BIDHANNAGAR COLLEGE

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 (2018-19)

Class: B.A. in History under CBCS.
Semester: 1 & B.A. Part-II & III (old).
Name of the Teacher: Dr. Ratan Kumar Biswas.
Subject: History
Paper: CC-1, CC-2, GE-1, Paper III, IV, V, VIII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR01T: Reconstructing Ancient Indian History & Sources. 2. HISACOR02T: Bronze Age Civilization, Introduction. 3. HISHGEC01T: Ancient Indian Sources and Interpretations. 4. Paper III: The Emergence of the English East India Company as a Political Power. 5. Paper IV: The Formation of Early Modern State. 6. Paper V: The Drain of Wealth and deindustrialisation. 7 7. Paper VIII: The nature of Chinese Traditional Society.
Week 5 to week 8	NA	1. HISACOR01T: Early Indian Notions of History. 2. HISACOR02T: Mesopotamian Society. 3. HISHGEC01T: Sixteen Mahajanapadas. 4. Paper IV: The Formation of Early Modern State. 5. Paper III: Battle of Buxar and the Grant of Diwani. 6. Paper V: Commercialization of agriculture. 7. Paper VIII: The Chinese Social Structure: The Peasantry and the Gentry class.
Week 9 to Week 12	NA	1. HISACOR01T: Historical Interpretations of Gender, Environment. 2. HISACOR02T: Mesopotamian Economy. 3. HISHGEC01T: Territorial States and The Rise of the Magadha. 4. Paper III: The Colonial Governance and British Parliamentary Acts. 5. Paper IV: King's Officer's, a new Army, Taxation. 6. Paper V: Peasants and landless labour. 7. Paper VIII: The Chinese Government and Bureaucracy.
Week 13	NA	1. HISACOR01T: Technology and regions 2. HISACOR02T: Mesopotamian Polity. 3. HISHGEC01T: Causes of Maghadha's Success. 4. Paper III: Orientalism, Utilitarianism and the Classical Political thought. 5. Paper V: Tribal Dimension. 6. Paper IV: Germany and Habsburgs. 7. Paper VIII: The Central Control on the Chinese Administration.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR01T: Sixteen Mahajanapadas and Magadhan Imperialism. 2. HISACOR02T: Mesopotamian Religion. 3. HISHGEC02T: Magadhan Imperialism from Bimbisara to Mahapadmananda.

		4. Paper III: Economy and Society under Company Rule. 5. Paper V: Ideologies of the British Raj. 6. Paper IV: The Empire of Charles V and the Making of Absolutism. 7. Paper VIII: China's Pre-modern Economy.
Week 18	Revision, Practise	Revision

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Teaching Plan for Odd Semester,
UG course (CBCS & Old B.A. 1+1+1)
Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 1 & B.A. Part-II & III (old).
Name of the Teacher: Smt. Sumati Majumdar.
Subject: History
Paper: CC-1, CC-2, GE-1, Paper III, V, VIII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR01T: The Advent of Food Production. 2. HISACOR02T: Polis in ancient Greece. 3. HISHGEC01T: The Vedic Period: Polity and Society. 4. Paper III: Mughal Historiography. 5. Paper V: Communal Politics and Partition. 6. Paper VI: The Vienna Congress. 7. Paper VII: The world after 1945: Origins of the Cold War and the division of Europe.
Week 5 to week 8	NA	1. HISACOR01T: Neolithic cultures. 2. HISACOR02T: Athens. 3. HISHGEC01T: The Vedic Period: Economy and Religion. 4. Paper III: Growth of Mughal Power till Akbar. 5. Paper V: Hindu Fundamentalism and Muslim Separatism. 6. Paper VI: Metternich and Conservative Order in Europe. 7. Paper VII: The decline of European imperialism: Decolonisation, the emergence of the Third World.
Week 9 to Week 12	NA	1. HISACOR01T: The Chalcolithic Cultures. 2. HISACOR02T: Sparta. 3. HISHGEC01T: Iron Age and PGW. 4. Paper III: Rural Economy and Society of the Mughals. 5. Paper V: Demand For Pakistan and Responses. 6. Paper VI: Liberalism and Nationalism. 7. Paper VII: alternatives of the cold war and the Non-aligned Movement.

Week 13	NA	1. HISACOR01T: Subsistence Economy. 2. HISACOR02T: Nomadic Groups in Central and West Asia. 3. HISHGEC01T: Megaliths. 4. Paper III: Urban Centres of the Mughals. 5. Paper V: British Policy, Partition and Independence. 6. Paper VI: The Revolution of 1848 AD. 7. Paper VII: Regional theatres of the cold war: Korea, Vietnam, Cuba and Middle-East.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR01T: Pattern's of Exchange. 2. HISACOR02T: Debate on the Advent of Iron and Its Implications. 3. HISHGEC02T: Iranian and Macedonian Invasions. 4. Paper III: Trade and Markets. 5. Paper V: Partition, Migration and Rehabilitation. 6. Paper VI: Collapse of the Revolution of 1848 AD. 7. Paper VII: The Communist Revolution and Emergence of China in world politics.
Week 18	Revision, Practise	Revision

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UG course (CBCS & Old B.A. 1+1+1)
Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 1 & B.A. Part-II & III (old).
Name of the Teacher: Dr. Eeshita Chatterjee.
Subject: History
Paper: CC-1, CC-2, GE-1, Paper III, IV, V, VIII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR01T: Harappan Civilization: Origin. 2. HISACOR02T: Food Production (Neolithic). 3. HISHGEC01T: Harappan Civilization: Origin and Extent. 4. Paper III: Mughal: Language and Literatures. 5. Paper IV: Age of Discovery. 6. Paper V: Background of the Revolt of 1857 AD. 7. Paper VIII: Japan: Pre-Restoration Period.
Week 5 to week 8	NA	1. HISACOR01T: Harappan Civilization: Settlement Patterns and Town Planning. 2. HISACOR02T: Beginning of Agriculture. 3. HISHGEC01T: Features of Harappan Civilization. 4. Paper III: Mughal: Art and Architecture.

		5. Paper IV: Printing Revolution, Warfare and Military Revolution. 6. Paper V: The Revolt of 1857 AD.: Causes. 7. Paper VIII: The Shogunate, the Feudal Society and government. .
Week 9 to Week 12	NA	1. HISACOR01T: Harappan Agrarian Base, Craft and Trade. 2. HISACOR02T: Animal Husbandry. 3. HISHGEC01T: Decline of the Harappan Civilization. 4. Paper III: Religion and Culture: Sufism. 5. Paper IV: Origin of Modern Science. 6. Paper V: Revolt of 1857 AD.: Course. 7. Paper VIII: The Perry Mission.
Week 13	NA	1. HISACOR01T: Social and Political Organisation of the Harappan Civilization. 2. HISACOR02T: Greek Culture: Philosophy and Philosophers. 3. HISHGEC01T: Jainism: Doctrines, Decline and contribution. 4. Paper III: Vaishnava Bhakti and its regional variants. 5. Paper IV: Voyages to Asia. 6. Paper V: Revolt of 1857 AD.: Nature. 7. Paper VIII: The Meiji Restoration.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR01T: Harappan Religion, Art and Urban Decline. 2. HISACOR02T: Greek Drama and Religion. 3. HISHGEC02T: Buddhism: Doctrines, Decline and contribution. 4. Paper III: Sants and Their Cults. 5. Paper IV: Economic Expansion of Europe. 6. Paper V: Revolt of 1857 AD.: Consequences. 7. Paper VIII: Meiji-Its Nature and Character.
Week 18	Revision, Practise	Revision

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Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 1 & B.A. Part-II & III (old).
Name of the Teacher: Smt. Swati Sen.
Subject: History
Paper: CC-1, CC-2, GE-1, Paper III, IV, V, VI.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR01T: Palaeolithic Cultures. 2. HISACOR02T: Evolution of Human Kind of the Ancient World. 3. HISHGEC01T: Palaeolithic Cultures. 4. Paper III: The Decline of the Mughal Empire: Causes.

		5. Paper IV: Fall of Constantinople. 6. Paper V: Emergence of Gandhi. 7. Paper VI: The Idea of Europe and 18th Century Society.
Week 5 to week 8	NA	1. HISACOR01T: Stone Industries and other Technological Developments. 2. HISACOR02T: Palaeolithic Cultures, Features, Technology Rock Art. 3. HISHGEC01T: Mesolithic Cultures. 4. Paper III: Mughal Empire: Nature of the Crisis. 5. Paper IV: Islamic Invasion of Southern Europe. 6. Paper V: Rowlatt Act and Rowlatt Satyagraha. 7. Paper VI: 18th Century-Economy and politics.
Week 9 to Week 12	NA	1. HISACOR01T: Mesolithic Cultures: Regional and Chronological Distributions, New Developments in Technology, Economy. 2. HISACOR02T: Neolithic Cultures. 3. HISHGEC01T: Decline of the Harappan Civilization. 4. Paper III: Rise of Regional Successors states. 5. Paper IV: The Crisis of the Empire and Its Impact on Medieval Kingship. 6. Paper V: Khilaphat and Non-Cooperation Movement. 7. Paper VI: The Age Enlightenment.
Week 13	NA	1. HISACOR01T: Rock Art. 2. HISACOR02T: Dating Methods. 3. HISHGEC01T: Sangam Literatures. 4. Paper III: Bengal under the Mughal Empire. 5. Paper IV: Relationship between Empire and National Monarchy: England and France. 6. Paper V: Simon Commission. 7. Paper VI: The Role of Philosophers.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR01T: Sangam Age 2. HISACOR02T: Palaeolithic and Mesolithic Religion 3. HISHGEC02T: Sangam Society and the Tamil Language.. 4. Paper III: Awadh and Hyderabad under the Mughal Empire. 5. Paper IV: Crisis of Feudalism and Collapse in West Europe and its Survival in Eastern Europe. 6. Paper V: Nehru Report and Round Table Conference. 7. Paper VI: The Trends in French Revolution: Aristocratic Revolt Bourgeoisie and Peasants, Constituent Assembly.
Week 18	Revision, Practise	Revision

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UG course (CBCS & Old B.A. 1+1+1)
Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 2& B.A. Part-II & III (old).
Name of the Teacher: Dr. Ratan Kumar Biswas.
Subject: History
Paper: CC-3, CC-4, GE-2, Paper III, IV, V, VIII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR03T: Economy and Society (circa 300 BCE to circa CE 300): (a) Expansion of agrarian economy: production relations. 2. HISACOR04T: Roman Republic, Principate and Empire. 3. HISHGEC02T: The Rise & Growth of the Guptas. 4. Paper III: Patterns of Regional Polity. 5. Paper IV: The making of Absolutism – England. 6. Paper V: Historiography of Indian nationalism. 7. Paper VIII: Colonial penetration and Chinese response: the tribute system, the canton system and their collapse- the opium wars and the treaty system – Rebellion in China and the White Lotus Society as a prototype – the Taiping rebellion – the Boxer rebellion.
Week 5 to week 8	NA	1. HISACOR03T: Urban growth: north India, central India and the Deccan. 2. HISACOR04T: Slave society in ancient Rome. 3. HISHGEC02T: Gupta Administration. 4. Paper III: The Rise of the Marathas-Shivaji. 5. Paper IV: The economic expansion of Europe in the 17th century- the agricultural revolution. 6. Paper V: The founding of the Indian National Congress. 7. Paper VIII: Reform Movement of 1898–Dynastic reform and the Republican Revolution of 1911.
Week 9 to Week 12	NA	1. HISACOR03T: Craft Production: trade and trade routes; coinage. 2. HISACOR04T: Agrarian economy of Rome. 3. HISHGEC02T: Territorial States and The Rise of the Magadha. 4. Paper III: Mughal-Maratha conflict. 5. Paper IV: commercial expansion; overseas merchant trading corporations – banking–the emergence of Europe as the centre of world system. 6. Paper V: The early Congress; the rise of Extremism; Partition of Bengal and the Swadeshi movement. 7. Paper VIII: The rise of the Kuomintang – Warlordism – the May Fourth Movement – the Rise of the Communist Party – the Kuomintang-Communist conflict – the People's Republic of China and the establishment of the new order..

Week 13	NA	1. HISACOR03T: Social stratification: class, varna, jati, untouchability. 2. HISACOR04T: Urbanization in Rome. 3. HISHGEC02T: Society, Economy in the Gupta Age. 4. Paper III: The Peshwas. 5. Paper IV: Peace of Westphalia and the emergence of modern European state system. 6. Paper V: Trends in Muslim politics: Aligarh movement. 7. Paper VIII: Economic development and industrialization.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR03T: Gender; marriage and property Relations. 2. HISACOR04T: Roman Trade. 3. HISHGEC02T: Religion and Art, Literatures, Science &Technology in the Age of the Guptas. 4. Paper III: The origins and growth of Sikh power. 5. Paper IV: The Crisis of Absolutism – England in the 17th century – Civil War- the ideas of John Locke. 6. Paper V: Muslim League, Separate electorates and Lucknow pact. 7. Paper VIII: Growth and change of China's foreign trade- compradors and Chinese capital–early industrialization
Week 18	Revision, Practise	Revision

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Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 2 & B.A. Part-II & III (old).
Name of the Teacher: Smt. Sumati Majumdar.
Subject: History
Paper: CC-3, CC-4, GE-2, Paper III, IV, V, VII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR03T: Towards early medieval India (circa CE fourth century to CE 750): Agrarian expansion. 2. HISACOR04T: Societies in Central Islamic Lands. 3. HISHGEC02T: Arabs in Sindh. 4. Paper III: Rural economy and society: (a) Environmental context; agricultural zones. 5. Paper V: Framing of the Indian constitution and establishment of parliamentary democracy. 6. Paper VI: Unification of Italy and Germany.

		7. Paper VII: From Bi-polarism to Uni-polarism: Politics of détente – end of the Cold War.
Week 5 to week 8	NA	1. HISACOR03T: Land grants, changing production relations; graded Land rights and peasantry. 2. HISACOR04T: The tribal background, ummah, Caliphal state. 3. HISHGEC02T: Polity of Arabs. 4. Paper III: Agricultural production; agricultural technology and crop patterns; management of water resources. 5. Paper V: Making of Indian foreign policy: Non-alignment and the Third World. 6. Paper VI: Industrialisation of Europe: Difference in the industrialisation process between England and the continent 7. Paper VII: German Reunification – Globalization and its impact.
Week 9 to Week 12	NA	1. HISACOR03T: The problem of urban decline. 2. HISACOR04T: Rise of Sultanates. 3. HISHGEC02T: Religion and Society of Arabs. 4. Paper III: Agrarian structure; revenue system; Zamindars, land ownership and land rights; village community and the peasantry. 5. Paper V: The model of planned economy. Social and political movements. 6. Paper VI: Europe in 1871: the Third Republic. 7. Paper VII: American Uni-polarism and its significance for international politics.
Week 13	NA	1. HISACOR03T: Patterns of trade. 2. HISACOR04T: Religious developments: the origins of shariah, Mihna, Sufism. 3. HISHGEC02T: Struggle for power in Northern India. 4. Paper III: Urban centres; morphology of cities – a survey; administration of cities and towns. Urban economy: crafts, manufactures, karkhanas. 5. Paper V: Beginning of the Green revolution. 6. Paper VI: European imperialism. 7. Paper VII: Rise of terrorism and the challenge to international security.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR03T: Currency, and urban Settlements. 2. HISACOR04T: Urbanization and trade. 3. HISHGEC02T: Establishment of Sultanate. 4. Paper III: (c) Urban social structure: merchants, bankers, artisans, craftsmen and labourers. (d) Trade routes and the framework of internal commerce – Indian Ocean trade network in the 17th century. (e) Markets and the monetary system. 5. Paper V: (b) Fragmentation of Indian Politics–rise of regional parties (c) India's role in the Bangladesh Crisis 6. Paper VI: The impact of the War on old order. 7. Paper VII: India and her neighbours: Indo-China relations–Indo-Myanmar relations–Indo- Bangladesh relations–Indo-Pakistan relation
Week 18	Revision, Practise	Revision

GOVERNMENT OF WEST BENGAL,
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Teaching Plan for Even Semester,
UG course (CBCS & Old B.A. 1+1+1)
Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 2 & B.A. Part-II & III (old).
Name of the Teacher: Dr. Eeshita Chatterjee.
Subject: History
Paper: CC-3, CC-4, GE-2, Paper III, IV, V, VIII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR03T: Changing political formations (circa 300 BCE to circa CE 300). 2. HISACOR04T: Religion medieval Europe. 3. HISHGEC02T: Evolution of Political structures of Rashtakutas. 4. Paper III: Indian responses to the West. 5. Paper IV: Renaissance in Europe. 6. Paper V: Revolutionaries and left movements. 7. Paper VIII: Abolition of feudalism and economic growth.
Week 5 to week 8	NA	1. HISACOR03T: The Mauryan Empire. 2. HISACOR04T:Culture in medieval Europe 3. HISHGEC02T: Evolution of Political structures of Palas. 4. Paper III: Rammohan. 5. Paper IV: Humanism in Europe. 6. Paper V: Trade union and Kisan Sabha agitations. 7. Paper VIII: Social and military reforms land settlement pattern of economic growth.
Week 9 to Week 12	NA	1. HISACOR03T: Post-Mauryan Polities with special reference to the Kushanas. 2. HISACOR04T: Role of Byzantine Emperors in Promoting Cultures in Medieval Europe. 3. HISHGEC02T: Evolution of Political structures of Pratiharas. 4. Paper III: Young Bengal and social regeneration. 5. Paper IV: Rediscovery of the classics – Humanism as a vocation – Humanism as a social ideology. 6. Paper V: Subhas Chandra Bose, INA trials and RIN mutiny. 7. Paper VIII: The role of state and private entrepreneurs.
Week 13	NA	1. HISACOR03T: Post-Mauryan Polities with special reference to the Satavahanas. 2. HISACOR04T: Monasteries in Medieval Europe. 3. HISHGEC02T: Administration. 4. Paper III: Social and religious movements in Bengal. 5. Paper IV: The restoration of the dignity of man – implications for education, art and architecture – reception of Humanism in northern Europe. 6. Paper V: Working of the provincial ministries. 7. Paper VIII: Foreign policy after Restoration–The Sino-Japanese War–Anglo-Japanese alliance.
Week13 to week 14		**Internal Exam**

Week 15 to 17	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. Paper III: Social and religious movements in other parts of India till 1857. 5. Paper IV: Scientific Revolution and the growth of scientific culture. 6. Paper V: Cripps Mission, Wavell Plan and Cabinet Mission. 7. Paper VIII: the Russo-Japanese War–Japan in the Pacific–the rise of militarism in the 1930s and1940s–Japan in the Second World War.
Week 18	Revision, Practise	Revision

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UG course (CBCS & Old B.A. 1+1+1)
Department of History
Session (2018-19)

Class: B.A. in History under CBCS.
Semester: 2 & B.A. Part-II & III (old).
Name of the Teacher: Smt. Swati Sen.
Subject: History
Paper: CC-3, CC-4, GE-2, Paper IV, V, VII.

S. No	Practical Syllabus to be covered	Syllabus
Week 1 to week 4	NA	1. HISACOR03T: The nature of polities: the Gupta empire-Chandra Gupta I to Chandra Gupta II. 2. HISACOR04T: Economic developments in Europe from the 7th to the 14th centuries: Organization of production. 3. HISHGEC02T: Harsha & His Times: Harsha‘s Kingdom. 4. Paper IV: Economic Crisis and Commercial Decline in Europe in the 14th century. 5. Paper V: Civil Disobedience movement. 6. Paper VI: Girondins and Jacobins – the Reign of Terror. 7. Paper-VII: Peace settlements of 1919: its long-term consequences – the establishment of the Weimar Republic.
Week 5 to week 8	NA	1. HISACOR03T: Kumara Gupta, Skanda Gupta and latter rulers. 2. HISACOR04T: Economic developments in Europe from the 7th to the 14th centuries: towns and trade. 3. HISHGEC02T: Harsha‘s Administration. . 4. Paper IV: The urban decay and the epidemics. 5. Paper V: Quit India movement. 6. Paper VI: the rise and fall of the Jacobin Republic – the Thermidorian reaction and the Dictatory – Interpreting the French Revolution – Creation of a new political culture. 7. Paper-VII: Europe in the inter-war period: Consolidation and development of the power of the Soviet state – Rise of Fascism in Italy – League of Nations

Week 9 to Week 12	NA	1. HISACOR03T: Gupta Administration, Society, Culture and Religion. 2. HISACOR04T: Economic developments in Europe from the 7th to the 14th centuries: technological developments. 3. HISHGEC02T: Buddhism & Nalanda. 4. Paper IV: The urban decay and the epidemics. 5. Paper V: Role of social groups and classes. 6. Paper VI: Napoleon Bonaparte: the revolutionary legacy – the reorganization of France and the new elite – Napoleonic Empire and Europe. 7. Paper-VII: The Economic Depression – the rise of the Nazi power.
Week 13	NA	1. HISACOR03T: Decline of the Gupta Empire and Pallavas, Chalukyas, and Vardhanas. 2. HISACOR04T: Fall of feudalism. 3. HISHGEC02T: South India: Polity. 4. Paper IV: Agricultural revolution– emergence of capitalism in industry and agriculture. 5. Paper V: Impact of Quit India Movement. 6. Paper VI: Fall of Bonaparte – conflicting estimation of Napoleon's character and achievements. 7. Paper-VII: Germany's aggressive foreign policy.
Week13 to week 14		**Internal Exam**
Week 15 to 17	NA	1. HISACOR03T: A brief survey of Sanskrit, Pali, Prakrit and Tamil literature. Scientific and technical treatises. Art and architecture & forms and patronage; Mauryan, post-Mauryan, Gupta, post-Gupta. 2. HISACOR04T: Crisis of Feudalism. 3. HISHGEC02T: South India: Society, and Economy and Culture. 4. Paper IV: Reformation and problem of secular authority-Lutheranism, Calvinism, Reformation in the National contexts French religious wars. 5. Paper V: Ideological trends in the Congress. 6. Paper VI: The impact of the War on old order. 7. Paper-VII: The outbreak of the World War II and historians.
Week 18	Revision, Practise	Revision

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, UG course

Department of Political Science

Session (2018-19)

Class: B.A
Semester 1, Part-II (Hons. & Gen.) & III Name of the Teacher: Dr. Shahid Jamal Siddiqi (SJS)
Subject: Political Science
Paper:CC1, CC 2, GE 1,(CBCS) Paper- III(Gen), III &VII (1+1+1 System) (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-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module 3.** Constitution of India: Structure, Process, Behaviour **Paper-GE1(PLSHGEC01T)Introduction to Political Theory** (Module 2) **Paper III: Indian Government and Politics** (Unit-1**)** **Paper - VII: Indian Political Thought** (Unit-1) **Paper-III (Gen.): Government and Politics in India** (Unit-1)
Week 5 to week 8	**Paper-CC1**(**PLSACOR01T)**: **Understanding Political Theory** **Module 2**. Approaches to the study (Contd…) **Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module 3.** Constitution of India: Structure, Process, Behaviour (Contd… **)** **Paper-GE1(PLSHGEC01T)Introduction to Political Theory** (Module 2) Contd… **Paper III: Indian Government and Politics** (Unit-1**) Contd….** **Paper - VII: Indian Political Thought** (Unit-1) Contd….
Week 9 to Week12	**Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module 3.** Constitution of India: Structure, Process, Behaviour (Contd… **)** **Paper III: Indian Government and Politics** (Unit-2**)** **Paper - VII: Indian Political Thought** (Unit-2) **Paper-III (Gen.): Government and Politics in India** (Unit-2)
Week 13 to Week 14	**Internal Examination**
Week 15 to 17	**Paper III: Indian Government and Politics** (Unit-2**) Contd….** **Paper - VII: Indian Political Thought** (Unit-2) Contd…. **Paper-III (Gen.): Government and Politics in India** (Unit-3))
Week 18	**Revision**

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Teaching Plan for Odd Semester, UG course

Department of Political Science

Session (2018-19)

Class: B.A
Semester 1, Part-II & III **Name of the Teacher: Saibal Gupta (SG)**
Subject: Political Science
Paper:CC1, CC 2, GE 1,(CBCS) Paper- II {(Gen.) Unit:1-4} &VI (1+1+1 System) (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 3.** Models of Studying Political Theory **Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module 1.** Constitution of India(Article-wise) **Paper-GE1(PLSHGEC01T)Introduction to Political Theory** **Module 3.** Debates in Political Theory **Paper – II: Comparative Politics and Government (Unit-1)** **Paper - VI: Western Political Political Thought (Unit-1)**
Week 5 to week 8	**Paper-CC1(PLSACOR01T): Understanding Political Theory** **Module 3.** Models of Studying Political Theory ….Contd. **Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module 1.** Constitution of India(Article-wise) …… Contd. **Paper-GE1(PLSHGEC01T)Introduction to Political Theory** **Module 3.** Debates in Political Theory …….Contd. **Paper – II: Comparative Politics and Government (Unit-1) ……Contd.** **Paper - VI: Western Political Political Thought (Unit-1) …..Contd.**
Week 9 to Week12	**Paper-CC1(PLSACOR01T): Understanding Political Theory** **Module 3.** Models of Studying Political Theory ….Contd. **Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module 1.** Constitution of India(Article-wise) …… Contd. **Paper-GE1(PLSHGEC01T)Introduction to Political Theory** **Module 3.** Debates in Political Theory …….Contd. **Paper – II: Comparative Politics and Government (Unit-2)** **Paper - VI: Western Political Political Thought (Unit-2)**
Week 13 to Week 14	**Internal Examination**
Week 15 to 17	**Paper – II: Comparative Politics and Government (Unit-2) …Contd.** **Paper - VI: Western Political Political Thought (Unit-2) …Contd.** **Paper-II (Gen.) Comparative Politics and Government** (Unit-3)
Week 18	**Revision**

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

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Session (2018-19)

Class: B.A
Semester 1, Part-II & III Name of the Teacher: Tathagata Chakrabarti(TC)
Subject: Political Science
Paper:CC 2(CBCS), Paper- II {(Gen.) Unit:5} &V (1+1+1 System) (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** 2. Federalism **Paper – II: Comparative Politics and Government (Unit-1)** **Paper - V: International Relations and World Politics (Unit-1)**
Week 5 to week 8	**Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module** 2. Federalism ……Contd. **Paper – II: Comparative Politics and Government (Unit-1) …..Contd.** **Paper - V: International Relations and World Politics (Unit-1) …..Contd.**
Week 9 to Week12	**Paper-CC 2 (PLSACOR02T): Constitutional Government and Democracy in India** **Module** 2. Federalism …..Contd. **Paper – II: Comparative Politics and Government (Unit-1)….. Contd** **Paper - V: International Relations and World Politics (Unit-2)**
Week 13 to Week 14	**Internal Examination**
Week 15 to Week 17	**Paper - V: International Relations and World Politics (Unit-2) ….. Contd.**
Week 18	**Revision**

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, UGcourse

Department of Political Science

Session (2018-19)

Class: B.A
Semester 1, Part-II (Hons. & Gen.) & III Name of the Teacher: Deeplekha Sengupta Dasgupta(DS)
Subject: Political Science
Paper:CC1, GE 1(CBCS), Paper- III (Gen.), IV &VIII (1+1+1 System) (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-GE1(PLSHGEC01T)Introduction to Political TheoryModule - 1** **Paper IV: Comparative Govt. & Politics (**Unit-1) **Paper: VIII: Public Administration & Management** (Unit-1)
Week 5 to week 8	**Paper-CC1(PLSACOR01T): Understanding Political Theory** **Module -1 …. Contd.** **Paper-GE1(PLSHGEC01T): Introduction to Political Theory Module– 1…..Contd.** **Paper IV: Comparative Govt. & Politics** (Unit-1)….. Contd. **Paper: VIII: Public Administration & Management** (Unit-1)…..Contd.
Week 9 to Week 12	**Paper IV: Comparative Govt. & Politics** (Unit-2) **Paper: VIII: Public Administration & Management** (Unit-2) **Paper-III (Gen.): Government and Politics in India** (Unit-4)
Week 13 to Week 14	**Internal Examination**
Week 15 to 17	**Paper IV: Comparative Govt. & Politics** (Unit-3) **Paper: VIII: Public Administration & Management** (Unit-3) **Paper-III (Gen.): Government and Politics in India** (Unit-5)
Week 18	**Revision**

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

Teaching Plan for Even Semester, UG course

Department of Political Science

Session (2018 -19)

Class: B.A
Semester 2, Part- II & III Name of the Teacher: Dr. Shahid Jamal Siddiqi (SJS)
Subject: Political Science
Paper : CC3, GE2 (CBCS) Paper-III& VII (1+1+1 System) (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 – 1.** Core political concepts **Paper-GE2-(PLSHGEC02T): Indian Government and Politics** **Module-2.** Constitution of India (Article Wise) **Paper III: Indian Government and Politics** (Unit-3**)** **Paper - VII: Indian Political Thought** (Unit-3)
Week 5 to week 8	**Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates** **Module – 1.** Core political concepts (Contd…) **Paper-GE2-(PLSHGEC02T): Indian Government and Politics** **Module-2.** Constitution of India (Article Wise) Contd…. **Paper III: Indian Government and Politics** (Unit-3**) Contd….** **Paper - VII: Indian Political Thought** (Unit-3) Contd….
Week 9 to Week 12	**Paper III: Indian Government and Politics** (Unit-4&5**)** **Paper - VII: Indian Political Thought** (Unit-4)
Week 13 to Week 14	**Internal Examination**
Week 15 to 17	**Paper III: Indian Government and Politics** (Unit-5**) Contd…** **Paper - VII: Indian Political Thought** (Unit-5)
Week 18	**Revision**

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

Teaching Plan for Even Semester, UG course

Department of Political Science

Session (2018 -19)

Class: B.A
Semester 2, Part- II & III **Name of the Teacher: Saibal Gupta (SG)**
Subject: Political Science
Paper: CC3, CC 4, GE 2CBCS) Paper- II {(Gen.) Unit:1-4} & VI (1+1+1 System) (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 – 2.** Core Concepts and Debates **Paper-CC4 (PLSACOR04T): Political Process in India** **Module 3**.The concerns **Paper-GE2-(PLSHGEC02T): Indian Government and Politics** **Module-1**. Evaluation **Paper – II: Comparative Politics and Government (Unit-3)** **Paper - VI: Western Political Political Thought (Unit-3)**
Week 5 to week 8	**Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates** **Module – 2.** Core Concepts and Debates …Contd. **Paper-CC4 (PLSACOR04T): Political Process in India** **Module 3**.The concerns ……..Contd. **Paper-GE2-(PLSHGEC02T): Indian Government and Politics** **Module-1** . Evaluation……Contd. **Paper – II: Comparative Politics and Government (Unit-3) …Contd.** **Paper - VI: Western Political Political Thought (Unit-3) …Contd.**
Week 9 to Week 12	**Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates** **Module – 2.** Core Concepts and Debates …Contd. **Paper – II: Comparative Politics and Government (Unit-4)** **Paper - VI: Western Political Political Thought (Unit-4)**
Week 13 to Week 14	**Internal Examination**
Week 15 to 17	**Paper - VI: Western Political Political Thought (Unit-5)**
Week 18	**Revision**

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

Teaching Plan for Even Semester, UG course

Department of Political Science

Session (2018 -19)

Class: B.A
Semester 2, Part- II & III Name of the Teacher: Tathagata Chakrabarti (TC)
Subject: Political Science
Paper: CC3, CC 4, GE 2,(CBCS) Paper- V (1+1+1 System) (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-CC4 (PLSACOR04T): Political Process in India** **Module – 1.** Structure and process of the election system **Paper-GE2-(PLSHGEC02T): Indian Government and Politics** **Module-III.** Constitution of India **Paper - V: International Relations and World Politics (Unit-3)**
Week 5 to week 8	**Paper-CC3 (PLSACOR03T): Political Theory-Concepts and Debates** **Module – 3.** Theories of State **…….Contd.** **Paper-CC4 (PLSACOR04T): Political Process in India** **Module – 1.** Structure and process of the election system….. Contd. **Paper-GE2-(PLSHGEC02T): Indian Government and Politics** **Module-III.** Constitution of India ……Contd. **Paper - V: International Relations and World Politics (Unit-3)….Contd.**
Week 9 to Week 12	**Paper-CC4 (PLSACOR04T): Political Process in India** **Module – 1.** Structure and process of the election system….. Contd. **Paper - V: International Relations and World Politics (Unit-4)**
Week 13 to Week 14	**Internal Examination**
Week 15 to Week 17	**Paper - V: International Relations and World Politics (Unit-5)**
Week 18	**Revision**

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

Teaching Plan for Even Semester, UG course

Department of Political Science

Session (2018 -19)

Class: B.A
Semester 2, Part- II & III Name of the Teacher: Deeplekha Sengupta Dasgupta (DS)
Subject: Political Science
Paper :CC4 (CBCS) Paper-IV & VIII (1+1+1 System) (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 2.**Issues in contemporary politics **Paper IV: Comparative Govt. & Politics** (Unit-3).....Contd. **Paper: VIII: Public Administration & Management** (Unit-3)… Contd.
Week 5 to week 8	**Paper CC4 (PLSACOR04T)- Political Process in India** **Module 2**.Issues in contemporary politics .....Contd. **Paper IV: Comparative Govt. & Politics** (Unit-4) **Paper: VIII: Public Administration & Management** (Unit-4)
Week 9 to Week 12	**Paper IV: Comparative Govt. & Politics** (Unit-4).....Contd. **Paper: VIII: Public Administration & Management** (Unit-4) ….Contd.
Week 13 to Week 14	**Internal Examination**
Week 15 to 17	**Paper IV: Comparative Govt. & Politics** (Unit-5) **Paper: VIII: Public Administration & Management** (Unit-5)
Week 18	**Revision**

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

Teaching Plan for Odd Semester, UG course

Department of Education

Session (2018-2019)

Class: B.A.
Semester I (Under CBCS) **Name of the Teacher: Shoumyasree Sen**
Subject: Education
Paper: CC-1, CC-2, GE-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 week 4	Paper A: Paper B: NONE Paper C:	**SEM-1: Educational Philosophy** / **EDCACOR01T** *Unit 1: Concept and scope of education, concept of modern education w.r.t. Delor's Commission, child centricism, informal, formal, non-formal and open education, Functions of education – individual and social development, Human Resource Development* **SEM-1: Educational Psychology/EDCACOR02T** *Unit 4: Psychology of learning* *Learning – concept and scope, Factors influencing learning – attention, maturation, motivation and emotion (concept only)* **SEM-I: Philosophical Foundation of Education** / **EDCHGE01T** *Unit 3: R. N. Tagore*
Week 4 to week 8	Paper A: Paper B: NONE Paper C:	**SEM-I: Educational Philosophy / EDCACOR01T** *Unit 2: Philosophical bases of educational aims, knowledge, curriculum, methods of teaching, teacher and discipline.* *Indian philosophical thoughts and their influence on education – Sankhya, Yoga.* **SEM-1: Educational Psychology/ EDCACOR02T** *Unit 4: Theories of learning: Pavlov, Skinner, Bandura* **SEM-1: Philosophical Foundation of Education/ EDCHGE01T** *Unit 3: R. N. Tagore*
Week 8 to Week 12	Paper A: Paper B: NONE Paper C:	**SEM-1: Educational Philosophy/ EDCACOR01T** *Unit 2: Indian philosophical thoughts and their influence on education – Jainism, Buddhism and Islamic.* **SEM-1: Educational Psychology/ EDCACOR02T** *Unit 4: Theories of learning: Bandura, Vygotsky* **SEM-1**: **Philosophical Foundation of Education** / **EDCHGE01T** *Unit 3: R. N. Tagore, F.W.A. Froebel*
Week 13	Paper A: Paper B: NONE Paper C:	**SEM-1**: **Educational Philosophy/ EDCACOR01T** **Unit 4:** *Great Educators- Rabindranath Tagore* **SEM-1: Educational Psychology/EDCACOR02T** *Unit 4: Theories of learning: Vygotsky* **SEM-1: Philosophical Foundation of Education/ EDCHGE01T** *Unit 3: F.W.A. Froebel*
Week13 to week 14		**Internal Exam**
Week 15 to Week 17	Paper A: Paper B: NONE Paper C:	**SEM-1: Educational Philosophy/ EDCACOR01T** *Unit 4: Great Educators- Swami Vivekananda* **SEM-1**: **Educational Psychology/EDCACOR02T** *Unit 4: Theories of learning: Vygotsky* **SEM-1**: **Philosophical Foundation of Education/ EDCHGE01** *Unit 3: F.W.A. Froebel*
Week 18	Revision, Practise	**Revision**

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

Teaching Plan for Even Semester, UG course

Department of Education

Session (2018-2019)

