P: Disaster
	ı	concept of time-space in geography in the 21 st century	management project
	ı	GEOADSE06T: Problems of resource depletion-	
	l	global scenario (forest, water, fossil fuel)	
Week 18	II	GEOACOR3T &GEOACOR4T: Revision	GEOACOR4P: Revision
	IV	GEOACOR8T&GEOACOR10T: Revision	GEOACOR10P:
	<u> </u>		Revision
	VI	GEOACOR13T&GEOADSE06T: Revision	GEOACOR14P: Disaster
	<u> </u>		management project

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA Teaching Plan for Department of Philosophy Session (2022-23)

ass: B.A.

mester: 1, 3 and 5 Name of the Teacher: Mrinal Kanti Sarkar

bject: Philosophy

per: CC 2, CC 7 and DSE-2

cov	ectical syllabus to be ered (Paper code to be ntioned)	Theory syllabus to be covered (Paper code to be mentioned)
	n 1: n 3 : n-5	PHIACOR02T: Propositional Logic PHIACOR07T:Concept of Critical Theory, PHISSEC01M- Media Ethics DSE-2: Killing, Suicide and Euthanasia
Sem Sem Sem	3:	PHIACOR02T: The Method of Truth table and Truth Tree as decision procedures PHIACOR07T:Possibility of Metaphysics and Copernican Revolution, PHISSEC01M- Media Ethics DSE-2: Human Rights-Discrimination and its different types
Sem Sem Sem	3:	PHIACOR02T: Concept of Tautologous, Contradictory and Contingent PHIACOR07T: Distinction between Analytic and Synthetic Judgement DSE-2:War, Violance and Terrorism
Sem Sem Sem-	3:	PHIACOR02T: Method of Deduction-Constuction of formal proof of validity by using 19 Rules PHIACOR07T: Possibility of Synthetic a priori Judgement DSE-2: Concept of Environmental Ethics
o wee	k 14	Internal Exam
Sem Sem Sem-	3:	PHIACOR02T: IP and CP PHIACOR07T: Space and Time, PHISSEC01M- Media Ethics DSE-2: Feminist Ethics, Care ethics, female foeticide abortion
Revis	ion, Practise	Revision

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA Teaching Plan for Even Semester, UG Course Department of Philosophy Session (202**1**-2**2**)

Class: B.A.

Semester: 2, 4 and 6 Name of the Teacher: Mrinal Kanti Sarkar

Subject: Philosophy

Paper: CC 4, CC 8 and DSE05T (Theory)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Sem 2: Sem 4: Sem 6:	PHIACOR04T: Need for Quantification Theory PHIACOR08T: Concept of Social Philosophy and Political Philosophy, PHISSEC02M- Business Ethics DSE05T:Problems of Philosophy-Appearance and Reality
Week 5 to week 8	Sem 2: Sem 4: Sem 6:	PHIACOR04T: Quantifiers, Propositional Functions and Quantifier PHIACOR08T: Basic Concepts of Society, Community Association. PHISSEC02M- Business Ethics DSE05T:Knowledge by acquaintance and knowledge by description
Week 9 to Week 12	Sem 2: Sem 4 : Sem 6:	PHIACOR04T: Individual Constant and Individual Variables PHIACOR08T: Caste and Cast ,Social groups DSE05T:On Induction
Week 13	Sem 2: Sem 4 : Sem 6:	PHIACOR02T: Quantification Rules and proving validity PHIACOR08T: Social Change-Marxist and Gandhian View DSE05T: The value of Philosophy
Week13 t	to week 14	Internal Exam
Week 15 to 17	Sem 2: Sem 4: Sem 6:	PHIACOR02T: Proving Validity and Invalidity PHIACOR08T: Family ,The Marxist interpretation of Family DSE05T: Russell, Problems of Philosophy
Week 18	Revision, Practise	Revision

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA Teaching Plan for Odd Semester, UG Course Department of Philosophy Session (2022-23)

Class: B.A.

Semester: 1, 3 and 5

Name of the Teacher: Utpal Mandal

Subject: Philosophy

Paper: CC 2, CC5, DSE03Tand CC 12 (Theory)

	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
to week 4	Sem 1: Sem 3 : Sem 5	PHIACOR02T : Statement and Statements forms PHIACOR05T: Brief description of Empiricism PHIACOR012T:Defination Dharma,Sadharana DSE03T: Proofs for the existence of God ,Ontological
week 8	Sem 1: Sem 3: Sem 5	PHIACOR02T: The Method of Truth table PHIACOR05T:Locke-Ideas and their classification PHIACOR012T: Vishesh, Varna Dharma,Ashram Dharma swadharma DSE03T: Cosmological, Teleological and Moral
Week 12	Sem 1: Sem 3: Sem 5	PHIACOR02T: Truth Tree Method PHIACOR05T: Refutation of innate ideas, Substance PHIACOR012T: Karma-Nitya Naimittik ,Kamya DSE03T:Ground for the disbelieve in God, Sociological and Freudian Theory
WCCK 13	Sem 1: Sem 3: Sem 5	PHIACOR02T: Method of Deduction-Construction of formal proof of validity by using 19 Rules PHIACOR05T: Locke's realism and theory of knowledge PHIACOR012T: Nishkam, Sanchita, Sanchiyoman and Pararabdha Karma DSE03T: Some major Religious: Hinduism, Buddhism
Week13 to v	week 14	Internal Exam
Week 15 to 17	Sem 1: Sem 3: Sem 5	PHIACOR02T : IP and CP DSE03T: Christianity and Islam Dharma
Week 18	Revision, Practise	Revision

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA Teaching Plan for Even Semester, UG Course Department of Philosophy Session (2022-23)

Class: B.A.

Semester: 2, 4 and 6

Subject: Philosophy

Paper: CC 4, CC 9 and CC14 (Theory)

Name of the Teacher: Utpal Mandal

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Sem 2: Sem 4: Sem 6	PHIACOR04T: Difference between Deduction and Induction PHIACOR09T: Relation between Philosophy of Mind ,Psychology and Philosophy of Psychology PHIACOR014T:Some modern Indian Thinkers
Week 5 to week 8	Sem 2: Sem 4: Sem 6	PHIACOR04T: Mills Method and Copi's Criticism PHIACOR09T: Psychology as Science, Associationism-Perception and learning PHIACOR014T: Vivekananda: Practical Vedanta, On Yoga , unification of Religions
Week 9 to Week 12	Sem 2: Sem 4: Sem 6	PHIACOR04T: Induction per simple enumeration, Analogical Inference PHIACOR09T: Gestalt Theory of Perception and learning PHIACOR014T: Gandhi: Sarvadaya, Non-violence and Trustiship, Caste
Week 13	Sem 2: Sem 4: Sem 6	PHIACOR04T : Concept of Hypothesis PHIACOR09T: Methods of psychology(Introspection, Extrospection) PHIACOR014T: Aurobindo: Evolution and Involution
Week13 to	week 14	nternal Exam
Week 15 to 17	Sem 2: Sem 4 : Sem 6	PHIACOR04T: Criteria of Scientific Hypothesis PHIACOR09T: Experimental method PHIACOR014T: Ambedkar: Caste, Equality and Fraternity
Week 18	Revision, Practise	Revision

Bidhannagar College

Teaching Plan for Odd Semester

Philosophy

Session 2022-2023

Name of Wi Teacher: Dr. Sankalik John

Week	Semester	Paper	Subject
Week 1-4	Sem-I	CC-1	Introduction about Western Philosophy, Descates : (Introduction-Method of Doubt)
	Sem-III	CC-6	Samkhya Philosophy (Duhkkha-traya, Satkaryavada as opposed to Asatkaryavada, argument in favour of Satkaryavada, Prakrti its constituents and evolutes, Arguments for the existence of prakriti, purusa Arguments for its existence, plurality of purusa, liberation, Yoga Citta, Cittabhumi)
	Sem-V	CC-11	Indian Philosophy of Language [Tarkasamgraha- Sabdobodha]]
Week 5-8	Sem-I	CC-1	Descartes -Cogito, Different types of Ideas, Criterion of Truth
	Sem-III	CC-6	Yoga Philosophy (Cittavrtti, Cittavrtti nirodha, Astangayoga concept of Isvara)
	Sem-V	CC-11	Indian Philosophy of Language [Tarkasamgraha- Sabdobodha]
Week 9-12	Sem-I	CC-1	Descartes, Spinoza
	Sem-III	CC-6	Mimamsaka Philosophy(Pramanas, Arthapatti)
	Sem-V	CC-11	Indian Philosophy of Language [Tarkasamgraha- Sabdobodha]
Week L5-17	Sem-I	CC-1	Spinoza
	Sem-III	CC-6	Mimamsaka Philosophy(Anupalabdhi- Prabhakara and Bhatta View)
	Sem-V	CC-11	Indian Philosophy of Language [Tarkasamgraha- Sabdobodha]
Veek 8	Revision, Cla	ass Test etc.	

Bidhannagar College

Teaching Plan for Even Semester

Philosophy

Session 2022-2023

Week	Semester	Paper	Subject
Week 1-4	Sem-II	CC-3	Introduction, Astika Schools, Nyaya Philosophy(Four Pramanas, Pratyaksa-Definition, Classification-Nirvikalpaka-Savikalpaka, Laukika-Aloukika), Pratyavijna
	Sem-IV	CC-10	Tarkasamgraha- Karana, Karana, Anubhava, Yathartha, Ayathartha
	Sem-VI	CC-13	Western Epistemology Western Epistemology - Knowledge
Week 5-8	Sem-II	CC-3	Nyaya - Anumana Pramana- Definition, Paksa, Sadya, Hetu, Vyapti, Vyaptigrohopaya, Svarthanumana, Pararthanumana,)
	Sem-IV	CC-10	Tarkasamgraha: Anumiti Pramana
	Sem-VI	CC-13	Western Epistemology -Theories of Truth, The Problem of induction
Week 9-12	Sem-II	CC-3	Nyaya – Upamana & Sabda Pramana, Vaisesika – Dravya, Guna, Karma, Samanya, Visesha
	Sem-IV	CC-10	Tarkasamgraha[Anumiti Pramana]
	Sem-VI	CC-13	Western Metaphysics – The problem of Universal, Realism, Idealism, Phenomenalism
Week 15-17	Sem-II	CC-3	Vaisesika- Samavaya, Abhava, Paramanuvada
	Sem-IV	CC-10	Tarkasamgraha (Anumiti Pramana)
	Sem-VI	CC-13	Western Metaphysics -Causal Principles
Week 18	Revision, Class Test Etc.		

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL SALTLAKE, KOLKATA

Teaching Planfor Odd Semester, UG Course

Department of Philosophy Session (2022-23)

Class:B.A.

Name of the Teacher: PARAMITA BASU Semester 1, 3, 5

Subject: Philosophy

S. No	CC1, CC 6, GE 3, CC12 (The Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (1 aper
Week 1	Paper A: Paper B: Paper C etc:	Paper A: PHIACOR01T: Introduction, Plato's Life, Theory of Knowledge Paper B: PHIACOR06T: Advaita Vedanta Philosophy Of Sankara, Sattatraividhyavada, Vivartavada Paper C: PHIHGE003T: Brief Introduction to Indian Philosophy, Carvaka Epistemology and Metaphysics, Nyaya Introduction, Epistemology – Classification of Promonos Paper D: PHIACOR12T: Introduction & Features of Indian Ethics, Difference from Western Ethics, Karmoyoga (cont.)
Week 5 to week 8	Paper A: Paper B: Paper C etc:	Paper A: PHIACOR01T: Plato's Theory of Knowledge and Opinion (remaining), Aristotle's Refutation Paper B: PHIACOR06T: Advaita – Brahman, Relation with Jiva and Jagata Paper C: PHIHGECO3T: Nyaya Epistemology – Protyoksho Lakshana, Classifications: Determinate and Indeterminate, Sannikarsha – Laukika and a-laukika, Anumana Paper D: PHIACOR12T: Karmoyoga, Sthitaprojina, Yogakhema Paper A: PHIACOR01T: Plato's Theory of Idea, Aristotle's
Week 9 to Week 12	Paper A: Paper B: Paper C etc:	Paper A: PHIACORUIT : Plato's Tricol'y Paper B: PHIACORUIT : Plato's Tricol'y Paper B: PHIACORUIT : Sankara's Doctrine of Maya, Ramanuja's Theory of Brahman Paper C: PHIHGECO3T : Vaisesika Metaphysics Paper D: PHIACORUIT : Yogakhema (detailed), Lokusamgraha Paper A: PHIACORUIT : Aristotle's Refutation of Plato's Ideas
Week 13	Paper A: Paper B: Paper C etc:	Paper A: PHIACOROIT : Arbeits of (remaining) Paper B : PHIACOROFT : Continuation of Ramanuja's Theory of Brahman, Jiva Paper C : PHIHGECOST : Vaisesika Metaphysics — Abhava Paper D: PHIACOR12T: Purusarthas
Week1	3 to week 14	Internal Exam
Week 15 to 17	Paper A: Paper B: Paper C etc:	Paper A: PHIACOR01T : Aristotle : Form and Matter Paper B: PHIACOR06T : Jiva (remaining), Prapatti, R efutation of Sankara's Theory of Maya Paper C: PHIHGEC03T : Advarta Metaphysics Paper D: PHIACOR12T: Interrelations among different
Week 18	Revision, Practise	Purusarthas, Sukhavado-Carvaka Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor Even Semester, UG Course

Department of Philosophy Session (2022-23)

Class: B.A.

Semester: 2, 4, 6 Name of the Teacher: PARAMITA BASU

Subject: Philosophy

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be mentioned)
Verl 1	(Paper code to be mentioned)	Paper A: PHIACORO3T : Introduction, Basic Concepts of Rta,
Week 1	Paper A:	Rna, Yajna, Panca-kosha, Atman, Brahman, Jiva, sreyas,
o week 4	Paper B:	praya moksha
	Paper C etc:	Paper R · PHIACOR10T : Brief Overview of Tarkasamgrana,
11 14		Karana, Kaarana, Different Pramanas, Importance of
		Pratuaksha among Different Pramanas
1.1		Paper C : PHIHGECO4T : Introduction, Difference between
		Indian and Western Ethics, Purusarthas, Karma
		Paper D. PHIADSFORT: Chapter 7, Chapter 8 (Partial)
7 1 5	Daner A.	Paper A: PHIACOR03T : Carvaka Epistemology and Metaphysics,
Week 5 to	Paper A:	Rauddha Four Noble Truths
veek 8	Paper B:	Pages B. BUIACOR10T · Pratvaksha lakshana, Laukika and
	Paper C etc:	Alambika Bratuaksha Different kinds of Laukika Sannikuishu
		Paper C: PHIHGECO4T: Carvaka Ethics, Buddhist Ethics, Jaina
		Ethics
		Paper D: PHIADSE06T : Chapter 8 (remaining), Chapter 9
		Page A. PHIACOROST · Rauddha theories of
Week 9 to		Pratityasamutpadavada, Ksnabhangavada, Nairatmyavada,
Week 12	Paper B:	Pagic tangets of Four Bauddha Schools
	Paper C etc:	D. DUIA COPIOT - Different stages of Pratyaksna -
		Nirvikalpaka and Savikalpaka Pratyaksha, their lakshana and
		lifferences
		a pullicronat Moral and Non-moral Actions,
		Teleological Ethics – Hedonism – Psychological Ethical, Ethical
		- Mill (Introduction)
		Paper D: PHIADSE06T : Chapter 10 and 11(Introductory)
		- Ining Introduction, Jivy, Aliva
Va-1-12	Paper A:	Paper A: PHIACOR03T : Jaina Introduction, Jiva, Ajiva Paper A: PHIACOR03T : Justification for admitting Nirvikalpak
Week 13		Paper B : PHIACOR10T : Justification for admitting its
	Paper B:	
	Paper C etc:	Paper C · PHIHGECO4T : Utilitarianism - Will and Deritting
	10 To 10 To	Paper D: PHIADSE06T : Chapter 11
		Internal Exam
Week13	3 to week 14	
		Paper A: PHIACORO3T : Jaina -Dravya, Guna, Paryaya,
Week 15	Paper A:	L L L L L L L L L L L L L L L L L L L
	Paper B:	Anekantavada, Syadavada
o 17		Paper B: PHIACOR10T: Upamana pramana Paper C: PHIHGEC04T: Deontological Ethics – Kant, Theories
	Paper C etc:	Paper C: PHIHGECO4T : Deontological Ethics
	A Treatment of the second	numichment
		Paper D: PHIADSE06T : Chapter 12
Veek 18	Revision, Practise	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE ,KOLKATA

Teaching Plan for oddSemester UG course

Department of Philosophy

Session(2022-2023)

Class: B.A

Semester1,3,5

Name of the Teacher:Tanima Chatterjee

Subject : Philosophy

Paper: CC1,CC5 CC7, CC11,DSE03T,GEC01T

SI. No	WEEK	Theory Syllabus to be covered
1.	Week 1 to week4	PHIACOR01T:Theory of knowledge and opinion
		PHIACOR07T :Introduction to Ethics-Definition ,Scope
		,Presupposition, Basic concept of morality
		PHIACOR5T: Hume: Impression and Idea
		PHIACOR11T :Western philosophy of language:John
		Hospers Word -Meaning
		PHIHGECO1T : Basic concept to Contraposition
2.	Week 5 to week 8	PHIACOR01T: Refutation of Plato's theory of knowledge by
۷.	Week 5 to the	Aristotle
		PHIACOR07T: Moral problems, Moral action, Object of
		moral judgement
		PHIACOR05T: Association of Ideas
		PHIACOR11T: Ambiguity
		PHIHGEC01T: Categorical proposition to syllogism
3.	Week 9 to week 12	PHIACORO1T: Plato's theory of Idea
э.	VVCCK 5 to Walnut	PHIACOR07T:Ethical theories: Descriptivism vs
		Normativism Prescriptivism
		PHIACOR05T: Relation of Ideas and Matters of Fact
		PHIACOR11T: Vagueness
		PHIHGECO1T: Venn diagram
	Week 13	PHIACOR01T: Aristotle's refutation of Plato's theory of Idea
4.	VVECK 13	PHIACOR07T:Deontologism,Teleologism
		PHIACOR05T:Causality
		PHIACOR11T: Practice from covered topics
		PHIHGEC01T: Symbolic Logic
_	Week 13to14	Internal exam
5.	Week 15 to 17	PHIACORO1T : Aristotle: Form and Idea
6.	Week 13 to17	PHIACOR07T:Naturalism, Naturalistic Fallacy
		PHIACOR05T: Scepticism
		DUIACOR11T: Speech Act by P.Alston

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for evenSemester UG course

Department of Philosophy

Session(2022--2023)

Class: B.A

Semester 2,4,6

Name of the Teacher:Tanima Chatterjee

Subject: Philosophy

Paper: CC4,CC9,DSE06T,GEC02T

SI. No	WEEK	Theory Syllabus to be covered
1.	Week 1 to week4	PHIACOR04T:Probability
		PHIACOR09: Relation between Psychology and
		philosophy of mind ,Psychology as science.
		PHIADSE06T: Chapter1 and 2
		PHIHGEC02T: Theories regarding origin of knowledge
2.	Week 5 to week 8	PHIACORO4T: Induction per simple enumeration
		PHIACOR09T: Methods of Psychology , Perception-
		Associationism ,Gestalt theory of perception
		PHIADSE06T: Chapter 3
		PHIHGEC02T:Realism and Idealism
3.	Week 9 to week 12	PHIACOR04T: Analogical Inference
3.	VVCCK 5 to Week ==	PHIACOR09T: Associationism- Learning ,Gestalt
		theory of learning
		PHIADSE06T: Chapter 4
		PHIHGECO2T: Substance
4.	Week 13	PHIACOR04T: Probability Practice
4.	VVCCK 25	PHIACOROGY: freud's theory-Conscious and
		unconscious; Id ,ego, super ego; Behaviourism.
		PHIADSE06T: Chapter 5
		PHIHGECO2T: Causality
5.	Week 13 to14	Internal exam
6.	Week 15 to17	PHIACOR04T: Criteria of scientific hypothesis
0.		PHIACOR09T: Relation between mind and body
		PHIADSE06T: Chapter 6
		PHIHGECO2T: Relation betweenmind and body.

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for Odd Semester, UG course

Department of Statistics

Session 2022-23

Class:B.A/ B.Sc **Semester 1,3,5**

Name of the Teacher: Prof. Debesh Roy **Subject: Statistics**

Paper: CC1, CC07 (Theo		y and Practical)
S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	STSACOR01T: Definition, scatter diagram, simple correlation, linear regression and principle of least squares, , , STSACOR07T: Concept of population and sample, complete enumeration versus sampling, sampling and non-sampling errors. Types of sampling: non-probability and probability sampling, basic principles of sample survey, estimates of population mean, total and proportion, variances of these estimates, estimates of their variances and sample size determination.	STSACOR01P: Solution of numerical problems on topics covered in STSACOR01T 1. Fitting of polynomials, exponential curves. 2. Karl Pearson correlation coefficient. 3. Correlation coefficient for a bivariate frequency distribution STSACOR07P: 1. To select a SRS with and without replacement.
Week 5 to week 8	STSACOR01T: Fitting of polynomials and exponential curves STSACOR07T: Simple random sampling with and without replacement, definition and procedure of selecting a sample,	STSACOR01P: Solution of numerical problems on topics covered in STSACOR01T 4. Lines of regression, angle between lines and estimated values of variables. 5. Spearman rank correlation with and without ties. STSACOT07P: 2. For a population of size 5, estimate population mean, population mean square and population variance. Enumerate all possible samples of size 2 by WR and WOR and establish all properties relative to SRS.
Week 9 to Week 12	STSACOR01T: Spearman rank correlation, correlation ratio STSACOR07T: Stratified random sampling, Technique, estimates of population mean and total, variances of these estimates,	STSACOR01P: Solution of numerical problems on topics covered in STSACOR01T 6. Computation of correlation ratio. 7. Computation of intra class correlation coefficient STSACOR07P:

	1	
	proportional and optimum	3. For SRSWOR, estimate mean, standard error, the sample size
	allocations and their comparison	4. Stratified Sampling: allocation of sample to strata by
	with SRS. Practical difficulties in	proportional and Neyman's methods. Compare the efficiencies of
	allocation, estimation of gain in	above two methods relative to SRS.
	precision.	5. Estimation of gain in precision in stratified sampling
Week 13	STSACOR01T: intra-class correlation	STSACOR01P: Solution of model numerical problems on
	STSACOR07T: Systematic Sampling,	topics covered in STSACOR01T
	Technique, estimates of population	
	mean and total, variances of these	STSACOR07P:
	estimates (N=n x k case).	6. Comparison of systematic with stratified sampling and SRS
	Comparison of systematic sampling	in the presence of a linear trend
	with SRS and stratified sampling in	
	the presence of linear trend and	
	corrections.	
Week13	3 to week 14	Internal Exam
	T	
Week 15	STSACOR01T: Solution of model	STSACOR01P: Solution of model numerical problems on
to 17	questions.	topics covered in STSACOR01T
	STSACOR07T: Ratio and Regression	
	methods of estimation in simple	STSA07P:
	random sampling. Hartley-Ross	
	estimator. Cluster sampling (equal-	7. Ratio and Regression estimation: Calculate the population
	size clusters only) estimation of	mean or total of the population. Calculate mean squares.
	population mean and its variance,	Compare the efficiencies of ratio and regression estimators
	Concept of sub sampling. Two-	relative to SRS.
	stage sampling. Ratio and	8. Cluster sampling: estimation of mean or total, variance of the
	Regression methods of estimation	estimate, estimate of intra-class correlation coefficient, efficiency
	in simple random sampling.	as compared to SRS.
	Hartley-Ross estimator. Cluster	9. STSA07T: Two stage sampling
	sampling (equal-size clusters only)	
	estimation of population mean and	
	its variance, cluster and uni-stage	
	sampling Paper C etc:	
	Concept of sub-campling Two	
	Concept of sub sampling. Two-	
	stage sampling, Estimation of	
	Population mean and variance of	
	the estimate, comparison between	
	two-stage.	

Class:B.A/ B.Sc Semester 1,3,5

Name of the Teacher: Mr. Arup Kumar Hait

Subject: Statistics

Paper: STSACOR01, STSACOR11(Theory and Practical)

S. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	STSACOR01P	STSACOR01T
to week 4	Graphical representation of data.Stem and Leaf Display	Definition and scope of Statistics, concepts of statistical population and sample.
	Stelli aliu Leai Display	Data: quantitative and qualitative, attributes, variables, scales of measurement: nominal, ordinal, interval and ratio. Presentation: tabular and graphical, including histogram and ogives, column diagram and step diagrams. Stem and Leaf display. STSACOR11T
	STSACOR11P	Stochastic Process: Introduction and Stationary Process.
	Problems on Markov Chain	Markov Chains: Definition of Markov Chain, transition probability matrix, order of Markov chain, Markov chain as graphs, higher transition probabilities.
Week 5 to	STSACOR01P	STSACOR01T
week 8	Problems based on measures of central tendency.	Measures of Central Tendency: mathematical and positional.
	 STSACOR11P Determination of trend by curve fitting Determination of trend by moving averages 	STSACOR11T Time Series as a Stochastic Process. Time Series data. Application of time series from various fields, Components of a times series, Decomposition of time series. Estimation of trend by free hand curve method, method of semi averages, fitting mathematical curves, and growth curves. Method of moving averages.
Week 9 to Week 12	 STSACOR01P Problems based on measures of dispersion. Problems based on combined mean and variance and 	STSACOR01T Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation.
	coefficient of variation. STSACOR11P • Determination of seasonal indices by method of averages, Ratio to Trend, Ratio to Moving Averages and Link Relative method • Harmonic Analysis	STSACOR11T Estimation of seasonal component by Method of simple averages, Ratio to Trend, Ratio to Moving Averages and Link Relative method. Harmonic Analysis. Variate component method. Stationary Time series Weak stationarity, autocorrelation function and correlogram

Week13 to	week 14	nternal Exam
Week 15 to 17	• Problems based on moments, skewness and kurtosis.	STSACOR01T Moments, absolute moments, factorial moments, Measures of skewness and kurtosis. Box Plot. Sheppard's corrections (without proof).
	 STSACOR11P Correlogram Analysis Fitting of AR 1 and AR 2 models Simple Exponential Smoothing 	STSACOR11T Some Special Processes: Moving-average (MA) process and Autoregressive (AR) process of orders one and two, Estimation of the parameters of AR (1) and AR (2) – Yule-Walker equations. Simple Exponential smoothing.

Class: B.Sc. (Honours)
Semesters: 1, 3,5 (CBCS)

Name of the Teacher: Kiranmoy Chatterjee

Subject: Statistics

Paper: STSACOR02T, STSACOR05T, STSACOR05P, STSACOR12T, STSACOR12P (CBCS)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper STSACOR01P(CBCS): 7. Karl Pearson correlation coefficient. 8. Correlation coefficient for a bivariate frequency distribution. 9. Lines of regression, angle between lines and estimated values of variables. Paper STSACOR12P(CBCS): 1. Price and quantity index numbers using simple and weighted average of price relatives. 2. To calculate the Chain Base index numbers. 3. Problems on cost of living index numbers. Paper STSSSEC01M(CBCS): Statistical Data Analysis Using C-programming and Software Packages Minitab: Unit 1	Paper STSACOR01T(CBCS): Definition, scatter diagram, simple correlation, linear regression and principle of least squares. Paper STSACOR02T(CBCS): Vector spaces, subspaces, sum of subspaces, Span. Linear dependence and independence, basis and dimension, dimension theorem. Paper STSACOR05T(CBCS): Unit 1: Two dimensional random variables: Discrete Paper STSACOR12T(CBCS): Index Numbers, price, quantity and value indices, choice of weights, Various formulae and their comparisons. Tests of index numbers. Fisher's ideal index number. Chain Index Number. Consumer Price Index
Week 5 to week 8	Paper STSACOR01P(CBCS): 6. Fitting of polynomials, exponential curves.	Paper STSACOR01T(CBCS): Fitting of polynomials and exponential curves, Spearman rank correlation, correlation ratio, intra-class correlation.

	10. Spearman rank correlation with and without ties. 11. Computation of correlation ratio. 12. Computation of intra class correlation coefficient. Paper STSSSEC01M(CBCS): Statistical Data Analysis Using C-programming and Software Packages Minitab: Unit 2	Paper STSACOR02T(CBCS): Orthogonal vectors, Gram-Schmidt orthogonalization, orthocomplement space. Null space and nullity. A review, theorems related to triangular, symmetric and skew symmetric matrices, idempotent matrices, orthogonal matrices, singular and nonsingular matrices and their properties. Trace of a matrix. Paper STSACOR05T(CBCS): Unit 2: Two dimensional random variables: Continuous Paper STSACOR12T(CBCS): Wholesale Price index & Index of industrial Production- methods of construction and uses. Definition of national income. A brief account of product, expenditure and income approaches for estimation of National Income
Week 9 to	Paper STSACOR05P(CBCS):	Paper STSACOR02T (CBCS):
Week 12	1. Problems based on the property of normal distribution. 2. To find the ordinate for a given area for normal distribution. 3. Application-based problems using normal distribution. 4. Fitting of normal distribution when parameters are given. 5. Fitting of normal distribution when parameters are not given. 6. Fitting of some other continuous distributions.	Row space and column space of a matrix. Definition, properties and applications of determinants for 3rd and higher orders, evaluation of determinants of order 3 and more using transformations. Symmetric and Skew symmetric determinants, Circulant determinants and Vandermonde determinants for nth order. Paper STSACOR05T(CBCS): Unit 3: Generating Functions Unit 4: Standard continuous probability distributions: Uniform, normal, exponential, Cauchy, beta, gamma, lognormal distributions
	Paper STSACOR12P(CBCS): 4. Lorenz curve. 5. Pareto and lognormal fitting. Paper STSSSEC01M(CBCS): Statistical Data Analysis Using C-	Paper STSACOR12T(CBCS): Unit 2: Measurement of poverty and inequality and Social Statistics: Measurement of poverty and inequality, Desirable properties and different descriptive measures including Gini's coefficient, Lorenz curve. Use of Pareto and Log Normal distributions. Measures of unemployment. Comparative Social Statistics, Indices related to
	programming and Software Packages Minitab: Unit 3	human development and gender disparity.
Week 1		S) and Class Tests (for Part II & III in 1+1+1 system)
Week 15	Danar CTCCCECO1N4/CDCC) .	Paper STSACOPORT:
Week 15	Paper STSSSEC01M(CBCS):	Paper STSACOR02T:

Statistical Data Analysis Using C-

programming and Software

Packages Minitab: Unit 4

to 17

Jacobi's Theorem. Product of determinants. Adjoint and inverse of

a matrix and related properties. Use of determinants in solution to

Unit 4: Standard continuous probability distributions:

the system of linear equations.

Paper STSACOR05T(CBCS) :

	Logistic, double exponential and Pareto along with their properties and limiting/approximation cases. Bivariate Normal Distribution and its properties (Statement only).
	Paper STSACOR12T(CBCS): Unit 3: Official Statistics Unit 3: Different Government Organizations

Class:B.Sc

Semester 1, 3 and 5 Name of the Teacher: Suryasish Chatterjee

Subject: Statistics

Paper: STSACOR02T, STSACOR06T, STSACOR06P, STSADSE02T, STSADSE02P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper STSACOR06P: 1. Testing of significance for single proportion and difference of two proportions. 2. Testing of significance for single Poisson mean and difference of means of two independent Poisson distributions. Paper STSADSE02P: 1. Testing of significance and confidence intervals for single proportion and difference of two proportions using CLT. 2. Testing of significance and confidence intervals for single Poisson mean and difference of two Poisson means using CLT table.	Paper STSACOR02T: Sequence of real numbers and their convergence, limits of sequences, Cauchy's general principle of convergence, Cauchy's first theorem on limits, monotonic sequences, limit superior and limit inferior of a bounded sequence Paper STSACOR06T: Definitions of random sample, parameter and statistic, sampling distribution of a statistic. Distributions of functions of random variables. Illustration through simple transformation and generating function technique. Paper STSADSE02T: Convergence in Probability, Weak Laws of Large Numbers and their applications, Convergence in Distribution, relation between two kind of convergence, Slutsky's Theorem, De-Moivre-Laplace Limit Theorem. Normal approximation to Poisson distribution, Statement of Central Limit Theorem (iid case) and its use in test and confidence interval for binomial proportions and Poisson means.
Week 5 to week 8	Paper STSACOR06P: 3. Testing of significance and confidence intervals for single mean and difference of two means	Paper STSACOR02T: Infinite series, positive-termed series and their convergence. Comparison tests, D'Alembert's ratio test and Cauchy's nth root test, (Statements and examples only).

and paired tests. Absolute convergence of series, 4. Testing if the population variance Leibnitz's test for the convergence of alternating series, has a specific value and its Conditional convergence. confidence intervals Paper STSACOR06T: Definition and derivation of p.d.f. of x2 with n degrees of Paper STSADSE02P: 3. Testing of significance and freedom (d.f.) using m.g.f., nature of p.d.f. curve for different degrees of freedom, mean, variance, m.g.f., confidence intervals concerning sample standard deviation, mode, additive property and limiting coefficient of variation and form of $\chi 2$ distribution. Student's and Fishers t-distribution, correlation coefficient (both single Derivation of its p.d.f., nature of sample, two sample cases). probability curve with different degrees of freedom, mean, 4. Testing of significance and variance, moments and limiting form of t confidence intervals using variance distribution stabilizing transformations. Paper STSADSE02T: Derivation and uses of large sample standard error of sample moments, Standard deviation, Coefficient of Variation, b₁ & b₂ measures, Correlation coefficient. Asymptotic distribution of sample quantiles. Transformation of Statistics, Derivation and use of sin-1, square root, logarithmic & Fisher's Z- transformations. Week 9 to Paper STSACOR06P: Paper STSACOR02T: 5. Testing of significance and Statement of the fundamental theorem of algebra and its Week 12 confidence intervals of correlation consequences. Relation between roots and coefficient. coefficients of any polynomial equations. Solutions of cubic and 6. Testing of equality of population biguadratic equations when some variances for two independent conditions on roots of equations are given normal populations and Paper STSACOR06T: related confidence intervals. Snedecore's F-distribution, Derivation of p.d.f., nature of p.d.f. table. curve with different degrees of freedom, mean, variance and mode. Distribution of $1/F(n_1,n_2)$. Relationship between t, F and χ2 distributions. Sampling distributions of sample mean and sample variance when parent population is normal. Null distribution of sample correlation coefficient (statement only). Exact tests relating to Binomial proportion (s) and Poisson mean (s) Paper STSADSE02T: Consistency Asymptotic efficiency, ARE, CAN and BAN estimators. Properties of MLE (statement only) and their uses in testing and confidence interval Week 13 Paper STSACOR06P: Paper STSACOR06T: Null and alternative hypotheses, level of significance, Type I and Type II errors, their probabilities

	7. Testing of ratio of variances for bivariate normal population and related confidence interval Paper STSADSE02P: 5. Determination of the minimum sample size required to achieve normality by sample proportion, mean and standard deviation.	and critical region. Tests of significance and confidence intervals based on χ^2 , t and F distribution when samples are generated from Univariate and Bivariate normal population (s) Paper STSADSE02T: Large Sample distribution of Pearsonian χ^2 statistic, its uses goodness of fit.
	6. Tests for goodness of fit,	
	independence and homogeneity	
	using Pearsonian chi-square	
	statistic	
Week1	3 to week 14	Internal Exam
Week 15		
to 17		Paper STSACOR06T:
		Introduction, distribution of the rth order statistic, smallest and largest order statistics. Joint
		distribution of rth and sth order statistics, distribution of sample median and sample range
		Paper STSADSE02T:
		Chi square tests for independence,
		homogeneity. Yates' correction in a 2x2 contingency table.

Class:B.Sc

Semester 3 and 5 Name of the Teacher: Soumyadeep Das

Subject: Statistics

Paper: STSACOR07T, STSACOR07P, STSHGEC03T, STSHGEC03P, STSADSE01T,

STSADSE01P

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1	Paper STSACOR07P:	Paper STSACOR07T:
to week 4	1. To select a SRS with and without replacement. 2. For a population of size 5, estimate population mean, population mean square and population variance. Enumerate all possible samples of size 2 by WR and WOR and establish all properties relative to SRS. 3. For SRSWOR, estimate mean, standard error, the sample size	Concept of population and sample, complete enumeration versus sampling, sampling and non-sampling errors. Types of sampling: non-probability and probability sampling, basic principles of sample survey, simple random sampling with and without replacement, definition and procedure of selecting a sample, estimates of population mean, total and proportion, variances of these estimates, estimates of their variances and sample size determination. Paper STSHGECO3T:

	Paper STSHGEC03P: 1. Estimators of population mean. 2. Confidence interval for the parameters of a normal distribution (one sample and two sample problems). Paper STSADSE01P: 1. Regression diagnostics 2. Measures of association for 2x2 contingency table.	Estimation of population mean, confidence intervals for the parameters of a normal distribution (one sample and two sample problems). Paper STSADSE01T: Introduction to Categorical Data, 2 X 2 contingency table, notion of independence & association, ideas of complete and absolute association. Yules measures of association and colligation, Cramer's measure of association, Extension to kxl contingency table: Pearson's chi-square, Kendall's tau's, Goodman-Kruskal's γ.
Week 5 to	Paper STSACOR07P:	Paper STSACOR07T:
week 8	 4. Stratified Sampling: allocation of sample to strata by proportional and Neyman's methods. Compare the efficiencies of above two methods relative to SRS. 5. Estimation of gain in precision in 	Stratified random sampling, Technique, estimates of population mean and total, variances of these estimates, proportional and optimum allocations and their comparison with SRS. Practical difficulties in allocation, estimation of gain in precision. Paper STSHGEC03T: The basic idea of significance test. Null and alternative
	stratified sampling.	hypothesis. Type I & Type II errors.
	Paper STSADSE01P:	Paper STSADSE01T:
	Relative risk, odds ratio Measures of association for kxl contingency table.	Difference of proportions, relative risk, odds ratio, log odds ratio; types of observational studies.
Week 9 to	Paper STSACOR07P:	Paper STSACOR07T:
Week 12	6. Comparison of systematic with stratified sampling and SRS in the presence of a linear trend.	Systematic Sampling, Technique, estimates of population mean and total, variances of these estimates (N=n x k case). Comparison of systematic sampling with SRS and stratified sampling in the presence of linear trend and corrections.
	Paper STSADSE01P:	Paper STSHGEC03T: level of significance, concept of p-value.
	5. Fitting a logit model6. Fitting a probit model7. Fitting of multiple logistic regression.table.	Paper STSADSE01T: Generalized linear Model, Components of a generalized linear model, Random component, systematic component, Link function. Generalized linear model for binary data, Logistic and probit regression model, Multiple logistic regression. Model fitting by using score function.
Week 13	Paper STSACOR07P:	Paper STSACOR07T:
	7. Ratio and Regression estimation: Calculate the population mean or total of the population. Calculate mean squares. Compare the efficiencies of ratio and regression estimators relative to SRS. Paper STSHGECO3P: 3. Tests of hypotheses for the parameters of a normal distribution (one sample and two sample problems).	Ratio and Regression methods of estimation in simple random sampling Paper STSHGEC03T: Tests of hypotheses for the parameters of a normal distribution (one sample and two sample problems). Paper STSADSE01T: Log linear model of independence for twoway table, Interpretation of the parameters in independence model, saturated model for two way table. The log-linear-logistic connection.

Week13 to week 14		Internal Exam	
Week 15	Paper STSACOR07P:	Paper STSACOR07T:	
to 17	8. Cluster sampling: estimation of	Hartley-Ross estimator. Cluster sampling (equal-size clusters	
	mean or total, variance of the	only) estimation of population mean and its variance, Concept of	
	estimate, estimate of intra-class	sub sampling. Two-stage sampling, Estimation of Population	
	correlation coefficient, efficiency as	mean and variance of the estimate, comparison between two-stage,	
	compared to SRS.	cluster and uni-stage sampling.	
	9. Two stage sampling.	Paper STSHGEC03T:	
	Paper STSHGEC03P:	Categorical data: Tests of proportions, tests of association and	
	4. Chi-square test of proportions.	goodness-of-fit using Chi square test, Yates' correction.	
	5. Chi-square tests of association.		
	6. Chi-square test of goodness-of-		
	fit.		

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for Even Semester, UG course

Department of Statistics

Session 2022-23

Class: B.A/ B.Sc Semester 2,4,6

Name of the Teacher: Prof. Debesh Roy

Subject: Statistics

Paper: cc14, (Theory and Practical)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	STSACOR14T:	STSACOR14P:
to week 4	Bivariate Normal Distribution (BVN)	
	12 Lectures P.d.f. of BVN,	
	properties of BVN, marginal and	
	conditional p.d.f. of BVN. Random	
	Vector: Probability mass/density	
	functions, Distribution function,	
	Mean vector & Dispersion matrix,	
	Marginal and Conditional	
	distributions.	
Week 5 to	STSACOR14T:	STSACOR14P: 1. Multiple Correlation
week 8	Multinomial Distribution,	2. Partial Correlation
	Multivariate Normal distribution	3. Bivariate Normal Distribution.
	and its properties. Sampling	
	distribution for mean vector and	
	variance- covariance matrix	
	(Statement only).	
Week 9 to	STSACOR14T:	STSACOR14P:
Week 12	Applications of Multivariate	4. Multivariate Normal Distribution
	Analysis, Discriminant Analysis,	5. Discriminant Analysis
Week 13	STSACOR14T:	STSACOR14P
	Principal Components Analysis	6. Principal Components Analysis
Week 1	3 to week 14	Internal Exam
	I	
Week 15	STSACOR14T:	
to 17	6.1 6.4.1.15.11	
	Solution of Model Problems.	

Class:B.A/ B.Sc Semester 2,4,6

Name of the Teacher: Arup Kumar Hait

Subject: STATISTICS
Paper: STSACOR13 & STSHCEC04

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Paper :	STSACOR13 &STSHGEC04	(Theory and Practical)
S. No	Practical works to be covered	Theory topics to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	STSACOR13	STSACOR13
to week 4	Layout of Design	Experimental designs, Role, historical perspective. Terminologies: Experimental error, Basic principles, Uniformity trials, Fertility contour maps, Choice of size and shape of plots and blocks.
	STSHGEC04	STSHGEC04
	Measurement of trend: Fitting of linear & quadratic trend and plotting of trend values and comparing with given data graphically.	Economic Time Series: Components of time series, Decomposition of time series- Additive and multiplicative model with their merits and demerits, Illustrations of time series. Measurement of trend by method of free-hand curve, method of semi-averages. Method of least squares (linear & quadratic).
Week 5 to	STSACOR13	STSACOR13
week 8	 Analysis of CRD Analysis of an RBD Analysis of an LSD Analysis of an RBD with one missing observation Analysis of an LSD with one missing observation STSHGEC04 Measurement of trend: Fitting of exponential, modified exponential curve and plotting of trend values and comparing with given data graphically. 	Completely Randomized Design (CRD), Randomized Block Design (RBD), Latin Square Design (LSD) – Layout, Model and Analysis, Relative Efficiencies, Analysis with one missing observation. STSHGEC04 Measurement of exponential trend and modified exponential trend. Measurement of seasonal variations by method of ratio to trend.
	 Measurement of seasonal indices by Ratio-to-trend method and plotting of trend values and comparing with given data graphically. 	
Week 9 to	STSACOR13	STSACOR13
Week 12	 Intra Block analysis of a BIBD 	Balanced Incomplete Block Design (BIBD) – parameters, relationships among its parameters, incidence matrix and its properties.

- Analysis of 22 and 23 factorial in CRD and RBD
- Analysis of 2² and 2³ factorial in LSD

STSHGEC04

Construction of price and quantity index numbers by Laspeyre's formula, Paasche's formula, Marshall-Edgeworth's formula, Fisher's Formula. Comparison and interpretation.

Advantages, Notations and Concepts of 2ⁿ factorial experiments. 2ⁿ factorial experiments -their design and analysis.

STSHGEC04

Index numbers: Definition, Criteria for a good index number, different types of index numbers.

Week13 to week 14

to 17

Week 15

STSACOR13

- Analysis of a completely confounded two level factorial design in 2 block
- Analysis of a completely confounded two level factorial design in 4 blocks
- Analysis of a partially confounded two level factorial design
- Analysis of a single replicate of a 2n design
- Analysis of a fraction of 2n factorial design

STSHGEC04

Construction of wholesale price index number, fixed base index number and consumer price index number with interpretation

Internal Exam

STSACOR13

Total and Partial confounding for 2ⁿ factorial experiments.(N<6)

STSHGEC04

Construction of index numbers of prices and quantities, consumer price index number. Uses and limitations of index numbers.

Class: B.Sc. (Honours)
Semesters: 2, 4, 6 (CBCS)

Name of the Teacher: Kiranmoy Chatterjee Subject: Statistics (Honours), Statistics(General)

Paper: STSACOR04T, STSACOR09T, STSACOR09P, STSADSE04T, STSADSE04P, STSHGEC04T,

STSHGEC04P (CBCS)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	Paper STSACOR09P(CBCS):	Paper STSACOR04T(CBCS):
to week 4	A Part Aller Communication	Row reduction and echelon forms. Partitioning of matrices and
	Estimability in Gauss Markov Model.	simple properties. Rank of a matrix, row-rank, column-rank,
	2. Simple linear regression.	standard theorems on ranks, rank of the sum and the product of
	3. Multiple regression.	two matrices.
1		Paper STSACOR09T(CBCS) :
		Unit 1: Multivariate Data
	Paper STSADSE04P(CBCS):	Unit 2: Gauss-Markov set-up
	6. Computation of Mortality rate.7. Preparation of Life Table.	Theory of linear estimation, Estimability of linear parametric
	7. Freparation of Life Table.	functions, Method of least squares, Gauss-Markov theorem,
		Estimation space and Error Space
		Paper STSADSE04T(CBCS):
		Unit 1: Introduction
		Unit 2: Measurements of Mortality
		one 2. Measurements of Mortunal
		Paper STSHGEC04T(CBCS):
		Unit 4: Demography
		Demographic Methods: Introduction, measurement of population,
		rates and ratios of vital events, Measurement of mortality
Week 5 to	Paper STSACOR09P(CBCS):	Paper STSACOR04T(CBCS):
week 8	4.Tests for linear hypothesis.	Matrix equations Ax=b, solution sets of linear equations.
	5. Analysis of variance of one way classified data.	Applications of linear equations, inverse of a matrix. Characteristic roots and Characteristic vector.
	6. Analysis of variance of a two way	Characteristic roots and Characteristic vector.
	classified data with one observation per	Paper STSACOR09T(CBCS):
	cell.	Unit 2: Gauss-Markov set-up
		Estimation of error variance. Tests of General Linear Hypotheses
	Paper STSADSE04P(CBCS):	(statements only). Classification of Linear Models.
	1. Computation of Crude Birth	
	Rate.	Unit 3: Regression analysis
	2. Computation of different Fertility	Hypothesis testing in case of simple and multiple regression
	Rate.	models.
	3. Computation of Reproduction	Danar CTC ADCEOAT/CDCC).
	Rate.	Paper STSADSE04T(CBCS): Unit 3: Magazyamants of Fartility
İ	4. Computation of Vital index.	Unit 3: Measurements of Fertility
İ	Paper STSHGEC04P(CBCS):	Paper STSHGEC04T(CBCS):
		Unit 4: Demography

	7. Computation of measures of mortality8. Completion of life table.9. Computation of measures of fertility and population growth	Life (mortality) tables: definition of its main functions and uses. Measurement of fertility and reproduction: CBR, GFR, and TFR. Measurement of population growth: GRR, NRR.
Week 9 to	Paper STSACOR09P(CBCS):	Paner STSACOROAT(CRCS):
Week 9 to Week 12	7. Analysis of variance of two way classified data with equal number of observations per cell. 8. Analysis of covariance of a one way classified data with one concomitant variable. Paper STSADSE04P(CBCS): 5. Fitting of population curve for population forecasting. Paper STSHGEC04P(CBCS): 5. Construction and interpretation of X bar & R-chart. 6. Construction and interpretation p-chart (fixed sample size) and c-chart	Paper STSACOR04T(CBCS): Properties of characteristic roots, Cayley Hamilton theorem, Quadratic forms: Classification and canonical reduction. Paper STSACOR09T(CBCS): Unit 4: Analysis of variance and covariance Analysis of Variance in one-way and two-way classified data (with equal number of observations per cell) for fixed effect as well as random effect models. Paper STSADSE04T(CBCS): Unit 4: Estimation Paper STSHGEC04T(CBCS): Unit 3: Statistical Quality Control Statistical Quality Control: Importance of statistical methods in industrial research and practice. Determination of tolerance limits. Causes of variations in quality: chance and assignable. General theory of control charts, process & product control, Control charts for variables: X- bar and R-charts. Control charts for attributes: p
Wl- 12 1	4. I-4 (F CDCS)	and c-charts.
week 13-1	4: Internal Exam (for CBCS)	
Week 15	Paper STSACOR09P(CBCS):	Paper STSACOR04T(CBCS):
to 17	9. Analysis of covariance of a two way classified data with one concomitant variable.	Linear transformations. Applications of Linear Algebra in Statistics. Revision of all the topics.
		Paper STSACOR09T(CBCS): Unit 4: Analysis of variance and covariance Analysis of covariance for one-way and two-way classified data with one concomitant variable

Class:B.Sc

Semester 2, 4 and 6 Name of the Teacher: Suryasish Chatterjee

Subject: Statistics

Paper: STSACOR04T, STSACOR08T, STSACOR08P, STSACOR14T, STSACOR14P,

STSSSEC02M

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Paper STSACOR08P: 1. Unbiased estimators (including unbiased but absurd estimators) 2. Cramer-Rao inequality and MVB estimators 3. Sufficient Estimators — Factorization Theorem, Rao-Blackwell theorem, Complete Sufficient estimators 4. Lehman-Scheffe theorem and UMVUE Paper STSACOR14P: 1. Test for randomness based on	Paper STSACOR04T: Sequence of real numbers and their convergence, limits of sequences, Cauchy's general principle of convergence, Cauchy's first theorem on limits, monotonic sequences, limit superior and limit inferior of a bounded sequence. Infinite series, positive-termed series and their convergence. Comparison tests, D'Alembert's ratio test and Cauchy's nth root test, (Statements and examples only). Absolute convergence of series, Leibnitz's test for the convergence of alternating series, Conditional convergence. Paper STSACOR08T:
	total number of runs, 2.Kolmogrov Smirnov test for one sample. 3. Sign test: one sample, two samples, large samples. 4. Wilcoxon-Mann-Whitney U-test 5. Kruskal-Wallis test	Concepts of estimation, unbiasedness, mean square error, sufficiency, completeness and exponential family of distributions. Factorization theorem. Minimum variance unbiased estimator (MVUE), Rao Blackwell and Lehmann-Scheffe theorems and their applications. Cramer-Rao inequality (statement and applications) and MVB estimators.
	Paper STSSSECO2M: Learn how to load data, plot a graph viz. histograms (equal class intervals and unequal class intervals), box plot, stem-leaf, frequency polygon, pie chart, ogives with graphical summaries of data.	Paper STSACOR14T: Nonparametric Tests, Introduction and Concept
Week 5 to week 8	Paper STSACOR08P: 5. Maximum Likelihood Estimation 6. Estimation by the method of moments, minimum Chi-square 7. Most powerful critical region (NP Lemma) 8. Uniformly most powerful critical region Paper STSACOR14P:	Paper STSACOR04T: Vector spaces, subspaces, sum of subspaces, Span. Linear dependence and independence, basis and dimension, dimension theorem. Orthogonal vectors, Gram-Schmidt orthogonalization, ortho complement space. Null space and nullity Paper STSACOR08T:

	3. Sign test: one sample, two samples, large samples. 4. Wilcoxon-Mann-Whitney U-test Paper STSSSECO2M: Generate automated reports giving detailed descriptive statistics, correlation and lines of regression.	Method of moments, method of maximum likelihood estimation, method of minimum Chi square, basic idea of Bayes estimators Paper STSACOR14T: Test for randomness based on total number of runs, Empirical distribution function,
Week 9 to Week 12	Paper STSACOR08P: 9. Unbiased critical region. 10. Power curves. 11. Likelihood ratio tests for simple null hypothesis against simple alternative hypothesis. 12. Likelihood ratio tests for simple null hypothesis against composite alternative hypothesis Paper STSACOR14P: 5. Kruskal-Wallis test Paper STSSSECO2M: Random number generation and sampling procedures. Fitting of polynomials and exponential curves. Application Problems based on fitting of suitable distribution, Normal probability plot.	Paper STSACOR04T: A review, theorems related to triangular, symmetric and skew symmetric matrices, idempotent matrices, orthogonal matrices, singular and non-singular matrices and their properties. Trace of a matrix. Row space and column space of a matrix. Definition, properties and applications of determinants for 3rd and higher orders, evaluation of determinants of order 3 and more using transformations. Symmetric and Skew symmetric determinants, Circulant determinants and Vandermonde determinants for nth order, Jacobi's Theorem. Product of determinants. Adjoint and inverse of a matrix and related properties. Use of determinants in solution to the system of linear equations Paper STSACOR08T: Most powerful test, uniformly most powerful test, Neyman Pearson Lemma (statement and applications to construct most powerful test). Likelihood ratio test, properties of likelihood ratio tests (without proof). Paper STSACOR14T: Kolmogrov Smirnov test for one sample, Sign tests- one sample and two samples
Week 1	3 to week 14	Internal Exam
Week 15 to 17	Paper STSACOR08P: 13. Asymptotic properties of LR tests 14. SPRT procedure 15. OC function and OC curve 16. ASN function and ASN curve	Paper STSACOR04T: Statement of the fundamental theorem of algebra and its consequences. Relation between roots and coefficients of any polynomial equations. Solutions of cubic and biquadratic equations when some conditions on roots of equations are given.

Paper STSACOR08T:

Paper STSSSECO2M:

Simple analysis and create and manage statistical analysis projects import data, code editing. Basics of statistical inference to understand hypothesis testing and compute p-values and confidence intervals.

Sequential probability ratio test (SPRT) for simple vs simple hypotheses. Fundamental relations among α, β, A and B, determination of A and B in practice. Wald's fundamental identity and the derivation of operating characteristics (OC) and average sample number (ASN) functions. Examples based on Normal, Poisson, Binomial and Exponential distributions

Paper STSACOR14T:
Wilcoxon-Mann-Whitney test, Kruskal-Wallis test

Class:B.Sc

Semester 2, 4 and 6 Name of the Teacher: Soumyadeep Das

Subject: Statistics

Paper: STSACOR03T, STSACOR03P, STSACOR10T, STSACOR10P, STSADSE05T,

STSADSE05P, STSADSE06P

	SE05P, STSADSE06P	
S. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	Paper STSACOR03P:	Paper STSACOR03T:
to week 4	1. Numerical sums using classical	Introduction, random experiments, sample space, events and
	definition of Probability.	algebra of events. Sigma algebra of events. Definitions of
	Paper STSADSE05P:	Probability – classical, statistical and axiomatic.
	1.Practical problems on the uses	Paper STSACOR10T:
	of different interpolation	Definition, dimensions of quality, historical perspective of quality
	formulae.	control and improvements starting from World War II, historical
	Paper STSADSE06P:	perspective of Quality Gurus and Quality Hall of Fame. Quality
	Guiding 3 students in their	system and standards: Introduction to ISO quality standards,
	respective project works.	Quality registration. Statistical Process Control - Seven tools of
		SPC, chance and assignable Causes of quality variation. Statistical
		Control Charts- Construction and Statistical basis of 3-σ Control
		charts, Rational Sub-grouping. Paper STSADSE05T:
		Finite differences and interpolation. Difference and shift
		Operators. Newton's forward and backward interpolation
		formulae. Lagrange's interpolation formulae.
Week 5 to	Paper STSACOR03P:	Paper STSACOR03T:
week 8	2. Numerical sums on conditional	Theorem of compound probability, theorem of total probability,
Week	probability.	Conditional probability and independence of event. Bayes theorem
	Paper STSACOR10P:	and its applications.
	1. Construction and Interpretation of	Paper STSACOR10T:
	statistical control charts X-bar & R	X-bar & R-chart, X-bar & s-chart. Control charts for attributes:
	chart X-bar & s-chart np- chart p-chart c-chart u- chart	np-chart, p-chart, c-chart and u-chart. Comparison between control
	Paper STSADSE05P:	charts for variables and control charts for attributes. Analysis of
	Tapel Glonoscosi .	patterns on control chart. Estimation of process capability.
		Paper STSADSE05T:

	 2.Computation of numerical integration. 3. Solution of transcendental equations. Paper STSADSE06P: Guiding 3 students in their respective project works. 	Numerical Integration, Gauss quadrature, Trapezoidal rule, Simpson's one-third rule with error terms. Stirling's approximation to factorial n. Solution of equations in a single variable- Bisection, Iteration and Newton Raphson method.
W /1- 0 4-		Deman CTCA CODO2T.
Week 9 to Week 12	Paper STSACOR03P: 3. Fitting of binomial distribution for given n and p. 4. Fitting of binomial distribution after computing mean and variance. 5. Fitting of Poisson distribution for given value of lambda. 6. Fitting of Poisson distribution after computing mean. 7. Fitting of negative binomial. 8. Fitting of suitable distribution. 9. Application problem based on binomial distribution 10. Application problem based on Poisson distribution. 11. Application problem based on negative binomial distribution. Paper STSACOR10P: 2. Single sample inspection plan: Construction and interpretation of OC, AQL, LTPD, ASN, ATI, AOQ, AOQL curves. Paper STSADSE05P: 4. Computation of Simulation problems. Paper STSADSE06P:	Paper STSACOR03T: Discrete random variables, p.m.f. and c.d.f., statement of properties of c.d.f, illustrations. Derivation of moments (discrete situation). Standard discrete probability distributions: binomial, Poisson, geometric, negative binomial, hypergeometric, uniform. Paper STSACOR10T: Principle of acceptance sampling plans. Single and Double sampling plan their OC, AQL, LTPD, AOQ, AOQL, ASN, ATI functions with graphical interpretation, use and interpretation of Dodge and Romig's sampling inspection plan tables. Paper STSADSE05T: Using the computer for random number generation (treated as a black box). A brief look at some popular approaches (no mathematical justification needed). Simulating a coin toss, a die roll and a card shuffle. CDF inversion method. Simulation from standard distributions. Finding probabilities and moments using simulation.
	Guiding 3 students in their	
	respective project works.	
Week 13	Paper STSACOR10P:	Paper STSACOR03T:
	3. Calculation of process	p.d.f. and c.d.f., illustrations and properties,
	capability and comparison of 3-	Paper STSACOR10T: Overwing of Sir Sigma Lean Manufacturing and Total Quality
	sigma control limits with specification limits.	Overview of Six Sigma, Lean Manufacturing and Total Quality Management (TQM). Organizational Structure and Six Sigma
	Paper STSADSE05P:	training plans- Selection Criteria for Six-Sigma roles and training
	5.Computation of Monte Carlo	plans. Voice of customers (VOC): Importance and VOC data
	integration.	collection. Critical to Quality (CTQ). Introduction to DMAIC using
	Paper STSADSE06P:	one case study: Define Phase, Measure Phase, Analyse Phase, Improve Phase and Control Phase.
	Guiding 3 students in their	Paper STSADSE05T:
	respective project works.	Monte Carlo integration. Basic idea of importance sampling.

Monte Carlo integration. Basic idea of importance sampling. (MCMC not included). Generating from Binomial and Poisson

distributions, and comparing the histograms to the PMFs.

Week1	3 to week 14	Internal Exam
Week 15 to 17	Paper STSACOR10P: 4. Use a case study to apply the concept of six sigma application in DMAIC: practical application. Paper STSADSE05P: 6. Graphical understanding of the laws of large numbers. Paper STSADSE06P: Guiding 3 students in their respective project works.	Paper STSACOR03T: univariate transformations with illustrations. Derivation of moments. Probability Inequalities: Markov and Chebyshev. Paper STSADSE05T: Generating from Uniform (0, 1) distribution, and applying inverse CDF transforms. Simulating Gaussian distribution using Box-Muller method. Approximating the expectation of a given function of a random variable using simulation. Graphical demonstration of the Law of Large Numbers. Approximating the value of pi by simulating dart throwing.

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: Session (2022-23)

Class: B.Sc/M.Sc.