Class: B.A.
Semester II (Under CBCS) **Name of the Teacher: Shoumyasree Sen**
Subject: Education
Paper: CC-3, CC- 4, GE-2 **(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	Paper A: Paper B: NONE Paper C:	**SEM-II: Educational Sociology/ EDCACOR03T** *Unit 2: Concept, interrelationship between education and culture, importance of folk culture in education* **SEM-II: Pedagogy/ EDCACOR04T** *Unit 1: Introduction to Pedagogy-Concept, Scope Bases, Models of Pedagogy* **SEM-II: Psychological Foundation of Education /GE-2** *Unit 3: Attention- Concept & nature*
Week 4 to week 8	Paper A: Paper B: NONE Paper C:	**SEM-II**: **Educational Sociology/ EDCACOR03T** *Unit 2: Importance of folk culture in education, The concept of ' Unity in Diversity, Cultural lag* **SEM-II: Pedagogy/ EDCACOR04T** *Unit 1: Models of Pedagogy, Pedagogy vs Andragogy.* **SEM-II: Psychological Foundation of Education /GE-2** Unit 3: *Attention- Determinants*
Week 8 to Week 12	Paper A: Paper B: NONE Paper C:	**SEM-II**: **Educational Sociology/ EDCACOR03T** *Unit 2: The concept of Cultural conflict, acculturation, National Integration* **SEM-II: Pedagogy/ EDCACOR04T** *Unit 3: Teaching –– Learning of 3 R's, Verbal conditioning* **SEM-II: Psychological Foundation of Education /GE-2** *Unit 3: Memory- Concept, process of memorization*
Week 13	Paper A: Paper B: NONE Paper C:	**SEM-II: Educational Sociology/ EDCACOR03T** *Unit 2: International Understanding* **SEM-II: Pedagogy/ EDCACOR04T** *Unit 3: Teaching – learning of Psychomotor skill* **SEM-II: Psychological Foundation of Education /GE-2** *Unit 3: Memory- process of memorization*
Week13 to week 14		**Internal Exam**
Week 15 to Week 17	Paper A: Paper B: NONE Paper C:	**SEM-II**: **Educational Sociology/ EDCACOR03T** *Unit 2: International Understanding* **SEM-II: Pedagogy/ EDCACOR04T** *Unit 3: Teaching – learning of Psychomotor skill* **SEM-II: Psychological Foundation of Education (GE-2)** *Unit 3: Memory- causes of forgetting*
Week 18	Revision, Practise	**Revision**

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

Teaching Plan for Old System UG course

Department of Education

Session (2018-2019)

Class: B.A.
Year: 3 & 2 (Under Old Syllabus 1+1+1) **Name of the Teacher: Shoumyasree Sen**
Subject: Education
Paper: Paper-5, Group B, Paper-6, Group B, Paper 4, Group B **(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)
July-Oct	Paper A: Paper B: NONE Paper C:	**YEAR 3: Paper 5, Group B: Curriculum Studies** *Unit 1: Introduction of Curriculum- Concept, Meaning, Nature, Scope, Functions, Types, Basic Sources, Syllabus & Content* *Unit 2: Curriculum Content & Curriculum Organization- Aims & Objectives of Curriculum -Needs, Areas, Bloom's Taxonomy* **YEAR 3: Paper 6, Group B: Special Education** *Unit 1: Introduction to Special Education, Meaning, Definition, Nature, Objectives, Characteristics, Provisions of Alternative Programmes, Inclusive Education]* *Unit 2: Development & Organization of Special Education in pre & post independent India* **YEAR 2: Paper 4, Group B: Educational Management** *Unit 1: Educational management- concept, nature, need, scope & types, Supervision & Inspection* *Unit 2: Leadership in management- concept, scope, significance, characteristics, Theories of Management, TQM*
Nov-Feb	Paper A: Paper B: NONE Paper C:	**YEAR 3: Paper 5, Group B: Curriculum Studies** *Unit 3: Development of Curriculum -Principles, Stages, Factors, Concept & Development of Text Book, SIM, UGC Model / CBCS* *Unit 4: Curriculum Evaluation -Meaning, Purposes, Approaches, Strategies, Quantitative & Qualitative Model* **YEAR 3: Paper 6, Group B: Special Education** *Unit 3: Gifted & Slow Learners -Definition, Classification, Identification, Needs, Problems, Educational Supports* *Unit 4: Visual & Auditory Impairment, Mental Retardation & Autism, Juvenile Delinquents* **YEAR 2: Paper 4, Group B: Educational Management** *Unit 3: Agencies of & Hierarchy in Educational Management* *Unit 4: Planning & Management- Concept, Need, Types, MIS, Resource Management in Educational Institutions*
Mar-April	Revision, Practise	**Revision**
		Test Exam
	Mid Term Exam	
Mar-April	Revision, Practise	**Revision**
		Test Exam

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

Teaching Plan for Odd Semester, UG course

Department of Education

Class: B.A.
Semester I (Under CBCS) **Name of the Teacher: Purnendu Acharya**
Subject: Education
Paper allotment: None

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

Teaching Plan for Even Semester, UG course

Department of Education

Class: B.A.
Semester II (Under CBCS) **Name of the Teacher: Purnendu Acharya**
Subject: Education
Paper: CC-3, CC- 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	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 1: Educational sociology – concept, scope **SEM II: Pedagogy/ EDCACOR04T** Unit 4: Teaching – learning of principles
Week 4 to week 8	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 1: Relationship between education and sociology **SEM II: Pedagogy/ EDCACOR04T** Unit 4: Teaching – learning of concepts
Week 8 to Week 12	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 1: Education as a social process – social system, socialization **SEM II: Pedagogy/ EDCACOR04T** Unit 4: Teaching – learning of problem-solving
Week 13	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 1: social groups (primary, secondary, tertiary) **SEM II: Pedagogy/ EDCACOR04T** Unit 4: Teaching – learning of knowledge construction
Week 13 to week 14		**Internal Exam**
Week 15 to Week 17	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 1: social mobility. **SEM II: Pedagogy/ EDCACOR04T** Unit 4: Teaching – learning of knowledge construction
Week 18	Revision, Practise	**Revision**

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

Teaching Plan for Old System UG course

Department of Education

Session (2018-2019)

Class: B.A.
Year: 3 & 2 (Under Old Syllabus 1+1+1) **Name of the Teacher: Purnendu Acharya**
Subject: Education
Paper: Paper-3, Group A, Paper-6, Group A **(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)

July-Oct	Paper A: Paper B: NIL Paper C:	**YEAR 2: Paper-3, Group A: Development of Educational Policies** Unit 1, Development of Education in Ancient & Medieval India Unit 2, Charter Act 1813, Wood's Despatch **YEAR 3: Paper-6, Group A: Educational Guidance & Counselling** Unit 1, Guidance & Counselling –Meaning, Definition, Scope, Need, Importance, Types, Stages & Approaches Unit 2, Adjustment & Maladjustment [Concept, Definition, Need, Scope, Types, Characteristics, Identification, Defence Mechanism, Problem Behaviour & Mental Disorder & Support Services]
Nov-Feb	Paper A: Paper B: NIL Paper C:	**YEAR 2: Paper-3, Group A: Development of Educational Policies** Unit 2, Bengal Renaissance & the contribution of Rammohan, Vidyasagar & Derozio, Curzon policy, Calcutta University Commission [1917-19], Sargent Plan **YEAR 3: Paper-6, Group A: Educational Guidance & Counselling** Unit 3, Testing & Diagnosis Unit 4, Special Areas & Skills in Counselling
Mar-April	Revision, Practise	**Revision**
		Test Exam
	Mid Term Exam	
Mar-April	Revision, Practise	**Revision**
		Test Exam

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

Teaching Plan for Odd Semester, UG course

Department of Education

Session (2018-2019)

Class: B.A.
Semester I (Under CBCS) **Name of the Teacher: Priyanka Datta**
Subject: Education
Paper: CC-1, CC-2, GE-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 week 4	Paper A: Paper B: NIL Paper C:	**SEM I: Educational Philosophy/ EDCACOR01T** Unit 2: Idealism, Naturalism **SEM I: Educational Psychology/ EDCACOR02T** Unit 1: Introduction to educational psychology, relation between education and psychology, Introduction to neuro-physiological bases of human behaviour- structure and function of human brain **SEM I: Philosophical Foundation of Education/GE-I** Unit 2: Forms of Education
Week 4 to week 8	Paper A: Paper B: NIL Paper C:	**SEM I: Educational Philosophy/ EDCACOR01T** Unit 2: Naturalism, Pragmatism **SEM I: Educational Psychology/ EDCACOR02T** Unit 1: Neuron, synaptic transmission, endocrinal glands, sensation, perception Unit 3: Intelligence – concept and scope, Theories of intelligence – Guilford, Gardener **SEM I: Philosophical Foundation of Education/GE-I** Unit 2: Aims of Education

Week 8 to Week 12	Paper A: Paper B: NIL Paper C:	**SEM I: Educational Philosophy/ EDCACOR01T** Unit 2: Pragmatism and Existentialism **SEM I: Educational Psychology/ EDCACOR02T** Unit 3: Theories of intelligence –Sternberg, Creativity – concept, scope and characteristics of creative person **SEM I: Philosophical Foundation of Education/GE-I** Unit 2: Forms and aims of Education Unit 3: Values and Education-definition
Week 13	Paper A: Paper B: NIL Paper C:	**SEM I: Educational Philosophy/ EDCACOR01T** Unit 4: Bertrand Russell **SEM I: Educational Psychology/ EDCACOR02T** Unit 3: Relationship between intelligence, creativity and education **SEM I: Philosophical Foundation of Education/GE-I** Unit 3: Values and Education- characteristics
Week 13 to week 14		**Internal Exam**
Week 15 to Week 17	Paper A: Paper B: NIL Paper C:	**SEM I: Educational Philosophy/ EDCACOR01T** Unit 4: Bertrand Russell **SEM I: Educational Psychology/** EDCACOR02T Unit 3: Relationship between intelligence, creativity and education **SEM I: Philosophical Foundation of Education/GE-I** Unit-3: Values and Education- types
Week 18	Revision, Practise	**Revision**

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

Teaching Plan for Even Semester, UG course

Department of Education

Class: B.A.
Semester II (Under CBCS) **Name of the Teacher: Priyanka Datta**
Subject: Education
Paper: CC-3, CC- 4, GE-2 **(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	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 3: Social development in India – Sanskritization **SEM II: Pedagogy/ EDCACOR04T** Unit 2: Teaching – concept, scope, principles and functions **SEM II: Philosophical Foundation of Education/ GE-2** Unit 4: Personality and Education [concept]
Week 4 to week 8	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 3: Social development in India –Modernisation **SEM II: Pedagogy/ EDCACOR04T** Unit 2: Teaching as a process – input, process and output **SEM II: Philosophical Foundation of Education/ GE-2** Unit 4: Personality and Education [characteristics]
Week 8 to Week 12	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 3: Social development in India- Globalisation **SEM II: Pedagogy/ EDCACOR04T** Unit 2: Levels of teaching – autonomous, memory **SEM II: Philosophical Foundation of Education/ GE-2** Unit 4: Personality and Education [types]
Week 13	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 3: Education for sustainable development – concept, need, report of the Brundtland Commission **SEM II: Pedagogy/ EDCACOR04T** Unit 2: Levels of teaching- understanding **SEM II: Philosophical Foundation of Education/ GE-2** Unit 4: Psychoanalytic theory by Freud
Week 13 to week 14		**Internal Exam**
Week 15 to Week 17	Paper A: Paper B: NIL Paper C:	**SEM II: Educational Sociology / EDCACOR03T** Unit 3: Unit 3: Education for sustainable development – concept, need, report of the Brundtland Commission **SEM II: Pedagogy/ EDCACOR04T** Unit 2: Levels of teaching – reflective **SEM II: Philosophical Foundation of Education/ GE-2** Unit 4: Psychoanalytic theory by Freud
Week 18	Revision, Practise	**Revision**

Teaching Plan for Old System UG course

Department of Education

Session (2018-2019)

Class: B.A.
Year: 3 & 2 (Under Old Syllabus 1+1+1) **Name of the Teacher: Priyanka Datta**
Subject: Education
Paper: Paper-3, Group A, Paper-4, Group A, Paper 7, Group B **(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)

July-Oct	**Paper-8, Practical** Group A: Part 1- ICT Based Statistics Part 1I- Statistics Practical 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)	**YEAR 2: Paper-3, Group A: Development of Educational Policies** Unit 3: University Education Commission 1948-49, Secondary Education Commission 1952-53 **YEAR 2: Paper-4, Group A: Educational Technology** Unit 1: Educational Technology [Concept, Nature, Scope, Limitations & Approaches of educational technology] Unit 2: Communication [concepts, components, classification, barriers & 1 basic model] **YEAR 3: Paper-7, Group B: Statistics in Education** Unit 1: Statistics – Basic Concept, Scope, Score, Tabulation, Terminology & Uses in Psychology & Education Unit 2: Measures of Central tendency, Variability, Normal Probability Curve. Graphical Representation of Data
Nov-Feb	**Paper-8, Practical** Group A: Part 1I- Statistics Practical Determination of Central Tendency & Variability (Range, SD, QD), Graphical Representation of Data: Frequency Polygon, Ogive, Comparison between two sets of data: Correlation (only software calculation) – Rank difference and product moment. Group B**:** Part 2- Oral Presentation with PPT	**YEAR 2: Paper-3, Group A: Development of Educational Policies** Unit 3: Indian Education Commission1964-66 **YEAR 2: Paper-4, Group A: Educational Technology** Unit 3: Personalised & Mass Instructional Techniques Unit 4: Psychological uses in Modern Technologies of Education- Open & DE, e- learning, LCD projectors & it's uses, internet, CCTV, EDUSAT **YEAR 3: Paper-7, Group B: Statistics in Education** Unit 3: PP, PR, Correlation, Ogive, Chi Square Unit 4: Derived Scores-Concept, Types, Calculation & Uses [Standard Scores, Z Scores]
Mar-April	Revision, Practise	**Revision**
		Test Exam
	Mid Term Exam	
Mar-April	Revision, Practise	**Revision**
		Test Exam

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

Teaching Plan for Odd Semester, UG course

Department of Education

Session (July 2018- December 2018)

Name of the Teacher: Shikha Roy Class: B.A
Semester 1(CBCS), 2ND, 3RD year (old)
Subject: Education
Paper: CC1, CC2, GE1, Paper-3, Group A,B; Paper-5, Group A, Paper-7, Group A, Paper-8,Group B, Part 1 (Practical) (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)
Week1 toweek4	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper: EDCACOR01T / Core 01T: Educational Philosophy** Unit 3: National values & role of education **Paper: EDCACOR02T /Core 02T: Educational Psychology** Unit 2: Human development **Paper: DSC 1A (EDCGCOR01T) / GE 1(EDCHGE01T): Philosophical Foundation of Education**

		Unit-I: Concept, Scope and Factors of Education **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B**: **Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 1: Traditional Issues **Paper-5, Group A: Comparative Education** Unit 1, Concept, Scope, Importance, Functions & Factors of Comparative Education, Introduction about SAARC Countries **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 1, Evaluation & Measurement
Week4 to week8	**Paper-8, Practical, Group B**, **Part 1-Field Study**	**Paper: EDCACOR01T / Core 01T: Educational Philosophy** Unit 3: Values as enshrined in the Indian constitution **Paper: EDCACOR02T /Core 02T: Educational Psychology** Unit 2: Cognitive development **Paper: DSC 1A (EDCGCOR01T) / GE 1(EDCHGE01T): Philosophical Foundation of Education** Unit-I: Concept, Scope and Factors of Education **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B**: **Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 1: Traditional Issues **Paper-5, Group A: Comparative Education** Unit 1, Concept, Scope, Importance, Functions & Factors of Comparative Education, Introduction about SAARC Countries **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 1, Evaluation & Measurement
Week8 to Week12	**Paper-8, Practical, Group B, Part 1-Field Study**	**Paper EDCACOR01T / Core 01T: Educational Philosophy** Unit 3: Values as enshrined in the Indian constitution **Paper: EDCACOR02T /Core 02T: Educational Psychology** Unit 2: Moral development **Paper: DSC 1A (EDCGCOR01T) / GE 1(EDCHGE01T): Philosophical Foundation of Education** Unit-3: Values and Education (definition, characteristics types,) **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B**: **Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 1: Traditional Issues **Paper-5, Group A: Comparative Education**

		Unit 2, Salient Comparative Features of Indian Education with special reference to Bangladesh & Nepal [Primary, Secondary, Higher Education] **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 2, Tools of Evaluation
Week13	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper EDCACOR01T / Core 01T: Educational Philosophy** Unit 3: Educational provisions in the Indian constitution **Paper: EDCACOR02T /Core 02T: Educational Psychology** Unit 2: Psycho-social development **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B**: **Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 2: Social Issues **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 2, Tools of Evaluation
Week13toweek14		**Internal Exam**
Week15 to 17	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper EDCACOR01T / Core 01T: Educational Philosophy** Unit 4: Dewey **Paper: EDCACOR02T /Core 02T: Educational Psychology** Unit 2: Personality **Paper: DSC 1A (EDCGCOR01T) / GE 1(EDCHGE01T): Philosophical Foundation of Education** Unit-3: Values and Education (definition, characteristics types,) **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B**: **Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 2: Social Issues **Paper-5, Group A: Comparative Education** Unit 2, Salient Comparative Features of Indian Education with special reference to Bangladesh & Nepal [Primary, Secondary, Higher Education] **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 2, Tools of Evaluation
Week18	Revision, Practise	Revision

BIDHANNAGAR COLLEGE, GOVERNMENTOFWESTBENGAL, SALT LAKE, KOLKATA

Teaching Plan for even Semester, UG course

Department of Education

Session (January 2019- June 2019)

Name of the Teacher: Shikha Roy

Class: B.A

Semester 2 (CBCS), 2nd, 3rd year (old) Subject: Education

Paper: CC3, CC4, GE2, Paper-3, Group A,B; Paper-5, Group A, Paper-7, Group A, Paper-8,Group B, Part 1 (Practical) (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	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper: EDCACOR03T / Core 03T: Educational Sociology** Unit 4: Social issues and education **Paper: EDCACOR04T / Core 04: Pedagogy** 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 **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B: Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 2: Social Issues **Paper-5, Group A: Comparative Education** Unit 3, Salient Comparative Features of Indian Education with special reference to Bangladesh & Nepal [Educational Administration, Examination & Evaluation System] **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 3, Standardization of a Test
Week4 to week8	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper: EDCACOR03T / Core 03T: Educational Sociology** Unit 4: Education for poverty eradication **Paper: EDCACOR04T / Core 04: Pedagogy** Unit 3 Pedagogy of teaching – learning **Paper: DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T): Psychological Foundation of Education** Unit 2: Physical, Motor, Cognitive, Moral development and its significance in Education **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B: Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 3: Educational Issues **Paper-5, Group A: Comparative Education** Unit 3, Salient Comparative Features of Indian Education with special reference to Bangladesh & Nepal [Educational Administration, Examination & Evaluation System]

		Paper-7, Group A: Evaluation with Basic Research Concept Unit 3, Standardization of a Test
Week8 to Week12	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper: EDCACOR03T / Core 03T: Educational Sociology** Unit 4 : Inclusive education **Paper: EDCACOR04T / Core 04: Pedagogy** Unit 3 Pedagogy of teaching – learning **Paper: DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T): Psychological Foundation of Education** Unit 2: Physical, Motor, Cognitive, Moral development and its significance in Education **Paper-3, Group A: Development of Educational Policies** Unit 4: National Education Policy 1986, Mitra Commission 1992, DPEP & SSA [1990-2000] **Paper-3, Group B: Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 3: Educational Issues **Paper-5, Group A: Comparative Education** Unit 4, Salient Comparative Features of Indian Education with special reference to SAARC Countries [Vocational & Technical Education, Universal Elementary Education] **Paper-7, Group A: Evaluation with Basic Research Concept** Unit 4, Preliminary Concepts of Research Methodology
Week13	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper: EDCACOR03T / Core 03T: Educational Sociology** Unit 4: Child rights and abuses **Paper: EDCACOR04T / Core 04: Pedagogy** Unit 3 Pedagogy of teaching – learning **Paper: DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T): Psychological Foundation of Education** Unit 2: Physical, Motor, Cognitive, Moral development and its significance in Education **Paper-3, Group B: Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** 4: Current issues **Paper-5, Group A: Comparative Education** Unit 4, Salient Comparative Features of Indian Education with special reference to SAARC Countries [Vocational & Technical Education, Universal Elementary Education]
Week13toweek14		**Internal Exam**
Week15 to 17	**Paper-8, Practical, Group B, Part 1- Field Study**	**Paper: EDCACOR03T / Core 03T: Educational Sociology** Unit 4: Child rights and abuses **Paper: EDCACOR04T / Core 04: Pedagogy** Unit 3 Pedagogy of teaching – learning **Paper: DSC 1B (EDCGCOR01T) / GE 2(EDCHGE02T): Psychological Foundation of Education** Unit 2: Physical, Motor, Cognitive, Moral development and its significance in Education **Paper-3, Group B: Contemporary Issues in Indian Education: Probable Causes and Solutions [NPE 1986 onwards]** Unit 4: Current issues **Paper-5, Group A: Comparative Education** Unit 4, Salient Comparative Features of Indian Education with special reference to SAARC Countries [Vocational & Technical Education, Universal Elementary Education]

		Paper-7, Group A: Evaluation with Basic Research Concept Unit 4, Preliminary Concepts of Research Methodology
Week18	Revision, Practise	Revision

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

Teaching Plan for Odd Semester, UG course

Department of Mathematics

Session (2018-2019)

Class: B.Sc.

Semester 1, Part II, Part III **Name of the Teacher: Dr. Anup Sengupta**

Subject: Mathematics Core

Paper: MTMACOR02T**,** Paper III, Paper V, Paper VII**IA,** General Paper II.

S. No.	Theory syllabus to be covered	
Week 1 to Week 4	Sem 1	MTMACOR02T: Well-ordering property of positive integers, Division algorithm, Divisibility and Euclidean algorithm. Congruence relation between integers.
	Part II	Paper III: **Linear Algebra II** General Paper II : Probability And Statistics
	Part III	Paper V: **Real Analysis II**
Week 5 to Week 8	Sem 1	MTMACOR02T: Principles of Mathematical Induction, statement of Fundamental Theorem of Arithmetic.
	Part II	Paper III: **Function of Several Variables** General Paper II : Probability And Statistics
	Part III	Paper V: **Real Analysis II**
Week 9 to Week 12	Sem 1	MTMACOR02T: Matrix, inverse of a matrix, characterizations of invertible matrices. Rank of a matrix, Eigen values, Eigen Vectors and Characteristic Equation of a matrix.
	Part II	Paper III: **Function of Several Variables** General Paper II : Probability And Statistics
	Part III	Paper V: **Real Analysis II**
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 1	MTMACOR02T: Cayley-Hamilton theorem and its use in finding the inverse of a matrix.
	Part II	Paper III: **Application of Integral Calculus II** General Paper II : Probability And Statistics
	Part III	Paper V: **Metric Space**
Week 18	Sem 1	MTMACOR02T: Revision and practice.
	Part II	Paper III, General Paper II: Revision and practice.
	Part III	Paper V: Revision and Practice.

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

Teaching Plan for Odd Semester, UG course

Department of Mathematics

Session (2018-2019)

Class: B.Sc.

Semester 2, Part II, Part III **Name of the Teacher: Dr. Anup Sengupta**

Subject: Mathematics Core

Paper: MTMACOR03T**,** PAPER III, GENERAL PAPER II, GENERAL PAPER III, PAPER V, Paper VIIIA.

S. No.	Theory syllabus to be covered	
Week 1 to Week 4	Sem 2	MTMACOR03T: Review of Algebraic and Order Properties of $\mathbb{R}$, ε-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.
	Part II	Paper III: Classical Algebra II, Modern Algebra II GENERAL PAPER II: Modern Algebra
	Part III	Paper V: Complex **Analysis**
Week 5 to Week 8	Sem 2	MTMACOR03T: The Archimedean Property, Density of Rational (and 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
	Part II	Paper III: Classical Algebra II, Modern Algebra II GENERAL PAPER II: Modern Algebra
	Part III	Paper VIIIA: **Algebra III (Linear, Modern and Boolean)**
Week 9 to Week 12	Sem 2	MTMACOR03T: Sequences, Bounded sequence, Convergent sequence, Limit of a sequence, liminf, lim sup. Limit Theorems. Monotone Sequences, Monotone Convergence Theorem.
	Part II	Paper III: Real Analysis II GENERAL PAPER III : Elements Of Difference Equation
	Part III	Paper VIIIA: **Differential Equation III**
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 2	MTMACOR03T: Subsequences, Divergence Criteria. Monotone Subsequence Theorem (statement only), Bolzano Weierstrass Theorem for Sequences. Cauchy sequence, Cauchy's Convergence Criterion. Infinite series, convergence and divergence of infinite series, Cauchy Criterion, Tests for convergence: Comparison test, Limit Comparison test, Ratio Test, Cauchy's nth root test, Integral test. Alternating series, Leibniz test. Absolute and Conditional convergence.
	Part II	Paper III: **Real Analysis II** GENERAL PAPER III: Calculus Of Variation

	Part III	Paper VIIIA: **Tensor Algebra and Calculus**
Week 18	Sem 2	MTMACOR03T: Revision and practice.
	Part II	Paper III, GENERAL PAPER II, GENERAL PAPER III : Revision and practice.
	Part III	Paper V, Paper VIIIA: Revision and Practice.

Teaching Plan for Odd Semester, UG course
Department of Mathematics
Session (2018-2019)

Class: B.Sc.
Semester 1, Part II, Part III **Name of the Teacher: Prof. Narayan Chandra Basak**
Subject: Mathematics Core
Paper: MTMACOR01T**,** Paper IV, Paper VI **(Theory)**

S. No.	Theory syllabus to be covered	
Week 1 to Week 4	Sem 1	MTMACOR01T: Reflection properties of conics, translation and rotation of axes and second degree equations,
	Part II	Paper IV: Circle, Parabola, Ellipse and Hyperbola : Equations of pair of tangents, from an external point, chord of contact, poles and polars, conjugate points and conjugate lines. Sphere (General Equation, Circle, Sphere through the intersection of two spheres, Radical Plane, Tangent, Normal). Cone (Right circular cone, General homogeneous second degree equation. Section of a cone by a plane as a conic and as a pair of lines, Condition for three perpendicular generators, Reciprocal cone, Enveloping cone). Cylinder (Generators parallel to either of the axes, general form of equation. Right-circular cylinder, Enveloping cylinder). Surface of Revolution (about axes of reference only). Ruled surface.
	Part III	Paper VI: Random experiments. Simple and compound events. Event space. Classical and frequency definitions of probability and their drawbacks. Axioms of Probability. Statistical regularity. Multiplication rule of probabilities. Bayes' theorem. Independent events. Independent random experiments. Independent trials. Bernouli trials and binomial law. Poisson trials. Random variables. Probability distribution. Distribution function. Discrete and continuous distributions. Binomial, Poisson, Gamma, Uniform and Normal distribution. Poisson Process (only definition).
Week 5 to Week 8	Sem 1	MTMACOR01T: Classification of conics using the discriminant, polar equations of conics
	Part II	Paper IV: Transformation of rectangular axes by translation, rotation and their combinations. General equation of second degree in three variables: Reduction to canonical forms. Classification of Quadrics. Ellipsoid, Hyperboloid, Paraboloid : Canonical equations and the study of their shape.
	Part III	Paper VI: Transformation of random variables. Two dimensional probability distributions. Discrete and continuous distributions in two dimensions. Uniform distribution and two dimensional normal distribution, conditional distributions. Transformation of random variables in two dimensions. Mathematical expectation. Mean, variance, moments, central moments. Measures of location, dispersion, skewness and kurtosis. Median, mode, quartiles. Moment-generating function
Week 9 to Week 12	Sem 1	MTMACOR01T: Spheres. Cylindrical surfaces. Central conicoids, paraboloids, plane sections of conicoids

	Part II	Paper IV: Tangent planes, Normals, Enveloping cone. Generating lines of hyperboloid of one sheet and hyperbolic paraboloid. Knowledge of Cylindrical, Polar and Spherical polar co-ordinates, their relations (No deduction required).
	Part III	Paper VI: Characteristic function. Two-dimensional expectation. Covariance, Correlation co-efficient, Joint characteristic function. Multiplication rule for expectations. Conditional expectation. Regression curves, least square regression lines and parabolas. Chi-square and *t*-distributions and their important properties (Statements only) Tchebycheff's inequality. Convergenece in probability. Statements of : Bernoulli's limit theorem, Law of large numbers, Poisson's approximation to binomial distribution and normal approximation to binomial distribution.
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 1	MTMACOR01T: Revision of Generating lines, classification of quadrics, Illustrations of graphing standard quadric surfaces like cone, ellipsoid
	Part II	Paper IV: Hyperplane, Convex set, Cone, Extreme points, convex hull and convex polyhedron, Supporting and Separating hyperplane.
	Part III	Paper VI: Concepts of asymptotically normal distribution. Statement of central limit theorem in the case of equal components and of limit theorem for characteristic functions (Stress should be more on the distribution function theory than on combinatorial problems. Difficult combinatorial problems should be avoided).
Week 18	Sem 1	MTMACOR01T: Revision and practice.
	Part II	Paper IV: Revision and Practice.
	Part III	Paper VI: Revision and Practice.

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

Teaching Plan for Odd Semester, UG course

Department of Mathematics

Session (2018-2019)

Class: B.Sc.

Semester 2, 4, Part III **Name of the Teacher: Prof. Narayan Chandra Basak**

Subject: Mathematics Core

Paper: MTMACOR04T, Paper IV, Paper VI **(Theory)**

S. No.	Theory syllabus to be covered	
Week 1 to Week 4	Sem 2	MTMACOR04T: Triple product, introduction to vector functions.
	Part II	Paper IV: The collection of all feasible solutions of an L.P.P. constitutes a convex set. The extreme points of the convex set of feasible solutions correspond to its B.F.S. and conversely. The objective function has its optimal value at an extreme point of the convex polyhedron generated by the set of feasible solutions, (the convex polyhedron may also be unbounded). In the absence of degeneracy, if the L.P.P. admits of an optimal solution, then at least one B.F.S. must be optimal. Reduction of a F.S. to a B.F.S.
	Part III	Paper VI: Random sample. Concept of sampling and various types of sampling. Sample and population. Collection, tabulation and graphical representation. Grouping of data, Sample characteristic and their computation.
Week 5 to Week 8	Sem 2	MTMACOR04T: Operations with vector-valued functions.
	Part II	Paper IV: Slack and surplus variables. Standard form of L.P.P. Theory of simplex method. Feasibility and optimality conditions. The algorithm. Two phase method, Degeneracy in L.P.P. and its resolution.
	Part III	Paper VI: Sampling distribution of a statistic. Estimates of a population characteristic or parameter. Unbiased and consistent estimates. Sample characteristics as estimates of the corresponding population characteristics. Sampling distributions of the sample mean and variance. Exact sampling distributions for the normal populations.
Week 9 to Week 12	Sem 2	MTMACOR04T: Limits and continuity of vector functions.
	Part II	Paper IV: Duality Theory. The dual of the dual is the primal. Relation between the objective values of dual and the primal problems. Relation between their optimal values. Complementary slackness, Duality and simplex method and their applications. Transportation and Assignment problems. Mathematical justification for optimality criterion. Hungarian method. Travelling Salesman problem.
	Part III	Paper VI: Bivariate samples. Scatter diagram. Sample correlation co-efficient. Least square regression lines and parabolas. Estimation of parameters. Method of maximum likelihood. Applications to binomial, Poisson and normal population
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 2	MTMACOR04T: Differentiation and integration of vector functions.
	Part II	Paper IV: Concept of Game problem. Rectangular games. Pure strategy and Mixed strategy. Saddle point and its existence. Optimal strategy and value of the game. Necessary and sufficient condition for a given strategy to be optimal in a game. Concept of Dominance. Fundamental Theorem

		of Rectangular games. Algebraic method. Graphical method and Dominance method of solving Rectangular games. Inter-relation.
	Part III	Paper VI: Confidence intervals. Interval estimation for parameters of normal population. Statistical hypothesis. Simple and composite hypothesis. Best critical region of a test. Neyman-Pearson theorem (Statement only) and its application to normal population. Likelihood ratio testing and its application to normal population. Simple applications of hypothesis testing (for practical).
Week 18	Sem 2	MTMACOR04T: Revision and practice.
	Part II	Paper IV: Revision and Practice.
	Part III	Paper VI: Revision and Practice.

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

Teaching Plan for Odd Semester, UG course

Department of Mathematics

Session (2018-2019)

Class: B.Sc.

Semester 1, Part II, Part III **Name of the Teacher: Dr. Syamali Bhadra**

Subject: Mathematics Core

Paper: MTMACOR01T**,** Paper IV, Paper VI, Paper VII **(Theory),** General Paper II, General Paper III.

S. No.	Theory syllabus to be covered	
Week 1 to Week 4	Sem 1	MTMACOR01T: Reduction formulae, derivations and illustrations of 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.
	Part II	Paper IV: Simple eigenvalue problems. Simultaneous linear differential equations. Total differential equation: Condition of integrability. Partial differential equation (PDE) : Introduction, Formation of P.D.E, Solution of PDE by Lagrange's method of solution and by Charpit's method General Paper II : Analytical Geometry Of Three Dimensions
	Part III	Paper VI: What is Numerical Analysis? Errors in Numerical computation: Gross error, Round off error, Truncation error. Approximate numbers. Significant figures. Absolute, relative and percentage error. Operators : $\Delta, \nabla, E, \mu, \delta$ (Definitions and simple relations among them) Interpolation : Problems of interpolation, Weierstrass' approximation theorem (only statement). Polynomial interpolation. Equispaced arguments. Difference table. Deduction of Newton's forward and backward interpolation formulae. Statements of Stirling's and Bessel's interpolation formulae. Error terms. General interpolation formulae : Deduction of Lagrange's interpolation formula. Divided difference. Newton's General Interpolation formula (only statement). Inverse interpolation. Interpolation formulae using the values of both f(x) and its derivative *f(x) :* Idea of Hermite interpolation formula (only the basic concepts). Numerical Differentiation based on Newton's forward & backward and Lagrange's formulae.
Week 5 to Week 8	Sem 1	MTMACOR01T: Parametrizing a curve, arc length, arc length of parametric curves, area of surface of revolution. Techniques of sketching conics.
	Part II	Paper IV: Fundamental Ideas and Principles of Dynamics. Laws of motion. Work, Power and Energy. Principles of conservation of energy and of momentum - Impulse and Impulsive forces. Motion in a straight line under variable acceleration. Motion under inverse square law, Composition of two S. H. M's of nearly equal frequencies. Motion of a particle tied to one end of an elastic string. Rectilinear motion in a resisting medium. Damped forced oscillation. Motion under gravity where the resistance varies as some integral power of velocity, Terminal velocity.

		General Paper II : Differential Calculus
	Part III	Paper VI: Numerical Integration : Integration of Newton's interpolation formula. Newton - Cote's formula. Basic Trapezoidal and Simpson's 1/3 rd. formulae. Their composite forms. Weddle's rule (only statement). Statement of the error terms associated with these formulae. Degree of precision (only definition). Numerical solution of non-linear equations : Location of a real root by tabular method. Bisection method. Secant/Regula-Falsi and Newton-Raphson methods, their geometrical significance. Fixed point iteration method.
Week 9 to Week 12	Sem 1	MTMACOR01T: Differential equations and mathematical models. General, particular, explicit, implicit and singular solutions of a differential equation.
	Part II	Paper IV: Impact of elastic bodies. Newton's experimental law of elastic impact. Direct impact. Loss of K.E. in a direct impact Oblique impact of two elastic spheres, Loss of K. E. in oblique impact. Angle of deflection. Expressions for velocity and acceleration of a particle moving on a plane in Cartesian and polar co-ordinates. Motion of particle moving in a plane with reference to a set of rotating axes. Motion of a particle in plane. General Paper II : Integral Calculus, Ordinary Differential Equations
	Part III	Paper VI: Numerical solution of a system of linear equations: Gauss elimination method. Iterative method - Gauss-Seidel method. Matrix inversion by Gauss elimination method (only problems - up to 3x3 order). Eigenvalue Problems : Power method for numerically extreme eigenvalues. Numerical solution of Ordinary Differential Equation : Basic ideas, nature of the problem. Picard, Euler and Runge-Kutta (4th order) methods (emphasis on the problems only).
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.
	Part II	Paper IV: Central forces and central orbits. Characteristics of central orbits. Stability of nearly circular orbits. Tangential and Normal accelerations. Circular motion. Motion of a train or cyclist on a banked tract. Simple cases of constrained motion of a particle. General Paper III: Numerical Methods, Linear Programming, Analytical Dynamics
	Part III	Paper VI: *Fundamentals of Computer Science and Computer Programming:* Computer fundamentals : Historical evolution, computer generations, functional description, operating systems, hardward & software. Positional number systems : binary, octal', decimal, hexadecimal systems. Binary arithmetic. Storing of data in a computer : BIT,

		BYTE, Word. Coding of data - ASCIL, EBCDIC, etc. Algorithm and Flow Chart : Important features. Ideas about the complexities of algorithm. Application in simple problems. Programming languages : General concepts, Machine language, Assembly Language, High Level Languages. Compiler and Interpreter. Object and Source Program. Ideas about some major HLL.
Week 18	Sem 1	MTMACOR01T: Revision and practice.
	Part II	Paper IV, General Paper II, General Paper III: Revision and practice.
	Part III	Paper VI: Revision and Practice.