Semester 1,3,5 (UG) & 1,3 (PG) Name of the Teacher: Dr. Abul Kalam

Subject: Microbiology

Paper: UG/PG Theory and Practical

Paper:	UG/PG Theory and Practical	
S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	UG 1 (CBCS): Paper – MCBCOR01P: Preparation of culture media: Complex media (Nutrient Broth, NA slant, NA stab, Lactose broth); chemically defined, synthetic media (Czapekdox broth / agar).	UG 1 (CBCS): Paper – MCBCOR1T: Binomial Nomenclature, Whittaker's five kingdom and Carl Woese's three kingdom classification systems and their utility. UG 3 (CBCS): Paper – MCBCOR 05T: Unit 4 Chemolithotrophic and Phototrophic Metabolism Introduction to aerobic and anaerobic chemolithotrophy with an example each.
		UG 5 (CBCS): MCBACOR11T Brief history and developments in industrial microbiology Sources of industrially important microbes and methods for their isolation, preservation and maintenance of industrial strains, strain improvement, PG Sem I: Paper MCB T 102 Microbial Systematics:
		General account of systematics, Classification and nomenclature; Classification systems-artificial or phonetic, natural and phylogenetic;
		PG Sem III: paper 14 DSE 01 Bioethics: Biotechnology And Risk Ethical implications of cloning: Reproductive cloning, therapeutic cloning; Ethical, legal and socioeconomic aspects of gene therapy,
Week 5 to week 8	UG 1 (CBCS): Paper – MCBCOR02P: Cultivation of microorganisms: on agar – slant /agar plate streak culture: Moulds (Penicillium notatum, Aspergillus niger	UG 1 (CBCS): Paper – MCBCOR01T: Difference between prokaryotic and eukaryotic microorganisms UG 3 (CBCS): Paper – MCBCOR 05T: Hydrogen oxidation (definition and reaction)
		UG 5 (CBCS): MCBACOR11T Crude and synthetic media; molasses, corn- steep liquor, sulphite waste liquor, whey, yeast extract and protein hydrolysates
		PG Sem I: Paper MCB T 102 Species concept; monophyletic, paraphyletic, polyphyletic; Molecular taxonomy, Molecular phylogeny, Molecular chronometers; Polyphasic taxonomy,
		PG Sem III: Paper 14 DSE 01 Introduction to intellectual property and intellectual property rights – types: patents, copy rights, trade marks, design rights, geographical indications –
Week 9 to Week 12	UG 3 (CBCS): MCBACOR06P Study a representative plant (Allium cepa or any other suitable plant material) Study of different stages of Mitosis.	UG 1 (CBCS): Paper – MCBCOR01T: Aim and principles of classification, systematics and taxonomy, concept of species, taxa, strain; UG 3 (CBCS): Paper – MCBCOR 05T: Methanogenesis (definition and reaction)
		UG 5 (CBCS): MCBACOR11T Types of fermentation processes - solid-state and liquid-state (stationary and submerged) ermentations; batch, fed-batch (eg. baker's yeast) and continuous ermentations PG Sem I: Paper MCB T 102

		Numerical taxonomy, Describing a new Prokaryotic species Culture collection. Cyanobacteria: Characteristic features and significance Fungi : Outlines of classification of Fungi. Beneficial role of fungi.
		PG Sem III: Paper 14 DSE 01 importance of IPR – patentable and non
		patentable – patenting life
Week 13	UG 3 (CBCS): MCBACOR06P Study a representative plant (Allium cepa or any other suitable plant material) Study of different stages of Meiosis.	UG 1 (CBCS): Paper – MCBCOR01T: Conventional, molecular and recent approaches to polyphasic bacterial taxonomy, evolutionary chronometers, UG 3 (CBCS): Paper – Revision UG 5 (CBCS): MCBACOR11T Components of a typical bio-reactor,
		PG Sem I: Paper MCB AECC
		Bioethics:
		Biotechnology And Risk Ethical implications of cloning: Reproductive
		cloning, therapeutic cloning; Ethical, legal and socio-economic aspects
		of gene therapy
		PG Sem III: Paper 14 DSE 01 legal protection of biotechnological inventions – world intellectual property rights organization (WIPO). Establishment and functions of General Agreement on Trade and Tariff (GATT) and World Trade Organizations
Week13 t	o week 14 Intern	al Exam
Week 15 to 17		UG 1 (CBCS): Paper – MCBCOR01T: , rRNA oligonucleotide sequencing, signature sequences, and protein sequences. UG 3 (CBCS): Paper – Revision UG 5 (CBCS): MCBACOR11T Revision PG Sem I: Paper MCB AECC
		Intellectual property rights: Introduction to intellectual property and intellectual property rights – types: patents, copy rights, trade marks, design rights, geographical indications – importance of IPR – patentable and non patentable – patenting life – legal protection of biotechnological inventions PG Sem III: Indian Patent Act, 1970 and its amendments.
Week 18	Revision, Practice	Revision
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BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2022-23)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) & 2,4 (PG) Name of the Teacher: Dr. Abul Kalam

Subject: Microbiology

Paper : UG & PG Theory and Practical

S. No	Practical works to be covered (Paper	Theory topics to be covered (Paper code to be mentioned)
	code to be mentioned)	

Week 1 to	UG 2 (CBCS): Paper MCBCOR04P:	UG 2 (CBCS): Paper MCBCOR04T: Waste Management:
week 4	Isolation of microbes (bacteria & fungi) from soil.	Solid Waste management: Sources and types of solid waste, UG 4 (CBCS): MCBACOR10T: Intrinsic and extrinsic factors that affect growth and survival of microbes in foods, natural flora and source of contamination of foods in general
		UG 6 (CBCS): MCBACOR DSE 05T
		Concept of IPR, Designs, trademarks, trade secrets, domain names, geographical indications, copyright, Evolution of patent laws, hist ory of Indian patent system, Agreements and Treaties: GATT, TRIPS Agreements.
		PG Sem II: MCB SEC: Aeromicrobiology: Microbes of indoor and outdoor environment, Bioaerosols, Enumeration (Different air sampling methods), Extramural and intramural, Control of air microbes, bioterrorism.
		PG Sem IV: Paper 16
		Bioterrorism and Bioweapons : Introduction to Bioterrorism and Bioweapons, Pathogenic microorganisms used for these purpose and their properties, Infectious agents and their epidemiology
Week 5 to week 8	UG 4 (CBCS): MCBACOR10P: MBRT of milk samples and their standard plate count.	UG 2 (CBCS): Paper MCBCOR 04T: Methods of solid waste disposal (composting and sanitary landfill) UG 4 (CBCS): MCBACOR10T: Principles, physical methods of food preservation: temperature (low, high, canning, drying), irradiation, hydrostatic pressure, high voltage pulse, microwave processing and aseptic packaging, chemical methods of food preservation: salt, sugar, organic acids,.
		UG 6 (CBCS): MCBACOR DSE 05T Role of Madrid Agreement; Hague Agreement; WIPO Treaties; Budapest Treaty on international recognition of the deposit of microorganisms; UPOV & Brene conventions; Patent Cooperation Treaty (PCT); Indian Patent Act 1970 & recent amendments. Classification of patents in India, PG Sem II: MCB SEC
		Soil Microbiology : Soil as microbial habitat. Soil profile and properties,
		soil formations,
		PG Sem IV : Paper 17: Fermentation: an overview, isolation, screening and selection of industrially important microorganisms
Week 9 to Week 12	UG 4 (CBCS): MCBACOR10P: Alkaline phosphatase test to check the efficiency of pasteurization of milk. 1. Isolation of any food borne bacteria from food products.	UG 2 (CBCS): Paper – MCBCOR04T: Liquid waste management: Composition and strength of sewage UG 4 (CBCS): MCBACOR10T: Irradiation, hydrostatic pressure, high voltage pulse, microwave processing and aseptic packaging, chemical methods of food preservation: salt, sugar, organic acids,. UG 6 (CBCS): MCBACOR DSE 05T
	Sacteria from 1000 products.	Classification of patents by WIPO, categories of patent, special patents, patenting biological products, Patentable inventions in India and abroad, non patentable inventions in India and abroad, Rights of patent holder and co-owners, transfer of patent rights, limitations of patent rights, PGSem II: MCB SEC
		Diversity and distribution of microorganisms in soil.
		PG Sem IV : Paper 17: strain improvement for industrial purposes, use of recombinant DNA technology,

Week 13	UG 4 (CBCS): MCBACOR10P: Isolation of any food borne bacteria from food products. Mock Viva-voce from the practical	UG 2 (CBCS): Paper – MCBCOR04T: Primary, secondary (oxidation ponds, trickling filter, activated sludge process and septic tank) and tertiary sewage treatment Revision UG 4 (CBCS): MCBACOR10T: Chemical methods of food preservation: salt, sugar, organic acids. UG 6 (CBCS): MCBACOR DSE 05T Patent and economy, patent management, patent growth, patenting of life forms, biodiversity and IPR, Study of famous case study between Diamond and Chakraborty PG Sem II: MCB SEC Solid waste management: Solid waste types, composting, landfill development, incineration methods, composting, electronic waste management. Microbial fuel cell PG Sem IV: Paper17: Bioreactors: Design and components of basic fermentor
Week 13	to week 14 Interna	d Exam
Week 15 to 17		UG 2 (CBCS): Paper – MCBCOR04T: Solid Waste management: Revision UG 4 (CBCS): MCBACOR10T: Revision UG 6 (CBCS): MCBACOR DSE 05T Revision PG Sem II: MCB SEC Revision PG Sem IV: Revision
Week 18	Mock Viva-voce from the practical	Revision

Teaching Plan for Odd Semester, UG & PG course

<u>Department of Microbiology</u>: <u>Session (2022-23)</u>

Class: B.Sc/M.Sc.

Semester 1,3,5 (UG) & 1,3 (PG) Name of the Teacher: Dr. Sandip Bandopadhyay

Subject: Microbiology

Paper: UG/PG Theory and Practical (Offline)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to	PG Sem III: Paper 15: Biostatistics:	UG 1 (CBCS): Paper – MCBCOR02T: Bacterial growth, phases
week 4	1. Measures of central tendency: mean,	of growth, kinetics & Numerical problems
	median, mode	UG III (CBCS): MCBCOR05T: Fermentative pathways: homo-
	2. Measures of Dispersion: MD, SD	lactate, hetero-lactate fermentaion
	3. Measures of statistical errors	UG V(CBCS): PaperMCBDSE02T:Reaction kinetics, enzyme kinetics
		PG Sem I: Paper MCBT103: Chromatography: ion-exchange, gel
		filtration, Affinity chromatography
		PG Sem III: paper 13- RDT: restriction & modification enzymes
Week 5 to	PG Sem III: Paper 15: Biostatistics:	UG 1 (CBCS): Paper – MCBCOR02T: physical factors affecting
week 8	4. Concept of bi-variate data:	growth: pH, temperature, pressure, O2 & CO2 concentration etc.
	correlation, calculation of correlation	UG III: MCBCOR05T: Mixed acid & Alcohol fermentation pathways
	co-efficient	UG V(CBCS): PaperMCBDSE02T: Free energy, Radioactivity
	5. Analysis of regression	PG Sem I: Paper MCBT103: Chromatography: HPLC, GLC, TLC
		PG Sem III: Paper 13: Ligation: E. coli & T4 DNA ligase, cloning
Week 9 to	PG Sem III: Paper 15: Biostatistics:	UG 1 (CBCS): Paper – MCBCOR02T: Chemical factors of growth:
Week 12	6. one-tail t-test	Acid, alkali, salt, detergent, alcohol, heavy metals etc.
	7. chi square test	UG III: MCBCOR05T: Fermentative pathways: Revision
	8. concept of probability, degrees of	UG V(CBCS): PaperMCBDSE02T: Biomath: PH & buffer, bacterial
	freedom	growth, D-value

		PG Sem I: PaperMCBT103: Paper chromatography: partition coefficient: numerical problems on chromatography PG Sem III: paper 13: enzymes: TdT, Taq pol., pfu Pol, S1 nuclease
Week 13	UG III: MCBCOR05P & UG V: MCBCOR11P: Demonstration of Alcohol fermentation using Saccharomyces cerevisiae	UG 1 (CBCS): Paper – MCBCOR02T: Batch & continuous culture: Chemostat & turbidostat UG III: MCBCOR05T: Fermentative pathways: Question-answer discussion of previous University exams UG V(CBCS): PaperMCBDSE02T: Biostat: standard error, t-test PG Sem II: PaperMCBT103: Chromatography - Revision PG Sem III: paper 13: genomic & pDNA: Isolation & purification
Week13	to week 14 Intern	nal Exam
Week 15 to 17	UG V(CBCS): PaperMCBDSE02P: Biostatistics 1. Demonstration of t-test 2. Demonstration of chi square test	UG 1 (CBCS): Paper – MCBCOR02T: methods of growth measurement: turbidimetric, plate count, membrane filter etc. UG III: MCBCOR05T: Fermentative pathways: Question-answer discussion of previous University exams UG V(CBCS): PaperMCBDSE02T: Biostat: chi square test, correlation, regression, probability PG SemI: PaperMCBT103: Chromatography: Revision & Mock test PG Sem III: paper 13: RNA & protein: Isolation & purification
Week 18	Revision, Practice	Revision

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2022-23)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) & 2,4 (PG) Name of the Teacher: Dr. Sandip Bandopadhyay

Subject: Microbiology

Paper: UG & PG Theory and Practical (Offline)

S. No	Practical works to be covered (Paper	Theory topics to be covered (Paper code to be mentioned)
	code to be mentioned)	
Week 1 to	UG 2 (CBCS): Paper MCBCOR03P:	UG 2 (CBCS): Paper MCBCOR03T: Acid, base, pH, buffer: concept
week 4	Laboratory preparation of buffers:	UG 4 (CBCS): Paper MCBSEC: Water microbiology: coliforms,
	numerical calculations	properties, types, waterborne pathogens
		UG 6(CBCS): Paper MCBCOR14T: RDT: Restriction & modification.
		ligation: T4 DNA ligase, E. coli DNA ligase, homopolymer tailing
		PG Sem II: Paper MCBT203: RDT: Restriction & modification
		enzymes, Ligase: E. coli & T4, TdT, Taq Pol. & pfu polymease
		PG Sem IV : Paper17:Fermentation: penicillin, streptomycin, VitB ₁₂
Week 5 to	PG Sem IV : Paper 17: Fermentative	UG 2 (CBCS): PaperMCBCOR03T: Numerical problems: pH ,buffers
week 8	production of Alcohol	UG 4 (CBCS): Paper MCBSEC: Water microbiology: MPN test,
		presumptive, confirmed & completed test
		UG 6 CBCS: Paper MCBCOR14T: RDT: Vectors: mechanism, types
		PG Sem II: Paper MCBT203: RDT: cDNA & its library: S1 nuclease
		PG Sem IV: Paper 17: Fermentation: lactic acid, citric acid, vinegar
Week 9 to		UG 2 (CBCS): Paper – MCBCOR03T: Polyprotic acids & its Numerical
Week 12		problems
		UG 4 (CBCS): Paper MCBSEC: Water microbiology: IMViC test
		UG 6 (CBCS): Paper MCBCOR14T: RDT: Modern vectors: HAC,
		BAC, PAC, YAC
		PG Sem II: Paper MCBT203: RDT: Isolation & purification of pDNA
		genomic DNA & RNA: Agarose Gel Electrophoresis
W 1 12	HC ((CDCG) D MCDDGEO(D	PG Sem IV: Paper 17: Fermented food: curd, yogurt, cheese, tofu
Week 13	UG 6 (CBCS): Paper MCBDSE06P:	UG 2 (CBCS): Paper – MCBCOR03T: Revision
	Separation of protein mixture by	UG 4 (CBCS): Paper MCBSEC: Water microbiology: Revision
	column chromatography	UG 6: Paper MCBCOR14T: RDT: Cloning: blue-white screening
		PG Sem II: Paper MCBT203: RDT: Isolation & purification of protein:

		PAGE, Western blot PG Sem IV: Paper17:bread, pickles, dosa, sauerkraut fermentation
Week 13 to week 14 Interna		al Exam
Week 15 to 17	Mock Viva-voce from the practical	UG 2 (CBCS): Paper – MCBCOR03T: titration curve, isoelectic pH UG 4 (CBCS): Paper MCBSEC: Water microbiology: Purification of water: sedimentation, filtration, UV, RO, bleaching etc. UG 6: Paper MCBCOR14T: RDT: properties of expression vectors PG Sem II: Paper MCBT203: RDT: Revision PG Sem IV: Paper17: Probiotics, SCP, mushroom production
Week 18	Revision, Practice	Revision

Teaching Planfor Odd Semester, UG & PG courses

Department of Microbiology

Session (2022-23)

Class: B.Sc/M.Sc.

UG Semester 1,3,5, PG 1 and PG 3 Name of the Teacher: Dr. Rini Roy

Subject: Microbiology

Paper: cc1, cc3 and cc12, PG Paper MCBT101 and paper 11 (Theory and Practical)Mode: Offline

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	UG3 (CBCS)Paper MCBACOR05P: Microbial Physiology and Metabolism 1. Effect of temperature on growth of E. coli 2. Effect of pH on growth of E. coli 3. Effect of carbon and nitrogen sources on the growth of E. coli	UG 1 (CBCS) Paper MCBACOR01T: Unit 1 History of Development and scope of Microbiology No. of Hours: 8 Development of Microbiology as a discipline, spontaneous generation vs. biogenesis. Contributions of Anton von Leeuwenhoek, Louis Pasteur, Robert Koch, Joseph Lister, Alexander Fleming Role of microorganisms in fermentation, Germ theory of disease
		UG 3 (CBCS) Paper MCBHGEC03T/ MCBGCOR03T (For General Students): Unit 1: Structures of DNA and RNA / Genetic Material DNA structure, Salient features of double helix, Types of DNA, denaturation and renaturation, topoisomerases; Organization of DNA in Prokaryotes.
		UG3 (CBCS) Paper MCBACOR05T: Microbial Physiology and Metabolism: EMP, ED, Pentose phosphate pathway TCA cycle
		UG 5 (CBCS) Paper MCBACOR12T: Immunology Unit 1 Introduction: Concept of Innate and Adaptive Immunity
		PG1: Paper MCBT101: Biomolecules & Enzymology: Carbohydrates and Stereochemistry
		PG 3: Paper 11: Immunology: Anatomic barriers, Physiologic barriers, Phagocytic/endocytic barriers, inflammatory barriers.
Week 5 to week 8	UG3 (CBCS)Paper MCBACOR05P:: Microbial Physiology and Metabolism 4. Effect of salt on growth of E. coli 5. Demonstration of alcoholic fermentation	UG 1 (CBCS) Paper MCBACOR01T: Development of various microbiological techniques and golden era of microbiology, Development of the field of soil microbiology: Contributions of Martinus W. Beijerinck, Sergei N. Winogradsky, Selman A.Waksman, Establishment of fields of medical microbiology and immunology through the work of Paul Ehrlich, Elie Metchnikoff, Edward Jenner
		UG 3 (CBCS) Paper MCBACOR05T: Electron transport chain: components of the respiratory chain, comparison of mitochondrial and bacterial ETC, electron transport phosphorylation, uncouplers and

		inhibitors
		UG 5 (CBCS) Paper MCBACOR12T: Immunology Unit 1 Introduction Concept of Innate and Adaptive immunity; Contributions of following scientists to the development of the field of immunology - Edward Jenner, Karl Landsteiner, Robert Koch, Paul Ehrlich, Elie Metchnikoff, Peter Medawar, MacFarlane Burnet, Neils K Jerne, Rodney Porter and Susumu Tonegawa
		PG1: Paper MCBT101: Biomolecules & Enzymology: Enzymes : Nature of enzyme: protein and non-protein, co-factor & prosthetic group, apoenzyme & holoenzyme, IUB classification, active site, cofactors, coenzymes and prosthetic groups, activation energy and transition state, catalytic efficiency, activity, specific activity and turnover no. Principles of Enzyme kinetics: Michaelis-Menten Equation, Significance of K_m and V_{max} , Determination of K_m and V_{max} , Double reciprocal Plot, Eadie-Hofstee plot
		PG 3: Paper 11 : Immunology: Cytokines: Properties of Cytokines; Cytokine Receptors;
Week 9 to Week 12	UG3 (CBCS)Paper MCBACOR05P:: Practical write-up given to students.	UG 5 (CBCS) Paper MCBACOR12T: Immunology Unit 3 Antigens Characteristics of an antigen (Foreignness, Molecular size and Heterogeneity); Haptens; Epitopes (T& B cell epitopes); T-dependent and T-independent antigens; Adjuvants
		PG1: Paper MCBT101: Biomolecules & Enzymology : two substrate kinetics- single and double displacement reaction (Ping Pong, Bi-Bi reaction), three substrate kinetics, Ligand binding studies, Effect of temperature, pH and Inhibitors (Reversible Inhibition: competitive, uncompetitive and non-competitive and Irreversible Inhibition),
		PG 3: Paper 11: Immunology: Cytokines : Cytokine Antagonists; Cytokine Secretion by TH1 and TH2 Subsets; Cytokine-Related Diseases; Therapeutic Uses of Cytokines and Their Receptors; Cytokines in Hematopoiesis.
Week 13	Practical copywriting completion	UG 5 (CBCS) Paper MCBACOR12T: Immunology Unit 6 Complement System: Components of the Complement system; Activation pathways (Classical, Alternative and Lectin pathways); Biological consequences of complement Activation
		PG1: Paper MCBT101: Biomolecules & Enzymology: Allosteric Enzymes and Feedback Inhibition
Week13	o Week 14 Intern	al Exam
Week 15 to 17	UG 3 (CBCS) Paper MCBACOR05P: Microbial Physiology and Metabolism Practical copy checking	PG1: Paper MCBT101: Biomolecules & Enzymology: Isozymes, Abzymes. Regulation of enzymes. Industrial application of several enzymes. Ribozymes Class tests and question-answer discussion
Week 18	Revision, Practise	Revision

Teaching Planfor even Semester, UG & PG courses

Session (2022-2023)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) and PG 2 and PG 4 Name of the Teacher: Dr. Rini Roy

Subject: Microbiology

Paper: cc3, Sec02, cc 13 and DSE 06 (UG), PG Paper MCBT201 and Paper 16 (Theory and Practical)

Mode: Offline

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	UG 2 (CBCS) Paper MCBACOR03P: Biochemistry: 1. Preparation of buffers and numerical problems to explain the concepts 2. Qualitative/Quantitative tests for carbohydrates, reducing sugars, non reducing sugars	UG 2 (CBCS) Paper MCBACOR03T: Unit2Carbohydrates: Families of monosaccharides: aldoses and ketoses, trioses, tetroses, pentoses, and hexoses. Stereo isomerism of monosaccharides, epimers, Mutarotation and anomers of glucose. Furanose and pyranose forms of glucose and fructose, Haworth projection formulae for glucose; chair and boat forms of glucose, Sugar derivatives, glucosamine, galactosamine, muramic acid, N- acetyl neuraminic acid
		UG 6 (CBCS) Paper MCBACOR13T: Medical Microbiology Unit 3 Bacterial diseases: Helicobacter pylori Others: Staphylococcus aureus, Bacillus anthracis, Clostridium tetani UG 4 (CBCS) Paper MCBSSEC02M: Microbiological analysis of air and water: Unit 1: Aeromicrobiology: Bioaerosols, Air borne microorganisms (bacteria, Viruses, fungi) and their impact on human health and environment, significance in food and pharma industries and operation theatres, allergens
		PG 2: Paper MCBT201: Metabolism & Bioenergetics: Catabolism and Anabolism, Glycolysis: Fate of pyruvate under aerobic and anaerobic conditions. Pentose phosphate pathway and its significance, Gluconeogenesis
Week 5 to week 8	UG 2 (CBCS) Paper MCBACOR03P: Biochemistry: Study of enzyme kinetics – calculation of Vmax, Km, Kcatvalues	UG 2 (CBCS) Paper MCBACOR03T: Unit2Carbohydrates: Disaccharides; concept of reducing and non-reducing sugars, occurrence and Haworth projections of maltose, lactose, and sucrose, Polysaccharides, storage polysaccharides, starch and glycogen. Structural Polysaccharides, cellulose, peptidoglycan and chitin
		Unit4Proteins: Functions of proteins, Primary structures of proteins: Amino acids, the building blocks of proteins. General formula of amino acid and concept of zwitterion.
		UG 4 (CBCS) Paper MCBSSEC02M: Microbiological analysis of air and water: Unit 2 Air Sample Collection and Analysis: Bioaerosol sampling, air samplers, methods of analysis, CFU, culture media for bacteria and fungi, Identification characteristics
		UG 6 (CBCS) Paper MCBADSE06T: Instrumentation and Biotechniques Principles and applications of paper chromatography (including Descending and 2-D), Thin layer chromatography. Column packing and fraction collection, Gel filtration chromatography
		PG 2: Paper MCBT201: Metabolism & Bioenergetics: Glycogenolysis and glycogen synthesis.TCA cycle, Entner-Doudoroff pathaway, phosphoketolase pathway. Microbial Metabolism: Elementary Microbial nutrition, mode of uptake of nutrient

Week 9 to Week 12	UG 2 (CBCS) Paper MCBACOR03P: Biochemistry: Formol titration ofglycine	UG 2 (CBCS) Paper MCBACOR03T: Unit 5. Enzymes: Structure of enzyme: Apoenzyme and cofactors, prosthetic group-TPP, coenzyme NAD, metal cofactors, Classification of enzymes, Mechanism of action of enzymes: active site, transition state complex and activation energy. Lock and key hypothesis, and Induced Fit hypothesis. UG 4 (CBCS) Paper MCBSSEC02M: Microbiological analysis of air and water: Unit 3 Control Measures: Fate of bioaerosols, inactivation mechanisms – UV light, HEPA filters, desiccation, Incineration
		UG 6 (CBCS) Paper MCBADSE06T: Instrumentation and Biotechniques: Unit 2 Chromatography: ion-exchange chromatography and affinity chromatography, GLC, HPLC. PG 4: Paper 16: Medical Microbiology: Human diseases: Staphylococcus, Streptococcus, Gastritis (Helicobacter pylori), clostridium, Chlamydia
Week 13	UG 6 (CBCS) Paper MCBADSE06P: Instrumentation and Biotechniques: Separation of amino acid mixtures by thin-layer chromatography.	UG 2 (CBCS) Paper MCBACOR03T: Unit 5. Enzymes: Significance of hyperbolic, double reciprocal plots of enzyme activity, Km, and Definitions of terms – enzyme unit, specific activity and turnover number, UG 6 (CBCS) Paper MCBADSE06T: Unit5Centrifugation: Preparative and analytical centrifugation, fixed angle and swinging bucket rotors. RCF and sedimentation coefficient Paper C etc:
Week 13 t	to week 14 Interna	
Week 15 to 17	UG 6 (CBCS) Paper MCBADSE06P: Instrumentation and Biotechniques: Separation of protein mixtures by any form of chromatography.	UG 2 (CBCS) Paper MCBACOR03T: Unit 5. Enzymes: allosteric mechanism, Multienzyme complex :pyruvate dehydrogenase; isozyme: lactate dehydrogenase, Effect of pH and temperature on enzymeactivity. Enzyme inhibition: competitive-sulfa drugs; non-competitive-heavy metal salts UG 6 (CBCS) Paper MCBADSE06T: Unit5Centrifugation: differential centrifugation, density gradient centrifugation and ultracentrifugation PG 2: Paper MCBT201: Nucleotide Metabolism: Biosynthesis of purine & pyrimidine (de novo & salvage pathways); degradation of purine & pyrimidine.
Week 18	Revision, Practise and copy checking	Revision, class tests

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: Session (2022-23)

Class: B.Sc/M.Sc.

Semester 1,3,5 (UG) & 1,3 (PG) Name of the Teacher: Dr. Upal Das Ghosh

Subject: Microbiology

Paper: UG/PG Theory and Practical (Offline)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	PG Sem III: Paper 15: Bioinformatics: Basic concept, Sequence alignment	UG 1 (CBCS): Paper – MCBCOR02T: Staining UG 3 (CBCS): MCBCOR07T: MCBCOR07T: DNA structure,

		Penaturation, Renaturation, topology
		UG V(CBCS): PaperMCBDSE02T:Frequency distribution
		PG Sem I: Paper MCBT103: Proteomics
		PG Sem III: paper 12- Genetics: Transformation, Conjugation,
		ransduction
Week 5 to	PG Sem III : Paper 15: Bioinformatics:	UG 1 (CBCS): Paper – MCBCOR02T: physical factors affecting
week 8	Phylogenetic tree preperation	growth: pH, temperature, pressure, O2 & CO2 concentration etc.
		UG III: MCBCOR07T DNA Replication
		UG V(CBCS): PaperMCBDSE02T: Frequency distribution
		PG Sem I: Paper MCBT103: Proteomics
		PG Sem III: paper 12- Genetics: Mutation
Week 9 to	UG III: MCBCOR07P: Genomic DNA	UG III: MCBCOR07T: Transcription
Week 12	isolation, Agarose gel electrophoresis	UG V(CBCS): PaperMCBDSE02T: Measures of Central tendency &
		Dispersion
		PG Sem I: PaperMCBT101: DNA structure, Topology, Packaging,
		Chromosome
		PG Sem III: paper 13: enzymes: TdT, Taq pol., pfu Pol, S1 nuclease
Week 13	UG V(CBCS): PaperMCBDSE02P:	UG III: MCBCOR07T: RNA processing
	Biostatistics	UG V(CBCS): PaperMCBDSE03T: Mendelian Genetics
	1. Frequency Distribution	PG Sem I: PaperMCBT101: Haploid, Deploid Mapping
	2. Measures of central tendency and	PG Sem III: paper 12: Recombination in DNA
	deviation	
Week13 t	o week 14 Interna	ll Exam
Week 15 to		UG III: MCBCOR05T: UG III: MCBCOR07T: Revision
17		UG V(CBCS): PaperMCBDSE03T: Extrachromosomal DNA
		PG SemI: PaperMCBT101: Numerical problems on mapping
		PG Sem III: paper 12- Genetics: Transposon
Week 18	Revision, Practice	Revision

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2022-23)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) & 2,4 (PG) Name of the Teacher: Dr. Sandip Bandopadhyay

Subject: Microbiology

Paper: UG & PG Theory and Practical (Offline)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to	UG 4 (CBCS): Paper MCBCOR08P:	UG 4 (CBCS): Paper MCBCOR09T: Virology general concept
week 4	Plasmid DNA isolation, Agarose gel	UG 6: Paper MCBCOR14T: RDT: PCR general idea
	electrophoresis	PG Sem II: Paper MCBT201: DNA replication,
	UG 6 (CBCS): PCR	PG Sem IV: Paper18:Virology: Viral vectors
Week 5 to	PG Sem II: Paper 9: Molecular	UG 4 (CBCS): Paper MCBCOR09T: Lambda, T4 phage genetics
week 8	Biology Practical: Genomic DNA	UG 6: Paper MCBCOR14T: RT PCR
	isolation, RFLP	PG Sem II: Paper MCBT201: Transcription, RNA processing,
	UG 6 (CBCS): RE digestion	PG Sem IV: Paper18: Virology: Viral vectors

Week 9 to	UG 4 (CBCS): Paper MCBCOR08P:	UG 4 (CBCS): Paper MCBCOR08T: Transformation, Transduction
Week 12	Bacterial Conjugation	UG 6: Paper MCBCOR14T: RDT: Mod vectors: HAC, BAC, PAC,
	UG 6 (CBCS): Transformation	(AC
		PG Sem II: Paper MCBT201: Translation,
		PG Sem IV: Paper18: Virology: Cancer
Week 13	PG Sem II: Paper 9: Molecular	UG 4 (CBCS): Paper MCBCOR08T: Plasmid, conjugation
	Biology Practical: Cloning, RE	UG 6: Paper MCBCOR14T: Real Time PCR
	Digestion	PG Sem II: Paper MCBT201: Protein folding
		PG Sem IV: Paper18:Virology: Cancer
Week 13	to week 14 Interna	d Exam
Week 15 to	Mock Viva-voce from the practical	UG 4 (CBCS): Paper MCBCOR08T: Revision
17		UG 6: Paper MCBCOR13T: Viral pathogens
		PG Sem II: Paper MCBT203: RDT: Application in RDT
		PG Sem IV: Paper18: Virology: Revision
Week 18	Revision, Practice	Revision

Teaching Planfor Odd Semester, UG,PG course

Department of Microbiology

Session (2022-23)

Class:B.Sc./M.Sc

Semester Sem 1,3,5 (UG), 1,3(PG)

Name of the Teacher: Parama Das Gupta

Subject: Microbiology

Paper: UG&PG..... (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	UG Sem I (CBCS:)Core Paper :MCBACOR01P,Introduction to Microbiology and microbial diversity: Study of instruments, Media Preparation, Sterilization UG Sem V (CBCS):Core Paper :MCBACOR11P: Industrial Microbiology PG Sem I Paper MCBP102: Basic Microbiology	UG Sem I (CBCS) Core Paper : MCBACOR02T, Bacteriological Techniques UG Sem III (CBCS)Core Paper : MCBACOR05T,Phototrophic Metabolism UG Sem V (CBCS) Core Paper :MCBACOR11T, Microbial Production of Industrial Products PG Sem I PaperMCBT102 :Basic Microbiology& Cell Biology: Morphology of Prokaryotes PG Sem III Paper 14 DSE 1: Bioprocess Technology: Brief
Week 5 to week 8	UG Sem I (CBCS):Core Paper :MCBACOR01P, Introduction to Microbiology and microbial diversity: Fungal Cultivation, fungal staining UG Sem V (CBCS) Core Paper: MCBACOR11P, Industrial Microbiology PG Sem I Paper MCBP102: Basic Microbiology	Outline of Commercially Important Products: Primary Metabolites UG Sem I (CBCS) Core Paper: MCBACOR02T, Bacteriological Techniques UG Sem III (CBCS)Core Paper: MCBACOR05T,Phototrophic Metabolism UG Sem V (CBCS) Core Paper: MCBACOR11T, Microbial Production of Industrial Products PG Sem I PaperMCBT102: Basic Microbiology& Cell Biology: Morphology of Prokaryotes PG Sem III Paper 14 DSE 1: Bioprocess Technology: Brief Outline of Commercially Important Products: Primary Metabolites
Week 9 to Week 12	UG Sem I (CBCS) Paper :MCBACOR02P, Bacteriology: Bacterial Staining	UG Sem I (CBCS) Core Paper :MCBACOR02T, Important archeal and eubacterial groups: Firmicutes UG Sem III (CBCS)Core Paper : MCBACOR05T, Phototrophic

	UG Sem V (CBCS)Paper MCBACOR11P : Mock Viva voce for practical examination	Metabolism
	PG Sem I Paper MCBP102: Basic Microbiology	UG Sem V (CBCS) Core Paper :MCBACOR11T, Microbial Production of Industrial Products
		PG Sem I:PaperMCBT102 : Basic Microbiology & Cell Biology: Archaea
		PG Sem III Paper 14 DSE 1: Bioprocess Technology: Brief Outline of Commercially Important Products: Primary Metabolites
Week 13	Paper A: MCBACOR02P, Bacteriology: Pure Culture Techniques	UG Sem I (CBCS) Core Paper :MCBACOR02T, Important archeal and eubacterial groups: Actinobacteria
	MCBACOR11P: Mock Viva voce for practical examination PG Sem I Paper MCBP102: Basic Microbiology	UG Sem III (CBCS): SEC Paper :MCBSSEC001, Probiotics UG Sem V(CBCS): DSE Paper:MCBADES03T, Inheritance biology: Human genetics PG Sem I:PaperMCBT102 : Basic Microbiology & Cell Biology: Archaea PG Sem III: GEC Paper: Microbes in sustainable development
Week13 t	o week 14 Interna	ll Exam
Week 15 to 17	Core Paper : MCBACOR02P, Bacteriology: Pure Culture Techniques PG Sem I Paper MCBP102: Basic Microbiology	UG Sem I (CBCS) Core Paper :MCBACOR02T, Important archeal and eubacterial groups :Cyanobacteria UG Sem III (CBCS): SEC Paper :MCBSSEC001, Probiotics UG Sem V(CBCS): DSE Paper: MCBADES03T, Inheritance biology: Human genetics PG Sem I Paper MCBAECC: Laboratory Safety Measures&IPR: Biological Hazards PG Sem III: GEC Paper: Microbes in sustainable development
Week 18	Revision, Practise	Revision

Teaching Plan for even Semester, UG, PG course

Department ofMicrobiology.....

Session (2022-23)

Class:B.Sc./M.Sc.

Semester 2,4,6(UG) & 2,4(PG)Name of the Teacher: Parama Das Gupta

Subject:Microbiology

Paper :UG & PG.. (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	UG Sem II (CBCS):Core Paper :MCBACOR04P, Environmental Microbiology: Water Microbiology	UG Sem II(CBCS): Core Paper: MCBACOR04T, Water Potability UG Sem IV(CBCS):Core Paper: MCBACOR10T, Food borne diseases
	UG Sem IV(CBCS) Core Paper: MCBACOR10P, Food and Dairy Microbiology	UG Sem VI(CBCS):Core Paper: MCBACOR13T, Normal microflora of the human body and host pathogen interaction
	UG Sem VI(CBCS):Core Paper:MCBACOR13P, Medical Microbiology	PG Sem II PaperMCBSEC : Environmental Microbiology: Water Microbiology
	PG Sem II MCBP202: Environmental Microbiology	PG Sem IV: Paper 16: Medical Microbiology: Pathogenicity of Microorganism
Week 5 to week 8	UG Sem II (CBCS):Core Paper :MCBACOR04P, Environmental Microbiology: Water Microbiology	UG Sem II(CBCS): Core Paper: MCBACOR04T, Water Potability UG Sem IV(CBCS):Core Paper: MCBACOR10T, Food borne diseases UG Sem VI(CBCS):Core Paper: MCBACOR13T, Normal
	UG Sem IV(CBCS) Core Paper : MCBACOR10P, Food and Dairy Microbiology	microflora of the human body and host pathogen interaction PG Sem II Paper MCBSEC: Environmental Microbiology: Water Microbiology
	UG Sem VI(CBCS):Core Paper:MCBACOR13P, Medical Microbiology PG Sem II MCBP202: Environmental	PG Sem IV: Paper 16: Medical Microbiology: Pathogenicity of Microorganism
	Microbiology	
Week 9 to Week 12	UG Sem II (CBCS):Core Paper :MCBACOR04P, Environmental Microbiology: Water Microbiology	UG Sem II(CBCS) Core Paper: MCBACOR04T, Microbial Interactions UG Sem IV(CBCS): Core Paper: MCBACOR10T, Food borne diseases
	UG Sem IV(CBCS) Core Paper : MCBACOR10P, Food and Dairy Microbiology	UG Sem VI(CBCS):Core Paper: MCBACOR13T, Normal microflora of the human body and host pathogen interaction PG Sem II MCBSEC: Environmental Microbiology: Waste
	UG Sem VI(CBCS):Core Paper:MCBACOR13P, Medical	Management: Solid Waste Management PG Sem IV: Paper 16: Medical Microbiology: Human Diseases :Caused
Week 13	Microbiology UG Sem II (CBCS):Core Paper :MCBACOR04P, Environmental	by Protozoa UG Sem II(CBCS) Core Paper: MCBACOR04T, Microbial Interactions
	Microbiology: Water Microbiology UG Sem IV(CBCS) Core Paper: MCBACOR10P, Food and Dairy Microbiology	UG Sem IV(CBCS) Core Paper: MCBACOR10T, Food borne diseases
		UG Sem VI(CBCS) Core Paper: MCBACOR13T, Normal microflora of the human body and host pathogen interaction
	UG Sem VI(CBCS):Core Paper:MCBACOR13P, Medical Microbiology	PG Sem II MCBSEC: Environmental Microbiology: Waste Management: Solid Waste Management
		PG Sem IV: Paper 16: Medical Microbiology: Human Diseases :Caused by Protozoa

Week 13	to week 14 Intern	al Exam
Week 15 to 17	UG Sem II (CBCS):Core Paper :MCBACOR04P, Environmental Microbiology: Water Microbiology UG Sem IV(CBCS) Core Paper: MCBACOR10P, Food and Dairy Microbiology UG Sem VI(CBCS):Core Paper:MCBACOR13P, Medical Microbiology	UG Sem II (CBCS) Core Paper: MCBACOR04T, Microbial Interactions UG Sem IV(CBCS) Core Paper: MCBACOR10T, Food borne diseases UG Sem VI(CBCS) Core Paper: MCBACOR13T, Protozoan Diseases PG Sem II MCBSEC: Environmental Microbiology: Bioremediation to Environmental Pollutants: Microbial Strategy to Detoxify Heavy Metals PG Sem IV: Paper 19DSE 2: Agricultural Microbiology: Biofertilizer
Week 18	Revision, Practise	Revision

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: Session (2022-23)

Class: B.Sc/M.Sc.

Semester 1,3,5 (UG) & 1,3 (PG) Name of the Teacher: Dr. Sudipta Chakraborty Subject: Microbiology

Paper: UG/PG Theory and Practical (Offline)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	UG 1 (CBCS): Paper – MCBCOR01P: Microbiological instruments and their functions, fungal staining	UG 1 (CBCS): Paper – MCBCOR02T: Bacterial morphology, Proteobacteria, Archaebacteria. Part II (UG): Paper –V: Oxadative phosphorylation, Thermodynamics
		Part III (UG): Paper –V: Transposons & its mechanism, TN family PG Sem I: Paper 2: Bacterial morphology, Quoram sensing PG Sem III: paper 13- RDT vectors, CRISPR-Cas
Week 5 to week 8	UG 1 (CBCS): Paper – MCBCOR02P: Biochemical assay of protein carbohydrate lipids, Quantitative analysis of proteins	UG 1 (CBCS): Paper – MCBCOR02T: physical factors affecting growth: pH, temperature, pressure, O2 & CO2 concentration etc. Part II (UG): Paper – VI: Cellsignalling, Intracellular Trafficking Part III (UG): Paper –V: RDT: restriction & modification enzymes PG Sem II: Paper 2: Physical factors affecting on microbial growth PG Sem III: Paper 13: Ligation: E. coli & T4 DNA ligase, cloning
Week 9 to Week 12	PG Sem III: Paper 15: Biostatistics: 1. Measures of central tendency: mean, median, mode 2. Measures of Dispersion: MD, SD 3. Measures of statistical errors	UG 1 (CBCS): Paper – MCBCOR02T: Chemical factors of growth: Acid, alkali, salt, detergent, alcohol, heavy metals etc. Part II (UG): Paper – IV: Water Microbiology: detailed mechanism of IMViC test, potability of water Part III (UG): Paper –V: RDT: types & mechanism of vectors PG Sem I: Paper 3: Spectroscopy, NMR, ESR, Fluorescence sepectrosopy, SPR, Mass Spectroscopy PG Sem III: paper 13: enzymes: TdT, Taq pol., pfu Pol, S1 nuclease
Week 13	PG Sem III: Paper 15: Biostatistics: 4. Concept of bi-variate data: correlation, calculation of correlation co-efficient 5. Analysis of regression	UG 1 (CBCS): Paper – MCBCOR02T: Batch & continuous culture: Chemostat & turbidostat Part II (UG): Paper – IV: Water Microbiology: Purification of sewage water: trickling filter, oxidation pond etc Part III (UG): Paper –V: RDT: mechanism & types of PCR PG Sem II: Paper 2: Batch & continuous culture: chemostat PG Sem III: paper 13: genomic & pDNA: Isolation & purification
Week13 t	to week 14 Interna	al Exam
Week 15 to 17	PG Sem III: Paper 15: Biostatistics: 6. one-tail t-test 7. chi square test	UG 1 (CBCS): Paper – MCBCOR02T: methods of growth measurement: turbidimetric, plate count, membrane filter etc. Part II (UG): Paper – IV: Water Microbiology: Purification of drinking

	8. concept of probability, degrees of freedom	water: sedimentation, filtration, bleaching, RO etc. Part III (UG): Paper :V: RDT: genomic & cDNA library construction PG Sem I: Paper 2: Numerical problems on bacterial growth PG Sem III: paper 13: RNA & protein: Isolation & purification
Week 18	Revision, Practice	Revision

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2022-23)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) & 2,4 (PG) Name of the Teacher: Dr. Sudipta Chakraborty Subject: Microbiology

Paper: UG & PG Theory and Practical (Offline)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	UG 2 (CBCS): Paper MCBCOR03P: Study effect of temperature, pH and Heavy metals on enzyme activity, Qualitative/Quantitative tests for proteins: Biuret & Lowry's method UG 4 (CBCS): Paper MCBACOR09P Plaque assay of bacteriophages from standard teaching kit	UG 2 (CBCS): Paper MCBCOR03T: Bioenergetics and oxydative phosphorylation UG 4 (CBCS): Paper MCBCOR11T: Unit 4 Down-stream processing: Cell disruption, filtration, centrifugation, solvent extraction, precipitation, lyophilization and spray drying UG 6(CBCS): Paper MCBCOR13T: Antimicrobial agents: antibiotic and their mode of actions. Antibacterial agents: Five modes of action with one example each:; Inhibitor Antifungal, Antibiotic resistance, MDR, XDR, MRSA, NDM-1 PG Sem II: Paper MCBT203: Vectors, Si RNA and Mi RNA PG Sem IV: Paper17:Fermentation: penicillin, streptomycin, VitB ₁₂
Week 5 to week 8	PG Sem IV: Paper 17: Fermentative production of penicillin	UG 2 (CBCS): PaperMCBCOR03T: Numerical problems: pH ,buffers UG 4 (CBCS): Paper MCBSEC: Water microbiology: MPN test, presumptive, confirmed & completed test UG 6 CBCS: Paper MCBCOR14T: RDT: Vectors: mechanism, types PG Sem II: Paper MCBT203: Gene Knockout, gene expression analysis PG Sem IV: Paper MCB03DSE: Developmental Biology
Week 9 to Week 12	UG sem VI (MCBACOR13P: MEDICAL MICROBIOLOGY) 1. Antibacterial sensitivity test by agar cup assay 2. Antibacterial sensitivity test by Kirby-Bauer method 3. Determination of minimal inhibitory concentration (MIC) of an antibiotic.	UG 2 (CBCS): Paper – MCBCOR03T: Numerical problems on bioenergetics UG 4 (CBCS): Paper MCBCOR12T: Transposons UG 6 (CBCS): Paper MCBCOR14T: RDT: Modern vectors: HAC, BAC, PAC, YAC PG Sem II: Paper MCBT202: Regulation of prokaryotic gene expression, CRISPR-CAS mechanisms PG Sem IV: Paper MCB03DSE: Developmental Biology, Pattern formation, anterior posterior
Week 13	UG 6 (CBCS): Paper MCBDSE06P: 1. Determination of λ max for an unknown sample and calculation of extinction coefficient. 2. Separation of components of a given mixture using a laboratory scale centrifuge.	UG 2 (CBCS): Paper – MCBCOR03T: Revision UG 4 (CBCS): Paper MCBSEC: Water microbiology: Revision UG 6: Paper MCBCOR14T: RDT: Cloning: blue-white screening PG Sem II: Paper MCBT203: RDT: Isolation & purification of protein: PAGE, Western blot PG Sem IV: Paper17:bread, pickles, dosa, sauerkraut fermentation
Week 13 to week 14 Interns		l Exam
Week 15 to 17 Week 18	Mock Viva-voce from the practical Revision, Practice	UG 2 (CBCS): Paper – MCBCOR03T: titration curve, isoelectic pH UG 4 (CBCS): Paper MCBSEC: Water microbiology: Purification of water: sedimentation, filtration, UV, RO, bleaching etc. UG 6: Paper MCBCOR14T: RDT: properties of expression vectors PG Sem II: Paper MCBT203: RDT: Revision PG Sem IV: Paper17: Probiotics, SCP, mushroom production Revision

Teaching Planfor Odd Semester, UG & PG courses **Department of Microbiology** Session (2022-23)

Class: B.Sc /M.Sc.

UG Semester 1,3,5, PG 1 and PG 3 Name of the Teacher: Dr. Sandip Misra

Subject: Microbiology

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to		UG 1 (CBCS) Paper MCBACOR01T:
week 4	UG1 (CBCS)Paper MCBACOR01P:	· · · · · ·
	study the principal of important laboratory instrument.	Unit -2 - microscopy
		UG3 (CBCS) Paper MCBACOR06T:
	UG1 (CBCS)Paper MCBACOR02P :	
	bacterial staning (gram, endospore),	Unit 2 – Nucleus
	estimation of CFU by spread and pour plate method.	Unit -5 – cell cycle regulation
		UG 5 (CBCS) Paper MCBACOR12T: Immunology
		Unit 2. Immuno cell and organ
		PG1: Paper MCBT101: Biomolecules & Enzymology:
		Protein structure
		PG 3: Paper 11: Immunology: Antibody diversity
Week 5 to week 8	UG5 (CBCS)Paper MCBACOR012P Immunology practical	UG3 (CBCS) Paper MCBACOR06T:
Week o	immunology praedear	Unit 2 – Nucleus
		Unit -5 – cell cycle regulation
		UG 5 (CBCS) Paper MCBACOR12T: Immunology
		CG 5 (CDCS) 1 april MCDACOR121. Illiminulology
		Unit 4 Antibodies
		Unit 7- Generation of immune response
		PG1: Paper MCBT101: Biomolecules & Enzymology:
		Protein structure
		PG 3: Paper 11: Immunology: Antibody diversity
Week 9 to	UG5 (CBCS)Paper MCBACOR012P	UG 5 (CBCS) Paper MCBACOR12T: Immunology
Week 12	Immunology practical	Unit 7- Generation of immune response
		PG 3: Paper 11: Immunology: B cell development and T cel
		development, activation, positive and negative selection
Week 13	Practical copywriting completion	PG 3: Paper 11: Immunology: B cell development and T cel
		development, activation, positive and negative selection
Week13	to Week 14 Interna	al Exam

Week 15 to 17	UG5 (CBCS)Paper MCBACOR012P Immunology practical	PG1: Paper MCBT101: Biomolecules & Enzymology: Protein structure PG3: Paper 11: Immunology: B cell development and T cell development, activation, positive and negative selection
Week 18	Revision, Practise	Revision

Teaching Planfor even Semester, UG & PG courses

Department of Microbiology Session (2022-2023)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) and PG 2 and PG 4 Name of the Teacher: Dr. Sandip Misra

Subject: Microbiology

Paper: CC3, CC9, CC 13, CC 14 and DSE 06 (UG), PG Paper MCBT201 (Theory and Practical)

Mode: Offline

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	UG 2 (CBCS) Paper MCBACOR04P:	UG 2 (CBCS) Paper MCBACOR03T: Unit 4- proteins structure
	Isolation of microbes from soil	UG 4 (CBCS) Paper MCBACOR09T: Unit 3- Viral nucleic, viral transmission and replication
		UG 6 (CBCS) Paper MCBACOR13T: Unit 2- sample collection, transport and diagnosis
		Paper MCBACOR14T UNIT-5 Construction and screening of genomic and cDNA library
		PG 2: Paper MCBT201: Metabolism & Bioenergetics: Catabolism of amino acid
Week 5 to week 8	UG 2 (CBCS) Paper MCBACOR04P:	UG 2 (CBCS) Paper MCBACOR03T: Unit 4- proteins structure
	Isolation of microbes from rhizosphere	UG 4 (CBCS) Paper MCBACOR09T: Unit 3- Viral nucleic, viral transmission and replication UG 6 (CBCS) Paper MCBACOR14T:
		UNIT-5 Construction and screening of genomic and cDNA library
		PG 2: Paper MCBT201: Metabolism & Bioenergetics: PG 2: Paper MCBT201: Metabolism & Bioenergetics: Catabolism of amino acid
Week 9 to Week 12	UG 2 (CBCS) Paper MCBACOR04P:	UG 2 (CBCS) Paper MCBACOR03T: Unit 4- proteins structure
	Isolation of microbes from phylosphere	UG 4 (CBCS) Paper MCBACOR09T: Unit 3- Viral nucleic, viral transmission and replication
		UG 6 (CBCS) Paper MCBACOR14T UNIT-5 Construction and screening of genomic and cDNA library UNIT-6 Application of recombinant DNA technology

		UG 2 (CBCS) Paper MCBACOR04T: Unit 3- biogeochemical cycle
		PG 2: Paper MCBT201: Metabolism & Bioenergetics: PG 2: Paper MCBT201: Metabolism & Bioenergetics: Catabolism of fatty acid
Week 13		UG 6- (CBCS) Paper MCBADSE06T Microscope
Week 13	to week 14 Intern	al Exam
Week 15 to 17		UG 2 (CBCS) Paper MCBACOR04T: Unit 3- biogeochemical cycle UG 6- (CBCS) Paper MCBADSE06T: Microscope
Week 18	Revision, Practise and copy checking	Revision, class tests

Teaching Plan for Odd Semester, UG & PG course

<u>Department of Microbiology</u>: <u>Session (2022-23)</u>

Class: B.Sc/M.Sc.

Semester 1,3,5 (UG) & 1,3 (PG) Name of the Teacher: Dr. Sourav Pakrashi

Subject: Microbiology

Paper: UG/PG Theory and Practical (Offline)

S. No	Practical syllabus to be covered	Theory syllabus to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	UG sem I: Instrumentation in Microbiology	UG 1 (CBCS): Paper – MCBCOR02T: Bacterial morphology,
to week 4	Autoclave, laminar air flow, pH	UG III: MCBCOR05T: Membrane transport,
		Part III (UG): Paper –V: Mendelian genetics
		PG Sem I: Paper 1: Lipid, Bacterial cell wall
		PG Sem III: paper 13- RDT: Southern blotting
Week 5 to	PG Sem III : Paper 15: Biochemistry:	UG 1 (CBCS): Paper – MCBCOR02T: physical factors affecting
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lowry assay to quantify unknown	(),
week 8	protein sample.	growth: pH, temperature, pressure, O2 & CO2 concentration etc.
		UG III: MCBCOR05T: Mixed acid & Alcohol fermentation pathways
		Part III (UG): Paper –V: RDT: Expressional vectors, various plasmids
		PG Sem I: Paper 2: Archaeal cell wall, adaptation
		PG Sem III: Paper 13: Northern blotting
Week 9 to	PG Sem III: Paper 15: Biochemistry:	UG 1 (CBCS): Paper – MCBCOR02T: Chemical factors of growth:
Week 12	Bradford assay to quantify unknown protein sample.	Acid, alkali, salt, detergent, alcohol, heavy metals etc.
		UG III: MCBCOR05T: Fermentative pathways: Revision
		Part III (UG): Paper –V: RDT: types & mechanism of vectors
		PG Sem I: Paper 2: Chemical factors affecting on microbial growth
		PG Sem III: paper 13: Protein purification for western blotting
Week 13	UGIII: DNA quantification using spectrophotometer	UG 1 (CBCS): Paper – MCBCOR01T: Characteristics of protozoa
		UG III: MCBCOR05T: various cell organelles of eukaryotic cell

		Part III (UG): Paper –V: RDT: mechanism & types of PCR
		PG Sem I: Paper 2: Active and passive transport, medical relevance
		PG Sem III: paper 13: Western blotting, RT PCR, Microarray
Week1	3 to week 14	Internal Exam
		UG 1 (CBCS): Paper – MCBCOR01T: Characteristics of protozoa
Week 15	Mock Viva-voce from the practical	UG III: MCBCOR05T: Translation, Post transcriptional modification
		Part III (UG): Paper :V: RDT: genomic & cDNA library construction
		PG Sem I: Paper 2: Numerical problems on bacterial growth
		PG Sem III: paper 13: RADP, RFLP,
Week 18		Revision

$\frac{\text{BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE,}}{\text{KOLKATA}}$

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2022-23)

Class: B.Sc/M.Sc.

Semester 2,4,6 (UG) & 2,4 (PG) Name of the Teacher: Dr. Sourav Pakrashi

Subject: Microbiology

Paper: UG & PG Theory and Practical (Offline)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1	UG 2 (CBCS): Paper MCBCOR02P:	UG 2 (CBCS): Paper MCBCOR03T: Lipid
to week 4	Gram staining, pure culture,	UG 4 (CBCS): Paper MCBCOR 9T: Cancer,
		Part III (UG): Paper :V: RDT: Southern blotting
		PG Sem II: Paper 9: Osmosis, diffusion
		PG Sem IV: Paper 16: Antimicrobial therapy, antibiotics
Week 5 to	UG 4 (CBCS): Isolation of UV resistant bacteria.	UG 2 (CBCS): PaperMCBCOR03T: Lipid
week 8		UG 4 (CBCS): Paper MCBSEC: Cancer
		Part III (UG): Paper V : Applications of RDT: RFLP, RAPD, fingerprint
		PG Sem II: Paper 7: DNA mutation
		PG Sem IV: Paper 17: Vibrio cholerae
Week 9 to		UG 2 (CBCS): Paper – MCBCOR03T: Various disease related to lipid

Week 12		UG 4 (CBCS): Paper MCBSEC: Water microbiology: IMViC test
		Part III (UG): Paper - V: RDT: Isolation & purification of DNA, RNA,
		protein: Agarose Gel Electrophoresis & PAGE
		PG Sem II: Paper 7: Chromatography: affinity, HPLC, GLC
		PG Sem IV : Paper 17: Fermented food: curd, yogurt, cheese, tofu
Week 13		UG 2 (CBCS): Paper – MCBCOR03T: Sphingolipid, Phospholipid
		UG 4 (CBCS): Paper – MCBCOR07T: Translation
		Part III (UG): Paper - MCBCOR013T – Medical Microbiology
		PG Sem II: Paper 7: RDT- Western blotting
		PG Sem IV: Paper17: Medical Microbiology
Week 1	3 to week 14	Internal Exam
Week 15	Mock Viva-voce from the practical	UG 2 (CBCS): Paper – MCBCOR03T: Lipid revision
to 17		UG 4 (CBCS): Paper – MCBCOR07T : Translation,
	•	UG 6: Paper MCBCOR13T: Bacterial disease
		PG Sem II: Paper MCBT203: RDT : Western blotting
		PG Sem IV: Paper17: Medical microbiology
Week 18	Revision, Practice	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Dr Saurabh Chakraborti (Principal)

Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02, ZOOACOR06, ZOOACOR12 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4		ZOOACOR01T, Unit 1: Locomotion and Reproduction in Protista ZOOACOR02T Unit 5: Applied Ecology Wildlife Conservation (in-situ and ex-situ conservation). Management strategies for tiger conservation; Wild life protection act (1972)
Week 5 to Week 8		ZOOACOR06T, Unit 3: Nervous System 4 10 Structure of neuron, resting membrane potential, Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers; Types of synapse, Synaptic transmission and Neuromuscular junction; Reflex action and its types
Week 9 to Week 12	ZOOACOR12P: Chi-square analyses Statistical tests of data and decision making Chi square test for goodness of fit and student t test for comparing means of two small samples from normal populations (paired/unpaired)	ZOOACOR12T, Unit 2: Linkage, Crossing Over and Chromosomal Mapping Linkage and Crossing Over, molecular basis of crossing over, Measuring Recombination frequency and linkage intensity using three factor crosses, Interference and coincidence
Week 13		
Week 1	13 to week 14	Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Dr Ranajit Karmakar
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR05, ZOOACOR06, ZOOACOR07, ZOOACOR11, ZOOACOR12, ZOOADSE01 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	be mentioned) ZOOACOR01P: Study of Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora ZOOACOR06P: Study of permanent slides of Mammalian skin, Cartilage, Bone, Spinal cord, Nerve cell, Pituitary, Pancreas, Testis, Ovary, Adrenal, Thyroid 4. Microtomy: Preparation of permanent slide of any five (lung, salivary gland,	ZOOACOR01T, Unit 3: Cnidaria General characteristics and Classification up to classes Metagenesis in Obelia Polymorphism in Cnidaria Corals and coral reefs: types, formation distribution, conservation significance ZOOACOR06T: Unit 1: Tissues 4 classes Structure, locations, classification and functions of epithelial tissues, connective tissues, muscular tissues and nerve tissues Unit 2: Bone and Cartilage Structure and types of bones and cartilages, Ossification ZOOACOR12T, Unit 1: Mendelian Genetics and its Extension Background of Mendel's experiments Principles of Mendelian inheritance, Incomplete dominance and co-dominance, Epistasis, Multiple alleles, Lethal alleles, Pleiotropy, Sex-linked, sex- influenced and sex-
Week 5 to Week 8	stomach, small intestine, large intestine only) mammalian (white rat) tissues ZOOACOR05P: Aves Study of six common birds from different orders (Stork, Owl/Falcon, Sun Bird, Jacanna, Duck)- types of beaks and claws.	limited inheritance, Polygenic Inheritance. ZOOACOR05T, Unit 8: Aves General characteristics and classification up to Sub-Classes Exoskeleton and migration in Birds Principles and aerodynamics of flight ZOOADSE01T, Unit 3: Social and Sexual Behaviour 1. Social Behaviour: Concept of Sociality, Types of animal Society with examples, Altruism 3. Insects' society with Honey bee as example; Foraging in honey bee and advantages of the waggle dance.
Week 9 to Week 12	ZOOACOR07P: Study of the enzymatic activity of Trypsin and Lipase.	ZOOACOR07T: Unit 1: Fundamentals of biochemical reactions and metabolism correlations. XII Edition. Ionization of water, weak acids and bases, buffering and pH changes in living systems Metabolism: Catabolism and Anabolism, Compartmentalization of metabolic pathways, Shuttle systems and membrane transporters; ATP as "Energy Currency of cell"; coupled reactions; Use of reducing equivalents and cofactors; Intermediary metabolism and regulatory mechanisms
Week 13	ZOOACOR12P : Pedigree analysis of some inherited traits in human	ZOOACOR07T Unit 2: Carbohydrates Structure and Biological importance: Monosaccharides, Disaccharides, Polysaccharides; Derivatives of Monosachharides Carbohydrate metabolism: Glycolysis, Citric acid cycle, Pentose phosphate pathway, Gluconeogenesis
Week 1	3 to week 14	Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Dr Somnath Mandal Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02, ZOOACOR05, ZOOACOR06, ZOOACOR07, ZOOACOR11, ZOOACOR12 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)
	be mentioned)	
Week 1 to week 4	ZOOACOR01P: Study of adult Ascaris lumbricoides and its life stages (Slides/microphotographs) ZOOACOR02P: 1. Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided	ZOOACOR01T, Unit 6: Nemathelminthes General characteristics and Classification-Life cycle, and pathogenicity of Ascaris lumbricoides, Ancylostoma duodenale and Wuchereria bancrofti Parasitic adaptations in helminths Origin and evolution of parasitic helminthes ZOOACOR02T: Unit 1: History of ecology, Autecology and synecology, Levels of organization, Laws of limiting factors, Study of Physical factors, The Biosphere. Unit 2: Unitary and Modular populations Unique and group attributes of population: Demographic factors, life tables, fecundity tables, survivorship curves, dispersal and dispersion. Geometric, exponential and logistic growth, equation and patterns, r and K strategies Population regulation - density dependent and independent factors Population Interactions, Gause's Principle with laboratory and field examples, Lotka-Volterra equation for competition. ZOOACOR11T: Unit 3: Transcription Mechanism of Transcription in prokaryotes and eukaryotes, Transcription factors, Difference between prokaryotic and eukaryotic transcription. Unit 5: Post Transcriptional Modifications and Processing of Eukaryotic RNA Capping and Poly A tail formation in mRNA; Split genes: concept of introns and exons, splicing mechanism, alternative splicing, exon shuffling, and RNA editing, Processing of tRNA
Week 5 to Week 8	Branchiostoma, Colonial Urochordates; Sections of Balanoglossus through proboscis and branchiogenital regions, Sections of Amphioxus through pharyngeal, intestinal and caudal regions, Herdmania spicules	ZOOACOR05T: Unit 1: Introduction to Chordates General characteristics and outline classification of Phylum Chordata Unit 2: Protochordata General characteristics and classification of sub-phylum Urochordata and Cephalochordata up to Classes. Metamorphosis in Ascidia Chordate Features and Feeding in Branchiostoma ZOOACOR06T: Unit 3: Nervous System 4 10 Structure of neuron, resting membrane potential, Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers; Types of synapse, Synaptic transmission and Neuromuscular junction; Reflex action and its types
Week 9 to Week 12	ZOOACOR07P Performing the Acid and Alkaline phosphatase assay from serum/ tissue. 4. Demonstration of proteins separation by SDS-PAGE.	ZOOACOR07T: Unit 4: Proteins Amino acids Structure, Classification, General and Electro chemical properties of α-amino acids; Physiological importance of essential and non-essential amino acids Proteins Bonds stabilizing protein structure; Levels of organization Protein metabolism: Transamination, Deamination, Urea cycle, Fate of C-skeleton of Glucogenic and Ketogenic amino acids ZOOACOR12T, Unit 7: Transposable Genetic Elements Transposons in bacteria, Ac-Ds elements in maize and P elements in Drosophila, LINE, SINE, Alu elements in humans
Week 13	DNA	ZOOACOR06T, Unit 4: Muscular system 10 Histology of different types of muscle; Ultra structure of skeletal muscle; Molecular and chemical basis of muscle contraction; Characteristics of muscle fiber Unit 5: Reproductive System Histology of testis and ovary; Physiology of Reproduction
Week 1	3 to week 14	Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Dr Suman Mukherjee
Subject: Zoology