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

Teaching Plan for Odd Semester, UG course

Department of Mathematics

Session (2018-2019)

Class: B.Sc.

Semester 2, Part II, Part III **Name of the Teacher: Dr. Syamali Bhadra**

Subject: Mathematics Core

Paper: MTMACOR04T**, Paper IV**, Part III **(Theory)**

S. No.	Theory syllabus to be covered	
Week 1 to Week 4	Sem 2	MTMACOR04T: Lipschitz condition and Picard's Theorem (Statement only). General solution of homogeneous equation of second order, principle of super position for homogeneous equation,
	Part II	Paper IV: Motion of a particle in a plane under different laws of resistance. Motion of a projectile in a resisting medium in which the resistance varies as the velocity. Trajectories in a resisting medium where resistance varies as some integral power of the velocity
	Part III	Paper VII: Laws of Friction, Angle of friction, Cone of friction. To find the positions of equilibrium of a particle lying on a (i) rough plane curve, (ii) rough surface under the action of any given forces. General formula for the determination of C.G. Determination of position of C. G. of any arc, area of solid of known shape by method of integration.
Week 5 to Week 8	Sem 2	MTMACOR04T: Wronskian: its properties and applications, Linear homogeneous and non-homogeneous equations of higher order with constant coefficients, Euler's equation, method of undetermined coefficients, method of variation of parameters
	Part II	Paper IV: Motion on a smooth curve under resistance.Motion under inverse square law in a plane. Escape velocity, Planetary motion and Kepler's laws. Time of describing an arc of the orbit. Motion of artificial satellite Slightly disturbed orbits.
	Part III	Paper VII: Astatic Equilibrium, Astatic Centre. Positions of equilibrium of a particle lying on a smooth plane curve under action of given force. Action at a joint in a frame work. Virtual work : Principle of virtual work for a single particle. Deduction of the conditions of equilibrium of a particle under coplanar forces from the principle of virtual work. The principle of virtual work for a rigid body. Forces which do not appear in the equation of virtual work. Forces which appear in the equation of virtual work. The principle of virtual work for any system of coplanar forces acting on a rigid body. Converse of the principle of virtual work.
Week 9 to Week 12	Sem 2	MTMACOR04T: System of linear differential equations, types of linear systems, differential operators, an operator method for linear systems with constant coefficients.

	Part II	Paper IV: Conservative field of force and principle of conservation of energy. Motion of a rough curve (such as circle, parabola, ellipse, cycloid etc.) under gravity.
	Part III	Paper VII: Stable and Unstable equilibrium. Co-ordinates of a body and of a system of bodies. Field of forces. Conservative field. Potential energy of a system. The energy test of stability. Condition of stability of equilibrium of a perfectly rough heavy body lying on fixed body. Rocking stones. Forces in three dimensions. Moment of a force about a line. Axis of a couple. Resultant of any two couples acting on a body. Resultant of any number of couples acting on a rigid body. Reduction of a system of forces acting on a rigid body. Resultant force is an invariant of the system but the resultant couple is not an invariant.
Week 13 to 14		Internal examination
Week 15 to Week 17	Sem 2	MTMACOR04T: Basic Theory of linear systems in normal form, homogeneous linear systems with constant coefficients: Two Equations in two unknown functions.
	Part II	Paper IV: Equation of motion of a particle of varying mass. Simple problems of motion of varying mass such as those of falling raindrops and projected rockets.
	Part III	Paper VII: Conditions of equilibrium of a system of forces acting on a body. Deductions of the conditions of equilibrium of a system of forces acting on a rigid body from the principle of virtual work. Poinsot's central axis. A given system of forces can have only one central axis. Wrench, Pitch, Intensity and Screw. Condition that a given system of forces may have a single resultant. Invariants of a given system of forces. Equation of the central axis of a given system of forces.
Week 18	Sem 2	MTMACOR04T: Revision and practice.
	Part II	Paper IV: Revision and practice.
	Part III	Paper VII: Revision and Practice.

Department of Physics
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Name of the Teacher : Dr. Arun Kumar Jana

PART - II

Topic [Paper-IVA] (50 Marks)	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Unit IV A : Group B Physical Optics	Wave theory	Interference	Diffraction	Polarisation+ Revision

Topic [Paper-IVB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole Syllabus will be covered by different Groups.	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Revision

PART - III

Topic [Paper-V] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Unit VA : Group-B, Group-C, Unit VB : Group D	Special Theory of Relativity	Statistical Mechanics	Operators in Quantum Mechanics	Schrodinger Equation and applications of Quantum Mechanics

Topic [Paper-VI] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Unit VI A : Group A	Nuclear Structure	Nuclear Structure	Nuclear Reactions	Nuclear Reactions+ Discussion+ Revision

Topic [Paper-VIIA] (50 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Practical	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Revision

Head, Department of Physics

Department of Physics
BIDHANNAGAR COLLEGE
Government of West Bengal
Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Name of the Teacher : Dr. Arun Kumar Jana

Class: B.Sc :**ODD SEMESTERS – I** Name of the Teacher: **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: **Whole syllabus will be covered by different groups**	**PHSACOR02T**:Non-Inertial system& STR
Week 5to week 8	PHSACOR01P: **Whole syllabus will be covered by different groups**	**PHSAOR02T**:Special Theory of Relativity-M M Expt., postulates, L transformations, simultaneity.
Week 9 to week 12	PHSACOR01P: **Whole syllabus will be covered by different groups**	**PHSACOR02T**:Special theory of Relativity-Order of events, Lorentz contraction, Time Dilation and numerical.
Week 13	PHSACOR01P: **Whole syllabus will be covered by different groups**	**PHSACOR02T:**Relativistic Transformations of velocity, frequency and wave number.
Week13 to week 14 Internal Exam		
Week 15 to 17	PHSACOR01P: **Whole syllabus will be covered by different groups**	**PHSACOR02T**: Relativistic addition of velocities, Relativistic Doppler effect – applications-numericals.
Week 18	**Revision**	**Revision**

Head, Department of Physics

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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Class: B.Sc : **EVEN SEMESTERS –II** Name of the Teacher: **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	PHSACOR03P: PHSACOR04P: PHSHGEC02P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR4T**:Wave Optics, Intereference-Division of amp. And wavefront, Young's double slit Expt. Etc. **PHSHGEC02T**:Electromagnetic Induction_faraday's laws, Lenz's law, Numericals.
Week 5to week 8	PHSACOR03P: PHSACOR04P: PHSHGEC02P: **Whole syllabus will be covered bydifferent groups**	**PHSAOR04T**:Interference-Thin and wedge shaped films, Fringes of equal inclination, thickness, Newton's rings. **PHSHGEC02T:** Self and Mutual inductance, L of Single coil, M of two coils, Energy stored in magnetic field.
Week 9 to week 12	PHSACOR03P: PHSACOR04P: PHSHGEC02P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR4T**: Diffraction-Types, Single slit, Resolving Power of an optical instrument, Double slit. **PHSHGEC02T**:Linear Network-Impedance, LC R and their combinations.
Week 13	PHSACOR03P: PHSACOR04P: PHSHGEC02P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR4T**: Diffraction-Fresnel diffraction, Fresnel's assumptions. **PHSHGEC02T**: Maxwell;s equations. PHSHGEC04T:Diffraction-Diffraction grating.
Week13 to week 14 Internal Exam		
Week 15 to 17	PHSACOR03P: PHSACOR04P: PHSHGEC02P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR4T**: Fresnel's Half Period Zones, Zone Plate-theory and derivation, Numericals. **PHSHGEC02T**: Network Theorem-applications, Anderson's bridge.
Week 18	**Revision**	**Revision**

Head, Department of Physics

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Name of the Teacher : Bimal Kumar Mandal

PART - II

Topic [Paper-III] (100 Marks)	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Unit III A : Group A Electricity	Dielectrics	Electrical Images	Steady Currents	Revision

Topic [Paper-IVB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole Syllabus will be covered by different Groups.	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Revision

PART - III

Topic [Paper-VIIA] (50 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Unit VIIA Electronics	Operational Amplifiers	Combinational Logic	Sequential Logic	Communication Principles

Topic [Paper-VIIIB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole Syllabus will be covered by different Groups.	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Revision

Head, Department of Physics

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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Class: B.Sc :**ODD SEMESTERS – I** Name of the Teacher: **Bimal Kunmar Mandal**

Subject: Paper :**B.ScHons. & General(Theory and Practical)**

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSACOR2P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR1T**:Vector Calculas **PHSACOR02T :** Oscillations-SHM
Week 5to week 8	PHSACOR2P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR01T**: Vector Calculas **PHSACOR02T :** Oscillations-Forced Vibration
Week 9 to week 12	PHSACOR2P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR01T**: Orthogonal Curvilinear co-ordinates **PHSACOR02T :** Resonane
Week 13	PHSACOR2P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR01T**: Orthogonal Curvilinear co-ordinates **PHSACOR02T :** Numerical on Oscillations
Week13 to week 14 Internal Exam		
Week 15 to 17	PHSACOR2P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR02T**: Tutorials PHSACORT : Sharpness and Quality factor
Week 18	**Revision**	**Revision**

Head, Department of Physics

Department of Physics
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Government of West Bengal
Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Class: B.Sc :**EVEN SEMESTERS –II** Name of the Teacher : Bimal Kumar Mandal

Subject: Paper :**B.ScHons. & Genera l(Theory and Practical)**

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	**PHSACOR03P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**:Electric Circuits
Week 5to week 8	**PHSACOR03P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**: Electric Circuits
Week 9 to week 12	**PHSACOR03P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**:Network Theorem .
Week 13	**PHSACOR03P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**: Numerical on Network analysis
Week13 to week 14 Internal Exam		
Week 15 to 17	**PHSACOR03P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**: Network theorem and tutorials .
Week 18	**Revision**	**Revision**

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Name of the Teacher : Nirmal Kumar Maity

PART - II

Topic [Paper-III] (100 Marks)	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Unit III A : Group A Electricity	Magnetic effect of Steady Current	Field and Magnetic Materials	Electromagnetic Induction	Network Theorems+ Revision

Topic [Paper-IVB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole Syllabus will be covered by different Groups.	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Revision

PART - III

Topic [Paper-VIIA] (50 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Unit VIIA Electronics	Field Effect Transistor	Feedback in Amplifiers	Multistage Amplifiers	Oscillators+ Revision

Topic [Paper-VIIIB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole Syllabus will be covered by different Groups.	Whole Syllabus will be covered by different Groups	Whole Syllabus will be covered by different Groups	Revision

Head, Department of Physics

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Class: B.Sc :**ODD SEMESTERS – I** Name of the Teacher: **Nirmal Kumar Maity**

Subject: Paper :**B.ScHons. & General(Theory and Practical)**

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSHGEC01P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR02T**:Fundamentals of Dynamics **PHSHGEC01T :** Oscillations
Week 5to week 8	PHSHGEC01P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR02T**: Work and Energy **PHSHGEC01T :** Oscillations
Week 9 to week 12	PHSHGEC01P: PHSACOR07P: PHSSSEC01M **Whole syllabus will be covered bydifferent groups**	**PHSACOR02T**:Collisions **PHSHGEC01T :** Oscillations
Week 13	PHSHGEC01P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR02T**: Numerical on Collisions **PHSHGEC01T :** Numerical on Oscillations
Week13 to week 14 Internal Exam		
Week 15 to 17	PHSHGEC01P: **Whole syllabus will be covered bydifferent groups**	**PHSACOR02T**:Rotational Dynamics **PHSHGEC01T :** Oscillations
Week 18	**Revision**	**Revision**

Head, Department of Physics

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Class: B.Sc :**EVEN SEMESTERS –II** Name of the Teacher: **Nirmal Kumar Maity**

Subject: Paper :**B.ScHons. & General(Theory and Practical)**

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	**PHSACOR03P:** **PHSHGEC02P**: **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**:Magnetic Field **PHSHGEC02T**: Maxwell's equations
Week 5to week 8	**PHSACOR03P:** **PHSHGEC02P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**:Magnetic Properties of matter **PHSHGEC02T**: Maxwell's equations and numerical
Week 9 to week 12	**PHSACOR03P:** **PHSHGEC02P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**:Electromagnetic Induction **PHSHGEC02T**: Electromagnetic wave propagation.
Week 13	**PHSACOR03P:** **PHSHGEC02P**: **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**: Numerical on Magnetic field **PHSHGEC02T**: em wave propagation
Week13 to week 14 Internal Exam		
Week 15 to 17	**PHSACOR03P:** **PHSHGEC02P:** **Whole syllabus will be covered bydifferent groups**	**PHSACOR3T**: Electromagnetic Induction **PHSHGEC02T**: Electromagnetic wave propagation.
Week 18	**Revision**	**Revision**

Head, Department of Physics

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Name of the teacher: Dr. Supriya Chatterjee

PART - II

Topic [Paper-IVA] (50 Marks)	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Ray optics	Light as electromagnetic waves wave normals and rays : short wavelength limit and ray(geometrical) optics. Fermat principle, application to reflection and refraction at curved surfaces. Cardinal points of an optical system : two thin lenses separated by a distance, equivalent lens, different types of magnification	Helmholtz and Lagrange paraxial approximation, introduction to matrix methods in paraxial optics – simple application Dispersion : Dispersive power of optical systems, dispersive power of prism, chromatic aberration – methods of reduction, achromatic lens combination. Seidel aberration : (only qualitative discussion)	Nature and cause of different seidel aberrations, methods of reducting these. Optical instruments : Field of view, entrance and exit pupil microscope, eyepieces- Ramsden and Huygen.	Michelson's interferometer, application in fine structure study. Multiple beam interference – reflected and transmitted pattern. Fabry-Perot interferometer and application to fine structure study.

Topic [Paper-IVB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole syllabus will be distributed to different student groups	Whole syllabus will be distributed to different student groups	Whole syllabus will be distributed to different student groups	Revision

PART - III

Topic [Paper-V] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Atomic Spectra	Atomic Spectra			

Topic [Paper-VI] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Nuclear Physics		Gross Properties of nuclei, Nuclear Structure	Unstable Nuclei	Nuclear Reaction

Topic [Paper-VIIIA] (50 Marks)-Practical	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Practical	Whole syllabus will be distributed to different student groups	Whole syllabus will be distributed to different student groups	Whole syllabus will be distributed to different student groups	Revision

Head, Department of Physics

Department of Physics
BIDHANNAGAR COLLEGE
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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Class: B.Sc Semester 1 Name of the Teacher: Dr. Supriya Chatterjee

Subject: Physics Honours & General (Theory and Practical)

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSACOR01P, PHSHGEC01P, :Whole syllabus will be covered by different groups	PHSACOR01T: Vector Calculus (Recapitulation of vectors) PHSHGEC01T: Mathematical Methods
Week 5 to week 8	PHSACOR01P, PHSHGEC01P :Whole syllabus will be covered by different groups	PHSACOR01T: Vector Calculus (Vector Differentiation)
Week 9 to week 12	PHSACOR01P, PHSHGEC01P :Whole syllabus will be covered by different groups	PHSACOR01T: Calculus (Calculus of functions of more than one variable) Vector Calculus (Vector Integration)
Week 13	PHSACOR01P, PHSHGEC01P :Whole syllabus will be covered by different groups	PHSACOR01T: Vector Calculus (Vector Integration).
Week13 to week 14 Internal Exam		
Week 15 to 17	PHSACOR01P, PHSHGEC01P :Whole syllabus will be covered by different groups	PHSACOR01T: Conclusion + Tutorial PHSHGEC01T: Conclusion + Tutorial
Week 18	Revision	Revision

Head, Department of Physics

Department of Physics
BIDHANNAGAR COLLEGE
Government of West Bengal
Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Class: B.Sc Semester 2 Name of the Teacher: Dr. Supriya Chatterjee

Subject: Physics Honours & General (Theory and Practical)

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSACOR04P, PHSHGEC02P, :Whole syllabus will be covered by different groups	PHSACOR04T: Superposition of Collinear Harmonic oscillations PHSHGEC02T: Vector Analysis
Week 5 to week 8	PHSACOR04P, PHSHGEC02P, :Whole syllabus will be covered by different groups	PHSACOR04T: Superposition of two perpendicular Harmonic Oscillations PHSHGEC02T: Vector Analysis
Week 9 to week 12	PHSACOR04P, PHSHGEC02P, :Whole syllabus will be covered by different groups	PHSACOR04T: Interferometer
Week 13	PHSACOR04P, PHSHGEC02P, :Whole syllabus will be covered by different groups	PHSACOR04T: Holography
Week13 to week 14 Internal Exam		
Week 15 to 17	PHSACOR04P, PHSHGEC02P, :Whole syllabus will be covered by different groups	PHSACOR04T: Conclusion + Tutorial PHSHGEC02T: Conclusion + Tutorial
Week 18	Revision	Revision

Head, Department of Physics

Department of Physics
BIDHANNAGAR COLLEGE
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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

Name of the teacher : Dr. Subhasis Chakrabarti

PART - II

Topic [Paper-III] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
UNIT IIIB, GROUP-C	Maxwell's equation, EM waves in isotropic dielectrics	EM waves in conducting medium	Dispersion	Scattering

Topic [Paper-IVB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole syllabus will be covered by different groups	Whole syllabus will be covered by different groups	Whole syllabus will be covered by different groups	Revision

PART - III

Topic [Paper-V] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
PAPER-V, GROUP-A	Generalised coordinates, D'Alembert's Principle	Lagrange's equation and it's application	Conservation principle, canonical transformation	Hamilton's formulation , Small oscillation

Topic [Paper-VI] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
GROUP C	Crystal structure	Structure of solids	Dielectric properties of solids	Magnetic Properties of solids.

Topic [Paper-VIIIA] (50 Marks)-Practical	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Practical	Whole syllabus will be covered by different groups	Whole syllabus will be covered by different groups	Whole syllabus will be covered by different groups	Revision

Head, Department of Physics

Department of Physics
BIDHANNAGAR COLLEGE
Government of West Bengal
Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

B.Sc. Odd Semester (I) Name of the Teacher: Dr. Subhasis Chakrabarti

Subject: Physics Hons. & General (Theory and Practical)

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSACOR02P, PHSHGEC01P :Whole syllabus will be covered by different groups	PHSACOR01T: Calculus (Recapitulation) Approximation: Taylor and binomial series (statements only). PHSSSEC01M: CRO
Week 4 to week 8	PHSACOR02P, PHSHGEC01P, :Whole syllabus will be covered by different groups	PHSACOR01T: Calculus (1st Order and 2nd order) PHSSSEC01M: Signal Generators and analysis Instruments
Week 8 to week 12	PHSACOR02P, PHSHGEC01P, :Whole syllabus will be covered by different groups	PHSACOR01T: Calculus (Calculus of functions of more than one variable) PHSSSEC01M: Digital Instruments
Week 13	PHSACOR02P, PHSHGEC01P, :Whole syllabus will be covered by different groups	PHSACOR01T: Calculus (Calculus of functions of more than one variable) PHSSSEC01M: Digital Instruments
Week 13 to week 14		**Internal Exam**
Week 15 to 17	PHSACOR02P, PHSHGEC01P:Whole syllabus will be covered by different groups	PHSACOR01T: Conclusion PHSSSEC01M: Conclusion
Week 18	Revision & Practice	Revision

Head, Department of Physics

Department of Physics
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Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

B.Sc. Even Semester (II) Name of the Teacher: Dr. Subhasis Chakrabarti

Subject: Physics Hons. & General (Theory and Practical)

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSACOR03P, PHSHGEC02P Whole syllabus will be distributed to different student groups	PHSACOR04T: Superposition of Collinear Harmonic oscillations PHSHGEC02T: Vector Analysis
Week 4 to week 8	PHSACOR03P, PHSHGEC02P Whole syllabus will be distributed to different student groups	PHSACOR04T;Wave Motion PHSHGEC02T: Vector Analysis
Week 8 to week 12	PHSACOR03P, PHSHGEC02P Whole syllabus will be distributed to different student groups	PHSACOR04T: Velocity of Waves PHSHGEC02T: Vector Analysis
Week 13	PHSACOR03P, PHSHGEC02P, Whole syllabus will be distributed to different student groups	PHSACOR04T: Velocity of Waves PHSHGEC02TVector Analysis
Week13 to week 14		**Internal Exam**
Week 15 to 17	PHSACOR03P, PHSHGEC02P, Whole syllabus will be distributed to different student groups	PHSACOR04T: Conclusion PHSHGEC02T: Conclusion
Week 18	Revision & Practice	Revision

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Name of the Teacher: Dr. Soumyabrata Mondal

PART - II

Topic [Paper-III] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
ELECTRICITY I & II	Units and dimensions, Electrostatics	Multipole expansion, Transients in D.C.	Dielectrics, Electrical Images	Tutorials on Problems and Discussions

Topic [Paper-IVB] (50 Marks)-Practical	Jul- Sep	Oct- Dec	Jan -Mar	Apr- Jun
Practical	Whole syllabus will be distributed to different student groups	Whole syllabus will be distributed to different student groups	Whole syllabus will be distributed to different student groups	Revision

PART - III

Topic [Paper-V] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
STATISTICAL PHYSICS	Introduction to Statistical Mechanics	Classical Statistics	Quantum Statistics	Tutorials on Problems and discussions
MOLECULAR SPECTRA	Basic ideas	Rotational and vibrational energy levels	Raman effect and its application	Revision

Topic [Paper-VI] (100 Marks)	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Elementary Particles	Introduction	Basic interactions	Quantum numbers & Quark	Tutorials on Problems and discussions

Topic [Paper-VIIB] (50 Marks)-Practical	Jul - Sep	Oct - Dec	Jan -Mar	Apr- Jun
Computer Programming	Sorting, Statistical calculations	Roots, Integration	Curve fit, Matrix	Revision

Head, Department of Physics

Department of Physics

BIDHANNAGAR COLLEGE

Government of West Bengal

Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

B.Sc. Odd Semester (I) Name of the Teacher: Dr. Soumyabrata Mondal

Subject : Physics Hons. & General (Theory and Practical)

Sl. No.	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	PHSACOR02P, PHSHGEC01P, : Whole syllabus will be covered by different groups	PHSACOR02T: Gravitation and Central Force Motion PHSHGEC01T: Gravitation
Week 4 to week 8	PHSACOR02P, PHSHGEC01P, : Whole syllabus will be covered by different groups	PHSACOR02T: Gravitation and Central Force Motion PHSHGEC01T: Gravitation
Week 8 to week 12	PHSACOR02P, PHSHGEC01P, : Whole syllabus will be covered by different groups	PHSACOR02T: Fluid Motion PHSHGEC01T: Elasticity
Week 13	PHSACOR02P, PHSHGEC01P, : Whole syllabus will be covered by different groups	PHSACOR02T: Fluid Motion PHSHGEC01T: Elasticity
Week 13 to week 14		**Internal Exam**
Week 15 to 17	PHSACOR02P, PHSHGEC01P, : Revision	PHSACOR02T: Conclusion PHSHGEC01T: Conclusion
Week 18	Revision & Practice	Revision

Head, Department of Physics

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Government of West Bengal
Curriculum Plan for B. Sc (Honour) Course for the Academic Session of 2018-2019

B.Sc. Even Semester (II) Name of the Teacher: Dr. Soumyabrata Mondal

Subject : Physics Hons. & General (Theory and Practical)

Sl. No.	**Practical syllabus to be covered**	**Theory syllabus to be covered**
Week 1 to week 4	PHSACOR03P, PHSHGEC02P, : Whole syllabus will be distributed to different student groups	PHSACOR03T: Electric Field and Electric Potential PHSHGEC02T: Electrostatics
Week 4 to week 8	PHSACOR03P, PHSHGEC02P, : Whole syllabus will be distributed to different student groups	PHSACOR03T: Electric Field and Electric Potential PHSHGEC02T: Electrostatics
Week 8 to week 12	PHSACOR03P, PHSHGEC02P, : Whole syllabus will be distributed to different student groups	PHSACOR03T: Dielectric Properties of Matter PHSHGEC02T: Linear Network
Week 13	PHSACOR03P, PHSHGEC02P, :Whole syllabus will be distributed to different student groups	PHSACOR03T: Dielectric Properties of Matter PHSHGEC02T: Linear Network
Week 13 to week 14		**Internal Exam**
Week 15 to 17	PHSACOR03P, PHSHGEC02P, :Whole syllabus will be covered by different groups	PHSACOR03T: Conclusion PHSHGEC02T: Conclusion
Week 18	Revision & Practice	Revision

Head, Department of Physics

BIDHANNAGAR COLLEGE, GOVERMENT OF WEST BENGAL, SALTE LAKE, KOLKATA

TEACHING PLAN FOR ODD AND EVEN SEMESTER, UG COURSE

DEAPARTMENT OF GEOGRAPHY

SESSION: 2018-2019

CLASS: B.A/BSC.

SEMESTER: 1, 2, Part-II and Part-III **NAME OF THE TEACHER: D.C.DAS.**

SUBJECT: GEOGRAPHY

	Practical syllabus to be covered	**Theory syllabus to be covered**
Week 1 to week4	**CC02P :** 1. Graphical construction of scales: Plain, comparative. **CC04P :** 1. Traverse survey using prismatic compass ,profile survey using dumpy level **Part-II Papers** **PAPER-IV (PRACTICAL): APPLIED GEOGRAPHICAL TECHNIQUES**: 1. Scales: Linear, diagonal and vernier, enlargement and reduction of map	**CC02T :** 1. Maps: Classification and types. Components of a map. **CC04T:** concept of rounding scientific notation logarithm and anti logarithm natural and log scales**.** **Part-II Papers** : PAPER-III: CLIMATOLOGY, SOIL GEOGRAPHY & BIOGeography: Planetary wind system with special reference to tri-cellular model, Rossby Waves, Jet Stream **PART- III** **Paper –V** : Group B : Regional geography 2) a. Physiographic regions of India, with special reference to Kashmir Himalaya.
Week 5 to week 8	**CC02P :** 1. Graphical construction of scales: Plain, comparative. **CC04P :** 1. traverse survey using prismatic compass ,profile survey using dumpy level **Part-II Papers :** **PAPER-IV (PRACTICAL): APPLIED GEOGRAPHICAL TECHNIQUES**: 4. Cartograms and thematic mapping : a) Choropleth showing density of population b) Dots and Spheres diagram showing distribution of rural and urban population. c) Proportional pie-diagrams representing economic data and landuse data.	**CC02T :** 4. Coordinate systems: Polar and rectangular **CC04T:** concept of rounding scientific notation logarithm and anti logarithm natural and log scales. **Part-II Papers** : PAPER-III: CLIMATOLOGY, SOIL GEOGRAPHY & BIOGEOGRAPHY Planetary wind system with special reference to tri-cellular model, Rossby Waves, Jet Stream **PART- III** **Paper –V** : Group B : Regional geography b. Agricultural region of India with special reference to Punjab Haryana.

Week 9 to week 12	**CC02P :** 1. Graphical construction of scales: Plain, comparative. **CC04P :** 1. traverse survey using prismatic compass ,profile survey using dumpy level **Part-II Papers:** **PAPER-IV (PRACTICAL): APPLIED GEOGRAPHICAL TECHNIQUES**: 5. Projections: a) Concept, classification, constructions and suitability b) Construction and properties of: Zenithal Gnomonic and Stereographic (Polar Case), Simple Conic (with one standard parallel), Bonne's, Sinusoidal, Polyconic, Cylindrical Equal Area and Mercator's Projections.	**CC02T:** 5. Concept of generating globe and UTM projection. **CC04T:** concept of rounding scientific notation logarithm and anti logarithm natural and log scales. **Part-II Papers:** PAPER-III: CLIMATOLOGY, SOIL GEOGRAPHY & BIOGEOGRAPHY 6. Genesis of Monsoon and its relation with Jet Stream, El Nino and La Nina.
Week 13	**CC02P :** 1. Graphical construction of scales: Plain, comparative. **CC04P :** 1. traverse survey using prismatic compass ,profile survey using dumpy level **Part-II Papers:** **PAPER-IV (PRACTICAL): APPLIED GEOGRAPHICAL TECHNIQUES**: 6. Survey:a) Closed traverse survey by Prismatic Compass. b) Levelling by Dumpy Level with at least one change point: Drawing of profile and determination of gradient.	**CC02T :** 6. Grids: angular and linear systems of measurement **CC04T:** concept of rounding scientific notation logarithm and anti logarithm natural and log scales. **Part-II Papers** : PAPER-III: CLIMATOLOGY, SOIL GEOGRAPHY & BIOGEOGRAPHY Climatic classification after Koppen and Thornthwaite. **PART- III** **Paper –V** : Group B : Regional geography c. Industrial region of India with special reference to Mumbai , Pune industrial belt .

Week 14	Internal Examination	Internal Examination
Week 15 to week 17	**CC02P :** 1. Graphical construction of scales: Plain, comparative. **CC04P :** 1. traverse survey using prismatic compass ,profile survey using dumpy level. **Part-II Papers:** **PAPER-IV (PRACTICAL): APPLIED GEOGRAPHICAL TECHNIQUES**: 6. Survey:a) Closed traverse survey by Prismatic Compass. b) Levelling by Dumpy Level with at least one change point: Drawing of profile and determination of gradient.	**CC02T :** 7. Map projections: Classification, properties and uses **CC04T:** concept of rounding scientific notation logarithm and anti logarithm natural and log scales. **Part-II Papers** : PAPER-III: CLIMATOLOGY, SOIL GEOGRAPHY & BIOGEOGRAPHY Climatic classification after Koppen and Thornthwaite **PART- III** **Paper –V** : Group B : Regional geography 3) Regional disparities in India: causes and implications.
Week 18	**PRACTICE**	**REVISION**

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA
TEACHING PLAN FOR ODD AND EVEN SEMESTER, UG COURSE
DEPARTMENT OF GEOGRAPHY
SESSION: 2018-2019

CLASS: B.A/BSC.
SEMESTER: 1, 2 , Part-II and Part-III **NAME OF THE TEACHER: H.K.DATTA**
SUBJECT: GEOGRAPHY

	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 To Week 4	**CC04P:** Profile Survey using Dumpy Level. **CC02P:** Delineation of drainage basin. **GEC03P: 1.** Graphical Construction of scales: Plain. **PART II**: PAPER-III**: Applied Geographical Techniques** **GROUP-A: CARTOGRAPHY** 1. **Scales**: Concept of scales, drawing of linear scales.	**CC01T: GEOMORPHOLOGY:** Weathering, mass wasting and resultant landforms. **DSE01T: SOIL GEOGRAPHY**: 1.FACTORS OF SOIL FORMATION –Man as an active agent of soil transformation. 2.Soil profile. Origin and profile characteristics of lateritic, Podzol and Chernozem soil. **GEC01T:** 1.Physical Geography – Definition and Scope, Components of Earth System. **CC03T: HUMAN GEOGRAPHY:** Types and patterns of Rural Settlement. **CC04T: CARTOGRAMS AND THEMATIC MAPPING:** Basic concept of: Dumpy Level and Theodolite. **GEC02T: UNIT-I: MIGRATION:** Types, Causes and consequences. **PART-II PAPER :** **PAPER II: HUMAN GEOGRAPHY AND REGIONAL GEOGRAPHY OF INDIA** **GROUP –B: ECONOMIC GEOGRAPHY** **1.** Sectors of the economy : primary, secondary, tertiary and quaternary. Changing emphasis through time. **GROUP – C: REGIONAL GEOGRAPHY AND ENVIRONMENTAL ISSUES OF INDIA** A. **Concept of regions**: formal and functional **PART-III PAPER:** **PAPER IV: APPLIED GEOGRAPHY** **GROUP-A: SECTION-I**: **Land use and Settlement Geography** 4. Rural settlements: evolution, nature and physical environment.

Week 5 **To** **Week 8**	**CC04P:** Profile Survey using Dumpy Level. **CC014P:** Disaster Management **CC02P:** Delineation of drainage basin. **GEC03P: 1.** Graphical Construction of scales: Plain. **PART II**: PAPER-III**: Applied Geographical Techniques** **GROUP- B : MAP INTERPRETATION:** **1.** Basis of numbering and scales of survey of India Topographical sheets.	**CC01T: GEOMORPHOLOGY**- **2.** Development of river network and landforms on uniclinal and folded structures. **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. **CC03T: HUMAN GEOGRAPHY**: Types and patterns of Rural Settlements. **CC04T: CARTOGRAMS AND THEMATIC MAPPING**: Basic concepts of: Dumpy level and Theodolite. **GEC02T: UNIT-II: SECTORS OF THE ECONOMY**: Primary, Secondary and quaternary **PART-II PAPERS** **PAPER-II**: **HUMAN GEOGRAPHY AND REGIONAL GEOGRAPHY OF INDIA** **GROUP –B: ECONOMIC GEOGRAPHY** **2.**Types of agriculture: **a)** Shifting cultivation of India. **b)** Intensive Subsistence rice farming in India. **c)** Plantation farming in India : Tea and coffee **GROUP – C: REGIONAL GEOGRAPHY AND ENVIRONMENTAL ISSUES OF INDIA** **3.** Forest resources of India: issues concerning deforestation and social forestry. **PART-III PAPER:** **PAPER IV: APPLIED GEOGRAPHY** **GROUP-A: SECTION-I**: **Land use and Settlement Geography** **5.**Urban settlements : definition, morphology and function**.**
Week 9 **To** **Week 12**	**CC04P:** Profile Survey using Dumpy Level. **CC014P:** Disaster Management **CC02P: Stream Ordering.** **GEC03P: 1. Graphical construction of scales: comparative.** **PART II**: PAPER-III**: Applied Geographical Techniques** **GROUP- B : MAP INTERPRETATION:** **2.** Interpretation of 1:50,000 topographical sheets under the following heads: **i.** Interpretation of relief and drainage from topographical maps with profiles and sketches.	**CC01T: GEOMORPHOLOGY** 3.Coastal processes and landforms **DSE01T: SOIL AND BIO FEOGRAPHY**: **4.** Soil erosion and degradation: Factors, Processes and mitigation measures. **GEC01T:** 3.Influence of rock on topography: Limestone and granite. **CC03T: HUMAN GEOGRAPHY**: Types and patterns of Rural Settlements. **CC04T: CARTOGRAMS AND THEMATIC MAPPING**: Basic concepts: Dumpy level and Theodolite. **GEC02T: UNIT-II: Types and patterns of Rural Settlements.** **PART-II PAPERS** **PAPER-II**: **HUMAN GEOGRAPHY AND REGIONAL**

	ii. Interpretation of communication and settlement from topographical maps with sketches. **iii.** Relationship between physical and cultural features with the help of transect chart.	**GEOGRAPHY OF INDIA** **GROUP –B: ECONOMIC GEOGRAPHY** **3.**Scales of production: cottage, small scale and large-scale industries- general characteristics and examples. **GROUP – C: REGIONAL GEOGRAPHY AND ENVIRONMENTAL ISSUES OF INDIA** **3.** Causes and consequences of soil erosion in India.
Week 13	**CC04P:** Profile Survey using Dumpy Level. **CC014P:** Disaster Management **CC02P: Stream Ordering.** **GEC03P: 1. Graphical construction of scales: comparative** **PART II**: PAPER-III**: Applied Geographical Techniques** **GROUP-A: CARTOGRAPHY** **GROUP- B : MAP INTERPRETATION**	**CC01T: GEOMORPHOLOGY-** **4.** Glacial and Glacio- Fluvial processes and landform. **DSE01T: SOIL GEOGRAPHY :** **5.** Soil erosion and degradation: Factors, Processes and mitigation measures. 6. Soil classification: Genetic and USDA, Land capability and its classification. **CC03T: HUMAN GEOGRAPHY**: Types and patterns of Rural Settlements. **CC04T: CARTOGRAMS AND THEMATIC MAPPING**: Basic concepts: Dumpy level and Theodolite. **PART-II PAPERS** **PAPER-II**: **HUMAN GEOGRAPHY AND REGIONAL GEOGRAPHY OF INDIA** **GROUP –B: ECONOMIC GEOGRAPHY-** **4.**Location, problems and prospects of Indian industries. a. Cotton textile industry b. Heavy engineering industry: locomotive c. Petroleum refining industry.
Week 14	INTERNAL EXAMINATION	INTERNAL EXAMINATION

Week 15 **To** **Week 17**	**CC04P:** Profile Survey using Dumpy Level. **CC014P:** Disaster Management **CC02P: Stream Ordering.** **GEC03P: 1. Graphical construction of scales: comparative** **PART II**: PAPER-III**: Applied Geographical Techniques** **GROUP-A: CARTOGRAPHY** **GROUP- B : MAP INTERPRETATION**	**CC01T: GEOMORPHOLOGY**- 5.Glacial and Glacio- fluvial processes and landform. **DSE01T: SOIL ANND BIO GEOGRAPHY**: 7.Concept of biosphere, ecosystem, biome, ecotone, community, niche, succession and ecology. 8. Concept of trophic structure, food chain and food web. **GEC01T**: 4.Evolution of landforms under fluvial process, Normal Cycle of Erosion of Davis. **CC03T: HUMAN GEOGRAPHY**: Types and patterns of Rural Settlements. **CC04T: CARTOGRAMS AND THEMATIC MAPPING**: Basic concepts: Dumpy level and Theodolite.

Week 18	**CC04P:** Profile Survey using Dumpy Level - **Revision** **CC014P:** Disaster Management- **Revision** **CC02P: Stream Ordering- Revision** **GEC03P: 1. Graphical construction of scales: comparative - Revision** **PART II**: PAPER-III**: Applied Geographical Techniques** **GROUP-A: CARTOGRAPHY- Revision** **GROUP- B : MAP INTERPRETATION- Revision.**	**CC01T: GEOMORPHOLOGY- Revision** **DSE01T: SOIL GEOGRAPHY- Revision** **GEC01T:** 1.Physical Geography- **Revision** **GEC01T**: Internal structure of earth based on seismic evidence, Plate tectonics- **Revision** **GEC01T:** 3.Influence of rock on topography: Limestone and granite**- Revision** **CC03T: HUMAN GEOGRAPHY - Revision** **CC04T: CARTOGRAMS AND THEMATIC MAPPING - Rivision** **GEC02T: UNIT-I: MIGRATION - Rivision** **GEC02T: UNIT-II: SECTORS OF THE ECONOMY - Rivision** **GEC02T: UNIT-II: Types and patterns of Rural Settlements- Rivision** **PART-II PAPER :** **PAPER II: HUMAN GEOGRAPHY AND REGIONAL GEOGRAPHY OF INDIA** **GROUP –B: ECONOMIC GEOGRAPHY- Revision** **GROUP – C: REGIONAL GEOGRAPHY AND ENVIRONMENTAL ISSUES OF INDIA- Revision** **PART-III PAPER:** **PAPER IV: APPLIED GEOGRAPHY** **GROUP-A: SECTION-I**: **Land use and Settlement Geography- Revision.**

BIDHANNAGAR COLLEGE, GOVT. OF WEST BENGAL, SALT LAKE, KOLKATA
TEACHING PLAN FOR ODD SEMESTER & PART II and PART III, UG COURSE
DEPARTMENT OF GEOGRAPHY, SESSION – 2018-19

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 Samples Paper IV: Identification of Mineral Samples Paper VIII: Dominant and Distinctive Function	Paper III: Nature, Composition of Atmosphere Paper V: Concept & Components of Culture, Language, Religion and Ethnicity of India GEC01T: Insolation and Heat Budget
Week 5 to Week 8	CC01P: Identification of Mineral Samples Paper IV: Identification of Mineral Samples Paper VIII: Rank-size Rule	Paper III: Layering of the Atmosphere Paper V: Caste Structure, Social Stratification, Santhal&Lepcha Tribe GEC01T: Vertical Distribution of Temperature
Week 9 to Week 12	CC01P: Identification of Rock Samples Paper IV: Identification of Rock Samples Paper VIII: Lorenz Curve	Paper III: Layering of the Atmosphere Paper V: Social Ecology, Social Space; Site and Situation of Rural Settlement GEC01T: Temperature Inversion
Week 13	CC01P: Identification of Rock Samples Paper IV: Identification of Rock Samples Paper VIII: Preparation of Schedule/Questionnaire	Paper III: Factors Affecting Insolation Paper V: Hierarchy of Urban Settlement GEC01T: Horizontal Distribution of Temperature

	Practical Syllabus To Be Covered	Theory Syllabus To Be Covered
Week 14	Internal Examination and Mid-term Test	
Week 15 to Week 17	CC01P: Practice Paper IV: Choropleth Map Paper VIII: Preparation of Schedule/Questionnaire	Paper III: Heat Budget Paper V: Morphology of Urban Settlement GEC01T: Distribution of Pressure
Week 18	CC01P: Practice Paper IV: Choropleth Map Paper VIII: Preparation of Schedule/Questionnaire	Paper III: Vertical Distribution of Temperature Paper V: Morphology of Urban Settlement GEC01T: Revision

NAME OF TEACHER: RITUPARNA KHAN

WEEK	PRACTICAL TOPICS	THEORETICAL TOPICS
1 TO 4	Sem1: GEOACOR04P: none PART II Numbering and scales of topographical sheets PART III Satellite imagery and map making	Sem 1: GEOACOR02T Cartographic techniques: Grids. Angular, linear systems of measurement (cont.) PART II Economic Geography: sectors of economy, types of agriculture. PART III Concept of remote sensing
5 TO 8	Sem 1: GEOACOR04P: none PART II Interpretetation of topo sheets: relief and drainage PART III Satellite imagery and map making	Sem 1: GEOACOR02T Cartographic techniques: Grids. Angular, linear systems of measurement (cont.) PART II Economic Geography: scales of production PART III Concept of GIS (cont.)
9 TO 12	Sem 1: GEOACOR04P: none PART II Interpretetation of topo sheets: communication and settlement PART III Aerial photo interpretation	Sem 1: GEOACOR02T Cartographic techniques: Grids. Angular, linear systems of measurement PART II Economic Geography: location, problems of Indian industries PART III Applications of GIS
13	Sem 1: GEOACOR04P: none PART II Relationship between physical and cultural features PART III Thematic map making using Q GIS	Sem 1: GEOACOR02T Cartographic techniques: Grids. Angular, linear systems of measurement PART II Economic Geography: location, Prospects of Indian industries PART III Thematic mapping
14	Sem 1: GEOACOR04P: none PART II Practice PART III Practice	Revision Revision Revision
15 TO 17	Sem 1: GEOACOR04P: none PART II Practice PART III Practice	Revision Revision Revision
18	Sem 1: GEOACOR04P: none PART II Viva and class test PART III Practice	Class tests Class tests Class tests

Name of the Teacher: Dr Shewli Shabnam

Paper: GEOACOR1T, GEOACOR2T & 2P, GEOHGE01T, Part-2 (Old) Paper-III & IV, Part-3 (Old) Paper-V, VI & VIII Theory(T) and Practical(P)

Time frame	**Semester**	**Theory syllabus to be covered**	**Practical syllabus to be covered**
Week 1 to Week 4	I	GEOACOR1T: Earth's tectonic and structural evolution with reference to geological time scale GEOACOR2T: Concept and application of scales: Plain, comparative GEOHGE01T: Planetary wind System	GEOACOR2P: Graphical construction of scales: Plain, comparative
	2nd Year, Part-2	Paper-III, Group A: Planetary wind system with special reference to tri-cellular model, Rossby waves, Jet stream	Paper IV: Linear scale, enlargement and reduction of maps
	3rd Year, Part-3	Paper-V, Group-A: Concept of political geography and geo-politics, concept of frontier and boundary Paper-VI, Group-A: Definition and nature of geography, Contributions of Humboldt	Paper-VII: Interpretation of weather maps- Monsoon& Post-Monsoon
Week 5 to Week 8	I	GEOACOR1T: Earth's interior with special reference to seismology GEOACOR2T Concept and application of scales: Diagonal GEOHGE01T: Characteristics of monsoon	GEOACOR2P: Graphical construction of scales: Diagonal
	2nd Year, Part-2	Paper-III, Group A: Genesis of Monsoon and its relation with Jet stream, El Nino and La Nina	Paper IV: Diagonal scale
	3rd Year, Part-3	Paper-V, Group-A: Concept of cold war, bi-polarisation and unipolarisation Paper-VI, Group-A: Contributions of Vidal de la Blache, Carl Sauer	Paper-VII: Interpretation of weather maps- Monsoon& Post-Monsoon
Week 9 to Week 12	I	GEOACOR1T : Isostasy: Models of Airy and Pratt GEOACOR2T: Concept and application of scales: Vernier GEOHGE01T: Tropical cyclone	GEOACOR2P: Graphical construction of scales: Vernier
	2nd Year, Part-2	Paper-III, Group A: Processes of condensation and precipitation: Bergereon-Fiendison, Collision-Coalescence theories	Paper IV: Closed traverse survey by Prismatic compass
	3rd Year, Part-3	Paper-VI, Group-A: Contributions of David Harvey, Determinism, Possibilism	Paper-VII: Interpretation of weather maps- Monsoon& Post-Monsoon
Week 13	I	GEOACOR2T: Maps: Classification, types and components of a map GEOHGE01T: Revision	GEOACOR2P: Revision
	2nd Year, Part-2	Paper-III, Group A: Tropical cyclone	Paper IV: Closed traverse survey by Prismatic compass
	3rd Year, Part-3	Paper-VI, Group-A: Regional differentiation	Paper-VIII: Preparation and interpretation of climatic chart
Week 14		Internal Examination	
Week 15 to Week 17	I	GEOACOR1T: Plate tectonics GEOACOR2T: Coordinate systems: Polar and Rectangular GEOHGE01T: Climatic classification of Koppen	GEOACOR2P: Revision
	2nd Year, Part-2	Paper-III, Group A: Mid-latitude cyclone	Paper IV: Closed traverse survey by Prismatic compass
	3rd Year,	Paper-VI, Group-B: Problems of third world –	Paper-VIII: Preparation

	Part-3	Poverty, population explosion	and interpretation of Taylor's Climograph and Hythergraph
Week 18	I	Revision	Revision
	2nd Year, Part-2	Revision	Revision
	3rd Year, Part-3	Revision	Revision

DEPARTMENT OF GEOGRAPHY, SESSION – 2018-19
Name of the teacher: Dr Somdatta Das

	Practical Syllabus To Be Covered	Theory Syllabus To Be Covered
Week 1 to Week 4	CC04P: Preparation of Choropleth Map Paper IV: Proportional Pie Diagram Paper VIII: Computation of Human Development Index	CC03T: Concept and Classification of Race CC04T: Choropleth and Isopleth Maps, Proportional Circle Paper III: Temperature Inversion Paper VI: Concept of Third World, Development and Under-Development GEC02T: Race, Religion
Week 5 to Week 8	CC04P: Proportional Pie Diagram Preparation Paper IV: Dots and Sphere Diagram Paper VIII: computation of Gender Development Index	CC04T: Line Graph, Bar Graph, Preparation and Interpretation of Land use and Land cover Maps CC03T: Concept of Ethnicity and Cultural Region, Cultural Region Based on Language Paper III: Horizontal Distribution of Temperature Paper VI: Indicators of Economic, Human & Gender Development GEC02T: Religion, Language, Cultural Region

	Practical Syllabus To Be Covered	Theory Syllabus To Be Covered
Week 9 to Week 12	CC04P: Dots and Sphere Diagram Preparation Paper IV: Practice Paper VIII: Practice	CC04T: Revision CC03T: Morphology of Urban Settlement Paper III: Green House Effect Paper VI: Globalisation and Sustainable Development GEC02T: Trend and Pattern of Urbanisation
Week 13	CC04P: Practice Paper IV: Practice Paper VIII: Practice	CC03T: Morphology of Urban Settlement CC04T: Revision Paper III: Importance of Ozone Layer Paper VI: Problem of Urbanisation GEC01T: Poverty and Illiteracy
Week 14	Internal Examination and Sent-up Test	
Week 15 to Week 17	CC04P: Practice Paper IV: Practice Paper VIII: Practice	CC04T: Revision CC07T: Revision Paper III: Revision Paper VI: Revision GEC02T: Revision
Week 18	CC04P: Practice Paper IV: Practice Paper VIII: Practice	Revision of all papers

NAME OF TEACHER: RITUPARNA KHAN

WEEK	PRACTICAL TOPICS	THEORETICAL TOPICS
1 TO 4	Sem 2: none PART II Numbering and scales of topographical sheets PART III Satellite imagery and map making	Sem 2: GEOACOR03T Nature, scope and recent trends in Human Geography. PART II Economic Geography: sectors of economy, types of agriculture. PART III Concept of remote sensing (cont.)
5 TO 8	Sem 2: none PART II Interpretetation of topo sheets: relief and drainage PART III Satellite imagery and map making	Sem 2: GEOACOR03T Approaches to study Human Geography. PART II Economic Geography: scales of production PART III Concept of GIS (cont.)
9 TO 12	Sem 2: none PART II Interpretetation of topo sheets: communication and settlement PART III Aerial photo interpretation	Sem 2: GEOACOR03T UNIT II: Evolution of human societies. Human adaptation to environment. PART II Economic Geography: location, problems of Indian industries PART III Applications of GIS (cont.)
13	Sem 2: none PART II Relationship between physical and cultural features PART III Thematic map making using Q GIS	Sem 2: GEOACOR03T Population-resource regions. PART II Economic Geography: location, Prospects of Indian industries PART III Thematic mapping (cont.)
14	Sem 2: none PART II Practice PART III Practice	Revision Revision Revision
15 TO 17	Sem 2: none PART II Practice PART III Practice	Revision Revision Revision
18	Sem 2: none PART II Viva and class test PART III Viva and class test	Class tests Class tests Class tests

Name of the Teacher: Dr Shewli Shabnam

Paper: GEOACOR1T, GEOACOR2T & 2P, GEOHGE02T,Part-2 (Old) Paper-III & IV, Part-3 (Old) Paper-V, VI & VIII

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 GEOHGE02T: Factors of growth and distribution of world population	GEOACOR4P: Maths related to bearing
	2nd Year, Part-2	Paper-III, Group A: Climatic classification after Koppen and Thornthwait	Paper IV: Vernier scale
	3rd Year, Part-3	Paper-V, Group-A: Concept of political geography and geo-politics, concept of frontier and boundary Paper-VI, Group-A: Definition and nature of geography, Contributions of Humboldt	Paper-VIII: Interpretation of climatic chart, Taylor's Climograph and Hythergraph
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
	2nd Year, Part-2	Paper-III, Group B: Soil erosion: Types, factors, management	Paper IV: Vernier scale
	3rd Year, Part-3	Paper-V, Group-A: Concept of cold war, bi-polarisation and unipolarisation Paper-VI, Group-A: Contributions of Vidal de la Blache, Carl Sauer	Paper-VII: Preparation of field report
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
	2nd Year, Part-2	Paper-III, Group B: Soil classification- genetic and taxonomical, with special reference to India	Paper IV: Levelling by Dumpy Level
	3rd Year, Part-3	Paper-VI, Group-A: Contributions of David Harvey, Determinism, Possibilism	Paper-VII: Preparation of field report
Week 13	II	GEOACOR3T: Demographic transition GEOACOR4T: Basic concept of theodolite GEOHGEC02T: Revision	GEOACOR4P: Traverse survey using prismatic compass
	2nd Year, Part-2	Paper-III, Group B: Revision	Paper IV: Levelling by Dumpy Level
	3rd Year, Part-3	Paper-VI, Group-A: Regional differentiation	Paper-VII: Preparation of field report
Week 14		Internal Examination	
Week 15 to Week 17	II	GEOACOR3T: Space, society and cultural regions GEOHGEC02T: Migration: Types, causes and consequences	GEOACOR4P: Revision
	2nd Year, Part-2	Paper-III, Group B: Principles of land classification: USDA	Paper IV: Levelling by Dumpy Level
	3rd Year, Part-3	Paper-VI, Group-B: Problems of third world – Poverty, population explosion	Paper-VII: Preparation of field report
Week 18	II	Revision	Revision
	2nd Year, Part-2	Revision	Revision
	3rd Year, Part-3	Revision	Revision

Bidhannagar College

Teaching Plan for Odd Semester & Annual system

Philosophy

Session 2018-2019

NAME OF THE TEACHER: DR. SANKALITA GHOSH.

Week	Sem/Year	Paper	Subject
1-4	Sem 1	CC1	Basic concepts of pre-socretic philosophy: Ionian, Eliatics, Heraclitus, Sophists, Plato,Aristotle
		GE- Logic	Basic Concepts: Proposition, Quality, Quantity etc.
	2nd Year	Paper II	History of Western Philosophy: Introduction, Plato(Theory of Knowledge, Opinion, Its refutation), Aristotle(Form and Matter)
	3rd Year	Paper V	Tarkasamgraha: Buddhi, Smrti, Anubhava
5-8	Sem 1	CC1	Descartes (Method of Doubt, Cogito, Differtypes of Ideas, Criterion of Truth)
		GE-Logic	Distribution of Terms, Traditional Square of Opposition Conversion, Obversion, Contraposition
	2nd Year	Paper II	Descartes (Theory of Knowledge, Theory of Substance)
	3rd Year	Paper V	Tarkasamgraha: Yathartha, Ayathartha anubhava, Karana. Karana, Annyathasiddhi
9-12	Sem 1	CC1	Spinoza (Substance, Attributes & Modes, Existence of God)
		GE-Logic	Categorical Proposition, Categorical Syllogism
	2nd Year	Paper II	Spinoza (Pantheism, Theory of Knowedge)
	3rd Year	Paper V	Tarkasamgraha: Pratksha, Anumiti: Definition Etc
15-17	Sem 1	CC1	Leibnitz (Innate Idea, Monad)
		GE-Logic	Venn Diagram, Practice Logic
	2nd Year	Paper II	Leibnitz (Truths of Reason, Truths of Fact, Pre-Established Harmony)
	3rd Year	Paper V	Tarkasamgraha: Anumiti
18	Revision, Class Test etc. For CC1 Only		

Bidhannagar College

Teaching Plan for Even Semester & Annual system

Philosophy

Session 2018-2019

Name of the teacher: DR. SANKALITA GHOSH.

Week	Sem/Year	Paper	Subject
1-4	Sem 2	CC3	Indian Philosophy: Introduction, Jaina Philosophy (Concepts of Jiva, Ajiva, Dravya, Guna, Paryaya, Anekantavada, Syadvada)
	2nd Year	Paper 2	Locke(Ideas and Classification, Refutation of Innate Ideas, Substance, Realism, Theory of Knowledge, Primary and Secondary Qualities)
	3rd Year	Paper V	Tarkasamgraha: Anumiti Pramana
5-8	Sem 2	CC3	Nyaya Philosophy (Four Pramanas, Pratyaksa-Definition, Classification-Nirvikalpaka-Savikalpaka, Laukika-Aloukika), Pratyavijna
	2nd Year	Paper 2	Berkeley(Rejection of Abstract Ideas, Rejection of the distinction between primary and secondary Qualities, Esse est percipi, Idealism)
	3rd Year	Paper V	Tarkasamgraha: Anumiti Pramana, Upamiti Pramana, Sabda Pramana
9-12	Sem 2	CC3	Nyaya Anumana- Definition, Paksa, Sadya, Hetu, Vyapti, Vyaptigrohopaya, Svarthanumana, Pararthanumana, Outlines of Upamana, Sabda,) and Vaisesika Philsophy Dravya, Guna, Karma)
	2nd Year	Paper 2	Hume(Impression & Idea, Association of Ideas, Relation of Ideas & Matters of Fact, Causality, Secpticism)
15-17	Sem 2	CC3	Vaisesika Philosophy (Samanya, Visesha, Samavaya, Abhava, Paramanuvada)
	2nd Year	Paper 2	Kant (Critical Philosophy, Possibility of Metaphysics, Copernican Revolution, A priori, A posteori, Distinction between Analytic and Synthetic judgement, Space time, Noumena Phenomena, Transcendental Idealism, Synthetic A priori Possible?)
18			
Revision For CC3 Only, Class Test			

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

Teaching Plan for Semester I and 2nd year 3rd year UG course

Department of Philosophy

Session(2018-2019)

Class: B.A

Semester 1, ,2nd year,3rd year **Name of the Teacher:Tanima Chatterjee**

Subject :Philosophy

Paper : CC1,CC2,GEC01T,Paper 4 ,Paper 6,Paper7(1+1+1 system)(Theory)

Sl No	Week	Theory Syllabus to be covered
1.	Week 1 to week 4	PHIACOR01T: Theory of Knowledge and opinion PHIACOR02T:Basic concept ,proposition to argument form PHIACOR03T: Basic concepts in Indian philosophy PHIACOR04T :Probability PHIHGEC01T:Categorical proposition: existential import,Boolean interpretation Paper 4 : Review of traditional laws of logic,immediate inference ,syllogism Paper 6 :Nature of ethics and ethical problems , Origin of religion ,Anthropological theory Paper 7: Problem of Philosophy:Appearance and reality
2.	Week 5 to 8	PHIACOR01T :Refutation of Plato's theory of knowledge by Aristotle,Plato's theory of Idea PHIACOR02T : Truth functional connectives, truth and validity PHIHGEC01T: Syllogism : figure, mood rules for validity Paper 4 : Venn diagram technique Paper 6 : Hedonism ,Religion: psychological theory Paper 7 : Knowledge by acquaintance and Kowledge by description.
3.	Week 9 to 12	PHIACOR01T :Aristotle's refutation of plato's theory PHIACOR02T: Traditional laws of logic :overview, Boolean Interpretation PHIHGEC01T: Venn diagram Paper 4 : Causal connection to Method of Agreement Paper 6: Utiliterianism, Nature and scope of Philosophy of Religion,Magic and religion Paper 7 : Knowledge by acquaintance and Kowledge by description continued.
4.	Week 13	PHIACOR01T: Aristotle:Form and matter PHIACOR02T: Syllogism PHIHGEC01T: Venn diagram Paper 4 :Joint method Paper 6 : Deontological theory :act and rule ,Sacred and profane, Ontological and cosmological argument. Paper 7: On Induction
5.	Week 13 to 14	Internal Exam
6.	Week 15 to 17	PHIACOR01T :Mediaeval Philosophy PHIACOR02T :Venn diagram PHIHGEC01T :Inductive logic Paper 4 :Rest of Mill's method Paper 6 :Kant's moral theory,Teleological argument Paper 7 :On Induction continued
7.	Week 18	Revision

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

Teaching Plan for Semester 2 and 2nd year 3rd year UG course

Department of Philosophy

Session(2018-2019)

Class: B.A

Semester 2, 2nd year,3rd year **Name of the Teacher:Tanima Chatterjee**

Subject :Philosophy

Paper : CC3,CC4,GEC02T,Paper 4 ,Paper 6,Paper7(1+1+1 system)(Theory)

Sl No	Week	**Theory Syllabus to be covered**
1.	Week 1 to week 4	PHIACOR03T: Basic concepts in Indian philosophy PHIACOR04T :Probability PHIHGEC02T:Theories of the origin of knowledge: Rationalism Paper 4 : Probability Paper 6 : Naturalism, Teleological argument, Comparative religion, meaning and scope Paper 7: On Induction continued, Value of Philosophy
2.	Week 5 to 8	PHIACOR03T : Carvaka epistemology PHIACOR04T : Mill's method of Agreement, method of Difference PHIHGEC02T: Empiricism Paper 4 : Explanation scientific and unscientific Paper 6 : Emotivism, Religion: Moral argument and sociological theory Paper 7 : World of universals
3.	Week 9 to 12	PHIACOR03T : Carvaka metaphysics, Bauddha four noble truths PHIACOR04T: Mill's other methods PHIHGEC02T: Kant's critical theory Paper 4 : Preliminary hypothesis Paper 6: Emotivism ,Freudian theory, Hinduism , Islam and christianity Paper 7 : World of universals continued,Value of Philosophy.
4.	Week 13	PHIACOR03T: Pratityasamutpadavada ,Ksanavangavada PHIACOR04T: Induction per simple enumeration PHIHGEC02T: Realism and Idealism. Paper 4 : Scientific hypothesis continued.
5.	Week 13 to 14	Internal Exam
6.	Week 15 to 17	PHIACOR03T :Nairatmavada,Basic tenets of four Bauddha schools PHIACOR04T : Criteria of scientific hypothesis PHIHGEC02T : Naïve and representative Realism Paper 4 : Pattern of scientific investigation to ad hoc hypothesis
7.	Week 18	Revision

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

Teaching Plan for Odd Semester, UG course Department of Anthropology

Session (2018-2019)

Class: B.Sc.
Semester 1, old 3rd yr., old 2nd yr. Name of the Teacher: Dr Sankha Priya Guha Subject: Anthropology
Paper: ANTACOE01T, Paper IV, Paper VI (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		**ANTACOE01T** **Unit – II: Concepts of Society and Culture** (Definitions and salient features) 1. Society, Group, Community **Old 3rd Year**: Tribal Development in India.
Week 5 to week 8	Field work Preparation	**Unit II**: Social Institution, Social Unit, Social Association, Social Fact, Socialization, Social System (Social Structure & Social function), Status and Role, Social Stratification, Gender, Ethnicity. Old 2nd year / paper IV: Basic sociocultural system
Week 9 to Week 12		**ANTACOE01T** **Unit II**: Social Institution, Social Unit, Social Association, Social Fact, Socialization, Social System (Social Structure & Social function), Status and Role, Social Stratification, Gender, Ethnicity. **ANTACOE01T** PaperIV: Economic System, Social system Social Institution, Social Unit, Social Association, Social Fact, Socialization, Social System (Social Structure & Social function), Status and Role, Social Stratification, Gender, Ethnicity.
Week 13		Old 3rd year: Tribal Displacement and Rehabilitation Problem, Role of Anthropologists in tribal welfare. Old 3rd Year: Tribal Development in India. Tribal Problems, tribal Movements
Week13 to week 14		**Internal Exam**
Week 15 to 17		**2nd Year.Paper IV**: Ecological Anthropology, Basic concepts Culture and ecology, Anthropology of Religion.
Week 18	Revision, Practise	Revision

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

Teaching Plan for Odd Semester, UG course Department of Anthropology

Session (2018-19)

Class: B.Sc.
Semester 1, old 3rd yr., old 2nd yr. Name of the Teacher: Dr Bandana Chakraborty
Subject: Anthropology
Paper: ANTACOE01T, Paper IV, Paper VI (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 – I: Introduction to Archaeological Anthropology:** Methods of study - site survey and excavation, Different methods of exploration/site survey; Different stages of excavation - pre-excavation stage, actual stages of digging up of archaeological site, trial trench, horizontal and vertical excavation; Differences between excavation and exploration. Old 2rd Year: Paper 2, group A: Field Archaeology
Week 4 to week 8	Paper 4/ Practical	**Unit – III: Paleo-environment:** 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. Old 2nd year, Paper 2/group A: Dating Methods
Week 8 to Week 12		**Unit – V: World prehistory:** Africa: The earliest Paleolithic assemblages of Africa - Oldtown, Acheulian; Middle Stone Age, Later Stone Age; Europe: Acheulian, Levalloisian, Middle and Upper Paleolithic Culture, Mesolithic Culture, Neolithic Culture. Prehistoric art (home and cave art).
Week 13		**Unit – V: World prehistory:** India: The earliest Paleolithic assemblages, Acheulian, Middle Paleolithic Culture, Upper Paleolithic, Micro-blade assemblages, Late Stone Age and Neolithic Culture, Megaliths.
Week13 to week 14		**Internal Exam**
Week 15 to 17		**Old 2nd year. Paper IV group A:** Dating Methods.
Week 18		Revision

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

Teaching Plan for Odd Semester, UG course Department of Anthropology

Session (2018-2019)

Class: B.Sc.
Semester 1, old 2nd year, old 3rd year Name of the Teacher: Dr Sudesna Chanda
Subject: Anthropology
Paper : ANTACOR01T, Paper III, Paper V (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	**Paper IV group B:** Craniometry Practical: Linear measurements and indices **Old 3rd year paper VII:** Practical	**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; different branches and fields of study; Relationship of biological anthropology with medical science, health science, life science, earth science and environmental science. **ANTACOR01T/Unit – II: Theories of organic evolution:** Lamarckism, Neo-Lamarckism, Darwinism, Neo- Darwinism, Synthetic theory, Neutral theory; **Paper III, 2nd Year:** Some basic concepts of Evolution: Speciation - Allopatric, Parapatric, Sympatric, Gradualism, Punctuated equilibrium, Irreversibility, Parallelism and Convergence, Adaptive Radiation, Extinction.
Week 5 to week 9	**ANTACOR01P Unit – I:** Identification of Human cranium – it's different normas - *norma verticalis; norma lateralis; norma occipitalis; norma basalis; norma frontalis;* Identification of Cranial bones: Frontal, Parietal, Temporal, Occipital, Maxilla, Zygomatic, Sphenoid, Mandible (anatomical position, side determination, where applicable).	**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. **ANTACOR01T Unit – III: Study of Primates in evolution:** Primates: Definition, characteristics. Classification of living primates up to family level with example (Simpson); concepts of Strepsirrhini and haplorrhine. Primate behaviour: Social and sexual behaviour of non-human primates, social group composition (with examples from Orangutan and Chimpanzee) **3rd Year: Paper V**: Human 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:** Primate evolutionary trends: limbs & locomotion, teeth & diet, senses, brain & behavior. Morphological and anatomical features of apes. **ANTACOR01T Unit – IV:** Human skeletal anatomy and functional morphology of bones as parts of total skeleton
Week 13	**Old 3rd year paper VII**: Practical	**ANTACOR01T Unit – IV:** Human skeletal anatomy and functional morphology of bones as parts of total skeleton **3rd Year: Paper V**: Human Genetics
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	Relevance of studying human bones.
Week 18	Revision	Revision

Teaching Plan for Odd Semester, UG course Department of Anthropology

Session (2018-2019)

Class: B.Sc.

Semester 1, old 2nd yr., old 3rd year Name of the Teacher: Dr Krishnendu Polley

Paper: ANTACOR01T, ANTACOR03T/P Paper IV (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	**Old 3rd year Paper VIII:** Practical	ANTACOR03T**: Unit – I: Introduction to Archaeological Anthropology:** Definition and scope of ArchaeologicalAnthropology, 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;
Week 5 to week 9	ANTACOR01P **Unit – I:** Drawing and labeling of Tool types: Identification of Typo-technological attributes, 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 –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; **Old 2rd Year: Paper 2**, group A: Field Archaeology, dating Methods
Week 8 to Week 12	ANTACOR01P Unit **– II:** Osteology	**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. **Old 2rd Year: Paper 2**, group A: Field Archaeology, dating Methods
Week 13	**Old 3rd year paper VII**: Practical	**ANTACOR03T** Concept of Absolute (Chronometric) and Relative (Non-Chronometric) dating methods.
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	
Week 18	Revision	Revision

Teaching Plan for Odd Semester, UG course Department of

Anthropology

Session (2018-2019)

Class: B.Sc.

Semester 1 , old 3rd Year and 2nd Year Teacher: Kaushik Bhattacharya

Paper : ANTACOR01T, ANTA02P: ANTA03T: Paper 4, Paper VII, Paper VI (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		**ANTACOR01T Unit – I:** **1.** Fun**damentals 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.	**ANTACOR03T** **Concepts of the major sub-fields**: Economic Anthropology, Political Anthropology, Anthropology of Religion, Psychological Anthropology, Cognitive Anthropology, Medical Anthropology, Legal Anthropology, Visual Anthropology. Concept and brief overview of Linguistic Anthropology. **1. 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. **Old 3rd year**: Tribal Displacement and Rehabilitation Problem, Role of Anthropologists in tribal welfare.
Week 13		2nd Year.Paper IV: **Ecological Anthropology, Basic concepts Culture and ecology, Anthropology of Religion.**
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laborator y Note-Book	**3rd Year: Paper VII**: Applied Anthropology, Medical Anthropology, Legal Anthropology, Visual Anthropology. Concept and brief overview of Linguistic Anthropology
Week 18	Revision	Revision

Teaching Plan for Odd Semester, UG course Department of

Anthropology

Session (2018-2019)

Class: B.Sc.

Semester 1 , old 2nd and 3rd year Name of the Teacher: Kartik Chakraborty

Paper: ANTACOR01T, ANTACOR02T, Paper VI (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	**ANTA01P/UnitII:** Anthroposcopy (**at-least 10 subjects**): Assessment of skin color: exposed (forehead) and unexposed (inner surface of the upper arm). Head Hair: form, color, texture, quantity, whorl (number and type), hair limit.	**ANTACOR02T/Unit – II:** **1.** Material Culture: Definition and importance, Types and functions of various forms of hunting, fishing, agricultural implements, dress, ornaments, house types in different environmental background **ANTACOR01T/ Unit III,4**. Primate evolutionary trends: limbs & locomotion, teeth & diet, senses, brain & behavior. Morphological and anatomical features of apes viz. gibbons, orangutan, chimpanzee, gorillas. Comparison of morphological and anatomical features of humans and apes **3rd Year: Paper VII:** Anthropology and Rural Development, Political. Concept and brief overview of Linguistic Anthropology
Week 5 to week 8	**ANTA01P:** Facial Hair: beard and moustache. Nose: depression of the nasal root, height of the nasal bridge, nasal profile, tip of the nose, inclination of the septum, nasal wings. Ear: size, shape, ear lobe (size, form and attachment), hypertrichosis of ear.	**ANTACOR02T/Concepts of the major sub-fields**: Economic Anthropology, Political Anthropology, Anthropology of Religion, Psychological Anthropology, Cognitive Anthropology, Medical Anthropology, Legal Anthropology, Visual Anthropology. Concept and brief overview of Linguistic Anthropology. **Relationship with Social Sciences**: Economics, Geography, History, Political Science, Psychology, Sociology.
Week 9 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.
Week 13		**3rd Year: Paper VII:** Development Anthropology, Rural politics, Tribal development
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	**ANTACOR01T/ Unit III,4**. gibbons, orangutan, chimpanzee, gorillas. Comparison of morphological and anatomical features of humans and apes
Week 18	Revision	Revision

Teaching Plan for Odd Semester, UG course Department of

Anthropology

Session (2018-2019)

Class B.Sc.
Semester 1, old 2nd year, old 3rd Year **Name of the Teacher: Soumita Biswas**
Paper : ANTACOR02T, **(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		**ANTACOR02T** **Unit – III: Social Organization:** **1. Family**: Definition, Types & Functions, Changes due to Industrialization & Urbanization (with special reference to Indian Context).
Week 5 to week 8	**ANTA02P:** Writing **ONE CASE STUDY** on any one of the following events from one family - Birth, Marriage, Death, Thread Ceremony, Household ritual (e.g. *Pujas*/ *brotos*, religious ritual and festival of other communities).	**ANTACOR02T** **Unit – III/ 2. Marriage**: Definition, Types, Preferential & Prescribed forms of marriage, Functions of marriage, Universality of marriage, Incest taboo, Ways of acquiring mates in tribal society, Forms of marital transaction and exchange theory (Dowry, Bride price, Gift), Post-marital residence, Divorce & Remarriage. **3rd Year: Paper VII:** Local Self Government**,** Anthropology and Rural Development, Political. Concept and brief overview of Linguistic Anthropology
Week 9 to Week 12	**ANTA02P**: Drawing ONE GENEALOGICAL CHART (with kinship terminology) of one family(Minimum 3 generations).	**ANTACOR02T** **Kinship**: Definition, Structure of kinship (Murdock); Function of kinship, Kinship behaviour - Avoidance, Joking, Couvade, Teknonymy; Kinship system - Hawaiian, Eskimo, Sudanese, Iroquis, Crow, Omaha, Bengali kinshipsystem; Descent - Types & Functions; Unilateral, Bilateral & Double descent.
Week 13	Preparation of **SCHEDULE / QUESTIONNAIRE** any one of the following: Enumeration form (Census) Schedule for understanding Economic Pursuit a. Schedule for understanding Political Organization	**ANTACOR02T** **Kinship**: Kinship system - Hawaiian, Eskimo, Sudanese, Iroquis, Crow, Omaha, Bengali kinshipsystem; Descent - Types & Functions; Unilateral, Bilateral & Double descent. **Old 2nd year / paper IV**: Basic sociocultural system Types of Political organization. Tribal Sociopolitical Systems.
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	**3rd Year: Paper VII:** Local Self Government
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course Department of

Anthropology

Session (2018-2019)

Class:B.A/ B.Sc
Semester 2, Old 2nd year, old 3rd Year Name of the Teacher: Dr Sankha Priya Guha
Paper : ANTACOR03T, Paper IV, VIII (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: UnitI: Introduction to Archaeological Anthropology:** Definition and scope of Archaeological Anthropology, Relationship with other disciplines - history, anthropology and other natural sciences.
Week 5 to week 8		**ANTACOR03T: UnitI** A brief introduction to different cultural stages in Prehistory and Protohistory; **Paper VI, Old 3rd year**: Village studies in India, Caste system Old 3rd year: Tribal Displacement and Rehabilitation Problem, Role of Anthropologists in tribal welfare.
Week 9 to Week 12		**Unit III: Religion:** Definition and Anthropological approach; Animism, Animatism, Manaism, Totemism; Magic and Religion. **Paper 6, Old 3rd year: social change**, Unit V : Cultural theory
Week 13		**ANTACOR03T /Unit –II**: Methods of Estimation of time in archaeology: **Old 3rd Year:** Tribal Development in India. Tribal Problems, tribal Movements
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	**Old 3rd Year: Paper VI:** Tribal Development in India. Tribal Problems, tribal Movements
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course Department of

Anthropology

Session (2018-2019)

Class : B.Sc.
Semester II, Old 2nd year, old 3rdyea
Name of the Teacher: Dr Bandana Chakraborti
Paper : ANTACOR03T, ANTACOR03P (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	**ANTACOR03P/ Unit – I:** Drawing and labeling of Tool types: Identification of Typo-technological 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. Old 3rd Year: Paper V, Group B, Development of Post Pleistocene culture
Week 5 to week 8	**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 3rd Year: Mesolithic , Neolithic Culture
Week 9 to Week 12		**ANTACOR03T/Unit – V** 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. Old 3rd Year: Neolithic Revolutiobn
Week 13		**Paper IV:** Old 2nd Year: Archaeology
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	**ANTACOR03T** Methods of dating: Stratigraphy, Typo-technological analysis, C14, K/Ar, Dendrochronology, TL; Concept of Absolute (Chronometric) and Relative (Non-Chronometric) dating methods. **Paper IV**: Old 2nd Year: Archaeology
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course Department of Anthropology