 $\textbf{Paper:}\ ZOOACOR01,\ ZOOACOR02,\ ZOOACOR05,\ ZOOACOR06,\ ZOOACOR07,\ ZOOACOR11,\ ZOOACOR12\\ \textbf{(Theory and Practical)}$

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)
	be mentioned)	
Week 1 to week 4	ZOOACOR01P: Study of adult Fasciola hepatica, Taenia solium and their life cycles (Slides/microphotographs) ZOOACOR02P: Study of an aquatic ecosystem: Sampling of Phytoplankton and zooplankton, Measurements of temperature, turbidity/penetration of light, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO ₂ .	ZOOACOR01T, Unit 5: Platyhelminthes-General characteristics and Classification up to classes Life cycle and pathogenicity of Fasciola hepatica and Taenia solium ZOOACOR02T, Unit 4: Ecosystem 10 classes Types of ecosystem with an example in detail, Food chain: Detritus and grazing food chains, Linear and Y-shaped food chains, Food web, Energy flow through the ecosystem, Ecological pyramids and Ecological efficiencies Nutrient and biogeochemical cycle with an example of Nitrogen cycle Human modified ecosystem
Week 5 to Week 8	ZOOACOR05P: Amphibia Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes, Salamandra	ZOOACOR05T: Unit 6: Amphibia General characteristics and classification up to living Orders Metamorphosis and parental care in Amphibia ZOOACOR06T: Unit 6: Endocrine System 16 6 Histology and function of pituitary, thyroid, pancreas and adrenal; Classification of hormones; Mechanism of Hormone action; Signal transduction pathways for Steroidal and Non steroidal hormones; Hypothalamus (neuroendocrine gland) - principal nuclei involved in neuroendocrine control of anterior pituitary and endocrine system; Placental hormones
Week 9 to Week 12	ZOOACOR07P: 1. Qualitative tests of functional groups in carbohydrates, proteins and lipids.	ZOOACOR07T: Unit 3: Lipids Structure and Significance: Physiologically important saturated and unsaturated fatty acids, Triacylglycerols, Phospholipids, Sphingolipid, Glycolipids, Steroids, Eicosanoids and terpinoids. Lipid metabolism: β-oxidation of fatty acids; Fatty acid biosynthesis ZOOACOR12T: Unit 6: Recombination in Bacteria and Viruses Conjugation, Transformation, Transduction, Complementation test in Bacteriophage
Week 13	ZOOACOR07P 3. Quantitative estimation by Lowry Method	ZOOACOR11T, Unit 8: Molecular Lab Techniques PCR, Western and Southern blot, Northern Blot, Sanger DNA sequencing, cDNA technology
Week 1	3 to week 14	Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Mrs Urmi Mitra
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR05, ZOOACOR07, ZOOACOR11, ZOOADSE01 (Theory and Practical)

Paper: Z	OOACOR01, ZOOACOR05, ZOOACOR07, ZO	OOACOR11, ZOOADSE01 (Theory and Practical)
S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	ZOOACOR01P: Study of whole mount of Euglena, Amoeba and Paramoecium, Binary fission and Conjugation in Paramoecium To submit a Project Report on any related topic on pond water protozoan or invertebrate diversity/ life cycles of mosquitoes, butterfly/moth etc/coral and coral reefs.	
Week 5 to Week 8	ZOOADSE01P: 3. To study geotaxis behaviour in earthworms. 4. To study the phototaxis behaviour in insects/defensive behaviour in mosquito larvae.	ZOOACOR07T: Unit 6: Enzymes Nomenclature and classification; Cofactors; Specificity of enzyme action; Isozymes; Mechanism of enzyme action; Enzyme kinetics; Derivation of Michaelis-Menten equation, Lineweaver Burk plot; Factors affecting rate of enzyme-catalyzed reactions; Enzyme inhibition; Allosteric enzymes and their kinetics; Strategy of enzyme action- Catalytic and Regulatory (Basic concept with one example each)
Week 9 to Week 12	ZOOADSE01P: 7. Study of circadian functions in humans (daily eating, sleep and temperature patterns).	ZOOADSE01T, Unit 4: Introduction to Chronobiology 1. Historical developments in chronobiology; 2. Biological oscillation: the concept of Average, amplitude, phase and period 3. Adaptive significance of biological clocks
Week 13	ZOOADSE01P: 6. Study and actogram construction of locomotor activity of suitable animal models.	ZOOADSE01T, Unit 5: Biological Rhythm 1. Types and characteristics of biological rhythms: Short- and Long- term rhythms; Circadian rhythms; Tidal rhythms and Lunar rhythms; 2. Concept of synchronization and masking; Photic and non-photic zeitgebers; Circannual rhythms; 3. Photoperiod and regulation of seasonal reproduction of vertebrates; Role of melatonin.
Week 1	13 to week 14	Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Dr Suman Bej
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR05, ZOOACOR06, ZOOACOR07, ZOOACOR11, ZOOACOR12 (Theory and Practical)

** CCK 1	Practical syllabus to be covered (Paper code to be mentioned) ZOOACOR01P: Study of Sycon (T.S. and L.S.), Hyalonema, Euplectella, Spongilla One	Theory syllabus to be covered (Paper code to be mentioned) ZOOACOR01T, Unit 2: Porifera General characteristics and Classification up to classes
** CCK 1	ZOOACOR01P: Study of Sycon (T.S. and L.S.), Hyalonema, Euplectella, Spongilla One	ZOOACOR01T, Unit 2: Porifera General characteristics and Classification up to classes
** CCK 1	Hyalonema, Euplectella, Spongilla One	ZOOACOR01T, Unit 2: Porifera General characteristics and Classification up to classes
	specimen/slide of any Ctenophore	Canal system and spicules in sponges Unit 4: Ctenophora General characteristics ZOOACOR05T, Unit 3: Origin of Chordata Dipleurula concept and the Echinoderm theory of origin of chordates Advanced features of vertebrates over Protochordata Unit 4: Agnatha General characteristics and classification of cyclostomes up to order ZOOACOR11T: Unit 1: Nucleic Acids Salient features of DNA and RNA Watson and Crick Model of DNA Unit 2: DNA Replication Mechanism of DNA Replication in Prokaryotes, Semi-conservative, bidirectional and discontinuous Replication, RNA priming, Replication of telomeres
Week 5 to Week 8	Fishes-Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetraodon, Anabas, Flat fish	ZOOACOR05T, Unit 5: Pisces General characteristics and classification of Chondrichthyes and Osteichthyes up to Subclasses Accessory respiratory organ, migration and parental care in fishes Swim bladder in fishes. Classification up to Sub Classes
***	Mystus or Grass Carp, Pecten from Fowl head,	ZOOACOR07T: Unit 5: Nucleic Acids Structure: Purines and pyrimidines, Nucleosides, Nucleotides, Nucleic acids Types of DNA and RNA, Complementarity of DNA, Hypo- Hyperchromaticity of DNA Outlines of nucleotide metabolism
	subject to permission)	ZOOACOR12T: Unit 3: Mutations 1. Types of gene mutations (Classification), Types of chromosomal aberrations (Classification with one suitable example of each), Chromosomal aberrations, gene mutations and human diseases (Down's, Klienfelter's, Turner's, Cri du Chat, Sickle cell, Haemophilia, Thallassimia, Albinism – only genetical aspects here, details of physiological consequences not required), Sex chromosomes and sex-linked inheritance 2. Non-disjunction and variation in chromosome number; Molecular basis of mutations in relation to UV light and chemical mutagens
Week 13	3 to week 14	Internal Exam
Week 15 I to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

Teaching Plan for Odd Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 1, 3 and 5.

Name of the Teacher: Dr Biswatosh Ghosh
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02, ZOOACOR05, ZOOACOR07, ZOOACOR11, ZOOACOR12, ZOOADSE01 (Theory and Practical)

	COR01, ZOOACOR02 , ZOOACOR05, ZOOA	COR07, ZOOACOR11, ZOOACOR12, ZOOADSE01 (Theory and Practical)
S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)
	be mentioned)	
Week 1 to week 4	water collected from different places for diversity of protists in it. ZOOACOR05P: Mammalia Sorex, Bat (Insectivorous and Frugivorous), Funambulus, Loris, Herpestes, Erinaceous.	ZOOACOR01T, Unit 1: Protista, Parazoa and Metazoa Study of Euglena, Amoeba and Paramoecium Evolution of symmetry and segmentation of Metazoa ZOOACOR05T, Unit 9: Mammals General characters and classification up to living orders Phylogenetic significance of Prototheria Exoskeleton derivatives of mammals Adaptive radiation in mammals with reference to locomotory appendages Echolocation in Microchiropterans and Cetaceans ZOOADSE01T, Unit 1: Introduction to Animal Behaviour 1. A brief history of animal behaviour studies including the works of Fabre, Darwin, Von Frisch, Lorenz, Tinbergen, Jane Goodal, Biruté Galdikas, Dian Fossey, Salim Ali, Gopal Bhattacharyya, M. K. Chandrashekhar, Raghavendra Gadagkar. 2. The objectives of modern animal behaviour studies: Tinbergen's four questions.
Week 5 to Week 8	density of a natural/hypothetical population. Study of species diversity of a community by quadrat or any other suitable sampling method and calculation of Shannon-Weiner diversity index for the same community. ZOOACOR12P: Identification of chromosomal aberration in Drosophila from photographs ZOOADSE01P: 1. To study nests (non-invasively) and nesting habits of the birds and social insects (e.g. Social Wasps).	ZOOACOR02T: Unit 3: Community characteristics: species diversity, abundance, dominance, richness, Vertical stratification, Ecotone and edge effect. Ecological succession and example of it. ZOOACOR05T, Unit 10: Zoogeography Zoogeographical realms, Plate tectonic and Continental drift theory, Distribution of birds and mammals in different realms ZOOACOR12T: Unit 4: Sex Determination Mechanisms of sex determination in Drosophila with reference to alternative splicing Sex determination in mammals Dosage compensation in Drosophila & Human ZOOACOR07T: Unit 7: Oxidative Phosphorylation Redox systems; Review of
Week 9 to Week 12	acids. ZOOACOR11P: 1. Demonstration of polytene Chromosome from <i>Drosophila</i> /Chironomid larvae ZOOADSE01P: Study and actogram construction of locomotor activity of suitable animal models.	mitochondrial respiratory chain, Inhibitors and un-couplers of Electron Transport
Week 13	ZOOACOR11P: Isolation and quantification of genomic DNA using spectrophotometer (A260 measurement) ZOOADSE01P: 2. To study the behavioural responses of rice weevil /wood lice to dry and humid conditions. 5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park (within West Bengal) to study behavioural activities of animals and prepare a short report.	ZOOACOR12T, Unit 5: Extra-chromosomal Inheritance Criteria for extra chromosomal inheritance, Antibiotic resistance in <i>Chlamyadomonas</i> , Kappa particle in <i>Paramoecium</i> Shell spiralling in snail ZOOADSE01T, Unit 2: Behaviours of Individuals 1. Reflexes and Orientations 2. Instinct 3. Learning: Imprinting and other Programmed Learning, Habituation, Innovations and Cultural Transmission / Social Learning
Week 1	3 to week 14	Internal Exam
Week 15 to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6.

Name of the Teacher: Dr Saurabh Chakraborti (Principal)

Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02, ZOOACOR06, ZOOACOR12 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4		ZOOACOR04T, Unit 5: Cytoskeleton Structure and Functions: Microtubules, Microfilaments and Intermediate filaments
Week 5 to Week 8		ZOOACOR08T, Unit 7: Nervous System Comparative account of brain, Cranial nerves in mammals
Week 9 to Week 12		ZOOACOR09T, Unit 2: Physiology of Respiration 10 Mechanism of Respiration, Respiratory volumes and capacities, transport of Oxygen and Carbon dioxide in blood, Dissociation curves and the factors influencing it, respiratory pigments; Carbon monoxide poisoning
Week 13	equilibrium in a population by chi square analysis 5. Collection of a sample of height, weight, age, sex data from at least 100 individuals and applying of	ZOOACOR14T, Unit 5: Population genetics: Concept of Populations and calculation of allele frequencies in a population Hardy-Weinberg Law and equilibrium (derivations, applications of law to find gene and genotype frequencies in human Populations) Evolutionary forces disrupting H-W equilibrium- 16 Natural selection: Definition as the non-differential rate of reproductions and survivals of competing alleles, concept of fitness, selection coefficient, Types of natural selection with examples- Disrupting, Stabilizing, Directional. Genetic Drift-outline of its mechanism, basic concepts and examples of founder's effect, bottleneck phenomenon; Role of Gene flow and Mutation rates in changing allele frequencies in a population (No mathematical models)
Week 1	13 to week 14	Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6.

Name of the Teacher: Dr Ranajit Karmakar
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, ZOOACOR08, ZOOACOR09, ZOOACOR10, ZOOACOR13, ZOOACOR14, ZOOADSE04 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	be mentioned) ZOOACOR04P: 1. Preparation of temporary stained squash of onion root tip to study various stages of mitosis	ZOOACOR03T, Unit 1: Introduction to Coelomates Evolution of coelom and metamerism ZOOACOR04T, Unit 1: Overview of Cells Prokaryotic and Eukaryotic cells, Virus, Viroids, Mycoplasma, Prions Unit 2: Plasma Membrane Various models of plasma membrane structure Transport across membranes: Active and Passive transport, Facilitated transport Cell junctions: Tight junctions, Desmosomes, Gap junctions Extracellular Matrix-Cell Interactions ZOOACOR14T, Unit 4: Sources of variations 3 Heritable variations present in natural populations (classical study of Lewontin and Hubby, 1966 in Drosphila, as example)
Week 5 to Week 8	ZOOACOR04P: Preparation of permanent slide to demonstrate: a. DNA by Feulgen reaction b. Mucopolysaccharides by PAS reaction c. Proteins by Mercurobromophenol blue/Fast Green	ZOOACOR08T, Unit 1: Integumentary System Structure, function and derivatives of integument in amphibian, birds and mammals ZOOACOR09T, Unit 1: Physiology of Digestion 12 Structural organisation and functions of Gastrointestinal tract and Associated glands; Mechanical and chemical digestion of food, absorption of Carbohydrates, Lipids, Proteins and Nucleic Acids; Digestive enzymes ZOOADSE04T, Unit 1: Introduction and Classification General description of fish Feeding habit, habitat and manner of reproduction Classification of fish (up to Subclasses) with important examples
Week 9 to Week 12	ZOOACOR10P: 1. Demonstration of lymphoid organs. 2. Histological study of spleen, thymus and lymph nodes through slides/ photographs	ZOOACOR10T, Unit 1: Overview of Immune System Basic concepts of health and diseases, Historical perspective of Immunology, Organs (Primary & Secondary lymphoid organs and its importance) and Cells of the Immune system, Concept of Haematopoiesis and development of progenitor cells of the Immune system (Brief idea)
Week 13		ZOOACOR13T, Unit 1: Introduction 2 Basic concepts: Phases of Development, Cell-cell interaction, Differentiation and growth, Differential gene expression Unit 2: Early Embryonic Development Gametogenesis, Spermatogenesis, Oogenesis; Types of eggs, Egg membranes; 20 Fertilization (External and Internal): Changes in gametes, Blocks to polyspermy; Planes and patterns of cleavage; Types of Blastula; Fate maps (including Techniques); Early development of frog and chick up to gastrulation; Embryonic induction and organizers
Week 13 to week 14 Internal Exam		
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6.

Name of the Teacher: Dr Somnath Mandal
Subject: Zoology

 $\textbf{Paper:}\ ZOOACOR03,\ ZOOACOR04,\ ZOOACOR08,\ ZOOACOR09,\ ZOOACOR10,\ ZOOACOR14,\ ZOOADSE05\ \textbf{(Theory and Practical)}$

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	ZOOACOR03P: Hemichordates- Saccoglossus	ZOOACOR03T, Unit 7: Hemichordata General characteristics of phylum Hemichordata. Phylogenetic relationship with non-chordates and chordates (only recent concept)* ZOOACOR14T, Unit 6: Products of evolution 10 Inter-population variations: clines, races, Species concepts and modes of speciation (just outlines of Allopatric, Sympatric and Parapatric speciation models with examples), Isolating mechanisms Adaptive radiations/macroevolution as exemplified by Galapagos finches Unit 7: Extinctions 2 Major mass extinctions in the history of life and their impacts on biodiversity on earth (brief descriptions) Unit
Week 5 to Week 8	kit.	ZOOACOR04T, Unit 4: Mitochondria and Peroxisomes Mitochondria: Structure, Semi- autonomous nature, Endosymbiotic hypothesis Mitochondrial Respiratory Chain, Chemi- osmotic hypothesis Peroxisomes ZOOADSE05T, Unit 4: Parasitic Arthropoda 3 Mosquitoes and flies as vectors of human pathogen Biology, importance and control of myiasis causing diptera Biology, importance and control of ticks, mites, Pediculus humanus (head and body louse), Xenopsylla cheopis and Cimex lectularius
Week 10	ZOOADSE05P: Study of monogenea from the gills of fresh/marine fish [Gills can be procured from fish market as by product of the industry]	ZOOACOR08T, Unit 3: Digestive System 6 Classes 6 8 Comparative anatomy of stomach; dentition in mammals ZOOACOR09T, Unit 3: Physiology of Circulation 12 Components of Blood and their functions; Structure and functions of haemoglobin; Haemostasis; Blood clotting system, Fibrinolytic system; Haemopoiesis: Basic steps and its regulation; Blood groups; ABO and Rh factor ZOOADSE05T, Unit 6: Parasitic Vertebrates 2 A brief account of parasitic vertebrates; Cookiecutter Shark, Candiru, Hood Mockingbird and Vampire bat
	ZOOADSE05P: Study of nematode/cestode parasites from the intestines of Poultry bird [Intestine can be procured from poultry/market as a by product]	ZOOACOR10T, Unit 3: T Cell development Structure of T cell receptors, Co-stimulatory molecules on T cells Concept of synapse between APC & T cells (between MHC≈TCR & between Co stimulatory molecules) in details. Central differentiation of T cells; T cell selection in thymus Peripheral differentiation of T cells; Th1 & Th2 ZOOACOR14T, 8: Origin and evolution of man 6 Unique hominin characteristics contrasted with primate characteristics (including social and cultural ones), Primate phylogeny: from Dryopithecus leading to Homo sapiens, Molecular evidences of human origin and migrations (brief outline)
Week 13 to week 14 Internal Exam		Internal Exam
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6. Name of the Teacher: Dr Suman Mukherjee Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, ZOOACOR08, ZOOACOR09, ZOOACOR10, ZOOADSE05 (Theory and Practical)

Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Hirudinaria ZOOACOR04P: 5. Cell viability study by Trypan Blue staining ZOOADSE05P: Study of adult and life stages of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spiralis through permanent slides/micro photographs - Study of Pediculus humanus (Head louse and Body louse), Xenopsylla cheopis and Cimex lectularius through permanent slides/ photographs Week 5 to Week 8 Week 5 to Week 5 to Week 12 Week 9 to Week 9 to Week 12 Week 12 Week 13 ZOOACOR03P: 1. Mollucs - Chiton, Dentalium, ZOOACOR03T Unit 5: Mollusca General characteristics and Classification up to classification in Mollusca Torsion and detorsion in Gastropoda Pearl formation in biva Evolutionary significance of trochophore larva ZOOACOR08T, Unit 6: Unit 7: Nervous System Comparative account of branch ammalian uteri Unit 7: Nervous System Comparative account of branch ammalian in the comparative account of branch ammalian in the comparative account of the propagation of haemin and haemocytometer 3. Estimation of various types of hypersensitivities. Unit 9: Immunology of diseases of haemoglobin using Salhi's haemoglobinometer 4. Preparation of haemin and haemochromogen ryphayrays. Socroding of blood pressure using a phygmomanometer/digital meter Week 13 Week 13 ZOOACOR03P: Lottermination of stained blood film ZOOACDR05T, Unit 3: Parasitic Platyhelminthes 15 Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Fascio permanental solum, Lectinocognometer and prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Fascio permanental solum, Lectinocognometer and Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Fascio permanental solum, Lectinocognometer and prophygmomanenter solum and phaemoglosy and darreatment of Fascio permanental solum, Lectinocognometer and prophygmomanenter solum and prophygmomanenter solum and phaemoglosy and darreatme	S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)	
Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Hirudinaria ZOOACOROH; 5. Cell viability study by Trypan Blue staining ZOOADSE05F. Study of adult and life stages of Ascaris lumbricoides, Ancylostoma duodenule, Wuchereria bancroft and Trichinella spiralist through permanent slides/micro photographs. Study of Pediculus humanus (Head louse and Bod) touse), Xenopsylla cheopis and Cimex lectularius through permanent slides/photographs and Cimex lectularius through permanent slides photographs and conduction of a continuous promoters and conduction of a continuous promoters and conduction of a continuous promoters and detorsion in Gastropoda Pearl formation in biva Evolutionary significance of trochophore larva ZOOACOR03F. Unit 6: Unitogenital System Succession of kidney, Evolution of urinoge arthworm and pharyngeal nephridia of earthworm 3.1.7s. through pharynx, gizzard, and typhlosolar intestine of earthworm. Determination of ABO Blood Pood Coodacorous promoters are promoter of the continuous promoters and typhlosolar intestine of earthworm and pharyngeal nemental promoters and typhlosolar intestine of earthworm and types of photographs and the exploration of halania and halania. Visceral Leishmaniasis, Filariasis, Dengue and Tuberculosis and group determination. Week 13 Week 13 Week 13 Revision Revision Revision		be mentioned)		
Week 8 Pila, Doris, Helix, Unio, Ostrea, Pinctada, Sepia, Octopus, Nautilus 2. Digestive system, septal nephridia and pharyngeal nephridia of earthworm 3. T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm Week 9 to Week 12 Week 12 Week 12 Week 13 Pila, Doris, Helix, Unio, Ostrea, Pinctada, Sepia, Octopus, Nautilus 2. Digestive system, septal nephridia and pharyngeal nephridia of earthworm 3. T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm Week 9 to Week 12 Week 12 Week 13 Respiration in Mollusca Torsion and detorsion in Gastropoda Pearl formation in biva Evolutionary significance of trochophore larva ZOOACOROST, Unit 6: Urinogenital System Succession of kidney, Evolution of urinoge functional pharynx, gizzard, and typhlosolar intestine of earthworm ZOOACOROST, Unit 6: Urinogenital System Succession of kidney, Evolution of urinoge functional pharynx, gizzard, and typhlosolar intestine of earthworm ZOOACOROST, Unit 6: Urinogenital System Succession of kidney, Evolution of urinoge functional pharynx, gizzard, and typhlosolar intestine of earthworm ZOOACOROST, Unit 6: Urinogenital System Succession of kidney, Evolution of urinoge functional pharynx, gizzard, and typhlosolar intestine of carthworm ZOOACOROST, Unit 6: Urinogenital System Succession of kidney, Evolution of urinoge functional pharynx, gizzard, and typhlosolar intestine of carthworm ZOOACOROST, Unit 6: Urinogenital System Succession of kidney, Evolution of kidney, Evolution of various system Comparities of various system Comparities account of the pharynx gizzard, and typhlosolar intestine of various system Succession of kidney, Evolution of various system Comparities account of the pharynx gizzard, and treatine of various types of hypersensitivity. Gell and Coombs' classification and prief various system Comparities of various system Succession of kidney, Evolution of various types of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of various types		Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Hirudinaria ZOOACOR04P: 5. Cell viability study by Trypan Blue staining ZOOADSE05P: Study of adult and life stages of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spiralis through permanent slides/micro photographs. • Study of plant parasitic root knot nematode, Meloidogyne from the soil sample • Study of Pediculus humanus (Head louse and Body louse), Xenopsylla cheopis and Cimex lectularius through	ZOOACOR04T, Unit 3: Endomembrane System Structure and Functions: Endoplasmic Reticulum, Golgi Apparatus, Lysosomes ZOOACOR09T, Unit 4: Physiology of Heart 8 Structure of mammalian heart, Coronary Circulation, Structure and working of conducting myocardial fibers, Origin and conduction	
Week 12 Week 12 Week 13 Week 13 Week 13 Week 13 Week 13 Week 14 Week 15 To 17 Revision Week 15 To 17 Revision To Malarra in various types of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of diseases of hypersensitivities. Unit 9: Immunology of hypersensitivites. Unit 9: Immunology of hypersensity, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Tre		Pila, Doris, Helix, Unio, Ostrea, Pinctada, Sepia, Octopus, Nautilus 2. Digestive system, septal nephridia and pharyngeal nephridia of earthworm 3. T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm	Respiration in Mollusca Torsion and detorsion in Gastropoda Pearl formation in bivalves Evolutionary significance of trochophore larva ZOOACOR08T, Unit 6: Urinogenital System Succession of kidney, Evolution of urinogenital ducts, Types of mammalian uteri Unit 7: Nervous System Comparative account of brain, Cranial nerves in mammals	
Week 12	Week 9 to			
to study various types of blood cells. 4. ABO blood group determination. ZOOACOR14P: 2. Study of homology and analogy from suitable specimens (from Photographs/models) From suitable specimens (from Photographs/models) Week 13 to week 14 Revision Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Fascio hepatica, Paragonimus westermani, Schistosoma haematobium, Taenia solium, Echinococ granulosus and Hymenolepis nana Unit 3: Parasitic Nematodes 15 Study of Morphology, I Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spira Study of structure, life cycle and importance of Meloidogyne (root knot nematode), Pratylencus (lesion nematode) Week 13 to week 14 Revision Revision	Week 12	blood cells using haemocytometer 3. Estimation of haemoglobin using Sahli's haemoglobinometer 4. Preparation of haemin and haemochromogen crystals 5. Recording of blood pressure using a sphygmomanometer/digital meter	Malaria, Visceral Leishmaniasis, Filariasis, Dengue and Tuberculosis	
Week 15 to 17 Revision	Week 13	to study various types of blood cells. 4. ABO blood group determination. ZOOACOR14P: 2. Study of homology and analogy from suitable specimens (from Photographs/models)	Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Fasciola hepatica, Paragonimus westermani, Schistosoma haematobium, Taenia solium, Echinococcus granulosus and Hymenolepis nana Unit 3: Parasitic Nematodes 15 Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spiralis. Study of structure, life cycle and importance of Meloidogyne (root knot nematode),	
to 17 Revision	Week 1	Week 13 to week 14 Internal Exam		
Week 18 Field work Report Revision		Revision	Revision	
	Week 18	Field work Report	Revision	

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6.