Session (2018-2019)

Class:B.A/ B.Sc
Semester 1I , old 2nd year and 3rd year
Name of the Teacher: Dr Sudesna Chanda
Paper : ANTACOR04T, ANTACOR034P, Olds 3rd Year Paper V (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 – I:** Identification of extant anthropoid skulls with reference to features relevant to Hominid evolution (Gorilla, Chimpanzee, Orangutan and Gibbon). **Old 3rd year paper VII**: Practical	**ANTACOR04T Unit –II** **Unit – I: Paleoanthropology:** Definition, aim & scope; Fossils - Process of fossilization, Significance of fossils. **Unit – II: Oligocene Anthropoids:** Parapithecus, Aegyptopithecus; Primate origin and radiation with special reference to Miocene hominoids - Dryopithecus, Sivapithecus; Distribution, features and their phylogenetic relationships. **Old 3rd Year:** Paper V, methods of Human genetics, Chromosomal disorders, population genetics
Week 5 to week 8	**ANTACOR04P/** *H. Sapiens neanderthalensis* (La-Chapple-aux-saints), *H. sapiens sapiens* (Cro-magnon).	**ANTACOR04T/ Unit V:** La-Chapelle-Aux–saints, Tabun Man; Phylogenetic position. Archaic *Homo sapiens*: Anatomical features of Archaic *Homo sapiens*; Phylogenetic position of Archaic *Homo sapiens*. **Old 3rd Year:** Paper V, Human Growth. Applied Biological Anthropology
Week 9 to Week 12	Old 3rd Year: Paper VII Anthropometry, Skinfold measurements, Dermatoglyphics. **ANTACOR03P/ Unit –I:** Identification of extant anthropoid skulls with reference to features relevant to	**Old 3rd Year:** Paper V, methods of Human genetics, Chromosomal disorders, population genetics **Old 3rd Year:** Chromosomal aberrations **Paper III, 2nd Year:** Organic evolution. Some basic concepts of Evolution: Speciation - Allopatric, Parapatric, Sympatric, Gradualism, Punctuated equilibrium, Irreversibility, Parallelism andConvergence, Adaptive Radiation, Extinction. **Old 3rd Year:** **Paper V:** Human genetic. Chromosomal aberrations, Genetic Counselling. Genetic variation and its sources.
Week 13		**Old 3rd Year: Paper V:** Chromosomal aberrations, Genetic Counselling. Genetic variation and its sources.
Week13 to week 14		**Internal Exam**
Week 15 to 17	Labor atory Note-Book	**ANTACOR04T Unit – II: Hominization Process, Biocultural Process. Oligocene Anthropoids:** Parapithecus, Aegyptopithecus; Primate origin and radiation withspecial reference to Miocene hominoids -
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course Department of

Anthropology

Session (2018-2019)

Class: B.Sc.
Semester II, old 2nd and 3rd year
Name of the Teacher: Dr Krishnendu Polley
Paper: ANTACOR03T, ANTACOR03P, Old 3rd Year Paper V (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	**ANTACOR03P/** **Unit – I:** Identification of extant anthropoid skulls with reference to features relevant to Hominid evolution (Gorilla, Chimpanzee, Orangutan and Gibbon).	ANTACOR03T**: Unit – I: Introduction to Archaeological Anthropology:** Definition and scope of ArchaeologicalAnthropology, 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; **Paper VI: Old 3rd Year:** Development of Post Pleistocene Culture. **Paper VI: Old 3rd Year:** Chalcolithic Culture of India
Week 5 to week 8	**ANTACOR03P/** **Unit – I:** Drawing and labeling of Tool types: Identification of Typo-technological attributes,	**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 - 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):	**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. **Paper VI: Old 3rd Year:** Development of Post Pleistocene Culture. **Paper VI: Old 3rd Year:** Chalcolithic Culture of India
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 **Paper VI: Old 3rd Year:** Chalcolithic Culture of India
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	Revision
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course

Department of Anthropology

Session (2018-2019)

Class: B.Sc.
Semester II, old 2nd and 3rd year Name of the Teacher: Kaushik Bhattacharya
Paper: ANTACOR04T, 3T, ANTACOR03P, Paper VI (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. **Old 3rd year: Paper VII, Importance of Field work** **2nd Year.Paper IV**: Anthropology of Religion, Ecological Anthropology, Basic concepts Culture and ecology, Anthropology of Religion
Week 5 to week 8		**Unit – III: Australopithecines:** Distribution and types, features and their phylogenetic relationships; Evolution & extinction of Australopithecines. Appearance of genus Homo (*Homo habilis*) morphological features and related finds; Phylogenetic status of *Homo habilis*. **Old 3rd year: Paper VII, Village study, Culture study.**
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. **2nd Year.Paper IV**: Ecological Anthropology, Basic concepts Culture and ecology, Anthropology of Religion
Week 13		**Unit III:** Importance of paleo-environmental study in paleoanthropology and prehistory
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laborator y Note-Book	**Old 2nd year / paper IV**: Tribe, Caste, community Basic sociocultural system Types of Political organization. Tribal Sociopolitical Systems.
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course Department of Anthropology

Session (2018-2019)

Class:B.A/ B.Sc

Semester 1I, old 2nd and 3rd year Name of the Teacher: Kartick Chakraborty

Paper: ANTACOR04P, ANTACOR03T, Paper VII (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,	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, **Unit – VI: Origin of modern humans (*Homo sapiens sapiens*):** Anatomically modern *Homo sapiens* (AMHS) - Cro-Magnon, Grimaldi, Chance lade – Distribution, features and their phylogenetic position.
Week 5 to week 8	**ANTACOR03P/** **Unit – I:** Drawing and labeling of Tool types: Identification of Typo-technological 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. **Old 2nd year / paper IV**: Political Anthropology Basic sociocultural system
Week 9 to Week 12		**ANTACOR03T:** Unit – III: Prehistoric art (home and cave art); India: The earliest Paleolithic assemblages, Acheulian, Middle Paleolithic Culture, Upper Paleolithic, Micro-blade assemblages **Paper VI, 3rd Year:** Village studies, Field work
Week 13		**Unit III:** Climatic fluctuations of Pleistocene period in Europe, Africa and India, Glacial and Pluvial zones
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	**ANTACOR03T:** Unit – III: Prehistoric art (home and cave art); India: The earliest Paleolithic assemblages, Acheulian, **Paper VI, 3rd Year:** Village studies, Field work
Week 18	Revision	Revision

Teaching Plan for Even Semester, UG course Department of Anthropology

Session (2018-2019)

Class: B.Sc.
Semester 1I, old 2nd yea, old 3rd year Name of the Teacher: Soumita Biswas
Paper: ANTACOR04P, ANTACOR03T, Olds 3rd Year Paper VII (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 – I: Introduction to Archaeological Anthropology:** Definition and scope of Archaeological Anthropology, Relationship with other disciplines - history, **Old 3rd Semester: paper VI:** Group A: Tribal movements, Anthropological Theories, Theories of field work **PaperIV:** Culture and Ecology, ecological Anthropologies
Week 5 to week 8		**Unit – V:** Acheulian, Levalloisean, Middle and Upper Paleolithic Culture, Mesolithic Culture, Neolithic Culture. **PaperIV:** Political Anthropology, panchayat System.
Week 9 to Week 12		**ANTACOR 03T/ Unit – III:** Upper Paleolithic, Micro-blade assemblages, Late Stone Age and Neolithic Culture, Megaliths . PaperIV: **Culture and Ecology, ecological Anthropologies**
Week 13		**Unit III:** Climatic fluctuations of Pleistocene period in Europe, Africa and India, Glacial and Pluvial zones **PaperIV:** Culture and Ecology, ecological Anthropologies
Week13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note-Book	**Old 3rd Semester: paper VI:** Group A: Tribal movements, Anthropological Theories, Theories of field work
Week 18	Revision	Revision

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

Teaching Plan for Odd Semester, UG course

Department of Statistics

Session 2018-19

Class: B.A/ B.Sc
Semester 1,3,Part-II & Part-III(1+1+1) system
Name of the Teacher: Mr. Arup Kumar Hait
Subject: Statistics
Paper : STSACOR01, Part-II Paper-IV, Section –I , Part-III, Paper-V & Part-III,Paper-VI (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	**STSACOR01P** • Graphical representation of data. • Stem and Leaf Display • Problems based on measures of central tendency. **Part-III, Paper-V** • Simple linear regression. • Multiple regression. • Multiple Correlation • Partial Correlation	**STSACOR01T** Definition and scope of Statistics, concepts of statistical population and sample. 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. Measures of Central Tendency: mathematical and positional. **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** Introduction : Examples of time series from various fields. Components of time series . Additive and Multiplicative models. Trend and Seasonal Components . **Part-III, Paper-V** Multivariate data – its graphical representation, multiple correlation and partial correlation and their properties, multiple regression and related results. , Partial Correlation. **Part-III,Paper-VI** Design of Experiments : Principles of Experimental Design :Randomization, Replication and Local Control, Uniformity trials, Shapes and Sizes of Plots and Blocks
Week 5 to week 8	**STSACOR01P** • Problems based on measures of dispersion. • Problems based on combined mean and variance and coefficient of variation. • Problems based on moments **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis**	**STSACOR01T** Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation. Moments, absolute moments, factorial moments, Sheppard's corrections (without proof). **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis**

	• Determination of trend by curve fitting • Determination of trend by moving averages	Estimation of trend by linear filtering (simple weighted moving averages) and curve fitting (polynomial, exponential and Gompertz). **Part-III, Paper-V** Regression with binary data: Logistic regression and fitting by least square method. **Part-III,Paper-VI** Standard Designs and their Analyses : Completely Randomised Design (CRD), Randomised Block Design (RBD), Latin Square Design (LSD),
Week 9 to Week 12	**STSACOR01P** • Problems based on moments, skewness and kurtosis. • Box Plot • Karl Pearson correlation coefficient. • Correlation coefficient for a bivariate frequency distribution. • Lines of regression, angle between lines and estimated values of variables. **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** • Determination of seasonal indices by method of averages Design of Experiments **Part-III,Paper-VI** • Analysis of CRD • Analysis of an RBD • Analysis of an LSD	**STSACOR01T** Measures of skewness and kurtosis. Box Plot. Definition, scatter diagram, simple correlation, linear regression and principle of least squares **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** Variate Difference method. Detrending. Estimation of seasonal component by ratio to moving –average method, ratio to trend method. Deseasonalization. **Part-III, Paper-V** Random Vector : Probability mass and density functions, Distribution Function, Mean Vector and Dispersion matrix, Marginal and Conditional Distributions, Multiple Regression, Multiple Correlation **Part-III, Paper-VI** Split Plot Design, comparison of efficiencies. Applications of the techniques of Analysis of variance to the analysis of the designs.
Week13 to week 14	**Class Tests and Internal Exam**	
Week 15 to 17	**STSACOR01P** • Fitting of polynomials, exponential curves. • Spearman rank correlation with and without ties. • Computation of correlation ratio.	**STSACOR01T** Fitting of polynomials and exponential curves, Spearman rank correlation, correlation ratio, intra-class correlation. **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis**

	• Computation of intra class correlation coefficient. **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** • Harmonic Analysis • Correlogram Analysis **Part-III,Paper-VI** • Analysis of 2^2 and 2^3 factorial in CRD and RBD • Analysis of 2^2 and 2^3 factorial in LSD	Stationary Time Series : Weak stationarity. Autocorrelation. Function and Correlogram. Test for Randomness (Kendall' s τ). **Part-III,Paper-VI** Factorial Experiments : 2^n (2^3 and 2^2 only) experiments, Advantages,

Class: B.Sc. (Honours)
Semesters: 1 (CBCS), Part II & III (1+1+1 System)
Name of the Teacher: Kiranmoy Chatterjee
Subject: Statistics
Paper : STSACOR01T, STSACOR02T (CBCS), Paper III, IV

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	Practical exercises related to Paper III: Probability Theory II (2^{nd} Year, 1+1+1 System)	Paper STSACOR02T(CBCS) : Vector spaces, subspaces, sum of subspaces, Span. Linear dependence and independence, basis and dimension, dimension theorem. Paper III: Probability Theory II (2^{nd} Year, 1+1+1 System): Defnition of continuous random variable**,** Univariate Continuous Distributions : Rectangular, Normal, Cauchy, Gamma, Beta, Exponential, Laplace, Logistic, Pareto, Log-normal distributions and their properties, Concept of truncated distribution and censoring----Truncated Exponential. Paper IV: Statistical Quality Control (2^{nd} Year, 1+1+1 System): Introduction : Concepts of Quality and Quality Control, Process Control and Product Control, Process Control : Control Charts And their uses, Choice of Subgroup sizes
Week 5 to week 8	Practical exercises related to Paper III: Probability Theory II (2^{nd} Year, 1+1+1 System) Practical exercises related to Paper IV: Statistical Quality Control (2^{nd} Year, 1+1+1 System)	Paper STSACOR02T(CBCS) : Orthogonal vectors, Gram-Schmidt orthogonalization, ortho-complement space. Null space and nullity. 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.

	Practical exercises related to Paper VI: ANOVA (3rd Year, 1+1+1 System)	Paper III: Probability Theory II (2nd Year, 1+1+1 System): The c.d.f., p.m.f. and p.d.f. in bivariate case. Marginal and Conditional distributions. Independence. Conditional Expectation and Variance, Correlation and Regression. Bivariate Normal Distribution and its properties Paper IV: Statistical Quality Control (2nd Year, 1+1+1 System): Construction of x , R, p and c charts with variable sample sizes, Interpretation of non-random pattern of points, Modified Control Charts. Product Control : Producer's Risk, Consumer's Risk, Paper VI: ANOVA (3rd Year, 1+1+1 System): Introduction: Heterogeneity and Analysis of Variance and Covariance, Linear Hypothesis, Orthogonal splitting of total variance, Selection of Valid Error.
Week 9 to Week 12	Practical exercises related to Paper III: Probability Theory II (2nd Year, 1+1+1 System) Practical exercises related to Paper IV: Statistical Quality Control (2nd Year, 1+1+1 System) Practical exercises related to Paper VI: ANOVA (3rd Year, 1+1+1 System)	Paper STSACOR02T (CBCS) : 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 III: Probability Theory II (2nd Year, 1+1+1 System): Probability Inequalities : Chebyshev's Lemma, Markov's & Chebyshev's inequalities, Trimmed mean. Limit Theorems: Convergence in Probability, Weak Law of Large Numbers and its Applications, Convergence in Distribution. Normal approximation to the Poisson Distribution, Statement of Central limits Theorem (i.i.d. Case) & its application. Paper IV: Statistical Quality Control (2nd Year, 1+1+1 System): Acceptance Sampling Plan, Single and Double sampling plans by attributes, OC, ASN (and ATI), LTPD and AOQL, Single sampling plan for inspection by variables (one-sided specification, known σ cases), Use of IS plans and tables. Paper VI: ANOVA (3rd Year, 1+1+1 System): One-way ANOVA Model, Applications of the ANOVA technique to one-way classified data.

Week 13-14: Internal Exam (for CBCS) and Class Tests (for Part II & III in 1+1+1 system)		
Week 15 to 17	Practical exercises related to Paper III: Probability Theory II (2nd Year, 1+1+1 System) Practical exercises related to Paper IV: Statistical Quality Control (2nd Year, 1+1+1 System)	Paper STSACOR02T : 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 III: Probability Theory II (2nd Year, 1+1+1 System): Use of continuous distributions in scaling and the Pareto and Log- normal distributions as income or allied distributions, Concept of Truncation and censoring ---Truncated exponential

Class: B.Sc
Semester 1 (CBCS), Part II & III (1+1+1 System)
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	Practical exercises related to Paper III: Mathematical Methods II (2nd Year, 1+1+1 System)	**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 III: Mathematical Methods II (2nd Year, 1+1+1 System): Polynomial approximation of a function, Numerical Integration :Trapezoidal and Simpson's 1/3 rules. Numerical solution of equations :method of fixed point iteration and Newton –Raphson method in one unknown. Paper V: Large Sample Theory (2nd Year, 1+1+1 System): Convergence in Distribution, Normal approximation to the Poisson distribution,Statement of Central limit Theorem (i.i.d. case) &its application, Relation among different modes of convergence-----slutsky's theorem

Week 5 to week 8	Practical exercises related to Paper III: Mathematical Methods II (2nd Year, 1+1+1 System) Practical exercises related to Paper V: Large Sample Theory (3rd Year, 1+1+1 System)	**Paper STSACOR02T**: Infinite series, positive-termed series and their convergence. Comparison tests, D'Alembert's ratio test and Cauchy's n_{th} root test, (Statements and examples only). Absolute convergence of series, Leibnitz's test for the convergence of alternating series, Conditional convergence. <u>Paper III: Mathematical Methods II (2nd Year, 1+1+1 System):</u> Conditions of convergence, Stirling's approximation to factorial. (statement only) Function of several variables. Maxima and Minima : Maxima and minima for functions of several variables, <u>Paper V: Large Sample Theory (2nd Year, 1+1+1 System):</u> Derivation of large sample standard error of sample moments, standard deviation, coefficient of variation, b_1 and b_2 measures and correlation coefficient and their uses in large sample tests.
Week 9 to Week 12	Practical exercises related to Paper III: Mathematical Methods II (2nd Year, 1+1+1 System) Practical exercises related to Paper V: Large Sample Theory (3rd Year, 1+1+1 System)	**Paper STSACOR02T**: 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 <u>Paper III: Mathematical Methods II (2nd Year, 1+1+1 System):</u> Constrained maximization and minimization –use of Lagrange multiplier. Integrals : multiple integrals, Transformation variables and Jacobian, Polar and Orthogonal transformations. <u>Paper V: Large Sample Theory (2nd Year, 1+1+1 System):</u> Transformations of Statistics to stabilize variance : derivation and use of $\sin^{-1}$,square root, logarithmic and z-transformations. Large sample tests for binomial proportions, Poisson means (single and two independent sample cases) and correlation coefficients.

Week 13 to week 14		**Class Tests & Internal Exam**
Week 15 to 17	Practical exercises related to Paper III: Sampling Distribution (2nd Year, 1+1+1 System) Practical exercises related to Paper III: Statistical Inference I (2nd Year, 1+1+1 System) Practical exercises related to Paper V: Large Sample Theory (3rd Year, 1+1+1 System)	Paper III: Sampling Distribution (2nd Year, 1+1+1 System): Introduction : Concepts of Random Sampling. Statistic and Sampling distributions of Statistics. Illustrations using different distributions, reproductive properties of the distributions.Some standard Sampling Distributions : χ^2 distribution Paper III: Statistical Inference I (2nd Year, 1+1+1 System): Elements of Estimation : Concepts of Point and Interval Estimation; Requirements of a good estimator - notions of Mean Square Error, Unbisedness, Minimum Variance, Methods of Estimation – method of moments and Least – square method, maximum likelihood method, Confidence Intervals. Paper V: Large Sample Theory (3RD Year, 1+1+1 System): Large sample distribution of Pearsonian χ^2–statistic and its uses, Goodness of fit. Yate's correction in a 2x2 contingency table.

Class:B.Sc
Semester 2 and Part II **Name of the Teacher: Soumyadeep Das**
Subject: Statistics
Paper : STSACOR04T, Part II Paper III and IV(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	**Paper III of Part II:** Practical problems related to Correlation and Regression	**Paper III of Part II**: Correlation and Regression **Paper IV of Part II**: Concepts of Quality and Quality Control, Process Control and Product Control **Paper STSACORO4T**: Reimann Integration of Real valued Functions.
Week 5 to week 8	**Paper IV of Part II**: Construction of different types of Control Charts like *x*, R, p and c charts with variable sample sizes.	**Paper IV of Part II**: Control Charts and their uses, Choice of Subgroup sizes, Construction of *x*, R, p and c charts with variable sample sizes **Paper STSACORO4T**: Convergence of Integrals, Simple tests. Multiple Integration.

Week 9 to Week 12	**Paper IV of Part II:** Construction of Modified Control Charts.	**Paper IV of Part II**: Interpretation of non-random pattern of points, Modified Control Charts. **Paper STSACORO4T:** Pointwise & Uniform convergence
Week 13	**Paper IV of Part II:** Practical problems on Product Control : Producer's Risk, Consumer's Risk, Acceptance Sampling Plan, Single and Double sampling plans by attributes, OC, ASN and ATI , LTPD and AOQL.	**Paper IV of Part II:** Product Control : Producer's Risk, Consumer's Risk, Acceptance Sampling Plan, Single and Double sampling plans by attributes, OC, ASN and ATI , LTPD and AOQL **Paper STSACORO4T:** Simple tests, Properties of Uniformly convergent functions
Week13 to week 14		**Internal Exam**
Week 15 to 17	**Paper IV of Part II:** Practical on Single sampling plan for inspection by variables (one-sided specification, known σ cases).	**Paper IV of Part II:** Single sampling plan for inspection by variables (one-sided specification, known σ cases), Use of IS plans and tables **Paper STSACORO4T:** Power series.

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Plan for even Semester(CBCS),Part-II &Part-III(1+1+1) UGcourse

Department of Statistics

Session (2018-19)

Class: B.A/ B.Sc
Semester 2,4 & Part-II & Part-III(1+1+1)
Name of the Teacher: Arup Kumar Hait
Subject: STATISTICS
Paper : STSACOR04, Part-II Paper-IV, Section –I , Part-III, Paper-V & Part-III,Paper-VI (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	**Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** **Part-III, Paper-V** • Multinomial Distribution **Part-III,Paper-VI**	**STSACOR04T** Row reduction and echelon forms. Partitioning of matrices and simple properties. Rank of a matrix,row-rank, column-rank, standard theorems on ranks, rank of the sum and the product of two matrices. **Part-II Paper-IV, Section –I** **Group-A: Time Series Analysis**

	• Analysis of a completely confounded two level factorial design in 2 blocks • Analysis of a completely confounded two level factorial design in 4 blocks • Analysis of a partially confounded two level factorial design	Some special processes : Moving –average (MA) process and Autoregressive (AR) process of orders one and two. **Part-III, Paper-V** Multivariate Distributions : Multinomial distributions and their properties. **Part-III,Paper-VI** Total and Partial Confounding, Analysis.
Week 5 to week 8	**Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** • Fitting of AR 1 and AR 2 models	**STSACOR04T** Matrix equations Ax=b, solution sets of linear equations. Applications of linear equations, inverse of a matrix. **Part-II Paper-IV, Section –I** **Group-A: Time Series Analysis** Estimation of parameters of AR(1) and AR(2) –YuleWalker equations.
Week 9 to Week 12	**Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** • Simple Exponential Smoothing **Part-III, Paper-V** • Bivariate Normal Distribution, • Multivariate Normal Distribution **Part-III,Paper-VI** • ANCOVA	**STSACOR04T** Characteristic roots and Characteristic vector, Properties of characteristic roots, Cayley Hamilton theorem, Quadratic forms: Classification and canonical reduction. Linear transformations. **Part-II Paper-IV, Section –I** **Group-A: time Series Analysis** Forcasting : Exponential smoothing. **Part-III, Paper-V** Multivariate Distributions : Multivariate Normal distributions and their properties. **Part-III,Paper-VI** Analysis of Covariance (ANCOVA) : Application of the ANCOVA technique to oneway classified data to two- way classified data with number of observations per cell, use in control of error in CRD, RBD .
Week13 to week 14		**Tests and Internal Exam**
Week 15 to 17	**Part-III,Paper-VI** • Analysis of an RBD with one missing observation • Analysis of an LSD with one missing observation	**STSACOR04T** Applications of Linear Algebra in Statistics. **Part-III,Paper-VI** Missing Plot Technique : Analysis with one missing plot in a RBD

Class: B.Sc. (Honours)
Semesters: 2 (CBCS), Part II & III **(1+1+1 System)**
Name of the Teacher: Kiranmoy Chatterjee
Subject: Statistics
Paper : STSACOR03T, STSACOR04T (CBCS), Paper IV (Part II) and Paper VI (Part III)

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	Practical exercises related to Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System) Practical exercises related to Paper VI: ANOVA (3rd Year, 1+1+1 System)	Paper STSACOR03T(CBCS): Introduction, random experiments, sample space, events and algebra of events. Sigma algebra of events. Definitions of Probability – classical, statistical and axiomatic. Paper STSACOR04T(CBCS) : Row reduction and echelon forms. Partitioning of matrices and simple properties. Rank of a matrix, row-rank, column-rank, standard theorems on ranks, rank of the sum and the product of two matrices. Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System): Introduction: Concepts of Quality and Quality Control, Process Control and Product Control. Process Control : Control Charts And their uses, Choice of Subgroup sizes Paper VI: ANOVA (3rd Year, 1+1+1 System): Two-way classified data with one and some equal no. of observations per cell separately. Applications of the ANOVA technique to two-way classified data.
Week 5 to week 8	Paper STSACOR03P(CBCS): 1. Numerical sums using classical definition of Probability. 2. Numerical sums on conditional probability. Practical exercises related to Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System)	Paper STSACOR03T(CBCS): Theorem of compound probability, theorem of total probability, Conditional probability and independence of event. Bayes theorem and its applications. Paper STSACOR04T(CBCS) : Matrix equations Ax=b, solution sets of linear equations. Applications of linear equations, inverse of a matrix. Characteristic roots and Characteristic vector.

	Practical exercises related to Paper VI: ANOVA (3rd Year, 1+1+1 System)	Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System): Construction of *X-bar* , R, p and c charts with variable sample sizes, Interpretation of non-random pattern of points, Modified Control Charts. Paper VI: ANOVA (3rd Year, 1+1+1 System): Testing simple regression coefficients, and linearity of simple regression, correlation ratio.
Week 9 to Week 12	Paper STSACOR03P(CBCS): 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. Practical exercises related to Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System) Practical exercises related to Paper VI: ANOVA (3rd Year, 1+1+1 System)	Paper STSACOR03T(CBCS): Discrete random variables, p.m.f. and c.d.f., statement of properties of c.d.f,: binomial, Poisson, geometric, negative binomial, hypergeometric, uniform. Paper STSACOR04T(CBCS) : Properties of characteristic roots, Cayley Hamilton theorem, Quadratic forms: Classification and canonical reduction. Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System): Product Control: Producer's Risk, Consumer's Risk, Acceptance Sampling Plan, Single and Double sampling plans by attributes, OC, ASN (and ATI), LTPD and AOQL, Paper VI: ANOVA (3rd Year, 1+1+1 System): multiple correlation and partial correlation coefficients.
Week 13-14: Internal Exam (for CBCS) and Mid-Term Tests (for Part II & III in 1+1+1 system)		
Week 15 to 17	Practical exercises related to Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System)	Paper STSACOR03T(CBCS): p.d.f. and c.d.f., illustrations and properties, univariate transformations with illustrations. Derivation of moments. Probability Inequalities: Markov and Chebyshev. Paper STSACOR04T(CBCS) : Linear transformations. Applications of Linear Algebra in Statistics. Revision of all the topics. Paper IV: Statistical Quality Control(2nd Year, 1+1+1 System): Single sampling plan for inspecting by variables (one-sided specification, known σ cases), Use of IS plans and tables.

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	Practical exercises related to Paper III: Sampling Distribution (2nd Year, 1+1+1 System) Practical exercises related to Paper III: Statistical Inference I (2nd Year, 1+1+1 System)	**Paper STSACOR04T**: Limit, Continuity, Differentiability, Uniform Continuity and Boundedness of functions, Indeterminate forms, L'Hospital's rule. Rolle's and Lagrange's mean value theorems. Paper III: Sampling Distribution (2nd Year, 1+1+1 System): distributions of the mean and variance of a random sample from a normal population, t and F distributions, distributions of means, variances and correlation coefficient (null case) of a random sample from a bivariate normal population, Paper III: Statistical Inference I (2nd Year, 1+1+1 System): Elements of Hypothesis Testing : Null and Alternative hypotheses, Simple and Composite hypotheses, Critical Region, Type I and Type II Errors, Level of Significance and Size, p-value, Power. Paper V: Statistical Inference II (3rd Year, 1+1+1 System): Point Estimation : Sufficiency, Completeness, Factorization Theorem, Exponential, Family of distributions, Properties of minimum variance unbiased estimators, consistent estimators and asymptotic efficiency , Cramer –Rao lower bound .Rao-Blackwell Theorem. Lehmann- Scheffe Theorem. Maximum Likilihood Minimum χ^2 estimators and their properties (excluding proofs of large sample properties).
Week 5 to week 8	Practical exercises related to Paper III: Sampling Distribution (2nd Year, 1+1+1 System) Practical exercises related to Paper III: Statistical Inference I (2nd Year, 1+1+1 System) Practical exercises related to Paper V: Statistical Inference II (3rd Year, 1+1+1 System)	**Paper STSACOR04T**: Taylor's theorem and Lagrange's and Cauchy's form of remainder (without proof). Taylor's and Maclaurin's series expansion. Reimann Integration of Real valued Functions. Convergence of Integrals, Simple tests. Multiple Integration. Paper III: Sampling Distribution (2nd Year, 1+1+1 System): Distribution of simple regression coefficient (for both stochastic and non-stochastic independent variable cases). Distribution of order statistics and Sample Range.

		Paper III: Statistical Inference I (2nd Year, 1+1+1 System): Applications : Estimation, Tests of Significance and associated Confidence Intervals related to a single Binomial proportion and Poisson parameter Paper V: Statistical Inference II (3rd Year, 1+1+1 System): Theory of Hypothesis Testing : Most Powerful(MP), Uniformly Most Powerful (UMP) and Uniformly Most Powerful Unbiased (UMPU) tests, Randomized and nonrandomized Tests, Fundamental Neyman –Pearson Lemma (sufficiency part only), and its use in the construction of MP and UMP tests (single parameter with range independent of the parameter), Likelihood Ratio tests and its applications to tests for the equality of means and variances of several normal populations.
Week 9 to Week 12	Practical exercises related to Paper III: Statistical Inference I (2nd Year, 1+1+1 System) Practical exercises related to Paper III: Sampling Distribution (2nd Year, 1+1+1 System) Practical exercises related to Paper V: Statistical Inference II (3rd Year, 1+1+1 System)	**Paper STSACOR04T**: Pointwise & Uniform convergence. Simple tests, Properties of Uniformly convergent functions. Power series. Paper III: Statistical Inference I (2nd Year, 1+1+1 System): Mean and variance of an univariate normal distribution, the difference of means and ratio of variances of two independent normal distributions. the difference of means, the ratio of variances, and the independence. Paper V: Statistical Inference II (3rd Year, 1+1+1 System): Interval Estimation :Confidence intervals Confidence sets, Concepts of Uniformly Most Accurate (UMA) and Uniformly Most Accurate Unbiased (UMAU) confidence sets, relationship with tests of hypotheses, confidence intervals with Shortest Expected Length
Week13 to week 14		**Internal Exam**
Week 15 to 17	Practical exercises related to Paper III: Statistical Inference I (2nd Year, 1+1+1 System) Practical exercises related to Paper V: Statistical Inference II (3rd Year, 1+1+1 System)	Paper V: Statistical Inference II (3rd Year, 1+1+1 System): Nonparametric Methods : Sign test, Median test, Wilcoxon Signed-Rank test, Run test, Mann-Whitney U test.

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Teaching Plan for Odd Semester, UG and PG Courses
Department of Chemistry
Session (2018-19)

Class: B.Sc and M.Sc.
Semester: 1, 3, B. Sc H Pt II and III , Name of the Teacher: Dr. Nikhil Ranjan Pramanik
Subject: Chemistry
Paper: CEMACOR02T&P (UG SEM-I), CEMAP 24 -PrA, CEMAT 24- PA and PB (B. Sc Part-II H), CEMAP 37-Pr and CEMAT 36-PA and PB (B. Sc Part-III H), Paper III and IVC (PG SEM-I) and Paper XI and XIIC (PG SEM-III).

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR02P:** Physical Chemistry –I Lab: Discussion of principles of Physical experiments and Exp-1. **B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Discussion of principles of Physical experiments and Exp-1. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Discussion of principles of Physical experiments and Exp-1and 2 **Paper IVC (Physical Practical):** Discussion of principles of Physical experiments and Exp-1 **Paper XIIC (Physical Practical):** Discussion of principles of Physical experiments and Exp-1and 2.	**CEMACOR02T:** Physical Chemistry I: Chemical Thermodynamics: Introduction, Zeroth law and First law. **CEMAT 24-PB:** Thermodynamics (II) and chemical equilibrium: Introduction. **CEMAT 36-PA:** Statistical thermodynamics and third law: Introduction, Configurations. **Paper- III (Physical Theory):** Chemical Kinetics : Collision theory and activated complex theory. **Paper- XI (Physical Theory):** Enzyme catalysis and kinetics of fast reactions: Introduction: Enzyme catalysis
Week 5 to week 8	**CEMACOR02P:** Physical Chemistry –I Lab: Physical experiments, Exp-2 and 3 **B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp-2. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-3 and 4 **Paper IVC (Physical Practical):** Physical experiments and Exp-2 and 3. **Paper XIIC (Physical Practical):** Physical experiments: Exp-3 and 4.	**CEMACOR02T:** Physical Chemistry I: Chemical Thermodynamics: Thermochemistry **CEMAT 24-PB:**Thermodynamics (II) and chemical equilibrium: Free energy functions. **CEMAT 36-PA:** Statistical thermodynamics and third law: Boltzmann distribution **Paper- III (Physical Theory):** Chemical Kinetics : Reactions between ions in solution: Influence of dielectric constant, ionic strength and pressure on rate constant. **Paper- XI (Physical Theory):** Enzyme catalysis and kinetics of fast reactions: Characteristics and mechanism of enzyme catalysis.
Week 9 to Week 12	**CEMACOR02P:** Physical Chemistry –I Lab: Physical experiments, Exp-4 and 5 **B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp-3. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-5 and 6. **Paper IVC (Physical Practical):** Physical experiments and Exp-4 and 5. **Paper XIIC (Physical Practical):** Physical experiments: Exp-5 and 6.	**CEMACOR02T:** Physical Chemistry I: Chemical Thermodynamics: Second Law **CEMAT 24-PB:**Thermodynamics (II) and chemical equilibrium: Maxwell equation and thermodynamic equation of state. **CEMAT 36-PA:** Statistical thermodynamics and third law: Partition function and its applications. **Paper- III (Physical Theory):** Chemical Kinetics : Unimolecular reactions: Lindemann- Hinshelwood and RRK mechanism **Paper- XI (Physical Theory):** Enzyme catalysis and kinetics of fast reactions: Surface reactions and kinetics.
Week 13	**CEMACOR02P:** Physical Chemistry –I Lab: Revision of physical	**CEMACOR02T:** Physical Chemistry I: Chemical Thermodynamics: Thermo dynamic relations.

	Experiments **B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: 4. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-7. **Paper IVC (Physical Practical):** Physical experiments and Exp-6 **Paper XIIC (Physical Practical):** Physical experiments: Exp-7.	 **CEMAT 24-PB:**Thermodynamics (II) and chemical equilibrium: Thermodynamic system of variable composition. **CEMAT 36-PA:** Statistical thermodynamics and third law: Third law of thermodynamics. **Paper- III (Physical Theory):** Chemical Kinetics : Chain reactions and its mechanism. **Paper- XI (Physical Theory):** Enzyme catalysis and kinetics of fast reactions:Micelles, micellar catalysis and its application
Week13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR02P:** Physical Chemistry –I Lab: Tutorial on principles and experiments of physical chemistry experiments **B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Revisions of experiments. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Revisions of experiments. **Paper IVC (Physical Practical):** Revision of Physical experiments. **Paper XIIC (Physical Practical):** Revision of Physical experiments.	**CEMACOR02T:** Physical Chemistry I: Chemical Chemical Kinetics: Theory of rate process. **CEMAT 24-PB:**Thermodynamics (II) and chemical equilibrium: Advanced chemical equilibrium. **CEMAT 36-PA:** Statistical thermodynamics and third law: Einstein's theory of heat capacity and its limitation. **Paper- III (Physical Theory):** Chemical Kinetics : Kinetics of autocatalytic reactions. **Paper- XI (Physical Theory):** Enzyme catalysis and kinetics of fast reactions: Kinetics of fast reactions.
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 (2018-19)

Class: B.Sc. and M.Sc.
Semester: 1/ Part-II & III **Name of the Teacher: Anisur Rahaman Molla**
Subject: Chemistry
Paper: CEMACOR01 (UG SEM-I), CEMGT 22A& CEMGP 23A (UG Part-II Gen), CEMAT36OB &CEMAP 37-Pr(UG Part-III),Paper-II & Paper-IVB (PG SEM-I) and Paper-X (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR07:** Qualitative analysis of single solid organic compounds (known samples) **CEMGP 23A:**Qualitative analysis of solid single organic compound (known samples) **CEMAP 37-Pr:** Identification of amino acids by TLC **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (known samples)	**CEMACOR01:** Basics of organic chemistry – MO theory **CEMGT 22A:** Chemical kinetics **CEMAT36OB:** Structure of monosaccharides **Paper-II:**Reaction mechanism: Types, thermodynamic & kinetic requirements, Hammond postulate, microscopic reversibility **PAPER-X:** Basic principles of photochemistry
Week 5 to week 8	**CEMACOR07:** Qualitative analysis of single solid organic compounds (known samples) **CEMGP 23A:**Qualitative analysis of solid single organic compound (known samples) **CEMAP 37-Pr:** Identification of amino acids by paper **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (2 unknown samples)	**CEMACOR01:** Basics of organic chemistry– FMO interactions **CEMGT 22A:** Catalysis **CEMAT36OB:** Reactions of monosaccharides **Paper-II:**Methods of determination of reaction mechanism: Study of intermediates **PAPER-X:** Cis-trans isomerism, di-pi methane rearrangement
Week 9 to Week 12	**CEMACOR07:** Qualitative analysis of single solid organic compounds (2 unknown samples) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 37-Pr:** Binary mixture separation (neutral + acid) and identification by TLC **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (2 unknown samples)	**CEMACOR01:** Aromaticity **CEMGT 22A::**Laws of photochemistry **CEMAT36OB:** Interconversion of aldose and ketose,Ring structure of monosaccharides **Paper-II:**Methods of determination of reaction mechanism: Identification of products, Isotope labeling, isotope effects. **PAPER-X:** Norish type-I and type-II reaction
Week 13	**CEMACOR07:** Qualitative analysis of single solid organic compounds (1 unknown samples) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 37-Pr:** Binary mixture separation (neutral + base) and identification by TLC **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (1 unknown samples)	**CEMACOR01:** Mechanistic classification **CEMGT 22A:**Fluorescence **CEMAT36OB:** Fischer's proof of configuration of (+)-glucose **Paper-II:**Methods of determination of reaction mechanism: catalysis. **PAPER-X:** Patterno-Buchi reaction
Week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR07:** Qualitative analysis of single solid organic compounds (1 unknown samples) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 37-Pr:** Binary mixture separation (neutral + base) and identification by TLC **Paper-IVB:** Systematic qualitative analysis of liquid organic compound (2 unknown samples)	**CEMACOR01:** Reactive intermediates **CEMGT 22A:**Phosphorescence **CEMAT36OB:** Anomeric effect, mutarotation,Disaccharides **Paper-II:**Methods of determination of reaction mechanism: stereochemical course of the reaction. **PAPER-X:** Photo reduction of ketones
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 (2018-19)

Class: B.Sc. and M.Sc.
Semester: 1/ Part-II & III **Name of the Teacher: Tirtha Pada Majhi**
Subject: Chemistry
Paper: CEMACOR01 (UG SEM-I), CEMGT 22A & CEMGP 23A (UG Part-II Gen), CEMAT36OB & CEMAP 37-Pr (UG Part-III), Paper-II & Paper-IVB (PG SEM-I) and Paper-X (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR07:** Qualitative analysis of single solid organic compounds (known samples) **CEMGP 23A:** Qualitative analysis of solid single organic compound (known samples) **CEMAP 37-Pr:** Identification of amino acids by TLC **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (known samples)	**CEMACOR01:** Basics of organic chemistry – Valence Bond theory and orbital pictures of bonding **CEMAT36OB:** Amino acids: types and properties **PAPER-X:** Radicals-generation, shape and stability
Week 5 to week 8	**CEMACOR07:** Qualitative analysis of single solid organic compounds (known samples) **CEMGP 23A:** Qualitative analysis of solid single organic compound (known samples) **CEMAP 37-Pr:** Identification of amino acids by paper **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (2 unknown samples)	**CEMACOR01:** Basics principles of organic chemistry– electronic displacement, inductive effect, resonance, hyperconjugation and steric effects. **CEMAT36OB: S**ynthesis of α - amino acids **PAPER-X:**Radical reactions
Week 9 to Week 12	**CEMACOR07:** Qualitative analysis of single solid organic compounds (2 unknown samples) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 37-Pr:** Binary mixture separation (neutral + acid) and identification by TLC **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (2 unknown samples)	**CEMACOR01:** Physical properties of organic molecules- bond energy, bond distance, bond angle, bond angle strain. **CEMAT36OB:**Reactions of amino acids **PAPER-X:** C – X bond, C – C bond forming reactions
Week 13	**CEMACOR07:** Qualitative analysis of single solid organic compounds (1 unknown samples) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 37-Pr:** Binary mixture separation (neutral + base) and identification by TLC **Paper-IVB:** Systematic qualitative analysis of a liquid organic compound (1 unknown samples)	**CEMACOR01:** covalent & non-covalent intermolecular forces **CEMAT36OB:** Peptide syntheses **Paper-II:** Methods of determination of reaction mechanism: catalysis. **PAPER-X:** C–C bond cleaving reactions via radical reactions
Week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR07:** Qualitative analysis of single solid organic compounds (1 unknown samples) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **Paper-IVB:** Systematic qualitative analysis of liquid organic compound (2 unknown samples)	**CEMACOR01:**Dipole moments; relative stabilities of isomeric hydrocarbons **CEMAT36OB:**Determination of amino acid sequence and structure of protein **PAPER-X:**Radical rearrangements
Week 18	Class test	Problem solving

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor Odd Semester, UG & PG course

Department of Chemistry

Session (2018-2019)

Class: B.Sc

Semester 1 & Part II and Part III; Name of the Teacher: Dr. Shubhankar Samanta

Subject:

Paper : CEMACOR01P, CEMAT 23-OA , CEMAT 36-OA, CEMGP 23A 23B, PG Core -02, PG Core -12

(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	**Paper CEMACOR01P**: Identification of a Pure Organic Compound Solid compounds: oxalic acid, tartaric acid **Paper VII Course : CEMAP 37-P:** Identification of amino acids by TLC **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for special element N	**Paper III CEMAT 23-OA:** Organonitrogen compounds: synthesis and reactions of nitroalkanes, **Paper VI Courses : CEMAT 36-OA:** Pericyclic reactions : Definition and classification, Electrocyclic reactions **PG Core -02: Organic Chemistry – 1**: 1H NMR Spectroscopy: spin-spin coupling – notation for spin systems. **Core -12: Organic Chemistry – 3**: Reduction with metal-hydrides of B, Al, Sn, Si.
Week 5 to week 8	**Paper CEMACOR01P**: Identification of a Pure Organic Compound Solid compounds: citric acid, succinic acid, resorcinol **Paper VII Course : CEMAP 37-P:** Identification of amino acids by TLC (In mixture) **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for special element S	**Paper III CEMAT 23-OA:** Organonitrogen compounds: distinction and separation of 1^0 ,2^0 ,3^0 amines, diazomethane, diazoacetic ester-preparation **Paper VI Courses : CEMAT 36-OA:** Pericyclic reactions : FMO approach, examples of electrocyclic reactions (thermal and photochemical) involving 4- and 6πelectrons **PG Core -02: Organic Chemistry – 1**: ^{1}H NMR Spectroscopy: Equivalence and nonequivalence of protons **Core -12: Organic Chemistry – 3**: Dissolving metal-reduction, Synthetically useful hydrogenolysis reaction.
Week 9 to Week 12	**Paper CEMACOR01P**: Identification of a Pure Organic Compound Solid compounds: urea, glucose, cane sugar, benzoic acid and salicylic acid. **Paper VII Course : CEMAP 37-P:** Identification of amino acids by Paper (In mixture) **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for special element -X	**Paper III CEMAT 23-OA:** Organonitrogen compounds: synthetic applications **Paper VI Courses : CEMAT 36-OA:** Pericyclic reactions : Sigmatropic shifts and their order, [1,3] and [1,5] H shifts, **PG Core -02: Organic Chemistry – 1**: coupling constant and its variation with stereochemistry – Karplus equation **Core -12: Organic Chemistry – 3**: Shapiro reaction, Mitsunobu reaction,
Week 13	**Paper CEMACOR01P**: Identification of a Pure Organic Compound Liquid Compounds: formic acid, acetic acid, methyl alcohol, ethyl alcohol, acetone, **Paper VII Course : CEMAP 37-P:** . Binary mixture separation (neutral	**Paper III CEMAT 23-OA:** Organonitrogen compounds: synthetic applications **Paper VI Courses : CEMAT 36-OA:** [3,3] shifts with references to Claisen and Cope rearrangements, **PG Core -02: Organic Chemistry – 1**: Application of 1H NMR and 13C NMR for structure elucidation. **Core -12: Organic Chemistry – 3**: Hofmann-Loffler-Freytag

	+ acid or base) **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for -CO2H	reaction, Barton reaction, Barton decarboxylation and deoxygenation reaction,
Week13 to week 14		**Internal Exam**
Week 15 to 17	**Paper CEMACOR01P**: Identification of a Pure Organic Compound Liquid Compounds: aniline, dimethylaniline, benzaldehyde, chloroform and nitrobenzene; Unknown solid compound determination. **Paper VII Course : CEMAP 37-P:** Unknown Binary mixture separation (neutral + acid or base) **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for -Carbonyl	**Paper III CEMAT 23-OA:** Organonitrogen compounds: synthetic applications **Paper VI Courses : CEMAT 36-OA:** Ene reaction **PG Core -02: Organic Chemistry – 1**: Application of 1H NMR and 13C NMR for structure elucidation. **Core -12: Organic Chemistry – 3**: Tandem cycloaddition reaction, Baylis - Hilman Reaction, Passerini reaction , Ugi Reactions.
Week 18	Revision of whole allotted practical syllabus by University question papers **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for -NO2	Revision the whole theory syllabus by University Question papers.

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Teaching Plan for Odd Semester, UG & PG course
Department of Chemistry
Session (2018-19)

Class: B.Sc. and M.Sc.
Semester: 1/ Part-II & III **Name of the Teacher: Susanta Kumar Manna**
Subject: Chemistry
Paper: CEMACOR01 (UG SEM-I), CEMGT 22A & CEMGP 23A (UG Part-II Gen), CEMAT23OB & CEMAP 12-PrA (UG Part-III), Paper-II & Paper-IVB (PG SEM-I) and Paper-X (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR01:** Functional group detection aldehyde , ketone, acid, nitro (known samples) **CEMAP 12-PrA:** Functinoal group detection, Lassaignes test **Paper-IVB:** Purification and drying of organic solvents $CHCl_3$	**CEMAT23OB:** Hydrolysis of ester **PAPER-II:**Pericyclic reaction: features, Woodward-Homann selection rules **CEMACOR01:** Aliphatic hydrocarbon, alkane, alkene, alkyne
Week 5 to week 8	**CEMACOR01:** Functional group detection aldehyde , ketone, acid, nitro (known samples) **CEMAP 12-PrA:** Functinoal group detection (Known samples), Melting point determination derivative preparation, **Paper-IVB:** DCM	**CEMACOR01:** alkane: structure, synthesis and reactivity **CEMAT23OB:** Hydrolysis of ester, BAC2, AAC2 example with mechanism **Paper-II:** Electrocyclic reaction with F.M.O approach
Week 9 to Week 12	**CEMACOR01:** Functional group detection **CEMAP 12-PrA:** Functinoal group detection (unKnown samples) Suitable derivative preparation, **Paper-IVB:** Toluene	**CEMACOR01:** Alkene: structure, synthesis and reactivity **CEMAT23OB:** Hydrolysis of ester, BAC1, AAC1 example with mechanism **Paper-II:**Cycloaddition, reverse cycloaddtion
Week 13	**CEMACOR01:** Functional group detection **CEMAP 12-PrA:** Functinoal group detection unKnown samples, Melting point, Suitable derivative preparation**,** **Paper-IVB:** THF	**CEMACOR01:** Alkyne : structure, synthesis and reactivity **CEMAT23OB:** Hydrolysis of ester, BAL1, BAL2 example with mechanism **Paper-II:** Methods of determination of reaction mechanism: catalysis. **Paper-II:** Sigmatropic rearrangement 1,3H, 1,5H suprafacial shift.
Week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR01:** Functional group detection **(unknown sample)** **CEMAP 12-PrA: Functinoal group detection** (unknown samples) **Paper-IVB:** Et_3N	**CEMACOR01:**SN1, SN2, E1,E2 **CEMAT23OB:** HVZ, Claisen ester, Hunsdicker reaction **PAPER-II:** Cope &Claisen rearrangements
Week 18	Class test	Problem solving

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Teaching Plan for Odd Semester, UG & PG course

Department of Chemistry

Session (2018-19)

Class: B.Sc. and M.Sc.

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

Subject: Chemistry

Paper: CEMG01T (UG SEM-I G), CEMAT 35-IB (UG SEM-V), CHEMCOR01 (PG SEM-I) and CHEMDSE1 (PG SEM-III)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CHEMCOR01P:** Spectrophotometric Determination of: Fe(III) by sulphosalicylic acid and thiocyanate method	**CEMAT 35-IB:** 18-electron rule and its applications to carbonyls (including carbonyl hydrides and carbonylates), nitrosyls, cyanides, and nature of bonding involved therein. **CEMG01T:** Classification of elements on the basis of electronic configuration **CHEMCOR01T:** Introduction to group, sub group **CHEMDSE1:** Franck-Condon principle, Mirror-image symmetry and its violation, Radiative and radiationless deactivation.
Week 5 to week 8	**CHEMCOR01P:** Spectrophotometric Determination of: Mn(II) by periodate oxidation method	**CEMAT 35-IB:** Simple examples of metal-metal bonded compounds and metal clusters. Metal-olefin complexes: zeises salt (preparation, structure and bonding). **CEMG01T:** General characteristics of s-, p-, d- and f-block elements. **CHEMCOR01T:** Introduction to symmetry and symmetry operations. **CHEMDSE1:** Oscillator strength, Fluoroscence Quenchers and life-time variations, Photophysical processes of unimolecular processes
Week 9 to Week 12	**CHEMCOR01P:** Synthesis of Reinicke's salt	**CEMAT 35-IB:** Ferrocene (preparation, structure and reactions). Hapticity(n) of organometallic ligands, examples of mono tri and penta-hapto cyclopentadienyl complexes. **CEMG01T:** Positions of hydrogen and noble gases. Atomic and ionic radii. **CHEMCOR01T:** Matrix algebra for representation of group. **CHEMDSE1:** Delayed fluorescence, Kinetics of bimolecular processes: collision quenching.
Week 13	**CHEMCOR01P:** Synthesis of *bis*(biguanido) copper(II) sulphate.	**CEMAT 35-IB:** Simple examples of fluxional molecules. Coordinative unsaturation: oxidative addition and insertion reactions. **CEMG01T:** Ionization potential, electron affinity, and electronegativity; periodic. **CHEMCOR01T:** Matrix representation of symmetry operations, characters of symmetry operations . **CHEMDSE1:** Stern-Volmer equation, Concentration dependence of quenching.
Week13 to week 14	**Internal Exam**	
Week 15 to 17		**CEMAT 35-IB:** Homogeneous catalysis by organometallic compounds: hydrogenation, hydroformylation and polymerization of alkenes (Ziegler-Natta catalysis). **CEMG01T:** Group-wise variation of above properties in respect of s- and p- block elements. **CHEMCOR01T:** Examples og Reducible representation. **CHEMDSE1:**Excimer formation, Excited state electron transfer processes.
Week 18	Revision and Practice	Revision

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Teaching Plan for Odd Semester, UG & PG course
Department of Chemistry
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Class: B.Sc. and M.Sc.
(1+1+1) System Part –II, Part-III
Semester: 1 **Name of the Teacher: Rituparna Biswas**
Subject: Chemistry
Paper: CEMAT 23-IB (Part-II), CEMAT 35-AA (Part-III), CEMG01T (UG SEM-I G), CEMAT 24-PrB (Part-II Pr), Paper-I (PG SEM-I), Paper-IX: (PG SEM-III), Paper IV A (PG SEM-I Pr)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMAT 24-PrB:** Dry test for acid radicals **Paper IV A:** Spectrophotometric Determination of: Fe(III) by sulphosalicylic acid and thiocyanate method	**CEMAT 23-IB:** Structure, bonding and reactivity of B_2H_6, $(SN)_X$ with x = 2, 4; phosphazines; interhalogens; XeF_6. **CEMAT 35-AA:** Metal ion transport across biological membrane Na^+-ion pump **CEMG01T:** Bohr's theory for hydrogen atom, atomic spectra of hydrogen and Bohr's model. **Paper-I:** The concept of groups, subgroups, classes **Paper-IX:** : Environmental segments, ecosystem; bio distribution of elements, bio geo chemical cycles of C,O,N,S,P.
Week 5 to week 8	**CEMAT 24-PrB:** Wet test for acid radicals **Paper IV A:** Spectrophotometric Determination of: Mn(II) by periodate oxidation method	**CEMAT 23-IB:** Structure of borates, polyphosphates **CEMAT 35-AA:** Biological functions of hemoglobin and myoglobin, cytochromes and ferredoxins **CEMG01T:** Sommerfeld's model, quantum numbers and their significance **Paper-I:** Group multiplication tables and the rearrangement theorem. **Paper-IX:** Structure and chemical composition, chemical and photochemical reactions in the atmosphere, ozone layer and its importance
Week 9 to Week 12	**CEMAT 24-PrB:** Dry test for basic radicals **Paper IV A:** Synthesis of Reinicke's salt	**CEMAT 23-IB:** Borazole, boron nitride **CEMAT 35-AA:** Carbonate bicarbonate buffering system and carbonicanhydrase. **CEMG01T:** Pauli's exclusion principle, Hund's rule **Paper-I:** Symmetry elements and operations, products of symmetry operations, **Paper-IX:** Air pollution by CO, CO2, NOx, SO2, H2S, O3, hydrocarbons (HC), PAN, PAH CFC'S.
Week 13	**CEMAT 24-PrB:** Wet test for basic radicals **Paper IV A:** Synthesis of *bis*(biguanido) copper(II) sulphate.	**CEMAT 23-IB:** Silicones, thionic acids **CEMAT 35-AA:** Biological nitrogen fixation, Photosynthesis: Photosystem-I and Photosystem-II **CEMG01T:** Electronic configuration of many-electron atoms **Paper-I:** identification of point groups**,** Matrix representation of symmetry operations, **Paper-IX:** Green house effect, photochemical smog, acid rain, ozone hole and their impacts on the environment.
Week13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMAT 24-PrB:** Confirmatory test for acid and basic radicals	**CEMAT 23-IB:** Reactivity of polyhalides **CEMAT 35-AA:** Toxic metal ions and their effects, chelation therapy , Pt and Au complexes as drugs and metal dependent diseases. **CEMG01T:** Aufbau principle and its limitations **CEMADSE02T:** Determination of composition of metal complexes using Job's method of continuous variation and mole ratio method. **Paper-I:** reducible and irreducible representations, the "Great Orthogonality Theorem" **Paper-IX:** hydrologic cycle, water quality parameters: DO,COD, BOD,TDS,TOC, hardness, acidity, alkalinity .
Week 18	Revision and Practice	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA
Teaching Plan for Even Semester, UG and PG courses
Department of Chemistry
Session (2018-19)

Class: B.Sc. and M.Sc.
Semester: 2, 4, B. Sc. H Pt-II, Pt-III **Name of the Teacher: Dr. Nikhil Ranjan Pramanik**
Subject: Chemistry
Paper: CEMAP 24- PrA, CEMAT 24 -PA and PB (B. Sc Part-II H), CEMAP 37-Pr and CEMAT 36-PA and PB (B. Sc Part-III H), Paper VIIIC and VII (PG SEM-II) and Paper XVI, XVII and XIV (PG SEM-IV).

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 5. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-8 and 9. **Paper VIIIC (Physical Practical):** Discussion of principles of Physical experiments and Exp-1 **Paper XVI (Physical Special Practical):** Discussion of principles of experiments. Exp-1 and 2.	**CEMAT 24-PA:Quantum Chemistry II and Photochemistry:** Hydrogen atom: Schrodinger equation in polar coordinates and its separation. **CEMAT 36-PB:** Phase equilibria and colligative properties: Introduction, definition of phase, component and degrees of freedom. **Paper- VII (Physical Theory):** Macromolecules: Introduction, Definition and types of polymers. **Paper XIV (Physical Special –1):** Nanomaterials: Definition, classification and properties.
Week 5 to week 8	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 6. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-10 and 11. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 2 and 3. **Paper XVI (Physical Special Practical):** Physical experiments: Exp-3 and 4	**CEMAT 24-PA:Quantum Chemistry II and Photochemistry:** Hydrogen atom: Energy expression, degeneracy, shapes of orbital. **CEMAT 36-PB:** Phase equilibria and colligative properties: Phase rule and its derivation, phase diagram. **Paper- VII (Physical Theory):** Macromolecules: Polymerization process. **Paper XIV (Physical Special –1):** Relevance to dependency on size and shape.
Week 9 to Week 12	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 7. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-12 and 13. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 4 and 5. **Paper XVI (Physical Special Practical):** Physical experiments: Exp-5,6 and 7.	**CEMAT 24-PA:Quantum Chemistry II and Photochemistry:** Potential energy curve, Born Oppenheimer approximation and Franc Condon principle. **CEMAT 36-PB:** Phase equilibria and colligative properties: Phase equilibria for one component system and first order phase transition. **Paper- VII (Physical Theory):** Macromolecules: Kinetics of polymerization. **Paper XIV (Physical Special –1):** Synthetic methodologies – both physical and chemical methods
Week 13	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 8. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-14. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 6. **Paper XVII (Physical Project):** Physical Project.	**CEMAT 24-PA:Quantum Chemistry II and Photochemistry:** Jablonsky diagram, fluorescence and phosphorescence. **CEMAT 36-PB:** Phase equilibria and colligative properties: Thermodynamic derivation of colligative properties and their inter-relationships. **Paper- VII (Physical Theory):** Macromolecules: Molecular weight of polymers- their determination. **Paper XIV (Physical Special –1):** Carbon nanotubes, fullerene ,graphene
Week13 to week 14	**Internal Exam**	

Week 15 to 17	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Revisions of experiments.. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Revisions of experiments.. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 7 and Revision of experiments. **Paper XVII (Physical Project):** Physical Project.	**CEMAT 24-PA:Quantum Chemistry II and Photochemistry:** Laws of photochemistry, Kinetics of photochemical reactions. **CEMAT 36-PB:** Phase equilibria and colligative properties: Tutorial on phase equilibria and colligative properties. **Paper- VII (Physical Theory):** Macromolecules: Conducting polymers **Paper XIV (Physical Special –1):** Applications of nanomaterials and nanotechnology.
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA
Teaching Plan for Even Semester, UG and PG courses
Department of Chemistry
Session (2018-19)

Class: B.Sc. and M.Sc.
Semester: 2, 4, B. Sc. H Pt-II, Pt-III **Name of the Teacher: Dr. Sanat Kumar Saha**
Subject: Chemistry
Paper: CEMAP 24-PrA and CEMAT 24-PB (B. Sc H Pt-II), CEMAT 36 PB and CEMAP 37-Pr (B. Sc H Pt-III), Paper-VII &VIIIC (PG SEM-II) and Paper-XV, Paper-XVI & Paper-XVII (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 5. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-8 and 9. **Paper VIIIC (Physical Practical):** Discussion of principles of Physical experiments and Exp-1 **Paper XVI (Physical Special Practical):** Discussion of principles of experiments. Exp-1 and 2.	**CEMAT 24-PB:** Electrochemistry: Conductance **CEMAT 36 PB:** Properties of Solid, Interface and Dielectrics: Crystallography: Principle, classification and analysis. **Paper-VII (Physical Theory):**Statistical Thermodynamics 1: Mathematical and thermodynamic probability, concept of ensembles, Maxwell Boltzmann distribution **Paper-XV (Physical Special -2):** Non- equilibrium Thermodynamics: Introduction, thermodynamic criteria for non-equilibrium states
Week 5 to week 8	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 6. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-10 and 11. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 2 and 3. **Paper XVI (Physical Special Practical):** Physical experiments: Exp-3 and 4	**CEMAT 24-PB:** Electrochemistry: EMF **CEMAT 36 PB:** Properties of Solid, Interface and Dielectrics: Crystallography: Crystal structure of NaCl and KCl, Liquid crystal, Surface dynamics **Paper-VII (Physical Theory):**Statistical Thermodynamics 1: Partition function and Thermodynamic properties **Paper-XV (Physical Special -2):** Non- equilibrium Thermodynamics: Examples and criteria of irreversible processes.
Week 9 to Week 12	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 7. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-12 and 13. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 4 and 5. **Paper XVI (Physical Special Practical):** Physical experiments: Exp-5, 6 and 7.	**CEMAT 24-PB:** Electrochemistry: Ionic Equilibrium **CEMAT 36 PB:** Properties of Solid, Interface and Dielectrics: Adsorption, Heterogeneous catalysis **Paper-VII (Physical Theory):**Statistical Thermodynamics 1: Molecular Partition function and its factorization Examples and criteria of irreversible processes **Paper-XV (Physical Special -2):** Non- equilibrium Thermodynamics: Phenomenological equations, equivalent systems. Derivation of Onsager Reciprocity Relation
Week 13	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Exp 8. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Exp-14. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 6. **Paper XVII (Physical Project):** Physical Project.	**CEMAT 24-PB:** Electrochemistry: Numerical calculation on Electrochemistry. **CEMAT 36 PB:** Properties of Solid, Interface and Dielectrics: Electrical properties of molecules: Polarizability and dipole moments. **Paper-VII (Physical Theory):**Statistical Thermodynamics 1: Thermodynamic properties of ideal gases in terms of partition function **Paper-XV (Physical Special -2):** Non- equilibrium Thermodynamics: Onsager Reciprocity Relation: Examples and illustrations
Week13 to week 14	**Internal Exam**	
Week 15 to 17	**B. Sc Part-II (H):** CEMAP 24-PrA: Physical Experiments: Revisions of	**CEMAT 24-PB:** Electrochemistry: Tutorial on Electrochemistry

	experiments.. **B. Sc Part-III(H):** CEMAP 37-Pr: Physical Experiments: Revisions of experiments.. **Paper VIIIC (Physical Practical):** Physical experiment: Exp 7 and Revision of experiments. **Paper XVII (Physical Project):** Physical Project.	**CEMAT 36 PB:** Properties of Solid, Interface and Dielectrics: Tutorial on crystallography, adsorption and polarizability. **Paper-VII (Physical Theory):** Statistical Thermodynamics 1: Calculations of equilibrium constant of gaseous reaction. **Paper-XV (Physical Special -2):** Non- equilibrium Thermodynamics: Non-equilibrium stationary states: Prigogine's principle of entropy production
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA
Teaching Plan for Even Semester, UG & PG course
Department of Chemistry
Session (2018-19)

Class: B.Sc. and M.Sc.
Semester: 2/ Part-II &III **Name of the Teacher: Anisur Rahaman Molla**
Subject: Chemistry
Paper: CEMACOR04 (UG SEM-II), CEMGP 23A& CEMGT 22C (UG Part-II Gen), CEMAT35AA& CEMAT-38Pr (UG Part-III), Paper-VI &VIIIB (PG SEM-II) and Paper-XIIB, Paper-XIV, Paper-XV & Paper-XVII (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR04:**Organic Preparations (1-3) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:**Organic Preparation- Nitration & condensation **Paper-VIIIB:**Separation, purification and identification of organic compounds in binary mixtures (Known samples) **Paper-XIIB:** Multi step organic synthesis	**CEMACOR10:** Rearrangement to electron-deficient carbon **CEMGT 22C:** Aldehydes and ketones **CEMAT35AA:** Structure of proteins, enzymes & co-enzymes **Paper-VI:**Heterocyclic Chemistry: Hantzsch-Widman nomenclature **Paper-XIV:**Proteins
Week 5 to week 8	**CEMACOR04:**Organic Preparations (4-6) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:**Organic preparation-Hydrolysis &oxidation **Paper-VIIIB:**Separation, purification and identification of organic compounds in binary mixtures (2 unknown samples) **Paper-XIIB:** Multi step organic synthesis	**CEMACOR10:** Rearrangement to electron-deficient nitrogen **CEMGT 22C:** Carboxylic acids and their derivatives **CEMAT35AA:** nucleic acids: structure of nucleosides and nucleotides, DNA, RNA **Paper-VI:**Pyrrole-Synthesis & Reactivity **Paper-XIV:**Carbohydrates
Week 9 to Week 12	**CEMACOR04:**Organic Preparations (7-9) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:**Organic Preparation-Halogenation & acetylation **Paper-VIIIB:**Separation, purification and identification of organic compounds in binary mixtures (2 unknown samples) **Paper-XVII:** Project work	**CEMACOR10:** Aromatic rearrangements **CEMGT 22C:** Carbohydrates **CEMAT35AA:** Complementary base pairings, elementary idea of double helical structure of DNA **Paper-VI:**Furan--Synthesis & Reactivity **Paper-XV:**Bioorganic Chemistry- mechanism of enzyme action & enzyme catalysed reactions
Week 13	**CEMACOR04:**Organic Preparations (10) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:**Organic Preparation-crystallization and m.p. determination **Paper-VIIIB:**Separation, purification and identification of organic compounds in binary mixtures (1 unknown samples) **Paper-XVII:** Project work	**CEMACOR10:** Rearrangement to electron-deficient oxygen **CEMGT 22C:** Carbohydrates **CEMAT35AA:**Naturation and denaturation of protein **Paper-VI:**Thiophene-Synthesis & Reactivity **Paper-XV:**Mechanism of reactions catalysed by cofactors-coenzyme A
Week13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR04:**Organic Preparations (11) **CEMGP 23A:**Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:**Organic Preparation-Crystallization and M.P. determination **Paper-VIIIB:**Separation, purification and identification of organic compounds in binary mixtures (1 unknown samples) **Paper-XVII:** Project work	**CEMACOR10:** 'Green' Rearrangement reactions **CEMGT 22C:** Amino acids **CEMAT35AA:** Revision and question paper solving **Paper-VI:**heterocycles in organic synthesis-Masked functionalities **Paper-XV:**Mechanism of reactions catalysed by cofactors- coenzyme A, NAD+, NADH. FAD and thiamine pyrophosphate.
Week 18	Class test	Problem solving

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

Teaching Plan for Even Semester, UG & PG course
Department of Chemistry
Session (2018-19)

Class: B.Sc. and M.Sc.
Semester: 2/ Part-II & III **Name of the Teacher: Tirtha Pada Majhi**
Subject: Chemistry
Paper: CEMACOR04 (UG SEM-II), CEMGP 23A & CEMGT 22C (UG Part-II Gen), CEMAT36OB & CEMAT-38Pr (UG Part-III), Paper-VI & VIIIB (PG SEM-II) and Paper-XIIB, Paper-XIV, Paper-XV & Paper-XVII (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR04:** Organic Preparations (1-3) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation- Nitration & condensation **Paper-VIIIB:** Separation and identification of organic compounds in binary mixtures (Known samples)	**CEMACOR04:** Chirality due to stereo-axis **CEMGT 22B:** Conductance, cell constant, specific conductance: variation with dilution **CEMAT36OB:** Amino acids: types and properties **Paper-VI:** Reduction using boron compounds **Paper-XIV:** Bacterial and animal cells, mode of action of antibacterial agents, Sulfonamides
Week 5 to week 8	**CEMACOR04:** Organic Preparations (4-6) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic preparation-Hydrolysis & oxidation **Paper-VIIIB:** Separation and identification of organic compounds in binary mixtures (2) **Paper-XIIB:** Multi-step organic synthesis	**CEMACOR04**: Concept of pro-stereoisomerism **CEMGT 22B:** Conductance at infinite dilution and their determination for strong and weak electrolytes, Ostwald's dilution law **CEMAT36OB:** synthesis of α - amino acids **Paper-VI:**Hydrobaration and its application **Paper-XIV:** β-lactum antibiotics
Week 9 to Week 12	**CEMACOR04:** Organic Preparations (7-9) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation-Halogenation & acetylation **Paper-VIIIB:** Separation and identification of organic compounds in binary mixtures (2) **Paper-XVII:** Project work	**CEMACOR04:** Conformational: nomenclature, energy barrier, stability **CEMGT 22B:** Application of conductance measurement **CEMAT36OB:**Reactions of amino acids **Paper-VI:**Organoborane compds **Paper-XIV:** 2nd generation antibiotics
Week 13	**CEMACOR04:** Organic Preparations (10) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation-crystallization and m.p. determination **Paper-VIIIB:** Separation and identification of organic compounds in binary mixtures **Paper-XVII:** Project work	**CEMACOR04:** Strains in organic molecules **CEMGT 22B:** Transport Number **CEMAT36OB:** Peptide syntheses **Paper-VI:** Unsaturated hydrocarbon synthesis **Paper-XIV:** Anti-AIDS drugs
Week 13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR04:** Organic Preparations (11) **CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation-Crystallization and M.P. determination **Paper-VIIIB:** Separation and identification of organic compounds in binary mixtures (1) **Paper-XVII:** Project work	**CEMACOR04:** Conformational analysis of selected alkanes and haloalkanes **CEMGT 22B:** Electromotive forces **CEMAT36OB:** determination of amino acid sequence and structure of protein **Paper-VI:** Rearrangements of organoborane compounds **Paper-XIV:** Prostaglandins- structure and synthesis
Week 18	Class test	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor even Semester, UG & PG course

Department of Chemistry

Session (2018-2019)

Class:B.A/ B.Sc

Semester 2 & Part II and Part III **Name of the Teacher: Shubhankar Samanta**

Subject:

Paper : CEMGP 23A, 23B, CEMAP 37-P, CEMACOR04T, Paper III CEMAT 23-OA, Core -05, Core-07, PG-4-DSE, Practical – 2, DSE – 03 – Laboratory Experiment & Research Project

(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	**Paper VII Course : CEMAP 37-P:** Unknown Binary mixture separation (neutral + acid or base) **Core -05: Practical – 2**: Solvent Distillation **DSE – 03 – Laboratory Experiment & Research Project**: Project Work & Separation, purification and identification of organic compounds in binary mixtures **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for -NH2	**CEMACOR04T**: Nucleophilic substitution reactions: substitution at sp3 centre: mechanisms (with evidence), relative rates & stereochemical features: SN1. **Paper III CEMAT 23-OA:** Organonitrogen compounds: synthesis and reactions of alkylnitrites, **Paper VI Courses : CEMAT 36-OA:** Pericyclic reaction: Interesting Problems and Solution Core -07: Organic Chemistry – 2, PG2: Organosulphur: Sulphur stabilization of anions and cations PG4-DSE: Advanced NMR spectroscopy 13M Application of DEPT,1H-1H COSY,
Week 5 to week 8	**Paper VII Course : CEMAP 37-P:** Unknown Binary mixture separation (neutral + acid or base) **Core -05: Practical – 2**: Solvent Distillation **DSE – 03 – Laboratory Experiment & Research Project**: Project Work & Separation, purification and identification of organic compounds in binary mixtures **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for unsaturation	**CEMACOR04T**: SNi; effects of solvent, substrate structure, leaving group and nucleophiles (including ambident nucleophiles, cyanide & nitrite); **Paper III CEMAT 23-OA:** Organonitrogen compounds: synthesis and reactions of alkylnitrites, **Paper VI Courses : CEMAT 36-OA:** Pericyclic reaction: Interesting Problems and Solution 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 Week 12	**Paper VII Course : CEMAP 37-P:** Unknown Binary mixture separation (neutral + acid or base) **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**: substitutions involving NGP; role of crown ethers and phase transfer catalysts; **Paper III CEMAT 23-OA:** Organonitrogen compounds: synthesis and application **Paper VI Courses : CEMAT 36-OA:** Pericyclic reaction: Interesting Problems and Solution Core -07: Organic Chemistry – 2, PG2: Oganosilicon Compounds PG4-DSE: Advanced NMR spectroscopy. Application of HMBC, HSQC

	CEMGP 23A, 23B: Qualitative Analysis of Single Organic Compound (Solid) Test for -OH	
Week 13	**Paper VII Course : CEMAP 37-P:** Unknown Binary mixture separation (neutral + acid or base) **Core -05: Practical – 2**: Solvent Distillation **DSE – 03 – Laboratory Experiment & Research Project**: Project Work & Separation, purification and identification of organic compounds in binary mixtures **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for Unknown solid	**CEMACOR04T**: substitutions involving NGP; role of crown ethers and phase transfer catalysts; **Paper III CEMAT 23-OA:** Organonitrogen compounds: synthesis and reactions of alkylnitrites, **Paper VI Courses : CEMAT 36-OA:** Pericyclic reaction: Interesting Problems and Solution **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: Advanced NMR spectroscopy. Solid State NMR
Week13 to week 14		**Internal Exam**
Week 15 to 17	**Paper VII Course : CEMAP 37-P:** Unknown Binary mixture separation (neutral + acid or base) **Core -05: Practical – 2**: Solvent Distillation **DSE – 03 – Laboratory Experiment & Research Project**: Project Work & Separation, purification and identification of organic compounds in binary mixtures **CEMGP 23A, 23B**: Qualitative Analysis of Single Organic Compound (Solid) Test for Unknown solid	**CEMACOR04T**: substitutions involving NGP; role of crown ethers and phase transfer catalysts; **Paper III CEMAT 23-OA:** Organonitrogen compounds: synthesis and reactions of alkylnitrites, **Paper VI Courses : CEMAT 36-OA:** Pericyclic reaction: Interesting Problems and Solution Core -07: Organic Chemistry – 2, PG2: Oganosilicon Compounds PG4-DSE: Problem and Solution of NMR spectroscopy
Week 18	Revision, Practise	Revision