Name of the Teacher: Mrs Urmi Mitra
Subject: Zoology

 $\textbf{Paper:}\ ZOOACOR03, ZOOACOR04, ZOOACOR08, ZOOACOR09, ZOOACOR10, ZOOADSE05\ (\textbf{Theory and Practical})$

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)	
	be mentioned)		
to week 4	Pentaceros/Asterias, Ophiura, Clypeaster, Echinus, Cucumaria and Antedon 2. Study of disarticulated skeleton of Toad, Pigeon	ZOOACOR03T, Unit 6: Echinodermata General characteristics and Classification up to classes Water-vascular system in Asteroidea Larval forms in Echinodermata Affinities with Chordates ZOOACOR09T, Unit 5: Thermoregulation & Osmoregulation Physiological classification based on thermal biology. Thermal biology of endotherms; Osmoregulation in aquatic vertebrates; Extra-renal osmo-regulatory organs in vertebrates	
Week 5 to Week 8	ZOOACOR03P: To submit a Project Report (mostly literature review) on any related topic to larval forms (crustacean, mollusc and echinoderm)	ZOOACOR04T Unit 6: Nucleus Structure of Nucleus: Nuclear envelope, Nuclear pore complex, Nucleolus Chromatin: Euchromatin and Heterochromatin and packaging (nucleosome) ZOOADSE05T, Unit 1: Introduction to Parasitology 3 Brief introduction of Parasitism and other animal associations, Parasite, Parasitoid and Vectors (mechanical and biological vector) Host parasite relationship and zoonosis	
Week 9 to Week 12	ZOOACOR08P: 4. Identification of mammalian skulls: One herbivorous (Guineapig) and one carnivorous (Dog) animal	ZOOACOR08T, Unit 2: Skeletal System Overview of axial and appendicular skeleton; Jaw suspension; Visceral arches. ZOOACOR10T, Unit 2: Innate and Adaptive Immunity Principle of Innate and Adaptive Immunity. • Components of innate immunity – Epithelial barriers (skin and mucosal membranes [concept]) – Cellular mechanisms (phagocytes, NK cells, mast cells, eosinophils, inflammation [concept]) – Humoral mechanisms (complement, cytokines, chemokines etc. [concept]) • Components of adaptive immunity – Cellular mechanisms (Cell-Mediated Immune System (CMIS) or T Cell Immunity [concept]) – Humoral mechanisms (Formation of Plasma B cells and Memory B cells [concept])	
Week 13	ZOOADSE05P: Study of life stages of Entamoeba histolytica, Giardia intestinalis, Trypanosoma gambiense, Leishmania donovani and Plasmodium vivax through permanent slides/micro photographs • Study of adult and life stages of Fasciola hepatica, Schistosoma haematobium, Taenia solium and Hymenolepis nana through permanent slides/micro photographs	ZOOACOR10T, Unit 10: Vaccines 4 Various types of vaccines. Active & passive immunization (Artificial and natural). ZOOADSE05T, Unit 2: Parasitic Protists 15 15 Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Entamoeba histolytica, Giardia intestinalis, Trypanosoma gambiense, Leishmania donovani, Plasmodium vivax, Plasmodum falciparum and Toxoplasma gondii	
Week 1	Week 13 to week 14 Internal Exam		
Week 15 to 17	Revision	Revision	
Week 18	Field work Report	Revision	

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6. Name of the Teacher: Dr Suman Bej Subject: Zoology

Paper: ZOOACOR04, ZOOACOR08, ZOOACOR09, ZOOACOR10, ZOOACOR13, ZOOADSE04 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to	Theory syllabus to be covered (Paper code to be mentioned)	
	be mentioned)	, ,	
Week 1 to week 4	ZOOACOR04P: 2. Study of various stages of meiosis (in pre-prepared slides and/or in photographs obtained from websites).	ZOOACOR04P Unit 7: Cell Division Mitosis and Meiosis Cell cycle and its regulation Cancer (Concept of oncogenes and tumor suppressor genes) Mechanisms of cell death: brief overview ZOOACOR13T, Unit 3: Late Embryonic Development 8 Fate of Germ Layers; Extraembryonic membranes in birds; Implantation of embryo in humans, Placenta (Structure, types and functions of placenta)	
Week 8	ctenoid scales through permanent slides/photographs ZOOADSE04P: 5. Water quality criteria for Aquaculture: Assessment of pH, conductivity, Total solids, Total dissolved solids 6. Study of air breathing organs in Channa, Heteropneustes, Anabas and Clarias 7. Project Report on a visit to any fish farm/ pisciculture unit/Zebra fish rearing Lab.	ZOOACOR08T, Unit 4: Respiratory System- Respiratory organs in fish, amphibian, birds and mammals ZOOACOR09T, Unit 6: Renal Physiology 8 Structure of Kidney and its functional unit, Mechanism of urine formation, Regulation of acid-base balance ZOOADSE04T, Unit 4: Aquaculture 16 Sustainable Aquaculture; Extensive, semi- intensive and intensive culture of fish; Pen and cage culture; Polyculture; Composite fish culture; Brood stock management; Induced breeding of fish; Management of finfish hatcheries; Preparation and maintenance of fish aquarium; Preparation of compound diets for fish; Role of water quality in aquaculture; Fish diseases: Bacterial, viral and parasitic; Preservation and processing of harvested fish, Fishery by-products	
Week 12	developmental stages of chick through permanent slides: Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages) 2. Study of the developmental stages and life cycle of Drosophila	ZOOACOR08T, Unit 5: Circulatory System General plan of circulation, Comparative account of heart and aortic arches ZOOACOR10T, Unit 6: Cytokines & Chemokines Brief concept on types of Cytokines & Chemokines Cytokines (source & function of IL-1, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12, Interferons, Tumor Necrosis Factors, Tumor Growth Factors, GM-CSF, M-CSF). Chemokines (source & function of CCL2, CCL3, CCL4, CCL5, CxCL8, CxCL10)	
Week 13	ZOOADSE04P: 2. Study of external salient features in Petromyzon, Myxine, Pristis, Chimaera, Exocoetus, Hippocampus, Gambusia, Labeo, Heteropneustes, Anabas (all from photographs) 3. Study of different types of scales (through permanent slides/ photographs).	ZOOACOR13T, Unit 4: Post Embryonic Development Development of brain and Eye in Vertebrate Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each) Unit 5: Implications of Developmental Biology Teratogenesis: Teratogenic agents and their effects on embryonic development; In vitro fertilization, Stem cell (ESC), Amniocentesis ZOOADSE04T, Unit 2: Morphology and Physiology 4 14 Types of fins and their modifications; Locomotion in fish; Hydrodynamics; Types of Scales, Use of scales in Classification and determination of age of fish; Gills and gas exchange; Swim Bladder: Types and role in Respiration, buoyancy; Osmoregulation in Elasmobranchs; Reproductive strategies (special reference to Indian fish); Electric organ, Bioluminescence	
Week 1	Week 13 to week 14 Internal Exam		
Week 15 to 17	Laboratory Note Book	Revision	
Week 18	Field work Report	Revision	

Teaching Plan for Even Semester, UG course Department of Zoology

Session (2022-2023)

Class: B.Sc.

Semester: 2, 4 and 6.

Name of the Teacher: Dr Biswatosh Ghosh
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, ZOOACOR08, ZOOACOR10, ZOOACOR13, ZOOACOR14, ZOOADSE04 (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	ZOOACOR03P: Arthropods - Limulus, Palamnaeus, Palaemon, Daphnia, Balanus, Sacculina, Cancer, Eupagurus, Scolopendra, Julus, Bombyx, Periplaneta, termites and honey bees Onychophora – Peripatus	ZOOACOR03T, Unit 3: Arthropoda General characteristics and Classification up to classes Vision and Respiration in Arthropoda Metamorphosis in Insects Social life in bees and termites ZOOACOR08T, Unit 8: Sense Organs Classification of receptors, Brief account of auditory receptors in vertebrate ZOOACOR14T, Unit 3: Evidences in favour of Evolution 5 7 4 Fossil records: types of fossils, geological time scale, transitional forms: examples of fossils depicting the evolutionary stages of the modern horses Molecular (universality of genetic code and protein synthesis machinery) evidences Unit 4: Sources of variations 3 Heritable variations present in natural populations (classical study of Lewontin and Hubby, 1966 in Drosphila, as example)
Week 5 to Week 8	dissection of digestive system and nervous system of Periplaneta ZOOACOR04P: 3. Preparation of permanent slide to show the presence of Barr body in human female blood cells/cheek cells.	
Week 9 to Week 12	ZOOACOR08P: 5. Dissection of Tilapia: Circulatory system, Brain, pituitary, urinogenital system ZOOADSE04P: 4. Study of crafts and gears used in Fisheries	ZOOACOR10T, Unit 4: Immunoglobulins Structure and functions of different classes of immunoglobulins, Antigen- antibody interactions, Immunoassays (ELISA and RIA), Hybridoma technology, Monoclonal antibody production ZOOADSE04T, Unit 5: Fish in research 6 Transgenic fish, Zebra fish as a model organism in research
Week 13	ZOOACOR14P: 1. Study of fossils from models/ photographs- Direct ancestors of horses, Archaeopteryx	ZOOACOR14T, Unit 8: Molecular Phylogeny 7 The basic concept of molecular phylogeny, Neutral theory of molecular evolution, molecular clock (brief introductions) Example of evolution in vertebrate globin genes ZOOADSE04T, Unit 3: Fisheries Inland Fisheries; Marine Fisheries; Environmental factors influencing the seasonal variations in fish catches in the Arabian Sea and the Bay of Bengal; Fishing crafts and Gears; Depletion of fishery resources; Application of remote sensing and GIS in fisheries; Fisheries law and regulations
Week 13 to week 14		Internal Exam
Week 15 to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

Teaching Plan for ODD Semester, UG course

Department ofENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester I, III, V Name of the Teacher: TAPOMOY DAS/DIPANKAR SEN

Subject: ENGLISH

Paper: CC1,CC2,CC5,CC6,CC7,CC11,CC12,DSE (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC1: Vyasa, "The Book of the Assembly Hall' in The Mahabharata CC5: Anne Bradstreet-'The Prologue, Background – Romanticism and Modern, Keats ('When I have fears', 'Ode on a Grecian Urn'), Yeats ('The Second Coming'), Eliot ('The Love Song of J. Alfred Prufrock'), Ted Hughes ('The Thought Fox') & Sh. Story - Kew Gardens CC11: Emily Dickinson- 'I cannot live with you' CC12: Rupert Brooke- Peace DSE: Tragedy
Week 5 to week 8	NA	CC2: Sophocles, 'Oedipus the King' CC5: Toni Morrison—Beloved CC11: Charlotte Perkins Gilman- 'The Yellow Wallpaper' CC12: Virginia Woolf- To the Lighthouse DSE: Indo-European family of Languages, Grimm's Law, Latin, Greek, Scandinavian, French influences, Native Resources, Impact of the Bible, Influence of Shakespeare, American Influence, Philological notes.
Week 9 to Week 12	NA	CC2: Sophocles, 'Oedipus the King' CC6: Shyam Selvadurai—Funny Boy CC7: Aphra Behn -The Rover CC11: Rassundari Debi, excerpts from Amar Jiban DSE: Old English Poetry- Background of the age, culture, structure of the epic, style, theme. A passage from Beowulf.
Week 13	NA	Revision and Tutorial
Week13	3 to week 14	Internal Exam
Week 15 to 17	NA	Revision
Week 18	NA	Revision

Teaching Plan for ODD Semester, UG course

Department of ...ENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester I, III, V Name of the Teacher: SIDHARTHA DEY/SWATY MITRA

Subject: ENGLISH

Paper: CC1,CC2, CC5,CC6, CC7,CC11,CC12,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC1: Sudraka, Mrcchakatika trans M.M. Ramachandra Kale. CC5: Walt Whitman -'Passage to India' (lines 1–68) CC11: Sylvia Plath -'Daddy', 'Lady Lazarus' CC12: W.H.Auden- Musée des Beaux Arts DSE: COMEDY
Week 5 to week 8	NA	CC1: Sudraka, Mrcchakatika trans M.M. Ramachandra Kale. CC5: Edgar Allan Poe -'The Purloined Letter' CC7: John Milton - Paradise Lost Book I CC11: Katherine Mansfield -'Bliss'
Week 9 to Week 12	NA	CC2: Homer, The Illiad, Bk I & II, trans. E.V. Rieu. CC5: Tenesse Williams- A Street Car Named Desire CC12: W.B. Yeats 'Lake Isle of Innisfree, 'Sailing to Byzantium' DSE: Pre-Christian Latin loans; Scandinavian war & law terms; hybridism; Johnsonese; monosyllabism; back-formation; free and fixed compounds; French law terms; assimilation; ing-endging; s- ending.
Week 13	NA	CC2: Homer, The Illiad, Bk I & II, trans. E.V. Rieu. CC6: Herge-Tintin in Tibet DSE: Non-epic, secular, elegiac poetry, theme, style, social picture, language, style: Deor's Lament
Week1	3 to week 14	Internal Exam
Week 15 to 17	NA	Revision
Week 18	NA	Revision

Teaching Plan for ODD Semester, UG course

Department of ...ENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester I, III, V Name of the Teacher: ANIRUDDHA PAL/HAFIZUR RAHAMAN

Subject: ENGLISH

Paper: CC1,CC5,CC11,CC12,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC1: Banabhatta, Kadambari (Chp I & II) CC5: Langston Hughes- 'The Negro Speaks of Rivers' CC11: Eunice De Souza 'Advice to Women', 'Bequest' CC12: Joseph Conrad- Heart of Darkness. DSE: NOVEL
Week 5 to week 8	NA	CC1: Banabhatta, Kadambari (Chp I & II) CC5: F. Scott Fitzgerald- 'The Crack-up' DSE: Philological Word Notes CC11: Mary Wollstonecraft A Vindication of the Rights of Woman (New York: Norton, 1988) chap. 1, pp. 11–19; chap. 2, pp. 19–38.
Week 9 to Week 12	NA	CC2: Ovid, Selections from Metamorphoses, 'Bacchus' (BK III) CC6: Lewis Carroll—Through the Looking Glass CC7: Alexander Pope -The Rape of the Lock (Cantos I & III) CC12: T.S. Eliot 'The Love Song of J. Alfred Prufrock', Preludes
Week 13	NA	CC2: Ovid, Selections from Metamorphoses, 'Bacchus' (BK III) CC6: Lewis Carroll—Through the Looking Glass DSE: Christian poetry- Caedmon's hymn; Cynewulf, Dream of the Rood
Week 1	3 to week 14	Internal Exam
Week 15 to 17	NA	Revision
Week 18	NA	Revision

Teaching Plan for ODD Semester, UG course

Department ofENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester I, III, V Name of the Teacher: KETAKI DUTTA/SRIMANTA DAS

Subject: ENGLISH

Paper: CC1,CC2,CC5,CC6, CC7,CC11,CC12,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC1: Kalidasa, 'Abhijnana Shakuntalam' in The Loom of Time, trans. Chandra Rajan. CC5: Alexie Sherman Alexie-'Crow Testament'; 'Evolution' CC11: Jean Rhys—The Wide Sargasso Sea CC12: D.H. Lawrence- Sons and Lovers DSE: Loan words • Loan translations • Hybrids • Adaptations • Diffusions
Week 5 to week 8	NA	CC1: Kalidasa, 'Abhijnana Shakuntalam' in The Loom of Time, trans. Chandra Rajan. (CONTD) CC5: William Faulkner 'Dry September' CC11: Ramabai Ranade 'A Testimony of our Inexhaustible Treasures', tr. Meera Kosambi
Week 9 to Week 12	NA	CC2: Plautus, Pot of Gold, trans. E.F.Watling. CC6: Agatha Christie—The Murder of Roger Ackroyd CC7: John Webster -The White Devil CC12: Owen- Spring Offensive
Week 13	NA	CC2: Plautus, Pot of Gold, trans. E.F.Watling. (CONTD.) CC6: J.K. RowlingThe Philosopher's Stone DSE: Old English Prose - An overview
Week 1	3 to week 14	Internal Exam
Week 15 to 17	NA	Revision
Week 18	NA	Revision

Teaching Plan for EVEN Semester, UG course

Department ofENGLISH.....

Session (2022-2023)

Class. B.A. Hons

Semester II, IV, VI Name of the Teacher: TAPOMOY DAS/DIPANKAR SEN

Subject: ENGLISH

Paper: CC3,CC4,CC8,CC9,CC10,CC13, CC14,DSE (Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC3: H.V. Derozio—'Freedom to the Slave' CC4: Spenser – 'One day I wrote her name' CC9: S.T. Coleridge- 'Kubla Khan,' Christabel I CC10: Christina Rossetti'The Goblin Market' CC14: Pablo Neruda 'Tonight I can Write';'The Way Spain Was'
Week 5 to week 8	NA	CC3: Nissim Ezekiel—'The Night of the Scorpion' CC4: Herbert, 'Pulley' CC9: William Hazlitt- 'On the Love of the Country' CC10: Arnold –'Modern Elements in Literature' CC14: Chinua Achebe—Things Fall Apart
Week 9 to Week 12	NA	CC3: Ruskin Bond- 'Tiger, Tiger, Burning Bright' CC8: William Congreve, The Way of the World CC14: Grace Ogot 'The Green Leaves'
Week 13	NA	DSE: Maggie Humm: Practising Feminist Criticism: An Introduction. London 1995. DSE: Faiz Ahmad Faiz, 'For Your Lanes, My Country', tr. and ed. Riz Rahim DSE: Intizar HusainBasti, tr. Frances W. Pritchett
Week1	3 to week 14	Internal Exam
Week 15 to 17	NA	DSE: Lalithambika Antharajanam, 'A Leaf in the Storm '
Week 18	NA	Revision

Teaching Plan for EVEN Semester, UG course

Department of ...ENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester II, IV, VI Name of the Teacher: SIDHARTHA DEY/SWATY MITRA

Subject: ENGLISH

Paper: CC3,CC4,CC8,CC9,CC10,CC13, CC14,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC3: Michael Madhusudan—'I Stood in Solitude, and as I looked' CC4: Shakespeare, Sonnets: 30, 129 CC8: Jonathan Swift, Gulliver's Travels BK.3 & 4 CC10: Matthew Arnold- Dover Beach CC14: Derek Walcott'A Far Cry from Africa';'Names'
Week 5 to week 8	NA	CC3: Jayanta Mahapatra-Hunger CC4: William Shakespeare-Macbeth CC9: P.B. Shelley- 'Ode to the West Wind', Ozymandias CC10: Darwin- 'Introduction'. Origin of Species CC14: Gabriel Garcia Marquez Chronicle of a Death Foretold
Week 9 to Week 12	NA	CC3: Salman Rushdie- 'The Free Radio' CC9: Horace Walpole-The Castle of Otranto DSE: William Wordsworth: Preface to the Lyrical Ballads (1802)
Week 13	NA	DSE: T.S. Eliot: "Tradition and the Individual Talent" 1919; "The Function of Criticism" 1920 DSE: Jibananda Das, 'I Shall Return to This Bengal', tr. Sukanta Chaudhuri
Week13	3 to week 14	Internal Exam
Week 15 to 17	NA	DSE: Dibyendu Palit, 'Alam's Own House'
Week 18	NA	Revision

Teaching Plan for EVEN Semester, UG course

Department of ...ENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester II,IV,VI Name of the Teacher: ANIRUDDHA PAL/HAFIZUR RAHAMAN

Subject: ENGLISH

Paper: CC3,CC4,CC8,CC9,CC10,CC14,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC3: Kamala Das- Introduction CC4: Donne, 'Cannonization' CC8: Non-fictional Prose: Joseph Addison, 'The Scope of Satire'; Daniel Defoe, 'The Complete English Gentleman' in Literature and Social Order in Eighteenth-Century England, Samuel Johnson, Essay 156 in The Rambler from Selected Writings: Samuel Johnson CC10: Jane Austen - Pride and Prejudice CC14: David Malouf 'Revolving Days'; 'Wild Lemons'
Week 5 to week 8	NA	CC3: R.K.Narayan—The Guide CC4: William Shakespeare- Twelfth Night CC9: John Keats— 'Ode on a Grecian Urn', Ode to Autumn CC10: Carlyle- Heroes and Hero Worship, Lecture III, 'The Hero as Poet' (only the portion on Shakespeare) CC14: Bessie Head 'The Collector of Treasures'
Week 9 to Week 12	NA	CC3: Girish Karnad- Tughlaq CC10: Tennyson-'Ulysses'; 'The Lady of Shallot' DSE: Gulzar, 'Toba Tek Singh', tr. Anisur Rahman, in Translating Partition
Week 13	NA	DSE: S.T. Coleridge: Biographia Literaria. Chapters IV, XIII and XIV DSE: I.A. Richards: Principles of Literary Criticism, Chapters 1,2 and 34 (London 1924) and Practical Criticism (London, 1929) DSE: Manik Bandhopadhya, 'The Final Solution'
Week 1	3 to week 14	Internal Exam
Week 15 to 17	NA	Revision
Week 18	NA	Revision

Teaching Plan for EVEN Semester, UG course

Department ofENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester II, IV, VI Name of the Teacher: KETAKI DUTTA/SRIMANTA DAS

Subject: ENGLISH

Paper: CC3,CC4,CC9,CC10,CC13,CC14,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC3: Ramanujan—'Another View of Grace' CC9: William Wordsworth- 'Tintern Abbey'; Ode on Intimations of Immortality CC10: Charles Dickens—David Copperfield
Week 5 to week 8	NA	CC3: Sashi Despande—'The Intrusion' CC14: Ama Ata Aidoo 'The Girl who can'
Week 9 to Week 12	NA	CC4: Geoffrey Chaucer—'Prologue (lines 1-42) CC9: Charles Lamb- Dream Children, The Superannuated Man
Week 13	NA	DSE: Cleanth Brooks: "The Heresy of Paraphrase", and "The Language of Paradox" in The Well-Wrought Urn: Studies in the Structure of Poetry (1947)
Week 1	3 to week 14	Internal Exam
Week 15 to 17	NA	DSE: Khuswant Singh—Train to Pakistan DSE: Sa'adat Hasan Manto, 'Toba Tek Singh'
Week 18	NA	Revision

Teaching Plan for EVEN Semester, UG course

Department ofENGLISH.....

Session (2022-2023)

Class:B.A. Hons

Semester II, IV, VI Name of the Teacher: AYANTI MONDAL

Subject: ENGLISH

Paper: CC4,CC8,CC10,CC14,DSE (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	NA	CC4: Marvell, 'To His Coy Mistress' CC14: Mamang Dai 'Small Towns and the River'; 'The Voice of the Mountain'
Week 5 to week 8	NA	CC8: Samuel Johnson, 'London'; Gray, 'Elegy Written in a Country Churchyard'; Blake, Introduction to Songs of Innocence, 'The Lamb', 'The Tyger' from Songs of Experience
Week 9 to Week 12	NA	CC10: Robert Browning - 'My Last Duchess'; 'The Last Ride Together'
Week 13	NA	DSE: Virginia Woolf: Modern Fiction
Week 1	3 to week 14	Internal Exam
Week 15 to 17	NA	Revision
Week 18	NA	Revision

Teaching Planfor OddSemester, UGcourse

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 1,3,5Name of the Teacher: Amit Kumar RoyChoudhury

Subject:Economics

Paper :CC1, CC5, CC11, DSE1 (Theory)

Paper :CC1, CC5, CC11, DSE1 (Theory)		
S. No	Theory syllabus to be covered (Paper code to be mentioned)	
Week 1		
to week 4	Core Course 1 : ECOACOR01T Introductory Microeconomics	
	Exploring the subject matter of Economics	
	Core Course 5 : ECOACOR05T Intermediate Microeconomics 1	
	Consumer Theory Revisited	
	Core Course 11 : ECOACOR011T Introductory Econometrics	
	Classical Statistical Inference :Basic Concepts of Estimation	
Week 5 to	Core Course 1 : ECOACOR01T Introductory Microeconomics	
week 8	Supply and Demand: How Markets work, Markets and Welfare	
	Core Course 5 : ECOACOR05T Intermediate Microeconomics 1	
	Market Structure: Perfect Competition	
	Core Course 11 : ECOACOR011T Introductory Econometrics	
	2. Linear Regression: Specifications of the model	
Week 9 to	Core Course 1 : ECOACOR01T Introductory Microeconomics	
Week 12	3. Supply and Demand: How Markets work, Markets and Welfare	
	Core Course 5 : ECOACOR05T Intermediate Microeconomics 1	
	Imperfect Market Structure : Monopoly i) Monopoly and Anti-trust policy ii) Equilibrium with single plant	
	Core Course 11 : ECOACOR011T Introductory Econometrics	
	Linear Regression: Prediction with the Simple Regression model	
Week 13	Core Course 1 : ECOACOR01T Introductory Microeconomics 3. The Households	
	Core Course 5 : ECOACOR05T Intermediate Microeconomics 1 4. Imperfect Market Structure : Monopoly iii) Price Discxrimination iv) Monopsony	
	Core Course 11 : ECOACOR011T Introductory Econometrics	
	Linear Regression:prediction with the Simple Regression model continued	

Week 15 to 17	Core Course 1 : ECOACOR01T Introductory Microeconomics 4. Production and Cost 5. Market Structure
	Core Course 5 : ECOACOR05T Intermediate Microeconomics 1 3. Imperfect Market Structure :Monopolistic Competition
	Core Course 11 : ECOACOR011T Introductory Econometrics 5. Specification Analysis
Week 18	Revision

Teaching Planfor even Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 2,4,6 Name of the Teacher: Amit Kumar RoyChoudhury

Subject: Economics

Paper: CC4, CC10, GE4, DSE3 (Theory)

S. No	Theory topics to be covered (Paper code to be mentioned)	
Week 1 to week 4	Core Course 10: ECOACOR010T Statistical Methods for Economics 11 1. Introduction and Overview DSE 4(Group B(a): ECOADSE04T Contemporary Development Economics 6 i). Globalisation: Development as Historical Processes GE Course-4: ECOHGEC04T Indian Economy	
	Structure of Indian Economy Human resources and economy development	
Week 5 to week 8	Core Course 4 : ECOACOR04T Statistical Methods for Economics-1 3. Measures of Dispersion Core Course 10 : ECOACOR010T Statistical Methods for Economics 11 3. Random Variables and Probability distribution: Concepts of some special distributions, Transformations and Expectations of variables	
	DSE 4(Group B(a) : ECOADSE04T Contemporary Development Economics 6 ii). Globalisation: Evolution of new International economic order	

Week 9 to	Core Course 4 : ECOACOR04T Statistical Methods for Economics-1
Week 12	5. Bivariate Frequency Distribution: Regression Analysis
	Core Course 10 : ECOACOR010T Statistical Methods for Economics 11
	4. Random Sampling and Jointly distributed Random Variables
	DSE 4(Group B(a): ECOADSE04T Contemporary Development Economics
	6 ii). Globalisation: Evolution of new International economic order
Week 13	Core Course 4: ECOACOR04T Statistical Methods for Economics-1
	6. ANOVA tables
	Core Course 10 : ECOACOR010T Statistical Methods for Economics 11
	4. Random Sampling and Jointly distributed Random Variables: Computation
	of Expected values; covariance and correlation coefficients
	DSE 4(Group B(a): ECOADSE04T Contemporary Development Economics
	6 ii). Globalisation: GATT and Dunkel Draft, WTO
Week 15	Core Course 4: ECOACOR04T Statistical Methods for Economics-1
to 17	8. Index Numbers
	Core Course 10 : ECOACOR010T Statistical Methods for Economics 11
	6. Introduction to Statistical Inference
	DSE 4(Group B(a): ECOADSE04T Contemporary Development Economics
	6 iii). Globalisation: Foreign Finance , Investment and Development
Week 18	Revision

Teaching Planfor Odd Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 1,3,5 Name of the Teacher: Tapas Kumar Pal

Subject:Economics

Paper: CC6, CC11, DSE1 (Theory)

S. No	Theory syllabus to be covered (Paper code to be mentioned)	
Week 1 to week 4	Core Course 6 : ECOACOR06T Intermediate Macroeconomics-1 1. The Classical System	
	Core Course 11: ECOACOR011T Introductory Econometrics 2. Classical Statistical Inference: Basic Concepts of Estimation DSE1 Group A(a): ECOADSE01T Applied Econometrics 1. Stages in Empirical Econometric Research	
Week 5 to week 8	Core Course 6 : ECOACOR06T Intermediate Macroeconomics-1 2. The Complete Keynesian model	
	Core Course 11 : ECOACOR011T Introductory Econometrics	

	2 Programme Browning Browning Market	
	2. Linear Regression: Regression Model3. Problems in OLS method: Violation and Assumptions, Analysis of Residuals	
	DSE1 Group A(a): ECOADSE01T Applied Econometrics 2. Essential steps in primary data collection	
	2. Essential steps in primary data collection	
Week 9 to Week 12	Core Course 6 : ECOACOR06T Intermediate Macroeconomics-1 3. Inflation, Unemployment and Expectations i) Phillip's Curve	
	Core Course 11 : ECOACOR011T Introductory Econometrics 3. Problems in OLS method: Heteroskedasticity, Autocorrelation, Multicollinearity	
	DSE1 Group A(a): ECOADSE01T Applied Econometrics 3. Application of Statistics	
Week 13	Core Course 6 : ECOACOR06T Intermediate Macroeconomics-1 3. Inflation, Unemployment and Expectations ii) Aggregate supply and Phillip's curve Core Course 11 : ECOACOR011T Introductory Econometrics 4. Multiple Regression with qualitative information: Describing qualitative information	
	DSE1 Group A(a): ECOADSE01T Applied Econometrics 3. Application of Statistics: Introduction to probability theory	
Week 15 to 17	Core Course 6: ECOACOR06T Intermediate Macroeconomics-1 4. Open economy Models	
	Core Course 11 : ECOACOR011T Introductory Econometrics 4. Multiple Regression with qualitative information: Dummy Variables, Interaction, the linear probability model	
	DSE1 Group A(a): ECOADSE01T Applied Econometrics 4. Application of Econometrics, Dummy variables	
Week 18	Revision	

Teaching Planfor Even Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 2,4,6Name of the Teacher: Tapas Kumar Pal

Subject: Economics

Paper :CC3, CC9, SEC2, CC14, DSE3, DSE2P (Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 1. Introduction to Macroeconomics and National Income Accounting: Methods of calculating GDP, NI NI Core Course 9: ECOACOR09T Intermediate Macroeconomics - II 1. Economic Growth Core Course 14: ECOACOR14T International Economics 1. International trade: a)Meaning and scope, Arbitrage, Difference between inter and intranational trade SEC Course 2: ECOSSEC02M Indian Official Statistics
Week 5 to week 8	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	1. Introduction Core Course 3: ECOACOR03T Introductory Macroeconomics 1. Introduction to Macroeconomics and National Income Accounting :Measurement of Cost of Living, Measuring Joblessness, Okun's Law Core Course 9: ECOACOR09T Intermediate Macroeconomics — II 2. Microeconomic Foundations a) Consumption Core Course 14: ECOACOR14T International Economics 1. International trade: b) Concept od Absolute and Comparative advantage c) International equilibrium SEC Course 2: ECOSSEC02M Indian Official Statistics 2. Economic Census Paper C etc:
Week 9 to Week 12	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 1. Introduction to Macroeconomics and National Income Accounting: National Income accounting for an open economy, Balance of payments: Current and Capital accounts Core Course 9: ECOACOR09T Intermediate Macroeconomics – II

		2. Microeconomic Foundations b) Investment
		Core Course 14: ECOACOR14T International Economics 1. International trade: c) International equilibrium d) Gains from trade
		SEC Course 2: ECOSSEC02M Indian Official Statistics 3. Sources of Demographic data
Week 13	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 1. Introduction to Macroeconomics and National Income Accounting: National Income accounting for an open economy: NI as a measure of economic welfare
		Core Course 9: ECOACOR09T Intermediate Macroeconomics
		3. Microeconomic Foundations c) Demand for money
		Core Course 14: ECOACOR14T International Economics 2. Theories of International Trade a) technology and trade
		SEC Course 2: ECOSSEC02M Indian Official Statistics
		3. Sources of Demographic data continued
Week1.	3 to week 14	Internal Exam
Week 15 to 17	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 4.The Closed Economy in the short run Core Course 9: ECOACOR09T Intermediate Macroeconomics – II
		4. Schools of macroeconomic Thoughts
		Core Course 14: ECOACOR14T International Economics 2. Theories of International Trade b) Factor endowment and trade c) New trade theories
		SEC Course 2: ECOSSEC02M Indian Official Statistics 4. International Statistical System
		4. International Statistical System

Teaching Planfor odd Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 1,3,5Name of the Teacher: Sudip Kumar Ghosh

Subject: Economics

Paper :GE3, SEC1, CC7, CC12(Theory)