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

Teaching Plan for Even Semester, UG & PG course
Department of Chemistry
Session (2018-19)

Class: B.Sc. and M.Sc.
Semester: 2/ Part-II & III **Name of the Teacher: Susanta Kumar Manna**
Subject: Chemistry
Paper: CEMACOR04 (UG SEM-II), CEMGP 23A & CEMGT 22C (UG Part-II Gen), CEMAT36OB & CEMAT-38Pr (UG Part-III), Paper-VI & VIIIB (PG SEM-II) and Paper-XIIB, Paper-XIV, Paper-XV & Paper-XVII (PG SEM-IV)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMGP 23A:** Qualitative analysis of solid single organic compound (known samples) **CEMAP 38-Pr:** Organic Preparation- Nitration & condensation **Paper-XIIB:** Multi-step organic synthesis	**CEMGCOR3T:** Aromatic hydrocarbon, naphthalene **CEMAT36OA:** pericyclic reaction:electrocyclic **CEMAT 35AB:** Biorganic chemistry, Primary structure of protein **Paper-XIV:** Advanced pericyclic reaction, PMO theory
Week 5 to week 8	**CEMGP 23A:** Qualitative analysis of solid single organic compound (known samples) **CEMAP 38-Pr:** Organic preparation-Hydrolysis & oxidation **Paper-XIIB:** Multi-step organic synthesis	**CEMGCOR3T:** Phenanthrene **CEMAT 35AB:** Biorganic chemistry, Secondary, tertiary, quarternery structure of protein **CEMAT36OA:** Cycloaddition [2+2] **Paper-XIV:** Correlation diagram
Week 9 to Week 12	**CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation-Halogenation & acetylation **Paper-XVII:** Project work	**CEMGCOR3T:** Anthracene **CEMAT36OA:** Sigmatropic rearrangement, **CEMAT 35AB:** Biorganic chemistry, Secondary, tertiary, **Paper-XIV:** cycloaddition 3 component, 4 component
Week 13	**CEMGP 23A:** Qualitative analysis of solid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation-crystallization and m.p. determination **Paper-XVII:** Project work	**CEMGCOR3T:** Aromatic electrophilic substitution nitration, sulphonation **CEMAT 35AB:** quarternery structure of protein, example, Nucleoside, nucleotide **CEMAT36OA:**, polynuclear hydrocarbon **Paper-XIV:** Sigmatropic [1,3]H, [1,5]H shift
Week 13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMGP 23A:** Qualitative analysis of liquid single organic compound (unknown samples) **CEMAP 38-Pr:** Organic Preparation-Crystallization and M.P. determination **Paper-XVII:** Project work	**CEMGCOR3T: Friedel craft reaction** **CEMAT 35AB:** DNA, RNA, Watson crick model **CEMAT36OA:**, polynuclear hydrocarbon, naphthalene, anthracene **Paper-XIV:** [3,3], [5,5], [2,3] sigmatropic rearrangement
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 (2018-19)

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 to week 4	**CEMACOR03P:**Estimation of Fe(II) using standardized $KMnO_4$ solution **CHEMCOR15P:** Determination of composition of complexes formed in solution by spectrophotometric methods: Mole-ratio method	**CEMACOR03T:**Ion-electron method of balancing equation of redox reaction **CHEMCOR06T:**Molecular orbital concept of bonding (The approximations of the theory, Linearcombination of atomic orbitals (LCAO)) (elementary pictorial approach) **CEMACOR09T: :**Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of group 1 and 2. Study of Beryllium hydrides and halides compounds with emphasis on structure, bonding, preparation, properties and uses. **CHEMCOR15T(PG):**Catalysis by Organometallic compounds: Hydrogenation of olefins,Wilkinson'scatalyst, Tolman catalytic loop, synthesis gas, water-gas shift reaction;
Week 5 to week 8	**CEMACOR03P:**Estimation of Fe(II) and Fe(III) in a given mixture using $K_2Cr_2O_7$ solution. **CHEMCOR15P:**Determination of composition of complexes formed in solution by spectrophotometric methods: Slope- ratio method	**CEMACOR03T:** Elementary idea on standard redox potentials with sign conventions, Nernst equation (without derivation). **CEMACOR09T:** Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of group 13 and 14 **CHEMCOR06T:**Sigma and pi bonds and delta interaction, multiple bonding. orbital designations: gerade, ungerade, HOMO, LUMO. orbital mixing **CHEMCOR15T(PG):**Catalysis by Organometallic compounds: Hydroformylation(oxoprocess),Monsantoaceticacidprocess,Wackerprocess
Week 9 to Week 12	**CEMACOR03P:** Estimation of Fe(III) and Mn(II) in a mixture using standardized $KMnO_4$ solution **CHEMCOR15P:**Determination of composition of complexes formed in solution by spectrophotometric methods: Job's method of continuous variation	**CEMACOR03T:** Influence of complex formation on redox potentials; formal potential **CHEMCOR06T:**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 **CEMACOR09T:** Allotropy and catenation and relative stability of different oxidation states and anomalous behaviour of first member of group 15 **CHEMCOR15T (PG):**Syntheticgasoline:Fischer-Tropsch processandMobileprocess,polymerization, oligomerization
Week 13	**CEMACOR03P:** Estimation of Fe(III) and Cu(II) in a mixture using $K_2Cr_2O_7$. **CHEMCOR15P:**Determination of the rates of consecutive aquation of the complex, $H[Co(III)(DMGH)_2Cl_2]$, by conductance method	**CEMACOR03T:** Influence of precipitation on redox potentials **CHEMCOR06T:**Heteronuclear molecular orbitals: CO, NO, NO^+, CN^- **CEMACOR09T:**Study of Boric acid and borates, boron nitrides, borohydrides (diborane) compounds with emphasis on structure, bonding, preparation, properties and uses **CHEMCOR15T(PG):**Metathesisreactionsof alkenesandalkynes,Zieglar-Nattacatalysis.
Week13 to week 14		**Internal Exam**
Week 15 to 17	**CEMACOR03P:** Estimation of Fe(III) and Cr(III) in a mixture using $K_2Cr_2O_7$.	**CEMACOR03T:** Influence of change of pH on redox potentials,Disproportionation and comproportionation reactions. **CHEMCOR06T:**Heteronuclear molecular orbitals: HF,

		BeH_2, CO_2 and H_2O **CEMACOR09T:** Study of graphitic compounds, silanes, Oxides and oxoacids of nitrogen, phosphorus compounds with emphasis on structure, bonding, preparation, properties and uses, **CHEMCOR15T(PG):**Photo dehydrogenationcatalyst(platinum POP).
Week 18	Practice	Problem solving

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA
Teaching Plan for Odd Semester, UG & PG course
Department of Chemistry
Session (2018-19)

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), CHEMCOR06 (PG SEM-II) .

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMACOR03P:** Estimation of Fe(II) using standardized $KMnO_4$ solution **CEMACOR09P:** Complexometric titration Zn(II). **CEMGEP2:** Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals. **CHEMCOR13P:**Semimicro qualitative inorganic analysis including rare elements. Cation Radicals derived from: Ag, Hg, Pb, Bi, Cd, Cu, As, Sb, Sn, Fe, Al, Cr, Co, Ni, Mn, Zn, Ba, Sr, Ca,Mg, Na, K and NH_4^+ ion.	**CEMACOR03T:** Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, **CEMACOR09T:** Occurrence and uses, rationalization of inertness of noble gases, peculiar behaviour of liquid helium, Clathrates **CEMGET2:** Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements. **CHEMCOR06 (PG SEM-II):** LCAO-MO and VB treatments on H_2^+, H_2
Week 5 to week 8	**CEMACOR03P:** Estimation of Fe(II) and Fe(III) in a given mixture using $K_2Cr_2O_7$ solution. **CEMACOR09P:** Zn(II) in a Zn(II) and Cu(II) mixture. **CEMGEP2:** Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals. **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_3BO_3,SiO_2^-, CrO_4^{2-} , $Cr_2O_7^{2-}$, $[Fe(CN)_6^{4-}]$, $[Fe(CN)_6^{3-}]$.	**CEMACOR03T:** Slater's rules, atomic radii, ionic radii (Pauling's univalent), covalent radii, lanthanide contraction. Ionization potential, electron affinity **CEMACOR09T:** preparation and properties of XeF2, XeF4 and XeF6. **CEMGET2:** common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements. **CHEMCOR06 (PG SEM-II):** application to homo- and hetero- nuclear diatomic molecules/ ions of second period elements
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. **CEMGEP2:** Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals. **CHEMCOR13P:** Insoluble Materials: $PbSO_4$, $BaSO_4$, $SrSO_4$, $PbCrO_4$, CaF_2, SiO_2 and various silicates, SnO_2, Al_2O_3, Fe_2O_3, Cr_2O_3, AgCl, AgBr, AgI. Cation radicals, anion radicals and insoluble materials derived from the following rare Elements: V, Mo, W, U,	**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 **CEMGET2:** Comparative study of B-Al-Ga-In-Tl and C-Si-Ge-Sn-Pb **CHEMCOR06 (PG SEM-II):** Electron density, forces and theirrole in chemical bonding. Hybridization and valences.

	Ti, Zr and Ce.	
Week 13	**CEMACOR03P:** Estimation of Fe(III) and Cu(II) in a mixture using $K_2Cr_2O_7$. **CEMACOR09P:** Hardness of water. **CEMGEP2:** Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals. **CHEMCOR13P:** Analysis of Dolomite ($CaCO_3$, $MgCO_3$, Fe_2O_3, SiO_2) and Pyrolusite (MnO_2, MnO, Fe_2O_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. **CEMGET2:** Comparative study of N-P-As-Sb-Bi **CHEMCOR06 (PG SEM-II):** MO's of H_2O, NH_3, CH_4. Huckel – pi – electron theory.
Week13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMACOR03P:** Estimation of Fe(III) and Cr(III) in a mixture using $K_2Cr_2O_7$. **CEMACOR09P: Preparation of** $[Mn(acac)_3]$ and $Fe(acac)_3]$ (acac= acetylacetonate) **CEMGEP2:** Inorganic Chemistry-LAB Qualitative semimicro analysis of mixtures containing three radicals. **CHEMCOR13P:** Brass (Cu, Zn); Bronze (Cu, Zn, Sn), Steel (Cr, Mn, Ni, P).	**CEMACOR03T:** Secondary periodicity, Relativistic Effect, Inert pair effect. **CEMACOR09T:** Molecular shapes of noble gas compounds (VSEPR theory). **CEMGET2:** Comparative study of O-S-Se-Te and F-Cl-Br-I **CHEMCOR06 (PG SEM-II):** applications of HMO to ethylene, butadiene and benzene, idea of self consistent field. Concept of resonance.
Week 18	Practice	Revision and Practice

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA
Teaching Plan for Odd Semester, UG & PG course
Department of Chemistry
Session (2018-19)

Class: B.Sc and M.Sc.
(1+1+1) system Part-II and Part-III
Semester: 2 **Name of the Teacher: Rituparna Biswas**
Subject: Chemistry
Paper: CEMAT 23-IB (Part-II), CEMACOR03 (UG SEM-II), CEMAT 24-PrB (Part-II), Paper-V (PG SEM-II) Paper XV (PG SEM-IV) and Paper -VIII A (PG SEM-II Pr)

Sl No	Practical syllabus to be covered	Theory syllabus to be covered
Week 1 to week 4	**CEMAT 24-PrB:** Inorganic qualitative analysis of unknown sample-1 **CEMACOR03P:** Estimation of Fe(II) using standardized $KMnO_4$ solution **Paper VIII A** Known tests for detection of radicals derived from rare elements.	**CEMAT 23-IB:** Pseudo halides, fluorocarbons **CEMACOR03T:** Solubility product principle **Paper-V:** Microstates, determination of ground and excited state terms of dn ions **Paper XV:** Magnetic susceptibility and its determination by Gouy and Faraday method.
Week 5 to week 8	**CEMAT 24-PrB:** Inorganic qualitative analysis of unknown sample-2 **CEMACOR03P:** Estimation of Fe(II) and Fe(III) in a given mixture using $K_2Cr_2O_7$ solution. **Paper VIII A** Treatment of known insoluble materials.	**CEMAT 23-IB:** Freons and NOx with environmental effects **CEMACOR03T:** common ion effect **Paper-V:** Orgel diagrams (qualitative approach), selection rules for spectral transitions, d-d spectra of dn ions and crystal field parameters, nephelauxetic series. **Paper XV:** Diamagnetism in atoms and polyatomic systems, Pascal's constants.
Week 9 to Week 12	**CEMAT 24-PrB:** Inorganic qualitative analysis of unknown sample-3 **CEMACOR03P:** Estimation of Fe(III) and Mn(II) in a mixture using standardized $KMnO_4$ solution **Paper VIII A** Analysis of unknown inorganic mixtures containing six radicals including two radicals derived from the rare elements	**CEMAT 23-IB:** Chemistry of hydrazine **CEMACOR03T:** common ion effect and their applications **Paper-V:** Metal-ligand bonding (pictorial MO approach): sigma and pi-bonding in complexes, CT transitions.Crystal field splitting of free ion terms in weak and strong crystal fields (Oh and Td) **Paper XV:** Spin and orbital moments, spin-orbit coupling, Lande interval rule, energies of J states. Curie equation, Curies law and Curie-Weiss law.
Week 13	**CEMAT 24-PrB:** Inorganic qualitative analysis of unknown sample-4 **CEMACOR03P:** Estimation of Fe(III) and Cu(II) in a mixture using $K_2Cr_2O_7$. **Paper VIII A** Analysis of unknown inorganic mixtures containing six radicals including two radicals derived from the rare elements	**CEMAT 23-IB:** hydroxylamine, N_3^- **CEMACOR03T:** Redox potential diagram (Latimer and Frost diagrams) **Paper-V:** Spin and orbital moments, spin-orbit coupling **Paper XV:** First order and second order Zeeman effects, temperature independent paramagnetism, simplification and application of Van Vleck susceptibility equation.
Week13 to week 14	**Internal Exam**	
Week 15 to 17	**CEMAT 24-PrB:** Inorganic qualitative analysis of unknown	**CEMAT 23-IB:** Thioand per-sulphates **CEMACOR03T:** Disproportionation and comproportionation

	sample-5 **CEMACOR03P:**Estimation of Fe(III) and Cr(III) in a mixture using $K_2Cr_2O_7$. **Paper VIII A** Analysis of unknown inorganic mixtures containing six radicals including two radicals derived from the rare elements	reactions. **Paper-V:** quenching of orbital moment, spin only formula, room temperature and variable temperature magnetic moments **Paper XV:** Quenching of magnetic moments, low spin- high spin crosser. Magnetic behaviour of Lanthanides and actinides.
Week 18	Practice	Problem solving

BIDHANNAGAR COLLEGE

GOVERNMENT OF WESTBENGAL

SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.

Semester: 1, Part-II and Part-III **Name of the Teacher: Dr Ranajit Karmakar**

Subject: Zoology

Paper: ZOOACOR01, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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 *Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora*	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 Module 701: Transport across cell surface membrane, Donnan membrane equilibrium Functions of mammalian blood: Oxygen transport and CO_2 transport Neurophysiology: Generation of action potential and propagation of nerve impulse in myelinated and non-myelinated nerve fibers. Synaptic and neuro-mascular junctions : structure and functions
Week 5 to Week 8		Module 702: Classification of vertebrate hormones based on chemical nature and mechanism of action (names and examples only). Hormone delivery systems: Endocrine, neuroendocrine, paracrine, neurocrine, autocrine (Definitions and examples only)
Week 9 to Week 12		Module 401: Linkage and Recombination – Types and outcome, linkage disequilibrium, 3-point cross
Week 13	Group A: Microtomy: Paraffin section cutting and mounting, H&E staining of histological tissues and identifying the stained slide (name, identifying characters only). [fixation and paraffin embedding procedure should be demonstrated in the class]	Module 703: Basic tissue types: epithelial, connective, cardiac and nervous tissue(typical structure of neuron and types of neuron, glial cells etc) Membrane specializations of epithelia. (Intercellular surface [cell junctions], luminal surfaces and basal surfaces.).
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 1, Part-II and Part-III. **Name of the Teacher: Dr Saurabh Chakraborti**
Subject: Zoology

Paper: Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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		Module 801: Origin of germ cells, Structural features of sperms and eggs in sea urchins and in mammals, Gametogenesis in mammals, Fertilization: external fertilization in sea urchins, internal fertilization in mammals (in depth molecular details not required) Cleavage : Types of cleavage found in animals and animal groups that exhibit a type, outlines of cleavage process in *C. elegans*, Zebra fish and *Xenopus* and chick
Week 5 to Week 8		Module 703: Exocrine glands: Types and discharge of secretory products (merocrine, apocrine, holocrine). Principles of tissue fixation, staining, Histology of: stomach, pancreas, testis, ovary, thyroid, lymph node. (Outline of structures). Histological structure of mammalian nephron and functions of each regions.
Week 9 to Week 12		Module 805: Common ticks and mites in human surroundings and diseases caused by them Module 402: Genetic engineering- preliminary concepts and common examples Introductory principles of common methods used in cellular and molecular biology: PCR, RFLP, DNA fingerprinting, Gene sequencing
Week 13		Module 401: 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
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc. Part-II and Part-III. **Name of the Teacher: Dr Somnath Mandal**
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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 adult *Ascaris lumbricoides* and its life stages (Slides/micro-photographs) 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.
Week 5 to Week 8		Module 402: Transcription : only outline of the mechanisms Translation : only outline of the mechanisms Gene expression-lac operon, trp operon (only introductory outline of the processes)
Week 9 to Week 12		Module 502: Ecology of populations: survivorship curves, life history tables, age-sex pyramids, population growth models (exponential and logistic models only)
Week 13		Module 506: What is Immunology: a short preview of the development of the subject Innate (Nonspecific) and Acquired (Specific) immunity.
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 1, Part-II and Part-III. **Name of the Teacher: Dr Suman Mukherjee**
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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 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		Module 402: Other organelles : introduction to structure and functions of mitochondria, GERL Cell Cycle : preliminary concept Replication : only outline of the mechanisms
Week 9 to Week 12	Group-B: Biochemical tests (20)- Qualitative tests for unknown carbohydrates and proteins, colorimetric assay of protein (Lowry's method) and glucose (Nelson and Somogyi method), Preparation of Buffers – PBS, TRIS-Cl,	Module 504: The study of microbial structure Microbial Nutrition Microbial growth Control of Microorganisms by Physical and Chemical agents
Week 13		Module 805: Mosquito-borne diseases: Malaria and Filaria- causative agents, their life cycle, modes of infections in man, major modes of treatments, major vector species in India, their ecology and life cycles, control measures Module 801: Gastrulation: generalized patterns, brief outlines of the process in *C. elegans*, Zebra fish, *Xenopus* and chick Organogenesis : development of brain in chicken Conceptual outlines (very brief) of – Cell potency and Stem Cells, Sex determination in *Drosophila* and Man, Environmental sex determination in reptiles. HOX genes in development
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 1, Part-II and Part-III. **Name of the Teacher: Mrs Urmi Mitra**
Subject: Zoology

Paper: ZOOACOR01, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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.	ZOOACOR01T, Unit 1: General characteristics and Classification up to classes Life cycle and pathogenicity of *Giardia intestinalis*, *Leishmania donovani*, *Entamoeba histolytica* and *Plasmodium vivax* Locomotion and Reproduction in Protista Module 504: Pathogenicity of Microorganisms Human diseases caused by Virus (polio, avine influenza) Bacteria (cholera, tuberculosis), Fungi (ringworm)
Week 5 to Week 8	Group-B: Chromosome preparations : Onion root tip (mitotic stages), Grasshopper testes (meiotic stages) and Drosophila larvae (Polytene chromosome and imaginal disc)	Module 503: Biodiversity: concept of biodiversity, Importance of biodiversity, biodiversity hotspots, India- a megadiversity country, CBD, Indian Biodiversity Act.
Week 9 to Week 12		Module 805: Mosquito-borne diseases: Dengue and DHF, Chikungunya- causative virus, symptoms and treatments Visceral Leishmaniasis (Kala-azar)- causative species and vectors in West Bengal
Week 13		Module 801: Outlines of historical concepts and experiments in the emergence of developmental biology- Induction, Fate map, Spemann and Mangold's organizer transplant experiments, von Baer's laws. Germ layers and its contributions to the development of different tissues in vertebrates.
Week 13 to week 14	**Internal Exam**	
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 1, Part-II and Part-III. **Name of the Teacher: Dr Suman Bej**
Subject: Zoology

Paper: ZOOACOR01, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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 Sycon (T.S. and L.S.), *Hyalonema*, *Euplectella*, *Spongilla* One specimen/slide of any Ctenophore	ZOOACOR01T, Unit 2: Porifera General characteristics and Classification up to classes Canal system and spicules in sponges Unit 4: Ctenophora General characteristics
Week 5 to Week 8	Group-B: Uses of microscope, stages and occular micrometer and camera lucida for cellular study	Module 402: Units of biological measurements and microscopy Plasma membrane : lipid bilayer, membrane proteins and membrane transport - brief outline only
Week 9 to Week 12		Module 701: Respiration: gill respirations in fishes, respiration in air-breathing fishes, respiration in avian lungs General architecture of skeletal (striated) muscle and smooth muscle; Ultrastructure of skeletal muscle sarcomere, molecular structure of actin and myosin, Muscle contraction: sliding filament theory
Week 13		Module 802: Environmental pollutions (nature and sources of pollutants, impacts on ecosystems and humans, remedies): water, soil, air and sound pollutions Environmental laws: major ones applicable in West Bengal Toxicology: including its significance as a branch of Science
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 1, Part-II and Part-III. **Name of the Teacher: Dr Biswatosh Ghosh**
Subject: Zoology

Paper: ZOOACOR01, ZOOACOR02**,** Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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: Examination of freshwater pond water collected from different places for diversity of protists in it.	ZOOACOR01T, Unit 1: Protista, Parazoa and Metazoa Study of *Euglena*, *Amoeba* and *Paramoecium* Evolution of symmetry and segmentation of Metazoa
Week 5 to Week 8	ZOOACOR02P: Determination of population 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.	ZOOACOR02T: Unit 3: Community characteristics: species diversity, abundance, dominance, richness, Vertical stratification, Ecotone and edge effect. Ecological succession and example of it. Unit 5: Applied Ecology Wildlife Conservation (in-situ and ex-situ conservation). Management strategies for tiger conservation; Wild life protection act (1972)
Week 9 to Week 12		Module 701: Swim bladder and its functions in teleost fishes Water and osmotic regulations : problems in marine cyclostomes, elasmobranchs and teleosts. Module 401: Significance of Mendel's experiments and laws, Concepts and examples of -Test Cross and Back Cross, Incomplete Dominance/Codominance, Multiple Alleles, Epistasis, Polygenic inheritance
Week 13		Module 701: Freshwater teleosts, in hot desert environments(camel) and examples of significant adaptations solving it by different animal groups Module 501: Modern definitions of taxonomy and systematics, philosophy and working of modern taxonomy, Linaean hierarchy, Concept of a species in taxonomic practice
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Dr Ranajit Karmakar**
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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	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
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	Module 404: Three-dimensional structure of proteins (preliminary concepts only) : peptide bonds, alpha helix, beta conformation, common examples of globular proteins Structure of nucleic acids (preliminary concepts only) : DNA and RNAs
Week 9 to Week 12	Group-A: Pedigree analyses : simple pedigrees of Mendelian and common sex-linked traits	Module 506: Central dogma of Immune system: (a) Cells of Immune system (b) Organs of Immune system- Primary & Secondary lymphoid organs. Concept of Antigen & Antigen Presentation: Antigenic determinant (for ABO and Rh group only)
Week 13		Module 701: Urine formation in human kidney
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Dr Saurabh Chakraborti**
Subject: Zoology

Paper: Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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		Module 702: Hormonal control of mammalian ovarian cycle, differences between estrous and menstrual cycle. Mechanism of hormone actions (outlines only): cytoplasmic receptor, nuclear receptor, membrane receptor, HRE, HSP, cAMP, cGMP, IP3—DAG, tyrosine kinase, calcium-calmodulin Endocrine disorders (*symptoms and causes only*): Diabetes insipidus; IDDM & NIDDM, Hypothyroidism and hyperthyroidism, Conn's and Cushing's syndrome.
Week 5 to Week 8	Group-A: Statistical tests of data and decision making (8) : Chi square test for goodness of fit and student t test for comparing means of two small samples from normal populations (paired/unpaired)	Module 802: Dose-response relationships In vivo and In vitro toxicity tests Introduction to the concepts of detoxication mechanisms
Week 9 to Week 12		Module 806: Lac culture: Lac and lac insects, host plants and lac cultivation, scopes and problems Poultry birds: different breeds, their advantages and disadvantages, importance of indigenous breeds
Week 13		Module 701: Bioluminescence: occurrence, mechanism of production Module 404: Chromosome structure including Nucleosomes (preliminary concepts only) Introductory principles of common methods used in biochemistry and biophysics : Chromatography, Ultracentrifuge, Electrophoresis, X-ray crystallography, Immunoeletrophoresis & Western blotting
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Dr Somnath Mandal**
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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)* Module 506: The Major Histocompatibility Complex : Antigen processing & presentation Concept of T Cell-Antigen recognition and activation [Intracellular signal transuding enzymes excluded] : Structure and function of TCR complex, APC-T Cell interaction,
Week 5 to Week 8	ZOOACOR10P: 5. Demonstration of ELISA using kit.	ZOOACOR04T, Unit 4: Mitochondria and Peroxisomes Mitochondria: Structure, Semi-autonomous nature, Endosymbiotic hypothesis Mitochondrial Respiratory Chain, Chemi-osmotic hypothesis Peroxisomes
Week 9 to Week 12	Group A:Determination of soil and water pH (With pH meter); Quantification of free CO_2 and dissolved O_2 (Winkler's Method) in water sample	Module 403: Chemical evolution of biomolecules (outline only) Biological significance of water Structural identities of biomolecules : Carbohydrates, Amino Acids, Peptides, Lipids (preliminary outlines of lipids), nucleic acids
Week 13	Group-A: Ecological study (12) – Sampling techniques in field ecology- Quadrat, Transects, Pitfall, Measuring species diversity of given sample of a community	Module 502: Ecology of communities : defining a community, measuring species diversity, species interactions (competition and coexistence, predation, herbivory, mutualism), succession and concept of climaxes, Theory of Island Biogeography (introductory concepts only) Ecosystems ecology: trophic structure, energy flow, nutrient cycling
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Dr Suman Mukherjee**
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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: Annelids - Aphrodita, Nereis, Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Hirudinaria ZOOACOR04P: 5. Cell viability study by Trypan Blue staining	ZOOACOR03T, Unit 2: Annelida General characteristics and Classification up to classes Excretion in Annelida ZOOACOR04T, Unit 3: Endomembrane System Structure and Functions: Endoplasmic Reticulum, Golgi Apparatus, Lysosomes
Week 5 to Week 8	ZOOACOR03P : 1. Molluscs - Chiton, Dentalium, 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	ZOOACOR03T Unit 5: Mollusca General characteristics and Classification up to classes Respiration in Mollusca Torsion and detorsion in Gastropoda Pearl formation in bivalves Evolutionary significance of trochophore larva
Week 9 to Week 12	Group-A: Database preparation, analyses and graphical presentation by EXCEL in Microsoft/Open Office (7)	Module 505: Concept of parasitism Origin and evolution of parasitism, host parasitic interactions,
Week 13		Module 702: Feed back control of hormone secretion: negative and positive. Hormone biosynthesis (including sites of synthesis, outlines only): Thyroid hormones (T_3, T4), testosterone, estrogen, progesterone, adreno-cortical hormones, Insulin, Adrenal catecholamines.
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Mrs Urmi Mitra**
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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: Echinodermates - Pentaceros/Asterias, Ophiura, Clypeaster, Echinus, Cucumaria and Antedon 2. Study of disarticulated skeleton of Toad, Pigeon and Guineapig 3. Demonstration of Carapace and plastron of turtle	ZOOACOR03T, Unit 6: Echinodermata General characteristics and Classification up to classes Water-vascular system in Asteroidea Larval forms in Echinodermata Affinities with Chordates Module 506: 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).
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 5: Cytoskeleton Structure and Functions: Microtubules, Microfilaments and Intermediate filaments Unit 6: Nucleus Structure of Nucleus: Nuclear envelope, Nuclear pore complex, Nucleolus Chromatin: Euchromatin and Heterochromatin and packaging (nucleosome)
Week 9 to Week 12		Module 403: Enzymes (major classes of enzymes –mode of actions and examples) and enzyme kinetics Module 505: Parasitic adaptation: physiological, bio-chemical, Zoonosis, Myasis Identifying characters, life cycles, mode of infections of important parasites – *Entamoeba, Giardia, Fasciola, Taenia, Ascaris*
Week 13	Group B: Medical entomology: Identifications of *Culex, Aedes* and *Anopheles* mosquitoes from whole mount dry specimens. Identification of *Plasmodium, Entamoeba, Giardia, Fasciola, Ascaris, Wuchereria*	Module 702: Feed back control of hormone secretion: negative and positive. Hormone biosynthesis (including sites of synthesis, outlines only): Thyroid hormones (T_3, T4), testosterone, estrogen, progesterone, adreno-cortical hormones, Insulin, Adrenal catecholamines.
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Revision	Revision
Week 18	Field work Report	Revision

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Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Dr Suman Bej**
Subject: Zoology

Paper: ZOOACOR04, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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	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
Week 5 to Week 8		Module 403: Metabolic pathways: Glycolysis, HMP shunt, Kreb's cycle, electron transfer system (outline), Gluconeogenesis, Glycolysis, beta oxidation,
Week 9 to Week 12	Group B: Developmental Biology: Identification of chick's embryonic stages (at 24, 48 & 96 hrs. of incubation. Identification of fry stages of a carp fish (any cultivated carp species)	Module 506: Concept of B Cell Activation and Antibody production [Intracellular signal transuding enzymes excluded]: Structure & Function of Immunoglobins [class switching among Immunoglobin gene excluded].Antigenic determinants of Immunoglobins (Isotype, Allotype & Idiotype).
Week 13		Module 806: Fishes and fishery: diversity of indigenous freshwater, estuarine, marine fishes and shell fishes in West Bengal. Invasive and exotic species of fishes in West Bengal. Techniques of modern pisciculture and prawn culture. Problems related to wild prawn seed collections in Sunderbans, fish productivities in India and West Bengal, ecology and degradation of freshwater fish habitats and decrease in wild fish stocks (very brief idea)
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

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GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, (Part-II & III) UG course Department of Zoology

Session (2018-2019)

Class: B.Sc.
Semester: 2, Part-II and Part-III. **Name of the Teacher: Dr Biswatosh Ghosh**
Subject: Zoology

Paper: ZOOACOR03, ZOOACOR04, Paper-IV, Paper-V, Paper-VI, Paper-VII, Paper VIII, Paper IX **(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 Module 506: The Complement System (Basic concepts & Types only) Techniques in Immunology: ELISA, RIA, Immunodiffusion Techniques,
Week 5 to Week 8	ZOOACOR03P: Mount of mouth parts and 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.	ZOOACOR03T Unit 4: Onychophora General characteristics and Evolutionary significance ZOOACOR04T, Unit 8: Cell Signaling Cell signalling transduction pathways; Types of signaling molecules and receptors GPCR and Role of second messenger (cAMP) Module 503: Wildlife Conservation: Major forest types and their locations in India, Major wildlife of India - their Indian distribution, present status, conservation efforts (PAs- major sanctuaries and national parks, Indian Wildlife Act, IUCN categories, Project tiger as a case study)
Week 9 to Week 12	Group-A: Documentation of local fauna (5): documentation of different species of wild birds, mammals, butterflies, mollusks, fishes, amphibians, reptiles, any other common group of animals (any one group to be chosen by the college for a year and not to be repeated in succeeding year) found naturally in the localities around the college.	Module 402: Types of mutations Transposable genetic elements (preliminary introductions) Module 501: ICZN and its important rules, Cladistics: simple introductory concept and examples.
Week 13	Group B: Morpho-metric studies: mouth parts and fins of fishes (any major Carp, *Mystus*, Tilapia), different aspects of shells of *Acatina*, *Pila*, *Bellamya*, Ants (Total length, Head length, Trunk and Petiole length, Gaster length of any big sized easily available ant like *Camponotus*, *Oecophila*, *Tetraponera*)	Module 806: Sericulture: silks and silk worms, sericulture practices- methods, scopes and problems Apiculture: Honey bees and their behaviours in relation to bee-keeping, popular methods of bee keeping, scopes and problems Cattle, goats and lambs: different breeds, their advantages and disadvantages, importance of indigenous breeds
Week 13 to week 14		**Internal Exam**
Week 15 to 17	Laboratory Note Book	Revision
Week 18	Field work Report	Revision

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

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: **Session (2018-19)**

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

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. **Part II (UG):** Paper – IV: Air Microbiology: Different types of microorganisms in air, aerosol sampling technique, Air borne pathogens **Part III (UG**): Paper –**V:** Microbial culture selection by screening method with reference to the Antibiotic and Enzyme production. **PG Sem I:** Paper 2: Maintenance & preservation of pure cultures, Enrichment culture techniques **PG Sem III**: paper 14 DSE 01 **Bioethics :** Biotechnology And Risk Ethical implications of cloning: Reproductive cloning , therapeutic cloning ; Ethical, legal and socio-economic 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 **Part II (UG):** Paper – IV: Air Microbiology:. Soil Microbiology: Physical and chemical properties of soil **Part III (UG**): Paper –V: Strain improvement, **PG Sem I:** Paper 2: **Microbial Systematics:** General account of systematics, Classification and nomenclature; Classification systems-artificial or phonetic, **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	**Part II (UG):** **Paper IV Gr. B :** Isolation of pure culture from natural sources ; molds from infected citrus fruits-by streak-plate method. Microbes from air-by agar-plate exposure method. **PG Sem III**:	**UG 1 (CBCS):** Paper – MCBCOR01T: Aim and principles of classification, systematics and taxonomy, concept of species, taxa, strain; **Part II (UG):** Paper – IV: Soil Microbiology: Different microbial groups in soil, Method of study, Rhizosphere, Phyllosphere, **Part III (UG**): Paper –V: equipment and instrumentation fermenters-General description **PG Sem I:** Paper 2: natural and phylogenetic; Species concept; monophyletic, paraphyletic, polyphyletic; Molecular taxonomy, Molecular phylogeny, Molecular chronometers; **PG Sem III**: Paper 14 DSE 01 importance of IPR – patentable and non patentable – patenting life
Week 13	**Part II (UG):** **Paper IV Gr. B :** Microbiological examination of milk : By Methylene-blue dye reduction test : **PG Sem III**: Paper 15:	**UG 1 (CBCS):** Paper – MCBCOR01T: Conventional, molecular and recent approaches to polyphasic bacterial taxonomy, evolutionary chronometers, **Part II (UG):** Paper – IV: Soil Microbiology: Microbial interactions **Part III (UG**): Paper –V: General method of preservation of

		industrially important culture strains **PG Sem I:** Paper 2: Polyphasic taxonomy, Numerical taxonomy, Describing a new Prokaryotic species, **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 to week 14		**Internal Exam**
Week 15 to 17	**PG Sem III**: Paper 15:	**UG 1 (CBCS):** Paper – MCBCOR01T: , rRNA oligonucleotide sequencing, signature sequences, and protein sequences. **Part II (UG):** Paper – IV: Soil Microbiology: Microbial interactions **Part III (UG**): Paper :V: Packed-bed Bioreactor **PG Sem I:** Paper 2: Valid publication of names of bacterial taxa, Culture collection. PG Sem III**:** Indian Patent Act, 1970 and its amendments.
Week 18	Revision, Practice	Revision

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

Teaching Plan for even Semester, UG/PG course

Department of Microbiology **Session (2018-19)**

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 code to be mentioned)	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	**UG 2 (CBCS):** Paper MCBCOR04P: Isolation of microbes (bacteria & fungi) from soil.	UG 2 (CBCS): **Paper MCBCOR04T: Waste Management:** Solid Waste management: Sources and types of solid waste, **Part II (UG):** Paper – IV: Paper – IV: Air Microbiology: Revision test & question-answer discussion of previous years University exams. **Part III (UG**): Paper :V: Stirred Tank Fermentor **PG Sem II:** Paper 10**: Aeromicrobiology:** Microbes of indoor and outdoor environment, pathways, enumeration, **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	**PG Sem IV**: Paper 17:	**UG 2 (CBCS):** Paper MCBCOR 04T: Methods of solid waste disposal (composting and sanitary landfill) **Part II (UG):** Paper – IV: Paper – IV: Soil Microbiology: question-answer discussion of previous years University exams. **Part III (UG**): PaperV: , Bubble column fermenter **PG Sem II:** Paper 10**:** Extramural and intramural, control, bioterrorism. Eutrophication,

		PG Sem IV: Paper 17: **Fermentation:** an overview, isolation, screening and selection of industrially important microorganisms
Week 9 to Week 12		**UG 2 (CBCS):** Paper – MCBCOR04T: Liquid waste management: Composition and strength of sewage **Part II (UG):** Paper – IV: Soil Microbiology: Revision test **Part III (UG**): Paper - V: Air Lift Fermentor **PGSem II:** Paper 10**: Waste Management:** Biomass waste management of plant's residues: Lignocellulolytic microorganisms, **PG Sem IV**: Paper 17: strain improvement for industrial purposes, use of recombinant DNA technology,
Week 13	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 **Part II (UG):** Paper – IV: Soil Microbiology: question-answer discussion of previous years University exams. **Part III (UG**): Paper - V: Industrial Microbiology Revision **PG Sem II:** Paper 10**:** enzymes and their biotechnological applications in: (i) biopulping, (ii) biobleaching, (iii) textiles (iv) biofules, (v) animal feed production. **PG Sem IV**: Paper17: **Bioreactors:** Design and components of basic fermentor
Week 13 to week 14		**Internal Exam**
Week 15 to 17		**UG 2 (CBCS):** Paper – MCBCOR04T: Solid Waste management: Revision **Part II (UG):** Paper – IV: Soil Microbiology: Revision **Part III (UG**): Paper - V: Industrial Microbiology Revision **PG Sem II:** Paper 10**:** Revision **PG Sem IV**: Revision
Week 18	Mock Viva-voce from the practical	Revision

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

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: **Session (2018-19)**

Class: B.Sc/M.Sc.