Theory topics to be covered (Paper code to be mentioned)		
GE-3 Development Economics ECOHGEC03T		
1. Basic Concepts of Development:		
SEC Course-1: ECOSSEC001 Survey methodology		
1. Introduction, Inference and Error in Surveys		
Core Course-12: ECOACOR12T Development Economics		
Basic concepts of development		
GE-3 Development Economics ECOHGEC03T		
2. Development Planning & its necessity		
SEC Course-1: ECOSSEC001 Survey methodology		
3. Sampling in Survey Research		
Core Course-12: (ECOACOR12T) Development Economics 2. Persistence of Underdevelopment and Strategies of Development: Characteristics, obstacles to development -Trap models, Big Push and Hirschmanmodel		
GE-3 Development Economics ECOHGEC03T		
4. Concept and Role of Domestic Capital Formation in an Underdeveloped		
Country		
5. Foreign Investment		
SEC Course-1: ECOSSEC001 Survey methodology		
3. Mode of Data Collection		
Core Course-12: (ECOACOR12T) Development Economics		
2. Persistence of Underdevelopment and Strategies of Development: Choice of		
technique, Labour surplus and Lewis model, Harris-Todaro model		
GE-3 Development Economics ECOHGEC03T		

	5. Role of International Institutions	
	SEC Course-1: ECOSSEC001 Survey methodology 4. Nonresponse	
	Core Course-12: ECOACOR12T Development Economics 3. Poverty and Inequality	
Week 15	, , ,	
to 17	Core Course-7 (ECOACOR07T): MATHEMATICAL METHODS FOR ECONOMICS-II 5.Dynamical Methods: algebraic and geometric exposition and application	
	GE-3 Development Economics ECOHGEC03T 6. Gender Related Issues	
	SEC Course-1: ECOSSEC001 Survey methodology	
	5. Post-Survey Processing; Estimation (Lepkowski)	
	Core Course-12: (ECOACOR12T) Development Economics 4. Globalization	
Week 18	Revision	

Teaching Planfor Even Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 2,4,6 Name of the Teacher: Sudip Kumar Ghosh

Subject: Economics

Paper: CC4, CC10, GE4,CC13,DSE4, DSE2P(Theory and Practical)

S. No	Practical works to be covered (Paper code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1	DSE Course Group B(c):	Core Course-4 (ECOACOR04T) STATISTICAL METHODS FOR
to week 4	ECOADSE02P	ECONOMICS-I
	Project/ Dissertation	1. Basic Concepts
		Core Course-10 (ECOACOR10T) STATISTICAL METHODS FOR
		ECONOMICS-II
		2. Elementary Probability Theory
		Core Course-13(ECOACOR13T) INDIAN ECONOMY
		1. Economic Development since Independence: Major
		features of the economy at independence;

		Structural constraints; Economic planningEvolution of Indian Planning and its development goals and strategies: Debates between Growth and distribution DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 1. Meaning of Economic Development
Week 5 to week 8	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course-4 (ECOACOR04T) STATISTICAL METHODS FOR ECONOMICS-I 3. Measures of Skewnessand Kurtosis Core Course-10 (ECOACOR10T) STATISTICAL METHODS FOR ECONOMICS-II 4. Random Variables and Probability Distributions Defining
		random variables; probability distributions; properties of discrete and continuous distributions, expected values of random variables Core Course-13(ECOACOR13T) INDIAN ECONOMY 1. Economic Development since Independence: Public sector vs. Private sector, Consumer goods vs. Capital goods, Import substitution vs. Export promotion; growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of performance—sustainability and regional contrasts; structural change, savings and investment. DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 2. Poverty and Inequality
Week 9 to Week 12	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course-4 (ECOACOR04T) STATISTICAL METHODS FOR ECONOMICS-I 5. Bivariate frequency distribution: Simple Correlation: scatter diagram, sample correlation coefficient - Karl Pearson"s correlation coefficient and itsproperties, probable error of correlation coefficient, Spearman's rank correlation coefficient, partial and multiple correlation Core Course-10:(ECOACOR10T) STATISTICAL METHODS FOR ECONOMICS-II 6. Sampling (a) Principal steps in a sample survey; methods of sampling; the role of sampling theory; Core Course-13(ECOACOR13T) INDIAN ECONOMY 2. Population and Human Development DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 2. Poverty and Inequality GE Course-4: ECOHGECO4T Indian Economy 3. Agriculture 4. Industry 5. Banking

Week 13	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course-4 (ECOACOR04T) STATISTICAL METHODS FOR ECONOMICS-I 6. Time series Core Course-10 (ECOACOR10T) STATISTICAL METHODS FOR ECONOMICS-II 5. Sampling (a) Principal steps in a sample survey; methods of sampling; the role of sampling theory (continued) Core Course-13(ECOACOR13T) INDIAN ECONOMY 3. Growth and Distribution DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 2. Poverty and Inequality
Week1	3 to week 14	Internal Exam
Week 15 to 17	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course-4 (ECOACOR04T) STATISTICAL METHODS FOR ECONOMICS-I 9. Vital Statistics Core Course-10 (ECOACOR10T) STATISTICAL METHODS FOR ECONOMICS-II 7. Sampling (b) Distributions of sample mean and sample variance, properties of random samples. Core Course-13(ECOACOR13T) INDIAN ECONOMY 4. Macroeconomic Policies and Their Impact DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 3. Political Institutions and the State
Week 18	Revision, Practise	Revision

Teaching Planfor Odd Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 1,3,5Name of the Teacher: Tina Barma

Subject: Economics

Paper: CC2, CC 7, DSE2 (Theory)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course-2 ECOACOR02TMathematical Methods for Economics-I 1. Concept,Set Theory, Functions and Relations 2. Brief Review of Differential and Integral Calculus
	Core Course- 7 ECOACOR07TMathematical Methods for Economics-II

	,
	1. Multi-variable function: Convex and quasi-convex functions and their properties, Homogenous and Homothetic functions, Envelope theory, Shadow prices
	DSE2 -Course-Group A(b): ECOADSE02TPublic Economics 1. Nature and Scope of Public Economics:
Week 5 to	Core Course-2 ECOACOR02TMathematical Methods for Economics-I
week 8	Brief Review of Differential and Integral Calculus and their application
	Core Course- 7 ECOACOR07T Mathematical Methods for Economics-II 2. Classical Optimization: Kuhn Tucker and lagrangean methods and conditions 3. Linear Programming and Duality
	DSE2 -Course-Group A(b): ECOADSE02TPublic Economics 2. Theory of Public Good
Week 9 to	Core Course-2 ECOACOR02TMathematical Methods for Economics-I
Week 12	5. Single variable optimisation
	Core Course- 7 ECOACOR07TMathematical Methods for Economics-II 3. Linear Programming and Duality
	DSE2 -Course-Group A(b) ECOADSE02T Public Economics 3. Taxation: Classification of Taxes; Canons of Taxation; Benefit Principle; Equal Sacrifice Principle; Ability to Pay Principle; Incidence and Burden of Taxes; Effects of taxation on income distribution, work efforts, and on savings; dead weight loss and distortion, efficiency and equity considerations
Week 13	Core Course-2 ECOACOR02T
W CCR 13	Mathematical Methods for Economics-I
	4. Other topics: Series, Trigonometric functions and associated curves
	Core Course- 7 ECOACOR07T Mathematical Methods for Economics-II 4. Simultaneous Equation Systems
	DSE2 -Course-Group A(b) ECOADSE02T Public Economics 3. Taxation (continued): tax incidence, optimal taxation; the Laffer curve.
Week 15	Core Course-2 ECOACOR02T
to 17	Mathematical Methods for Economics-I
1011	6. Multi-variable optimization and its application
	Core Course- 7 ECOACOR07T Mathematical Methods for Economics-II 4. Simultaneous Equation Systems (continued) 6.Game Theory and its Applications
	DSE2 -Course-Group A(b) ECOADSE02T Public Economics 4. Public Expenditure and Public Debt
	DSE Course-Group A(a:) (ECOADSE01T) APPLIED ECONOMETRICS 6.Introduction to Econometric Software Package(STATA)

Week 18	Revision

Teaching Planfor Even Semester, UG course

Department of Economics

Session (2022-23)

Class:B.A/ B.Sc

Semester 2,4,6 Name of the Teacher: Tina Barma

Subject: Economics

Paper: CC3, CC8, GE4 CC14, DSE4, DSE2P (Theory and Practical)

S. No	Practical works to be covered	Theory topics to be covered (Paper code to be
	(Paper code to be mentioned)	mentioned)
Week 1 to week 4	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 3. Money: Functions of money; quantity theory of money Core Course 8: ECOACOR08T Intermediate Microeconomics - II 1. Market Structure: Oligopoly and Strategic Behaviour of Firms Core Course 14: ECOACOR14T International Economics 3. Trade Policy: Effect of Instruments of Trade Policy: Effect of imposition of Tariff in partial equilibrium framework for small and large country, Quota, Quota- Tariff equivalence & non-equivalence, effects of tariff, quota, subsidy and voluntary export restraint; Effect of Export Subsidy in partial
		equilibrium framework for small country, DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 4. Individuals, Communities and Collective Outcomes: Individual behavior in social environments, multiple social equilibria
Week 5 to week 8	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 2. Money: determination of money supply and demand; credit creation Core Course 8: ECOACOR08T Intermediate Microeconomics - II 2. Market Failure Core Course 14: ECOACOR14T International Economics 3. Trade Policy:General Equilibrium Analysis distinction

	T	-
		between large and small economy, welfare effects of a tariff on small country and large country, Offer curve and ToT, Tariff ridden offer curve, Tariff war, Optimum tariff for large economy, Metzler's Paradox.
		DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 4. Individuals, Communities and Collective Outcomes: Governance in organizations and in communities; individual responses to organizational inefficiency
Week 9 to Week 12	DSE Course Group B(c):	Core Course 3: ECOACOR03T Introductory Macroeconomics 3. Inflation and its social cost
	ECOADSE02P Project/ Dissertation	Core Course 8: ECOACOR08T Intermediate Microeconomics – II
		3.Input Markets: Derived demand for a single input & multiple input in competitive & imperfectly competitive markets, Firm demand & industry demand, Adding up problem, Collective bargaining & exploitation
		Core Course 14: ECOACOR14T International Economics 4. Balance of Payment: a). Balance of Payment accounts in an open economy; Determination of National Income, Transfer problem, Introduction of foreign Country & repercussion effect - open economy multiplier with & without repercussion effect;.
		DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 5. Environment and Sustainable Development: Defining sustainability for renewable resources; a brief history of environmental change; common-pool resources; environmental externalities and state regulation of the environment; economic activity and climate change.
Week 13	DSE Course Group B(c): ECOADSE02P	Core Course 3: ECOACOR03T Introductory Macroeconomics 3. Inflation: Demand pull and Cost push inflation
	Project/ Dissertation	Core Course 8: ECOACOR08T Intermediate Microeconomics – II 3.Input Markets: Rent & Quasi-rent.
		Core Course 14: ECOACOR14T International Economics 4. Balance of Payment b). Fixed &Flexible Exchange Rate: adjustment of demand and supply of Foreign Exchange, Effect of devaluation
		DSE Course-Group B(a) (ECOADSE04T) CONTEMPORARY DEVELOPMENT ECONOMICS 5. Environment and Sustainable Development: Defining sustainability for renewable resources; a brief history of

		environmental change; common-pool resources; environmental externalities and state regulation of the environment; economic activity and climate change.
Week1	3 to week 14	Internal Exam
Week 15 to 17	DSE Course Group B(c): ECOADSE02P Project/ Dissertation	Core Course 3: ECOACOR03T Introductory Macroeconomics 3. Inflation: hyperinflation; antiinflationary policies Core Course 8: ECOACOR08T Intermediate Microeconomics — II 4. General Equilibrium, Efficiency and Welfare Core Course 14: ECOACOR14T International Economics 4. Balance of Payment c). Pegged Exchange Rate and BoP: Expenditure Switching Policy (Elasticity Approach) and Expenditure Reducing Policy (Absorption Approach)-Synthesis Approach d). Effects of exchange rate on domestic prices and ToT, Marshall-Lerner Condition, J-Curve effect. DSE Course-Group B(a): (ECOADSE04T)Contemporary Development Economics 5. Environment and Sustainable Development: Environmental externalities and state regulation of the environment; economic activity and climate change. GE Course-4: ECOHGEC04T Indian Economy 6. Indian Public Finance 7. Foreign trade
Week 18	Revision, Practise	Revision



বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর) ২০১৮-১৯ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ৫ – ৮	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ৯ – ১২	2	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
		সপ্তাহ ১	৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন
	2	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ১৫-১৭			
সপ্তাহ ১৮			পাঠ-পুনর্বিবেচনা ও অনুশীলন

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি –জুন) ২০১৮-১৯ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	ર	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারাফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
			UNIT 3বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
সপ্তাহ ৫ – ৮	ર	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারা ফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
সপ্তাহ ৯ – ১২	٤	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারা ফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
		 সপ্তাহ ১	১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন
	ર	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারা ফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
সপ্তাহ ১৫-১৭			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
সপ্তাহ ১৮		1	পাঠ-পুনর্বিবেচনা ও অনুশীলন

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর) ২০১৯-২০ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
	٥	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : বিষয় চলচ্চিত্র – সত্যজিৎ রায়
সপ্তাহ ৫ – ৮	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
	9	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক –
	•		নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
সপ্তাহ ৯ – ১২	٥	CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	3	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
	_	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
		সপ্তাহ :	১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন
		CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
	•		নির্বাচিত অংশ)
		SEC 1	UNIT 1 : বিষয় চলচ্চিত্র – সত্যজিৎ রায়
সপ্তাহ ১৫-১৭		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	•	DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ কোথায়
			– আবু সয়ীদ আইয়ুব
	Č .		UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা

	পাঠ-		UNIT 4 : বিনয় মজুমদারের কবিতা
	পাঠ- পুনৰ্বিবেচনা		
	~ ' G		
	অনুশীলন		
	બનુંાાનન		
সপ্তাহ ১৮		I	



বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন) ২০১৯-২০ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	৬	DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
সপ্তাহ ৯ – ১২	٤	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
		সপ্তাহ ১	৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন
		CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
	২		পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
সপ্তাহ ১৫-১৭		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন

	৬	DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শম্ভু মিত্ৰ (নিৰ্বাচিত)
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
সপ্তাহ ১৮	পাঠ -পুনর্বিবেচনা ও অনুশীলন		পাঠ -পুনর্বিবেচনা ও অনুশীলন



বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর) ২০২০-২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٥	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
	9	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	Č	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ কোথায় –
			আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ৫ – ৮	٥	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
	•	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	œ	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ কোথায় –
			আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ৯ – ১২	٥	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
	•	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন

		SEC 1	UNIT 1 : বিষয় চলচ্চিত্র – সত্যজিৎ রায়
	Č	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ কোথায় –
			আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
		সপ্তাহ :	১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন
	2	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ শতক –
			নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
সপ্তাহ ১৫-১৭		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
	•	SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	Č	DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ কোথায়
			– আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ১৮			পাঠ-পুনর্বিবেচনা ও অনুশীলন
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বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন) ২০২০-২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٦	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	৬	DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
সপ্তাহ ৫ – ৮	٧	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	৬	DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শম্ভু মিত্ৰ (নিৰ্বাচিত)
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
সপ্তাহ ৯ – ১২	×	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শম্ভু মিত্ৰ (নিৰ্বাচিত)
	৬	DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
		DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শম্ভু মিত্ৰ (নিৰ্বাচিত)

সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
		CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
	২		পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
সপ্তাহ ১৫-১৭		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	৬	DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন		পাঠ-পুনর্বিবেচনা ও অনুশীলন

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর) ২০২১-২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	2	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
	9	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত

	œ	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ৫ – ৮	2	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
	৩	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	¢	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ৯ – ১২	>	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
	৩	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	Œ	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
		সপ্তাহ ১৩ – ১৪ : া	<u>অভ্যন্তরীণমূল্যায়ন</u>
	۶	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
সপ্তাহ ১৫-১৭		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
	•	SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	¢	DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা

	UNIT 4 : বিনয় মজুমদারের কবিতা	
সপ্তাহ ১৮	পাঠ -পুনর্বিবেচনা ও অনুশীলন	



বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٤	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	৬	DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস – নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ

		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন	
	৬	DSE 4	UNIT 1: সন্মার্গ সপর্যা – শস্তু মিত্র (নির্বাচিত)	
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়	
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা	
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক	
			পত্রের ইতিহাস – নির্বাচিত অংশ	
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)	
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ	
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শস্তু মিত্র (নির্বাচিত)	
	৬	DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়	
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা	
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শস্তু মিত্র (নির্বাচিত)	
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন				
		CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক	
	২		পত্রের ইতিহাস – নির্বাচিত অংশ	
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)	
সপ্তাহ ১৫-১৭		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ	
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন	
	৬	DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শস্তু মিত্ৰ (নিৰ্বাচিত)	
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়	
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা	
সপ্তাহ ১৮		 পাঠ	5-পুনর্বিবেচনা ও অনুশীলন	

বাংলা বিভাগ পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর) ২০২২-২৩ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
	9	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : চলচ্চিত্রের অ আ ক খ – ধীমান দাশগুপ্ত
	¢	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ৫ – ৮	۲	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
	•	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	¢	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ৯ – ১২	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্ট্রম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
	೨	CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	Č	DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
		DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব

			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ
			শতক – নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
সপ্তাহ ১৫-১৭		CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
	٠	SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	•	DSE 3	UNIT 2 : আধুনিকতা ও রবীন্দ্রনাথ এবং পথের শেষ
			কোথায় – আবু সয়ীদ আইয়ুব
			UNIT 3 : শক্তি চট্টোপাধ্যায় – ৫ টি কবিতা
			UNIT 4 : বিনয় মজুমদারের কবিতা
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন		নৰ্বিবেচনা ও অনশীলন
		4	• • • • • • • • • • • • • • • • • • • •



বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন) ২০২২-২৩ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	2	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক

সপ্তাহ ১৮		'	পাঠ-পুনর্বিবেচনা ও অনুশীলন
		202 0	UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
	9	DSE 4	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
	৬	SEC 2 DSE 4	UNIT 2 : কম্পুটারে বাংলা লিখন UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
সপ্তাহ ১৫-১৭		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
Wells 14 10		66.2	UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
	2		পত্রের ইতিহাস – নির্বাচিত অংশ
	_	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
T			১৪ : অভ্যন্তরীণ মূল্যায়ন
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
	৬	DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
		DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শম্ভু মিত্ৰ (নিৰ্বাচিত)
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
			পত্রের ইতিহাস – নির্বাচিত অংশ
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
	y	DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শম্ভু মিত্ৰ (নিৰ্বাচিত)
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
_			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
			পত্রের ইতিহাস – নির্বাচিত অংশ
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
		DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায়
	৬	DSE 4	UNIT 1: সন্মাৰ্গ সপৰ্যা – শভু মিত্ৰ (নিৰ্বাচিত)
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
	J		
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)

বাংলাবিভাগ

পাঠপরিকল্পনা : দ্বিতীয় বর্ষ, তৃতীয় বর্ষ বিজোড় সেমেস্টার (জুলাই – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়	
সপ্তাহ ১ – ৪	7	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)	
		CC 2	UNIT 2 শাক্ত পদাবলি	
সপ্তাহ ৫ – ৮	7	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)	
		CC 2	UNIT 2 শাক্ত পদাবলি	
সপ্তাহ ৯ – ১২	7	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)	
		CC 2	UNIT 2 শাক্ত পদাবলি	
		সপ্তাহ ১৩ – ১৪ :	অভ্যন্তরীণমূল্যায়ন	
	7	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)	
সপ্তাহ ১৫-১৭		CC 2	UNIT 2 শাক্ত পদাবলি	
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন			

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	2	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ৫ – ৮	2	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ৯ – ১২	2	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
		সপ্তাহ ১৩ – ১ ৪ :	অভ্যন্তরীণমূল্যায়ন
	2	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
TONT 14 10			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ১৫-১৭			
সপ্তাহ ১৮	পাঠ -পুনর্বিবেচনা ও অনুশীলন		

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	2	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের
			অংশবিশেষ)

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			UNIT 2 শাক্ত পদাবলি
	٥	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ৫ – ৮	>	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের
			অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	9	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	۶	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের
			অংশবিশেষ)
			UNIT 2 শাক্তপদাবলি
সপ্তাহ ৯ –	٥	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
১২			
	•	CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	9		
	>		
		CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের
			অংশবিশেষ)
		সপ্তাহ ১৩ – :	১৪ : অভ্যন্তরীণমূল্যায়ন
		T	
	•	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের
			অংশবিশেষ)
সপ্তাহ ১৫-১৭		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
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	পাঠ-পুনর্বিবেচনা ও		
	পাঠ-পুনর্বিবেচনা ও অনুশীলন		
	<u> পুসাধার</u>		
সপ্তাহ ১৮		I	I
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পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন) ২০১৯-২০২০ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলাকাব্যকবিতারউদ্ভবওবিকাশঅংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধকাব্য
		সপ্তাহ :	১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন
		CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
	২		UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
সপ্তাহ ১৫-১৭			UNIT 1 : মেঘনাদবধকাব্য
সপ্তাহ ১৮			পাঠ-পুনর্বিবেচনা ও অনুশীলন

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পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন) ২০২০-২০২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস
			(অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	•	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
	Č	CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
			UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ৫ – ৮	>	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস
			(অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	٥	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	¢		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ৯ –	>	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস
25			(অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্তপদাবলি
	•	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	¢		UNIT 3 : প্রবন্ধ সংগ্রহ-প্রমথ চৌধুরী
l		স্প্রাহ ১৩ – ১৪ : অভ্য	ভরীণমূল্যায়ন
	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস

			(অনুবাদ সাহিত্যের অংশবিশেষ)
সপ্তাহ ১৫-১৭	•	CC 6	UNIT 2 শাক্তপদাবলি UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	LINUT 1. TINI ARIANIO NA
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	Œ		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ১৮		পাঠ -পুনর্বিবেচ•	না ও অনুশীলন

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন) ২০২০-২০২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٤	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলাকাব্যকবিতারউদ্ভবওবিকাশঅংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
	y	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
		CC 13	UNIT 4 ; অহমীয়া সাহিত্যের ইতিহাস
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
সপ্তাহ ৯ – ১২	٤	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ

			UNIT 1 : মেঘনাদবধকাব্য
	y	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
		সপ্তাহ ১৩	– ১৪ : অভ্যন্তরীণ মূল্যায়ন
		CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
	২		UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
সপ্তাহ ১৫-১৭			UNIT 1 : মেঘনাদবধকাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
সপ্তাহ ১৮			পাঠ -পুনর্বিবেচনা ও অনুশীলন
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বাংলাবিভাগ পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জানুয়ারি – জুন) ২০২১-২০২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٥	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস
			(অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	٥	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
	¢	CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
			UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ৫ – ৮	۵	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস
			(অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	٥	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	œ		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী

সপ্তাহ ৯ <i>–</i> ১২	7	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
`			UNIT 2 শাক্তপদাবলি
	৩	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	œ		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
		সপ্তাহ ১৩ – ১৪ :	অভ্যন্তরীণমূল্যায়ন
	٥	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস
			(অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্তপদাবলি
সপ্তাহ ১৫-১৭		CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
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		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	¢		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ১৮		<u>পাঠ</u> -পু	্ৰ নৰ্বিবেচনা ও অনুশীলন
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বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২০২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	ર	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলাকাব্যকবিতারউদ্ভবওবিকাশঅংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ

			UNIT 1 : মেঘনাদবধ কাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
সপ্তাহ ৫ – ৮	2	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
		CC 13	UNIT 4 ; অহমীয়া সাহিত্যের ইতিহাস
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
			UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	8	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধকাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ
		সপ্তা	হ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন
		CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা
	২		UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
সপ্তাহ ১৫-১৭			UNIT 1 : মেঘনাদবধকাব্য
	৬	CC 9	UNIT 4: রাশিয়ারচিঠি- রবীন্দ্রনাথঠাকুর
		CC 10	UNIT 2: প্রবন্ধসাহিত্যেরপ্রকারভেদ
সপ্তাহ ১৮			পাঠ -পুনর্বিবেচনা ও অনুশীলন
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বাংলাবিভাগ

পাঠপরিকল্পনা : দ্বিতীয় বর্ষ, তৃতীয় বর্ষ

বিজোড় সেমেস্টার (জুলাই – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۵	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
সপ্তাহ ৫ – ৮	2	CC 1	UNIT 2 : বাংলামঙ্গলকাব্যেরধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
সপ্তাহ ৯ – ১২	2	CC 1	UNIT 2 : বাংলামঙ্গলকাব্যেরধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
1		সপ্তাহ ১৩ – ১৪ : ব	অভ্যন্তরীণমূল্যায়ন
	۶	CC 1	UNIT 2 : বাংলামঙ্গলকাব্যেরধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
সপ্তাহ ১৫-১৭			
সপ্তাহ ১৮	পাঠ- পুনর্বিবেচনা ও অনুশীলন		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০১৮-২০১৯ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٦	CC 3	UNIT 4 : বাংলা শব্দ ভাণ্ডার

		CC 4	UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
সপ্তাহ ৫ – ৮	2	CC 3	UNIT 4 : বাংলা শব্দ ভাগুর
_		CC 3	UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
		সপ্তাহ ১৩ – ১৪ : [্]	্র অভ্যন্তরীণমূল্যায়ন
	2	CC 3	UNIT 4 : বাংলা শব্দ ভাণ্ডার
সপ্তাহ ১৫-১৭		CC 4	UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
101 2 JU-27		-	
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন		

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন) ২০১৯-২০২০ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۶	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	9	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
সপ্তাহ ৫ – ৮	۵	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	9	CC 5	UNIT 1অলম্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক

		CC 7	UNIT 1 : সাম্য
সপ্তাহ ৯ –	۵	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
১২			UNIT 3চণ্ডীমঙ্গল
	9	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
		CC 7	UNIT 1: সাম্য
		সপ্তাহ ১৩ – ১৪ : ^ছ	 প্রভ্যন্তরীণমূল্যায়ন
	٤	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3 চণ্ডীমঙ্গল
সপ্তাহ ১৫-১৭			UNIT 1অলঙ্কার সঙ্গার্থ
	9		
			UNIT 2অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
সপ্তাহ ১৮		পাঠ-পুন	র্বিবেচনা ও অনুশীলন

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়		
সপ্তাহ ১ – ৪	ર	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার		
			UNIT 4 বাংলাকথাসাহিত্যেরউদ্ভবওবিকাশ		
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ		
		CC 9	UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর		
		CC 10	UNIT-নাটকের রূপভেদ		
সপ্তাহ ৫ – ৮	٤	CC 4	UNIT 4 : বাংলা শব্দ ভাগ্তার		
			UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ		
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ		
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর		
সপ্তাহ ৯ – ১২	٤	CC 4	UNIT 4 : বাংলা শব্দ ভাগ্তার		
			UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ		
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ		
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর		
	সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন				
		CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার		
	ર		UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ		
		CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ		
সপ্তাহ ১৫-১৭	8		UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর		
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ		
		CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস		
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা		
সপ্তাহ ১৮		<u>।</u> পাঠ-	ু পুনর্বিবেচনা ও অনুশীলন		

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২০২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়

সপ্তাহ ১ – ৪	2	CC 1	UNIT 2 : বাংলা মঞ্চল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	೨	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2 অলঙ্কার নির্ণয়
	Č	CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
		CC 7	UNIT 1 : সাম্য
সপ্তাহ ৫ – ৮	2	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	٥	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	Č	CC 7	UNIT 1 : সাম্য
সপ্তাহ ৯ –	7	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
> 2	_		UNIT 3চণ্ডীমঙ্গল
	•	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	Œ	CC 7	UNIT 1 : সাম্য
		 সপ্তাহ ১৩ – ১৪ : ড	 শভ্যন্তরীণমূল্যায়ন
	۶	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3 চণ্ডীমঙ্গল
সপ্তাহ ১৫-১৭			UNIT 1অলঙ্কার পরিচয়
1014 JC-JH		CC 5	
	9		
			UNIT 2অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	¢	CC 7	UNIT 1 : সাম্য

সপ্তাহ ১৮	পাঠ -পুনর্বিবেচনা ও অনুশীলন

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২০২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 4 : বাংলা শব্দ ভাগুর
			UNIT 4 বাংলাকথাসাহিত্যেরউদ্ভবওবিকা শ
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 9	UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT-নাটকের রূপভেদ
	৬	CC 13	UNIT-4 হিন্দি, সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
সপ্তাহ ৫ – ৮	2	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
			UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
	৬	CC 9	UNIT-নাটকের রূপভেদ
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
	৬	CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা

সপ্তাহ ৯ – ১২	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
			UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
	৬	CC 9	UNIT-নাটকের রূপভেদ
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
		সপ্তাহ ১৩ – :	১৪ : অভ্যন্তরীণ মূল্যায়ন
		CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
	২		UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
		CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
সপ্তাহ ১৫-১৭			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
	৬	CC 9	UNIT-নাটকের রূপভেদ
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
সপ্তাহ ১৮			 পাঠ -পুনর্বিবেচনা ও অনুশীলন
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বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২০২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٥	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	9	CC 5	UNIT 1অলম্কার সঙ্গার্থ

			UNIT 2 অলঙ্কার নির্ণয়
	¢	CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
		CC 7	UNIT 1 : সাম্য
সপ্তাহ ৫ – ৮	2	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	٩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	Œ.	CC 7	UNIT 1 : সাম্য
TIONS &		CC 1	LINET OF THE STATE STATE OF THE
সপ্তাহ ৯ – ১২	2	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা UNIT 3চণ্ডীমঙ্গল
	•	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	¢	CC 7	UNIT 1 : সাম্য
		সপ্তাহ ১৩ – ১৪ :	অভ্যন্তরীণমূল্যায়ন
	2	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3 চণ্ডীমঙ্গল
সপ্তাহ ১৫-১৭			UNIT 1অলঙ্কার সঙ্গার্থ
	•	CC 5	
			UNIT 2অলঙ্কার নির্ণয়
	4	CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	•	CC 7	UNIT 1 : সাম্য
সপ্তাহ ১৮		পাঠ-পু	নবিবেচনা ও অনুশীলন

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পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন) ২০২১-২০২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
			UNIT 4 বাংলাকথাসাহিত্যেরউদ্ভবওবিকা শ
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 9	UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT-নাটকের রূপভেদ
	৬	CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
			UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
_			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
	৬	CC 9	UNIT-নাটকের রূপভেদ
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
	৬	CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 4 : বাংলা শব্দ ভাগ্রার
			UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	8	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর

	৬	CC 9	UNIT-নাটকের রূপভেদ
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
		সপ্তাহ ১৩	_ ১৪ : অভ্যন্তরীণ মূল্যায়ন
		CC 4	UNIT 4 : বাংলা শব্দ ভাগুর
	২		UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
		CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
সপ্তাহ ১৫-১৭			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
	৬	CC 9	UNIT-নাটকের রূপভেদ
		CC 10	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 13	UNIT-4 হিন্দি সাহিত্যের ইতিহাস
		CC 14	UNIT 1: ইংল্যাণ্ডে বঙ্গমহিলা
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন		 পাঠ -পুনর্বিবেচনা ও অনুশীলন

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পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – ড. দীপঙ্কর ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۶	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – পরিচয়, উৎস, মনসা
	9	CC 6	UNIT 3 : রাজা – রবীন্দ্রনাথ ঠাকুর

		CC 7	UNIT 1 : সাম্য – বঙ্কিমচন্দ্র চট্টোপাধ্যায়(ভূমিকা, পরিচ্ছেদ –
			۵)
		GE 3	UNIT 2 : স্বামীজীকে যেরূপ দেখিয়াছি – ভগিনী নিবেদিতা
			(ভূমিকা, পরি – ১-২)
	¢	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (২ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর (ভূমিকা, পরিচয়,
			সৌন্দর্যের সম্বন্ধ)
সপ্তাহ ৫ – ৮	۵	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – চণ্ডী
	٥	CC 6	UNIT 3 : রাজা – রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1 : সাম্য – বঙ্কিমচন্দ্র চট্টোপাধ্যায় (পরি ২)
		GE 3	UNIT 2 : স্বামীজীকে যেরূপ দেখিয়াছি – ভগিনী নিবেদিতা
			(পরি ৩ - ১০)
	¢	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (৪ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ৯ – ১২	۲	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – ধর্ম
	9	CC 6	UNIT 3 : রাজা – রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1 : সাম্য – বঙ্কিমচন্দ্র চট্টোপাধ্যায় (পরি ৩)
		GE 3	UNIT 2 : স্বামীজীকে যেরূপ দেখিয়াছি – ভগিনী নিবেদিতা
			(পরি ১১ - ১৬)
	¢	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (২ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর
		সপ্তাহ ১৩ – ১	৪ : অভ্যন্তরীণমূল্যায়ন
	۵	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – শিবায়ন, অন্নদা
		CC 6	UNIT 3 : রাজা – রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ১৫-১৭	•	CC 7	UNIT 1 : সাম্য – বঙ্কিমচন্দ্র চট্টোপাধ্যায় (পরি ৪ ও পাঠ
			সমাপ্তি)
		GE 3	UNIT 2 : স্বামীজীকে যেরূপ দেখিয়াছি – ভগিনী নিবেদিতা
			(অবশিষ্টাংশ)
	¢	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (২ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ১৮		91	াঠ-পুনর্বিবেচনা ও অনুশীলন
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পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – ড. দীপঙ্কর ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস
		AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
	8	CC 9	UNIT 1 : ঘরে বাইরে - রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2 : বাংলা কথাসাহিত্যের রূপভেদ
	৬	CC 14	UNIT 2: য়ুরোপ প্রবাসীর পত্র - রবীন্দ্রনাথ ঠাকুর
		CC 14	UNIT 4: হে পূর্ণ তব চরণের কাছে – নবনীতা দেবসেন
সপ্তাহ ৫ – ৮	ર	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস
		AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
	8	CC 9	UNIT 1 : ঘরে বাইরে - রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2 : বাংলা কথাসাহিত্যের রূপভেদ
	৬	CC 14	UNIT 2: য়ুরোপ প্রবাসীর পত্র - রবীন্দ্রনাথ ঠাকুর
		CC 14	UNIT 4: হে পূর্ণ তব চরণের কাছে – নবনীতা দেবসেন
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
			পত্রের ইতিহাস
		AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
	8	CC 9	UNIT 1 : ঘরে বাইরে - রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT 2 : বাংলা কথাসাহিত্যের রূপভেদ
	৬	CC 14	UNIT 2: য়ুরোপ প্রবাসীর পত্র - রবীন্দ্রনাথ ঠাকুর
		CC 14	UNIT 4: হে পূর্ণ তব চরণের কাছে – নবনীতা দেবসেন
		সপ্তাহ ১৩ – ১৪	: অভ্যন্তরীণমূল্যায়ন
		CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক
	২		পত্রের ইতিহাস
		AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ১৫-১৭		CC 9	UNIT 1 : ঘরে বাইরে - রবীন্দ্রনাথ ঠাকুর
	8	CC 10	UNIT 2 : বাংলা কথাসাহিত্যের রূপভেদ
	৬	CC 14	UNIT 2: য়ুরোপ প্রবাসীর পত্র - রবীন্দ্রনাথ ঠাকুর
		CC 14	UNIT 4: হে পূর্ণ তব চরণের কাছে – নবনীতা দেবসেন

সপ্তাহ ১৮	পাঠ -পুনর্বিবেচনা ও অনুশীলন

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পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জুলাই – ডিসেম্বর) ২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকদেবপ্রিয়ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	۲	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : পদাবলি,শাক্তপদাবলি।
		CC 2	UNIT 2 : শাক্তপদাবলি
	•	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (পরমানুলোক)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী (পরিচ্ছেদ ৭-৮)
	¢	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত ২টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত –বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ৫ – ৮	٥	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : পদাবলি, শাক্তপদাবলি।
		CC 2	UNIT 2 : শাক্তপদাবলি
	•	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (নক্ষত্রলোক, সৌরজগৎ)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী (পরিচ্ছেদ৯-১১)
	¢	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত ৩ টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ৯ – ১২	2	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2 : শাক্তপদাবলি
	9	CC 5	UNIT 1 : বাংলাঅলঙ্কার

	CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর(গ্রহলোক, ভূলোক)
	GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১১-১২)
¢	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত৩টি)
	DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচটোপাধ্যায়
	সপ্তাহ ১৩	– ১৪ : অভ্যন্তরীণমূল্যায়ন
۶	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
	CC 2	UNIT 2 : শাক্তপদাবলি
	CC 5	UNIT 1 : বাংলাঅলঙ্কার
•	CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (উপসংহার)
	GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১৩)
¢	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত২টি)
	DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচটোপাধ্যায়
পাঠ-পুনর্বিবেচনা ও অনুশীলন		পাঠ -পুনর্বিবেচনা ও অনুশীলন
	٥	GE 3 CC 12 DSE 2 সপ্তাহ ১৩ CC 1 CC 2 CC 5 CC 7 GE 3 C CC 12



বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকদেবপ্রিয়ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	वि षग्न
সপ্তাহ ১ – ৪	٤	CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি - পরিচয়
		CC 2	UNIT 3 : ধ্বনিপরিবর্তন
		AECC	বাংলাব্যাকরণ (পদপরিচয়, পদান্তর)
	8	CC 10	UNIT 1 : কাব্যেররূপভেদ
		CC 10	UNIT 3 : কাব্যজিজ্ঞাসা – অতুলচন্দ্রগুপ্ত (রস)
		GE 4	UNIT 1 : বাংলাশিশু ও কিশোরসাহিত্যেরইতিহাস
	৬	CC 13	UNIT 4: হিন্দিসাহিত্যেরইতিহাস
		DSE 3	UNIT 4: শঙ্খঘোষেরকবিতা (১ টি)
সপ্তাহ ৫ – ৮	2	CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি, বর্গীকরণ
		CC 3	UNIT 4 : শব্দভাগার
		AECC	বাংলাব্যাকরণ (সমাস, ক্রিয়া)
	8	CC 10	UNIT 1 : কাব্যেররূপভেদ
		CC 10	UNIT 3 : কাব্যজিজ্ঞাসা – অতুলচন্দ্রগুপ্ত (ধ্বনি)
		GE 4	UNIT 1 : বাংলাশিশু ও কিশোরসাহিত্যেরইতিহাস
	৬	CC 13	UNIT 4: হিন্দিসাহিত্যেরইতিহাস

		DSE 3	UNIT 4: শঙ্খঘোষেরকবিতা (২ টি)
সপ্তাহ ৯ – ১২	২	CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি, বর্গীকরণ
		CC 3	UNIT 4 : শব্দার্থপরিবর্তন
		AECC	বাংলাব্যাকরণ (ক্রিয়ারকাল, বাংলাবানানচর্চা)
	8	CC 10	UNIT 1 : কাব্যেররপভেদ
		CC 10	UNIT 3 : কাব্যজিজ্ঞাসা – অতুলচন্দ্রগুপ্ত (রস ও ধ্বনি)
		GE 4	UNIT 1 : বাংলাশিশু ও কিশোরসাহিত্যেরইতিহাস
	৬	CC 13	UNIT 4: হিন্দিসাহিত্যেরইতিহাস
		DSE 3	UNIT 4: শঙ্খঘোষেরকবিতা (২ টি)
		সপ্তাহ ১৩ -	– ১৪ : অভ্যন্তরীণমূল্যায়ন
		CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি, বর্গীকরণ
	ર	CC 3	UNIT 4 : শব্দার্থপরিবর্তন
		AECC	বাংলাব্যাকরণ (ক্রিয়ারকাল, বাংলাবানানচর্চা)
সপ্তাহ ১৫-১৭		CC 10	UNIT 1 : কাব্যেররূপভেদ
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা – অতুলচন্দ্রগুপ্ত (কথা ও ফল)
		GE 4	UNIT 1 : বাংলাশিশু ও কিশোরসাহিত্যেরইতিহাস
	৬	CC 13	UNIT 4: হিন্দিসাহিত্যেরইতিহাস
		DSE 3	UNIT 4: শঙ্খঘোষেরকবিতা (১-৫ প্রশ্ন ও উত্তরআলোচনা)
সপ্তাহ ১৮			পাঠ-পুনর্বিবেচনা ও অনুশীলন
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পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জুলাই – ডিসেম্বর) ২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক অমরেশ মণ্ডল

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	2	CC 2	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য
			, চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
	೨	CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
	¢	CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
		CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)
		DSE 3:	UNIT 3 : শক্তি চট্টোপাধ্যায়ের নির্বাচিত কবিতা

CC 2 CC 7 CC 11	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য , চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ UNIT 2: শ্রৎচন্দ্রের পথের দাবী
	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
CC 11	TIMIT 2: अष्टात्म्बर श्राशंत कारी
	טואוו ב. שייטשא יונאא יוואו
CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)
DSE 3:	UNIT 3 : শক্তি চট্টোপাধ্যায়ের নির্বাচিত কবিতা
CC 2	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য
	, চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)
DSE 3:	UNIT 3 : শক্তি চট্টোপাধ্যায়ের নির্বাচিত কবিতা
সপ্তাহ ১৩ –	১৪ : অভ্যন্তরীণমূল্যায়ন
	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য
	, চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)
	পাঠ-পুনর্বিবেচনা ও অনুশীলন
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	DSE 3: CC 2 CC 7 CC 11 CC 12 DSE 3: 不動文 30 - CC 7 CC 11 CC 12

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
3	>	CC 2	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য
			, চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
	9	CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
	¢	CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
		CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)

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		DSE 3:	UNIT 3 : শক্তি চট্টোপাধ্যায়ের নির্বাচিত কবিতা
সপ্তাহ৫ – ৮	>	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : পদাবলি, শাক্তপদাবলি।
	9	CC 5	UNIT 1 : বাংলাঅলঙ্কার
	¢	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত ৩ টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ৯ – ১২	>	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2: শাক্তপদাবলি
	•	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর(গ্রহলোক, ভূলোক)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১১-১২)
	¢	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত ৩ টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
·		সপ্তাহ ১৩ -	- ১৪ : অভ্যন্তরীণমূল্যায়ন
	۵	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2 : শাক্তপদাবলি
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সপ্তাহ ১৫-১৭		CC 5	UNIT 1 : বাংলাঅলঙ্কার
	•	CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (উপসংহার)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১৩)
	Č	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত২টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ ১৮			পাঠ-পুনর্বিবেচনা ও অনুশীলন
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বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক অমরেশ মণ্ডল

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٤	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস
	8	CC 8	UNIT 1 : মেঘনাদবধ কাব্য ১-৬ সর্গ
		CC 9	UNIT 4 : রবীন্দ্রনাথের 'রাশিয়ার চিঠি'
	৬	CC 14	UNIT 1: কৃষ্ণভামিণী দেবী, ইংল্যাণ্ডে বঙ্গমহিলা
		DSE 4	UNIT 4: ফুল্লকেতুর পালা নাটক
সপ্তাহ ৫ – ৮	a a	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস
	8	CC 8	UNIT 1 : মেঘনাদবধ কাব্য ১-৬ সর্গ

		CC 9	UNIT 4 : রবীন্দ্রনাথের 'রাশিয়ার চিঠি'		
	৬	CC 14	UNIT 1: কৃষ্ণভামিণী দেবী, ইংল্যাণ্ডে বঙ্গমহিলা		
		DSE 4	UNIT 4: ফুল্লকেতুর পালা নাটক		
সপ্তাহ ৯ – ১২	×	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস		
	8	CC 8	UNIT 1 : মেঘনাদবধ কাব্য ১-৬ সর্গ		
		CC 9	UNIT 4 : রবীন্দ্রনাথের 'রাশিয়ার চিঠি'		
	৬	CC 14	UNIT 1: কৃষ্ণভামিণী দেবী, ইংল্যাণ্ডে বঙ্গমহিলা		
		DSE 4	UNIT 4: ফুল্লকেতুর পালা নাটক		
	সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন				
		CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের		
	ર		ইতিহাস		
		CC 8	UNIT 1 : মেঘনাদবধ কাব্য ১-৬ সর্গ		
সপ্তাহ ১৫-১৭		CC 9	UNIT 4 : রবীন্দ্রনাথের 'রাশিয়ার চিঠি'		
	৬	CC 14	UNIT 1: কৃষ্ণভামিণী দেবী, ইংল্যাণ্ডে বঙ্গমহিলা		
		DSE 4	UNIT 4: ফুল্লকেতুর পালা নাটক		
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন				
		*			



বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর) ২০২০ - ২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	2	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	•	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	¢	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৫ – ৮	۵	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	٩	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
		CC 11	UNIT 1: রাজসিংহ
	Č		UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৯ – ১২	۵	CC 1	UNIT 4 : বৈষ্ণৰ পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	٥	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	Œ	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
		সপ্তাহ ১৩ – ১৪ :	অভ্যন্তরীণমূল্যায়ন
	2	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
		CC 5	UNIT 2 : কৃষ্ণকুমারী
TONT 1.4.10			
সপ্তাহ ১৫-১৭	•	CC 7	UNIT 4 : আপন কথা
	¢	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন		পুনর্বিবেচনা ও অনুশীলন



বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০ - ২১ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2 : চন্দ্রগুপ্ত
সপ্তাহ ৫ – ৮	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2 : চন্দ্রগুপ্ত
সপ্তাহ ৯ – ১২	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2 : চন্দ্রগুপ্ত
1		সপ্তাহ ১৩ – ১৪	: অভ্যন্তরীণ মূল্যায়ন
		CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
		CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর

৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
	DSE 4	UNIT 2 : চন্দ্রগুপ্ত



বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২১ - ২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	>	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	•	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	¢	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৫ – ৮	>	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	•	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
		CC 11	UNIT 1: রাজসিংহ
	¢		UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৯ – ১২	2	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	•	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	Č	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
'		সপ্তাহ ১৩ – ১৪	: অভ্যন্তরীণমূল্যায়ন
	2	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
		CC 5	UNIT 2 : কৃষ্ণকুমারী

সপ্তাহ ১৫-১৭	৩	CC 7	UNIT 4 : আপন কথা
	•	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৮	পাঠ -পুনর্বিবেচনা ও অনুশীলন		্ বিবেচনা ও অনুশীলন



বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১ - ২২ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2 : চন্দ্রগুপ্ত
সপ্তাহ ৫ – ৮	٧	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2: চন্দ্রগুপ্ত
সপ্তাহ ৯ – ১২	٤	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা
			UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	૭	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস

	DSE 4	UNIT 2 : চন্দ্রগুপ্ত	
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস	
		UNIT 2 : বাংলা ভাষার উপভাষা	
	CC 10	UNIT 3 : কাব্যজিজ্ঞাসা	
		UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর	
৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস	
	DSE 4	UNIT 2 : চন্দ্রগুপ্ত	



বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২ - ২৩ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্ৰসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	7	CC 1	UNIT 4 : বৈঞ্চব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	9	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	Œ	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৫ – ৮	۷	CC 1	UNIT 4 : বৈঞ্চব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	•	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	¢	CC 11	UNIT 1: রাজসিংহ
	¥ .		UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৯ – ১২	>	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	9	CC 5	UNIT 2 : কৃষ্ণকুমারী

		CC 7	UNIT 4 : আপন কথা
	œ	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
		সপ্তাহ ১৩ – ১৪ : `	অভ্যন্তরীণমূল্যায়ন
	2	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
		CC 5	UNIT 2 : কৃষ্ণকুমারী
সপ্তাহ ১৫-১৭	9	CC 7	UNIT 4 : আপন কথা
	¢	CC 11	UNIT 1: রাজসিংহ
			UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৮		পাঠ-পু	নূৰ্বিবেচনা ও অনুশীলন



বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২২ - ২৩ শিক্ষাবর্ষ

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	٧	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2 : চন্দ্ৰগুপ্ত
সপ্তাহ ৫ – ৮	ų	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস
			UNIT 2 : বাংলা ভাষার উপভাষা
	8	CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	y	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস
		DSE 4	UNIT 2 : চন্দ্ৰগুপ্ত

সপ্তাহ ৯ – ১২	٦	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস	
			UNIT 2 : বাংলা ভাষার উপভাষা	
	8	CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর	
	ઝ	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস	
		DSE 4	UNIT 2 : চন্দ্রগুপ্ত	
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন				
		CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস	
			UNIT 2 : বাংলা ভাষার উপভাষা	
		CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর	
	৬	CC 13	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস	
		DSE 4	UNIT 2 : চন্দ্রগুপ্ত	

বিধাননগরকলেজ বাংলাবিভাগ

পাঠপরিকল্পনা :দ্বিতীয়বর্ষ, তৃতীয়বর্ষ (পুরাতন বার্ষিক পাঠ্যক্রম) (জুলাই – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকজয়ন্তমিস্ত্রি

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪	২য় বর্ষসাম্মানিক	শাক্তপদাবলি
	৩য় বর্ষসাম্মানিক	সঞ্চিতা,অরণ্যেরঅধিকার
	২য় বর্ষসাধারণ	মেঘনাদবধকাব্য, পল্লীসমাজ
সপ্তাহ৫ –৮	২য়বর্ষসাম্মানিক	শাক্তপদাবলি
	৩য় বর্ষসাম্মানিক	সঞ্চিতা, অরণ্যেরঅধিকার
	২য় বর্ষসাধারণ	মেঘনাদবধকাব্য, পল্লীসমাজ
সপ্তাহ৯ –১২	২য়বর্ষসাম্মানিক	মুক্তধারা, টিনেরতলোয়ার
	৩য় বর্ষসাম্মানিক	সঞ্চিতা, অরণ্যেরঅধিকার
	২য় বর্ষসাধারণ	মেঘনাদবধকাব্য, পল্লীসমাজ
সপ্তাহ ১৩	২য় বর্ষসাম্মানিক	মুক্তধারা, টিনেরতলোয়ার
	৩য় বর্ষসাম্মানিক	সঞ্চিতা, অরণ্যেরঅধিকার
	২য় বর্ষসাধারণ	মেঘনাদবধকাব্য, পল্লীসমাজ
সপ্তাহ ১৪– ১৫	২য় বর্ষসাম্মানিক	মুক্তধারা, টিনেরতলোয়ার
	৩য় বর্ষসাম্মানিক	সঞ্চিতা, অরণ্যেরঅধিকার
	২য় বর্ষসাধারণ	মেঘনাদবধকাব্য, পল্লীসমাজ
সপ্তাহ ১৬-১৭	২য়বর্ষসাম্মানিক	মুক্তধারা, টিনেরতলোয়ার
	৩য় বর্ষসাম্মানিক	সঞ্চিতা, অরণ্যেরঅধিকার
	২য় বর্ষসাধারণ	মেঘনাদবধকাব্য, পল্লীসমাজ
পুনরালোচনা		

বিধাননগরকলেজ বাংলাবিভাগ পাঠপরিকল্পনা :তৃতীয়বর্ষ

(জুলাই – জুন) ২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকজয়ন্তমিস্ত্রি

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪		
	৩য় বর্ষসাম্মানিক	সঞ্চিতা,অরণ্যেরঅধিকার
সপ্তাহ ৫ –৮		
	৩য় বর্ষসাম্মানিক	সঞ্চিতা,অরণ্যেরঅধিকার
সপ্তাহ ৯ –১২		
	৩য় বর্ষসাম্মানিক	অরণ্যেরঅধিকার, প্রবন্ধনবন্ধেররূপভেদ
সপ্তাহ ১৩		
	৩য় বর্ষসাম্মানিক	প্রবন্ধনিবন্ধেররূপভেদ, অহমীয়াসাহিত্যেরইতিহাস
সপ্তাহ ১৪– ১৫		
	৩য় বর্ষসাম্মানিক	প্রবন্ধনিবন্ধেররূপভেদ, অহমীয়াসাহিত্যেরইতিহাস
সপ্তাহ ১৬-১৭		
	৩য় বর্ষসাম্মানিক	প্রবন্ধনিবন্ধেররূপভেদ, অহমীয়াসাহিত্যেরইতিহাস
পুনরালোচনা		

বিধাননগরকলেজ বাংলাবিভাগ পাঠপরিকল্পনা :দ্বিতীয়বর্ষ, তৃতীয়বর্ষ (জুলাই – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকউদয়শঙ্করবর্মা

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪	২য় বর্ষসাম্মানিক	ছন্দেরপরিচয় ও ছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরকবিতাসঞ্চয়ন, সংস্কৃতসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	ছন্দেরপরিচয়ওছন্দনির্ণয়

২য়বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
৩য় বর্ষসাম্মানিক	একালেরকবিতাসঞ্চয়ন, সংস্কৃতসাহিত্যেরইতিহাস
২য় বর্ষসাধারণ	ছন্দেরপরিচয়ওছন্দনির্ণয়
২য়বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
৩য় বর্ষসাম্মানিক	একালেরকবিতাসঞ্চয়ন, সংস্কৃতসাহিত্যেরইতিহাস
২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
২য় বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
৩য় বর্ষসাম্মানিক	একালেরপ্রবন্ধসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
২য় বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
৩য় বর্ষসাম্মানিক	একালেরপ্রবন্ধসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
২য় বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
৩য় বর্ষসাম্মানিক	একালেরপ্রবন্ধসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
	তয় বর্ষসাম্মানিক হয় বর্ষসামানিক তয় বর্ষসামানিক তয় বর্ষসামানিক হয় বর্ষসামানিক তয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক হয় বর্ষসামানিক তয় বর্ষসামানিক হয় বর্ষসামানিক

বিধাননগরকলেজ বাংলাবিভাগ পাঠপরিকল্পনা :তৃতীয়বর্ষ (জুলাই – জুন) ২০১৯-২০২০ শিক্ষাবর্ষ,

শিক্ষকেরনাম – অধ্যাপকঅধ্যাপকউদয়শঙ্করবর্মা

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪		একালেরকবিতাসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
সপ্তাহ ৫ –৮		একালেরকবিতাসঞ্চয়,একালেরসমালোচনাসঞ্চয়ন
সপ্তাহ ৯ –১২		একালেরকবিতাসঞ্চয়ন,,একালেরসমালোচনাসঞ্চয়ন,
সপ্তাহ ১৩		সংস্কৃতসাহিত্যেরইতিহাস, একালেরপ্রবন্ধসঞ্চয়ন

সপ্তাহ ১৪– ১৫	সংস্কৃতসাহিত্যেরইতিহাসএকালেরপ্রবন্ধসঞ্চয়ন
সপ্তাহ ১৬-১৭	সংস্কৃতসাহিত্যেরইতিহাসএকালেরপ্রবন্ধসঞ্চয়ন
পুনরালোচনা	

বিধাননগরকলেজ, বাংলাবিভাগ পাঠপরিকল্পনা :দ্বিতীয়বর্ষ, তৃতীয়বর্ষ (জুলাই – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ 🕽 – ৪	২য় সাম্মানিক	অলঙ্কার, নাটকেরূপভেদ
	৩য় বর্ষসাম্মানিক	কাব্যেররূপভেদ, শৈলীবিচার
	২য় বর্ষসাধারণ	একালেরছোটগল্প, পুনশ্চ-রবীন্দ্রনাথঠাকুর
সপ্তাহ ৫ –৮	২য়বর্ষসাম্মানিক	অলঙ্কার, নাটকেরূপভেদ
	৩য় বর্ষসাম্মানিক	কাব্যেররূপভেদ, শৈলীবিচার
	২য় বর্ষসাধারণ	একালেরছোটগল্প, পুনশ্চ-রবীন্দ্রনাথঠাকুর
সপ্তাহ ৯ –১২	২য়বর্ষসাম্মানিক	অলঙ্কার, নাটকেরূপভেদ
	৩য় বর্ষসাম্মানিক	কাব্যেররূপভেদ, শৈলীবিচার
	২য় বর্ষসাধারণ	একালেরছোটগল্প, পুনশ্চ-রবীন্দ্রনাথঠাকুর
সপ্তাহ ১৩	২য় বর্ষসাম্মানিক	অলঙ্কার, নাটকেরূপভেদ
	৩য় বর্ষসাম্মানিক	একালেরগল্পসঞ্চয়ন-প্রাকস্বাধীনতাযুগ, স্বাধীনতা-উত্তরযুগ,
		হিন্দিসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	একালেরছোটগল্প, পুনশ্চ-রবীন্দ্রনাথঠাকুর
সপ্তাহ ১৪– ১৫	২য় বর্ষসাম্মানিক	অলঙ্কার, নাটকেরূপভেদ
	৩য় বর্ষসাম্মানিক	একালেরগল্পসঞ্চয়ন-প্রাকস্বাধীনতাযুগ, স্বাধীনতা-উত্তরযুগ,
		হিন্দিসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	একালেরছোটগল্প, পুনশ্চ-রবীন্দ্রনাথঠাকুর
সপ্তাহ ১৬-১৭	২য় বর্ষসাম্মানিক	অলঙ্কার, নাটকেরূপভেদ
	৩য় বর্ষসাম্মানিক	একালেরগল্পসঞ্চয়ন-প্রাকস্বাধীনতাযুগ, স্বাধীনতা-উত্তরযুগ

	২য় বর্ষসাধারণ	একালেরছোটগল্প,পুনশ্চ-রবীন্দ্রনাথঠাকুর
পুনরালোচনা		

বিধাননগরকলেজ বাংলাবিভাগ পাঠপরিকল্পনা :তৃতীয়বর্ষ (জুলাই – জুন) ২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকলিপিকাসাহা

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪		কাব্যেররূপভেদ, কাব্যেরশৈলীবিচার
সপ্তাহ ৫ –৮		কাব্যেররূপভেদ, কাব্যেরশৈলীবিচার
সপ্তাহ ৯ –১২		কাব্যেররূপভেদ, কাব্যেরশৈলীবিচার
সপ্তাহ ১৩		একালেরগল্পসঞ্চয়ন-প্রাকস্বাধীনতাযুগ, স্বাধীনতা-উত্তরযুগ, হিন্দিসাহিত্যেরইতিহাস
সপ্তাহ ১৪– ১৫		একালেরগল্পসঞ্চয়ন-প্রাকস্বাধীনতাযুগ, স্বাধীনতা-উত্তরযুগ, হিন্দিসাহিত্যেরইতিহাস
সপ্তাহ ১৬-১৭		একালেরগল্পসঞ্চয়ন-প্রাকস্বাধীনতাযুগ, স্বাধীনতা-উত্তরযুগ, হিন্দিসাহিত্যেরইতিহাস
পুনরালোচনা		

বিধাননগরকলেজ বাংলাবিভাগ পাঠপরিকল্পনা :দ্বিতীয়বর্ষ, ভৃতীয়বর্ষ (জুলাই – জুন) ২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকতপশ্রীচট্টোপাধ্যায়

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪	২য় বর্ষসাম্মানিক	বৈষ্ণবপদাবলি, শেষেরকবিতা
	৩য় বর্ষসাম্মানিক	বীরাঙ্গনা,গল্পগুচ্ছ
	২য় বর্ষসাধারণ	বৈষ্ণবপদাবলি, রাজা ও রাণী

সপ্তাহ ৫ –৮	২য়বর্ষসাম্মানিক	বৈষ্ণবপদাবলি, শেষেরকবিতা
	৩য় বর্ষসাম্মানিক	বীরাঙ্গনা, গল্পগুচ্ছ
	২য় বর্ষসাধারণ	বৈষ্ণবপদাবলি, রাজাওরাণী
সপ্তাহ ৯ –১২	২য়বর্ষসাম্মানিক	বৈষ্ণবপদাবলি, শেষেরকবিতা
	৩য় বর্ষসাম্মানিক	বীরাঙ্গনা, গল্পগুচ্ছ
	২য় বর্ষসাধারণ	বৈষ্ণবপদাবলি, রাজাওরাণী
সপ্তাহ ১৩	২য় বর্ষসাম্মানিক	বৈষ্ণবপদাবলি,শেষেরকবিতা
	৩য় বর্ষসাম্মানিক	সোনারতরী, ইংরেজিসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	বৈষ্ণবপদাবলি, রাজাওরাণী
সপ্তাহ ১৪– ১৫	২য় বর্ষসাম্মানিক	বৈষ্ণবপদাবলি, শেষেরকবিতা
	৩য় বর্ষসাম্মানিক	সোনারতরী, ইংরেজিসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	বৈষ্ণবপদাবলি, রাজাওরাণী
সপ্তাহ ১৬-১৭	২য় বর্ষসাম্মানিক	বৈষ্ণবপদাবলি,শেষেরকবিতা
	৩য় বর্ষসাম্মানিক	সোনারতরী, ইংরেজিসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	বৈষ্ণবপদাবলি, রাজাওরাণী
পুনরালোচনা		

বিধাননগরকলেজ বাংলাবিভাগ পাঠপরিকল্পনা :তৃতীয়বর্ষ (জুলাই – জুন) ২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকতপশ্রীচট্টোপাধ্যায়

সপ্তাহ	বৰ্ষ	বিষয়
সপ্তাহ ১ – ৪		বীরাঙ্গনা, গল্পগুচ্ছ
সপ্তাহ ৫ –৮		বীরাঙ্গনা, গল্পগুচ্ছ
সপ্তাহ ৯ –১২		বীরাঙ্গনা, গল্পগুচ্ছ

সপ্তাহ ১৩	সোনারতরী, ইংরেজিসাহিত্যেরইতিহাস
সপ্তাহ ১৪– ১৫	সোনারতরী, ইংরেজিসাহিত্যেরইতিহাস
সপ্তাহ ১৬-১৭	সোনারতরী, ইংরেজিসাহিত্যেরইতিহাস
পুনরালোচনা	