Semester 1 (UG), 2nd & 3rd Year (UG) & 1,3 (PG) **Name of the Teacher: Dr. Sandip Bandopadhyay**

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 1 (CBCS):** Paper – MCBCOR01P: Instrumentation in Microbiology lab: compound microscope, Autoclave, laminar air flow, pH meter, incubator & hot air oven	**UG 1 (CBCS):** Paper – MCBCOR02T: Bacterial growth, phases of growth, kinetics & Numerical problems **Part II (UG):** Paper – IV: Water Microbiology: Water-borne pathogens, coliforms, BOD,COD **Part III (UG**): Paper –V: Transposons & its mechanism, TN family **PG Sem I:** Paper 2: Bacterial growth, phases of growth, kinetics & Numerical problems **PG Sem III**: paper 13- RDT: restriction & modification enzymes
Week 5 to week 8	**UG 1 (CBCS):** Paper – MCBCOR02P: Simple staining of bacteria: *E. coli, Bacillus subtilis, Staphylococcus aureus*	**UG 1 (CBCS):** Paper – MCBCOR02T: physical factors affecting growth: pH, temperature, pressure, O2 & CO2 concentration etc. **Part II (UG):** Paper – IV: Water Microbiology: Properties of coliform, presumptive, confirmed & completed test **Part III (UG**): Paper –V: RDT: restriction & modification enzymes **PG Sem I:** 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 2: Chemical factors affecting on microbial growth **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 I:** Paper 2: Batch & continuous culture: chemostat **PG Sem III**: paper 13: genomic & pDNA: Isolation & purification
Week13 to week 14		**Internal Exam**
Week 15 to 17	**PG Sem III**: Paper 15: Biostatistics: 6. one-tail t-test 7. chi square test 8. concept of probability, degrees of freedom	**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 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

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

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2018-19)

Class: B.Sc/M.Sc.

Semester 2 (UG) & 2,4 (PG), 2nd & 3rd Year (UG) Name of the Teacher: Dr. Sandip Bandopadhyay

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 2 (CBCS):** Paper MCBCOR03P: Demonstration of laboratory preparation of buffers: numerical	**UG 2 (CBCS):** Paper MCBCOR03T: Acid, base, pH, buffer: concept **Part II (UG):** Paper – IV: Water Microbiology: Revision test & question-answer discussion of previous years University exams.

	calculations	**Part III (UG**): Paper :V: RDT: Southern, Northern & Western blot **PG Sem II:** Paper 9**:** Chromatography**:** ion-exchange, gel filtration **PG Sem IV**: Paper17:Fermentation: penicillin, streptomycin, VitB_{12}
Week 5 to week 8	**PG Sem IV**: Paper 17: Fermentative production of Alcohol	**UG 2 (CBCS):** PaperMCBCOR03T: Numerical problems: pH ,buffers **Part II (UG):** Paper – IV: Water Microbiology: question-answer discussion of previous years University exams. **Part III (UG**): PaperV: Applications of RDT: RFLP, RAPD, fingerprint **PG Sem II:** Paper 7**:** Chromatography**:** affinity, HPLC, GLC **PG Sem IV**: Paper 17: Fermentation: lactic acid, citric acid, vinegar
Week 9 to Week 12		**UG 2 (CBCS):** Paper – MCBCOR03T: Polyprotic acids & its Numerical problems **Part II (UG):** Paper – IV: Water Microbiology: Revision 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	Mock Viva-voce from the practical	**UG 2 (CBCS):** Paper – MCBCOR03T: Revision **Part II (UG):** Paper – IV: Water Microbiology: question-answer discussion of previous years University exams. **Part III (UG**): Paper - V: RDT: Revision **PG Sem II:** Paper 7**:** Chromatography: paper chromatography, TLC **PG Sem IV**: Paper17:bread, pickles, dosa, sauerkraut fermentation
Week 13 to week 14		**Internal Exam**
Week 15 to 17		**UG 2 (CBCS):** Paper – MCBCOR03T: titration curve, isoelectic pH **Part II (UG):** Paper – IV: Water Microbiology: Revision **Part III (UG**): Paper - V: RDT: Revision **PG Sem II:** Paper 7**:** Chromatography**:** Revision **PG Sem IV**: Paper17: Probiotics, SCP, mushroom production
Week 18	Mock Viva-voce from the practical	Revision

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor OddSemester, UGand PG courses

Department of Microbiology

Session (2018-19)

Class:B.Sc/M.Sc.
UG Semester 1, Part 2 and Part 3 (1+1+1 system) and PG 1and PG 3
Name of the Teacher: Dr. Rini Roy
Subject: Microbiology
Paper : cc1, Paper 3, paper 6, paper 7 (UG) & Paper 1 (PG1), Paper 11 (PG3)
(Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theorysyllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	**Part 3 (UG) Paper 7**: 1. Separation of Amino Acids and monosaccharides by paper chromatography and by TLC.	**Part 2 (UG), Paper III, Group B:** Transamination, deamination transmethylation and decarboxylation. Glucogenic and ketogenic amino acids, Outline of Urea cycle; Microbial metabolism glycine, phenylalanine **Part 3 (UG), Paper VI, Group B:** Overview of Immune

	2. Standard curve of: a) reducing sugars b) para nitrophenol c) protein (Bradford and Lowry) d) Ammonia (Nessler method)	system, cells and organs of the immune system **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 **PG1: Paper 1**: Biomolecules & Enzymology: Carbohydrates **PG 3: Paper 11**: Immunology: Anatomic barriers, Physiologic barriers, Phagocytic/endocytic barriers, inflammatory barriers.
Week 5 to week 8	**Part 3 (UG) Paper 7:** Determination of Km Vmax and pH optima of Alkaline phosphatase, Progress curve of Alkaline phosphatase	**Part 3 (UG), Paper 6, Group B**: Overview of Immune system, types of immunity, antigens, Immunoglobulins **UG1 (CBCS) Paper MCBACOR01T**: Development of various microbiological techniques and the golden era of microbiology, Development of the field of soil microbiology: Contributions of Martinus W. Beijerinck, Sergei N. Winogradsky, Selman A.Waksman **PG1: Paper 1: 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	**Part 3 (UG) Paper 7**: Determination of Km Vmax and pH optima of urease.	**UG1 (CBCS) Paper MCBACOR01T**: Establishment of fields of medical microbiology and immunology through the work of Paul Ehrlich, Elie Metchnikoff, Edward Jenner **PG1: Paper 1: 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, un-competitive 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. **Part 3 (UG), Paper 6, Group B:** Overview of Immune System, complement, Antibody antigen interaction
Week 13	**Part 3 (UG) Paper 7**: Determination of Km Vmax and pH optima of alpha-amylase.	**Part 3 (UG), Paper 6, Group B:** Overview of Immune System, Hypersensitivity **PG1: Paper 1: Biomolecules & Enzymology:** Allosteric Enzymes and Feedback Inhibition,

Week13 to Week 14	**Internal Exam**	
Week 15 to 17	Industry Visit, Practical copy checking	**PG1: Paper 1: Biomolecules & Enzymology:** Isozymes, Abzymes. Regulation of enzymes. Industrial application of several enzymes. Ribozymes Revision class tests and question-answerdiscussions
Week 18	Revision, Practise	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor even Semester, UG and PG courses

Department of Microbiology

Session (2018-2019)

Class:B.Sc/M.Sc.
UG Semester 2,Part 3 (UG), PG 2 and PG 4
Name of the Teacher: Dr. Rini Roy
Subject: Microbiology
Paper : cc3, Part 3, PG Paper 6 and Paper 16
(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	**UG2 (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: **Part 3 (UG): Paper 7:**Mock viva and practical practice	**UG2 (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 **PG 2: Paper 6: Metabolism & Bioenergetics:**Catabolism and Anabolism, Glycolysis: Fate of pyruvate under aerobic and anaerobic conditions. Pentose phosphate pathway and its significance, Gluconeogenesis **Part 3 (UG): Paper 6:** Class tests and question answer discussion
Week 5 to week 8	**UG2 (CBCS) Paper MCBACOR03P**: Biochemistry: Study of enzyme kinetics – calculation of Vmax , Km, Kcat values **Part 3 (UG): Paper 7:**Mock viva and practical practice	**UG2 (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 **PG 2: Paper 6: Metabolism & Bioenergetics:** Glycogenolysis and glycogen synthesis.TCA cycle, Entner-Doudoroff pathaway, phosphoketolase pathway. Microbial Metabolism: Elementary Microbial nutrition, mode of uptake of nutrient **Part 3 (UG): Paper 6:**Question answer discussion

Week 9 to Week 12	**UG2 (CBCS) Paper MCBACOR03P**: Biochemistry: Formol titration ofglycine	**UG2 (CBCS) Paper MCBACOR03T:** **Unit4**Proteins: Functions of proteins, Primary structures of proteins: Amino acids, the building blocks of proteins. General formula of amino acid and concept of zwitterion **PG 4: Paper 16**: **Medical Microbiology**: Human diseases**:** *Staphylococcus, Streptococcus,* Gastritis *(Helicobacter pylori) , clostridium,* Chlamydia
Week 13	Practical copy writing	**UG2 (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.
Week13 to week 14		**Internal Exam**
Week 15 to 17	Practical copy checking	**UG2 (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, **UG2 (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 **PG 2: Paper 6: Nucleotide Metabolism:** Biosynthesis of purine & pyrimidine (de novo & salvage pathways); degradation of purine & pyrimidine.
Week 18	Revision, Practise	Revision

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

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: **Session (2018-19)**

Class: B.Sc/M.Sc.

Semester 1 (UG), 2nd & 3rd Year (UG) & 1,3 (PG) **Name of the Teacher: Dr. Upal Das Ghosh**

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	**PG Sem III**: Paper 15: Bioinformatics: Basic concept, Sequence alignment	**UG 1 (CBCS):** Paper – MCBCOR02T: Staining **Part II (UG):** Paper – III: Molecular Biology: Replication. **Part III (UG)**: Paper :VI: Virology: General concept, Paper V: Genetics: Transformation

		PG Sem I: Paper 1: DNA structure, DNA denaturation **PG Sem III**: paper 12- Genetics: Transformation, Conjugation, Transduction
Week 5 to week 8	**PG Sem III**: Paper 15: Bioinformatics: Phylogenetic tree preperation	**UG 1 (CBCS):** Paper – MCBCOR02T: Physical factors affecting growth: pH, temperature, pressure, O2 & CO2 concentration etc. **Part II (UG):** Paper – III: Molecular Biology: Replication. **Part III (UG**): Paper :VI: Virology: Lambda, T4; Paper V: Genetics: Conjugation **PG Sem I:** Paper 1: DNA topology **PG Sem III**: paper 12- Genetics: Mutation
Week 9 to Week 12		**Part II (UG):** Paper – III: Molecular Biology: Transcription **Part III (UG**): Paper :VI: Virology: Oncogenic virus; Paper V: Genetics: Transduction **PG Sem I:** Paper 1: Gene mapping haploid system **PG Sem III**: paper 12- Genetics: DNA repair
Week 13		**Part II (UG):** Paper – III: Molecular Biology: Transcription **Part III (UG**): Paper - V: Genetics: Structure of prokaryotic genome **PG Sem I:** Paper 1: Gene mapping deploid system **PG Sem III**: paper 13: genomic & pDNA: Isolation & purification
Week13 to week 14		**Internal Exam**
Week 15 to 17		**UG 1 (CBCS):** Paper – MCBCOR02T: methods of growth measurement: turbidimetric, plate count, membrane filter etc. **Part II (UG):** Paper – III: Molecular Biology: Revision **Part III (UG**): Paper – V & VI: Genetics: Revision **PG Sem I:** Paper 1: Revision **PG Sem III**: paper 12- Genetics: Transposon
Week 18	Revision, Practice	Revision

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

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2018-19)

Class: B.Sc/M.Sc.
Semester 2 (UG) & 2,4 (PG), 2nd & 3rd Year (UG) Name of the Teacher: Dr. Upal Das Ghosh
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	**Part III (UG**):Paper VIII: RDT Plasmid Isolation, Transformation, Conjugation	**PG Sem II:** Paper 7**:** Proteomics **PG Sem IV**: Paper18:Virology: Viral vectors
Week 5 to week 8	**PG Sem II**: Paper 9: Molecular Biology Practical: Genomic DNA isolation, RFLP	**PG Sem II:** Paper 8**:** Replication **PG Sem IV**: Paper18:Virology: Viral vectors

Week 9 to Week 12	**PG Sem II**: Paper 9: Molecular Biology Practical: Cloning, RE Digestion	**PG Sem II:** Paper 8**:** Transcription **PG Sem IV**: Paper18:Virology: Cancer
Week 13	Mock Viva-voce from the practical	**PG Sem II:** Paper 8**:** RNA processing **PG Sem IV**: Paper18:Virology: Cancer
Week 13 to week 14		**Internal Exam**
Week 15 to 17		**PG Sem II:** Paper 8**:** Protein Synthesis **PG Sem IV**: Paper18:Virology: Revision
Week 18	Mock Viva-voce from the practical	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor Odd Semester, UG, PG course

Department of Microbiology

Session (2018-19)

Class: B.Sc/M.Sc.
Semester: 1(CBCS),Part II, Part III (UG),Sem I,III(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 Part II Paper IVB :Isolation of pure culture from natural sources PG Sem I Paper 5: Microbiology and Molecular Biology	UG Sem I(CBCS) Core Paper : MCBACOR02T, Bacteriological Techniques UG Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part III Paper VI : Group A: Virology and Medical Microbiology: Normal Microbial Flora, Mechanism of Bacterial Pathogenicity, Production of Toxins PG Sem I Paper 2 : Diversity of Prokaryotic and Eukaryotic Microbes: Bacteria with special features PG Sem III Paper 14 DSE 1: Bioethics: GM foods
Week 5 to week 8	UG Sem I(CBCS)Core Paper :MCBACOR01P, Introduction to Microbiology and microbial diversity: Fungal Cultivation, fungal staining UG Part II Paper IVB :Isolation of pure culture from natural sources PG Sem I Paper 5: Microbiology and Molecular Biology	UG Sem I (CBCS) Core Paper : MCBACOR02T, Bacteriological Techniques UG Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part II Paper VI : Group A: Virology and Medical Microbiology: Normal Microbial Flora, Mechanism of Bacterial Pathogenicity, Production of Toxins PG Sem I Paper 2 : Diversity of Prokaryotic and Eukaryotic Microbes: Bacteria with special features PG Sem III Paper 14 DSE 1: Bioethics: GM Foods

Week 9 to Week 12	UG Sem I(CBCS)Core Paper :MCBACOR02P, Bacteriology: Bacterial Staining UG Part II Paper IVB :Isolation of pure culture from natural sources PG Sem I Paper 5: Microbiology and Molecular Biology	UG Sem I (CBCS) Core Paper :MCBACOR02T, Important archeal and eubacterial groups: Firmicutes UG Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part III Paper VI : Group A: Virology and Medical Microbiology: Normal Microbial Flora, Mechanism of Bacterial Pathogenicity, Production of Toxins PG Sem I Paper2 :Diversity of Prokaryotic and Eukaryotic Microbes: Bacteria with special features PG Sem III Generic: GEC Paper: Microbes in sustainable development
Week 13	UG Sem I(CBCS)Core Paper: MCBACOR02P,Bacteriology: Pure Culture Techniques UG Part II Paper IVB :Isolation of pure culture from natural sources	UG Sem I (CBCS) Core Paper :MCBACOR02T, Important archeal and eubacterial groups: Actinobacteria UG Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part III Paper VI : Group A: Virology and Medical Microbiology: Normal Microbial Flora, Mechanism of Bacterial Pathogenicity, Production of Toxins PG Sem I : AECC Paper : Laboratory Safety Measures: Different Laboratory Hazards: Biological Hazards PG Sem III Generic GEC Paper: Microbes in sustainable development
Week13 to week 14		**Internal Exam**
Week 15 to 17	UG Sem I (CBCS)CorePaper: MCBACOR02P, Bacteriology:Pure Culture Techniques UG Part II Paper IVB :Microbiological examination of Milk	Core Paper :MCBACOR02T, Important archeal and eubacterial groups: Cyanobacteria UG Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part III Paper VI : Group A: Virology and Medical Microbiology: Protozoan Diseases PG Sem I: Paper 2: Diversity of Prokaryotic and Eukaryotic Microbes: Protozoa PG Sem III Generic GEC Paper: Microbes in sustainable development
Week 18	Revision, Practise	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Plan for even Semester, UG, PG course

Department of ……Microbiology…….

Session (2018-19)

Class:B.Sc./ M.Sc
Semester: Sem 2(CBCS),Part II, Part III,PG 2,4
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 Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part III Paper VI : Group A: Virology and Medical Microbiology: Normal Microbial Flora, Mechanism of Bacterial Pathogenicity, Production of Toxins PG Sem II Paper 10:Water Microbiology: Microbes in marine and fresh water environment – Eutrophication – food chain, water borne pathogens PG Sem IV:Paper 16: Medical Microbiology Pathogenicity of Microorganism: Host parasite relationship, Pathogenesis of viral diseases, bacterial pathogenesis. Toxigenicity, Host defence against microbial invasion, microbial mechanism for escaping host defences.
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 Part II Paper IV : Environmental and Food Microbiology: Soil Microbiology UG Part III Paper VI : Group A: Virology and Medical Microbiology: Normal Microbial Flora, Mechanism of Bacterial Pathogenicity, Production of Toxins PG Sem II Paper 10:Water Microbiology:Indicator organism – Microbiology of Domestic water – Microbial water Quality, Significance of microbes in water quality. Test for potability of water PG Sem IV: Paper 16: Medical Microbiology Pathogenicity of Microorganism: Host parasite relationship, Pathogenesis of viral diseases,

		bacterial pathogenesis. Toxigenicity, Host defence against microbial invasion, microbial mechanism for escaping host defences.
Week 9 to Week 12	UG Sem II(CBCS)Core Paper :MCBACOR04P, Environmental Microbiology: Soil Microbiology	UG Sem II (CBCS) Core Paper: MCBACOR04T, Microbial Interactions UG Part II Paper IV : Question answer discussion from previous year University Examinations UG Part III Paper VI: Question answer discussion from previous year University Examinations PG Sem II Paper 10: Waste Management: : Solid waste management:Solid waste types, composting, landfill development, incineration methods PG Sem IV: Paper 16: Medical Microbiology Pathogenicity of Microorganism: Host parasite relationship, Pathogenesis of viral diseases, bacterial pathogenesis. Toxigenicity, Host defence against microbial invasion, microbial mechanism for escaping host defences. .
Week 13	Practice	UG Sem II (CBCS)Core Paper: MCBACOR04T, Microbial Interactions UG Part II Paper IV :Question answer discussion from previous year University Examinations UG Part III Paper VI: Question answer discussion from previous year University Examinations PG Sem II Paper 10: Waste Management: Solid waste management:composting and sustainable agriculture,plastic degrading microorganisms as a tool for bioremediation, challenges in waste management, microbial fuel cell PG Sem IV: Paper 19DSE 2: Agricultural Microbiology: Biofertilizer
Week 13 to week 14		**Internal Exam**

Week 15 to 17	Practice	UG Sem II (CBCS) Core Paper: MCBACOR04T, Microbial Interactions UG Part II Paper IV :Question answer discussion from previous year University Examinations UG Part III Paper VI: Question answer discussion from previous year University Examinations PG Sem II Paper 10:Microorganism and Metal Pollutants:Microbial strategy to detoxify heavy metals. Change of state of heavy metals by microbial transformation PG Sem IV:Paper 16: Medical Microbiology Human diseases:Protozoa:Malaria, Leishmaniasis,Amoebiasis
Week 18	Revision, Practise	Revision

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

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: **Session (2018-19)**

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

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 I:** 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 Spectrosopy, 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:	**UG 1 (CBCS):** Paper – MCBCOR02T: Batch & continuous culture: Chemostat & turbidostat

	correlation, calculation of correlation co-efficient 5. Analysis of regression	**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 I:** Paper 2: Batch & continuous culture: chemostat **PG Sem III**: paper 13: genomic & pDNA: Isolation & purification
Week13 to week 14		**Internal Exam**
Week 15 to 17	**PG Sem III**: Paper 15: Biostatistics: 6. one-tail t-test 7. chi square test 8. concept of probability, degrees of freedom	**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 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

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

Teaching Plan for even Semester, UG/PG course

Department of Microbiology Session (2018-19)

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

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	**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

	an antibiotic.	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		**Internal 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

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor OddSemester, UGand PG courses

Department of Microbiology

Session (2018-19)

Class:B.Sc/M.Sc.
UG Semester 1, Part 2 and Part 3 (1+1+1 system) and PG 1and PG 3
Name of the Teacher: Dr. Sandip Misra
Subject: Microbiology
Paper : cc1, Paper 3, paper 6, paper 7 (UG) & Paper 1,3 (PG1), Paper 11 (PG3)
(Theory and Practical)

S. No	Practical syllabus to be covered (Paper code to be mentioned)	Theorysyllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	**UG1 (CBCS)Paper MCBACOR01P : study the principal of important laboratory instrument** **Part 2 (UG) – Preparation of culture medium, streak plate, spread plate, slant**	**Part 2 (UG), Paper III, Group B:** Enzymes **Part 3 (UG), Paper VI, Group B: Immunology** Type of immunity, antibody. **UG 1 (CBCS) Paper MCBACOR01T**: Unit -2 - Microscopy **PG1: Paper 1**: Biomolecules & Enzymology: Amino acids and proteins **Paper 3- cell cycle and its regulation** **PG 3: Paper 11**: Immunology: Antibody diversity
Week 5 to week 8	**Part 2 (UG) – Bacterial Staning**	**Part 2 (UG), Paper III, Group B:** Enzymes **Part 3 (UG), Paper VI, Group B: Immunology** ;antibody, antigen, generation of immune response **PG1: Paper 1**: Biomolecules & Enzymology: Amino acids and proteins **Paper 3-** cell cycle and its regulation **PG 3: Paper 11**: Immunology: Antibody diversity, B cell generation and activation
Week 9 to Week 12	**Part 3 (UG)- Agglutination, Ouchterlony**	**Part 2 (UG), Paper III, Group B:** Enzymes **Part 3 (UG), Paper VI, Group B: Immunology** Complement, hypersensitivity **PG1: Paper 1**: Biomolecules & Enzymology: Amino acids and proteins **Paper 3-** cell cycle and its regulation **PG 3: Paper 11**: Immunology: B cell generation and activation, T cell

		generation and acvtivation
Week 13		**PG 3: Paper 11**: Immunology: T cell generation and acvtivation
Week13 to Week 14		**Internal Exam**
Week 15 to 17	**Part 3 (UG)- Radial immunodiffusion,**	**Part 3 (UG), Paper VI, Group B: Immunology** Complement, hypersensitivity **PG1: Paper 1**: Biomolecules & Enzymology: Amino acids and proteins **Part 3 (UG), Paper VI, Group B: Immunology** Complement, hypersensitivity
Week 18	Revision	Revision

BIDHANNAGAR COLLEGE, GOVERNMENT OF WEST BENGAL, SALTLAKE, KOLKATA

Teaching Planfor even Semester, UG and PG courses

Department of Microbiology

Session (2018-2019)

Class:B.Sc/M.Sc.
UG Semester 2,Part 3 (UG), PG 2 and PG 4
Name of the Teacher: Dr. Sandip Misra
Subject: Microbiology
Paper : cc3, Part 3, PG Paper 6 and Paper 7
(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	**Part 3 (UG)- Immunoelectrophoresis**	**UG 2 (CBCS) Paper MCBACOR03T:** Unit 4- proteins structure **PG 2: Paper 6: Metabolism & Bioenergetics:** Catabolism of amino acid **Part 3 (UG): Paper VI:** Group A: Medical Microbiology- Mechanism of bacterial pathogenicity **Paper VI, Group B: Immunology** Complement, hypersensitivity
Week 5 to week 8	**UG 2 (CBCS) Paper MCBACOR04P isolation of bacteria from soil,,CFU counting**	**UG 2 (CBCS) Paper MCBACOR03T:** Unit 4- proteins structure**:** **PG 2: Paper 6: Metabolism & Bioenergetics:** Catabolism of amino acid **Part 3 (UG): Paper VI:** Group A: Medical Microbiology- Mechanism of bacterial pathogenicity
Week 9 to Week 12	**UG 2 (CBCS) Paper MCBACOR04P isolation of bacteria from rhizosphere,,CFU counting**	**PG 2: Paper 6: Metabolism & Bioenergetics:** Catabolism of fatty acid **Part 3 (UG): Paper VI:** Group A: Medical Microbiology- Mechanism of bacterial pathogenicity
Week 13		**PG 2: Paper 6: Metabolism & Bioenergetics:** Catabolism of fatty acid
Week13 to week 14		**Internal Exam**

Week 15 to 17	**UG 2 (CBCS) Paper MCBACOR04P isolation of bacteria from phylosphere**	**PG 2: Paper 7: Biophysical technique : Microscopy** PG4: Alcoholic Beverages
Week 18		**PG 2: Paper 7: Biophysical technique : Microscopy** PG4: Alcoholic Beverages

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

Teaching Plan for Odd Semester, UG & PG course

Department of Microbiology: **Session (2018-19)**

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

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: Instrumentation in Microbiology lab: compound microscope, Autoclave, laminar air flow, pH meter, incubator & hot air oven	**UG 1 (CBCS):** Paper – MCBCOR02T: Bacterial sterilization, **Part II (UG):** Paper – III: Cell membrane, **Part III (UG**): Paper –V: Mutation and Repair, RFLP, RAPD, **PG Sem I:** Paper 1: Lipid structure and metabolism **PG Sem III**: paper 13- RDT: Southern blotting,
Week 5 to	**UG 1 (CBCS):** Paper – MCBCOR02P: *Bacillus subtilis, Staphylococcus*	**UG 1 (CBCS):** Paper – MCBCOR02T: Radioactivity **Part II (UG):** Paper – III: Transcription, **Part III (UG**): Paper –V: RDT: Northern blotting **PG Sem I:** Paper 2: Physical factors affecting on microbial growth **PG Sem III**: Paper 13: Blue white screening
Week 9 to	**PG Sem III**: Paper 14: Lowry assay to identification of unknown protein	**UG 1 (CBCS):** Paper – MCBCOR01T: Protozoa general idea

	concentration	**Part II (UG):** Paper – III – Translation, **Part III (UG**): Paper –V: RDT: Expression vectors **PG Sem I:** Paper 1: Fluidity of cell membrane **PG Sem III**: paper 13: Western blotting
Week 13	**PG Sem III** : Identification of blood group.	**UG 1 (CBCS):** Paper – MCBCOR02T: Batch & continuous culture: Chemostat & turbidostat **Part II (UG):** Paper – III: Post Translational modification water: trickling filter, oxidation pond etc **Part III (UG**): Paper –V: RDT: Real time PCR **PG Sem I:** Paper 2: Batch & continuous culture: chemostat **PG Sem III**: paper 13: Protein purification
Week13 to week 14		**Internal Exam**
Week 15	**PG Sem III**: Paper 15: Ouchtorloney double diffusion test, Radial immune assay:	**UG 1 (CBCS):** Paper – MCBCOR01: Malaria **Part II (UG):** Paper – III: Splicing **Part III (UG**): Paper :V: RDT: Application of Biotechnology **PG Sem I:** Paper 2: Bacterial cell wall, cell membrane **PG Sem III**: paper 13: Microarray,
Week 18	Revision, Practice	Revision

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

Teaching Plan for even Semester, UG/PG course

Department of Microbiology **Session (2018-19)**

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

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 MCBCOR02P:Isolation of Pure culture, Media preparation, Gram staining	**UG 2 (CBCS):** Paper MCBCOR03T: Lipid, structural lipid, storage lipid, Phospholipid, Sphingolipid **Part II (UG):** Paper – IV: DNA Mutation and various type of repair **Part III (UG**): Paper :V: Principle of genetics **PG Sem II:** Paper 9**:** Transcription, **PG Sem IV**: Paper17: Medical microbiology, normal microbial flora
Week 5 to week 8	**PG Sem IV**: Paper 17:Antibiotic assay	**UG 2 (CBCS):** Paper MCBCOR03T: Cholesterol, Ergosterol, **Part II (UG):** Paper – IV: various mutagen, Mechanism of mutagen, **Part III (UG**): Paper V- Mono and dihybrid cross, allele, Applications of RDT: RFLP, RAPD, fingerprint **PG Sem II:** Paper 9**:** Post transcriptional modification **PG Sem IV**: Paper 17: *Vibrio cholerae*
Week 9 to		**UG 2 (CBCS):** Paper – MCBCOR03T: Lipid, Revision **Part II (UG):** Paper – IV: Mechanism of DNA repair **Part III (UG**): Paper - V: RDT: Isolation & purification of

		DNA, RNA, protein: Agarose Gel Electrophoresis & PAGE **PG Sem II:** Paper 9**:** Translation, Steps of translation **PG Sem IV**: Paper 17: *Mycobacterium tuberculosis*
Week 13	Mock Viva-voce from the practical	**UG 2 (CBCS):** Paper – MCBCOR03T: Revision **Part II (UG):** Paper – IV: SOS repair, **Part III (UG**): Paper - V: RDT: Western blotting **PG Sem II:** Paper 7**:** Chromatography: paper chromatography, TLC **PG Sem IV**: Paper17: *Salmonella sp*. *Clostridium botulinum*,
Week 13 to week 14		**Internal Exam**
Week 15 to 17		**UG 2 (CBCS):** Paper – MCBCOR03T: titration curve, isoelectic pH **Part II (UG):** Paper – IV: Lipid: Revision **Part III (UG**): Paper - V: RDT: Revision **PG Sem II:** Paper 7**:** Chromatography**:** Revision **PG Sem IV**: Paper17: Medical microbiology revision
Week 18	Mock Viva-voce from the practical	Revision

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2018 - 2019)

Class: B.Sc (Honours) & B.Sc (General) **Semester I,**
Name of the Teacher: BENUDHAR MANDAL **Subject: Botany**

Paper: Core Course I. Phycology and Microbiology , Course Code: BOTACOR01T & BOTACOR01P, .
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	Core Course I. Phycology and Microbiology , Course Code: BOTACOR01P. Microbiology Topic 1, Continuous assessment of Topic 1 Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01P) Topic 1,6,7, Topic, Continuous assessment	Core Course I. Microbiology , Course Code: BOTACOR01T Unit 1, Class Test Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) Unit 1,Unit 2,
Week 5 to Week 8	Core Course I. Phycology and Microbiology , Course Code: BOTACOR01P. Microbiology Topic 2,3, Continuous assessment of topic 2,3 Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01P) Topic 8,9, Continuous assessment of topic 8,	Core Course I. Microbiology , Course Code: BOTACOR01T Unit 2, 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	Core Course I. Phycology and Microbiology , Course Code: BOTACOR01P. Microbiology Topic 3,4 Continuous assessment Generic Electives Course (GE Biodiversity(Microbes Algae Fungi and Archegoniate) (BOTHGEC01P) Topic 14,Continuous assessment Topic 9	Core Course I. Microbiology , Course Code: BOTACOR01T Unit 3, Class Test , Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) Unit 4, Unit 5, Class test Unit 4 andUnit 5,
Week 13	Core Course I. Phycology and Microbiology , Course Code: BOTACOR01P. Microbiology Topic 2,3, Continuous assessment of topic 2,3 Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01P) Topic 8,9, Continuous assessment of topic 8,9	Core Course I. Microbiology , Course Code: BOTACOR01T Unit 2, 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 14	**Internal Examination**	
Week 15 to week 17	Core Course I. Phycology and Microbiology , Course Code: BOTACOR01P. Microbiology Topic 3,4 Continuous assessment Generic Electives Course (GE Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01P) Topic 14,Continuous assessment Topic 14	Core Course I. Microbiology , Course Code: BOTACOR01T Unit 3, Class Test Generic Electives Course (GE): Biodiversity(Microbes Algae, Fungi and Archegoniate) (BOTHGEC01T) Unit 7 , Class test Unit 7,
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for EVEN Semester, UG course, Department of BOTANY, Session (2018 - 2019)

Class: B.Sc (Honours) & B.Sc (General) **Semester II,**
Name of the Teacher: BENUDHAR MANDAL **Subject: Botany**

Paper: Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03T & BOTACOR03P.

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
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
Week 9 to Week 12	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
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
Week 14	**Internal Examination**	
Week 15 to week 17	Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03P.Topic 10 ,11Continuous assessment	Core Course I Mycology and Plant Pathology , Course Code: BOTACOR03T.Unit 39 Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
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Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2018- 2019)

Class: B. Sc (Honours) **Semester I**

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

Paper: Core Course I: Phycology and Microbiology. BOTACOR01T and BOTACOR01P,

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), Topic 1, Continuous assessment	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 4
Week 5 to Week 8	Core Course I: Phycology and Microbiology (BOTACOR01P), Topic 1, Continuous assessment	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 5
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
Week 13	Core Course I: Phycology and Microbiology (BOTACOR01P), Topic 2, Continuous assessment	Core Course I: Phycology and Microbiology (BOTACOR01T) unit 7
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
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, PG course, Department of BOTANY, Session (2018- 2019)

Class: M. Sc **Semester I**

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,

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	**Integrated Life Sciences (Departmental 1)** **BOTPCOR01T** Topic 1, Class Test **Diversity of Plant Life-Algae & Bryophytes (Departmental 2) BOTPCOR02T** Industrial Phycology, Class Test
Week 5 to Week 8	**Laboratory Course** **Diversity of Plant Life-Algae & Bryophytes** **BOTPCOR05P** Topic 1, Continuous Assessment	**Diversity of Plant Life-Algae & Bryophytes (Departmental 2) BOTPCOR02T** Algal Biotechnology, Class Test
Week 9 to Week 12	**Laboratory Course** **Diversity of Plant Life-Algae & Bryophytes** **BOTPCOR05P** Practical Mock Test	**Diversity of Plant Life-Algae & Bryophytes (Departmental 2) BOTPCOR02T** Mid Term Examination

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

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

Teaching Plan for Odd Semester, UG course, Department of Botany, Session(2018-2019)

Class: B.Sc. (Honours and General) **Semester I**
Name of the Teacher: DR. KAJARI LAHIRI. **Subject: Botany**

Paper: Core Course II (BOTACOR02T, BOTACOR02P)

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: BOTACOR02P - Biomolecules and Cell Biology** Topic 2, Continuous assessment	**Core Course II: BOTACOR02T(Biomolecules and Cell Biology)** Unit 1 (Biomolecules), Class Test
Week 5 to week 8	**Core Course II: BOTACOR02P (Biomolecules and Cell Biology)** Topic 3, Continuous assessment	**Core Course II: BOTACOR02T (Biomolecules and Cell Biology**) Unit 1(Biomolecules), Class Test
Week 9 to Week 12	**Core Course II: BOTACOR02P (Biomolecules and Cell Biology)** Topic 4, Continuous assessment	**Core Course II: BOTACOR02T (Biomolecules and Cell Biology)** Unit 1 (Biomolecules), Class Test
Week 13	**Core Course II : BOTACOR02P(Biomolecules and Cell Biology)** Practical Mock Test Topic4, 5 & Topic 6, Practical Mock Test	**Core Course II** : **BOTACOR02T (Biomolecules and Cell Biology)** Unit 1(Biomolecules), Class Test
Week14	**Internal Examination**	
Week 15 to 17	**Core Course II : BOTACOR02P (Biomolecules and Cell Biology)** Mock Test on Topics 2,3,4	**Core Course II : BOTACOR02T(Biomolecules and Cell Biology)** Mock Test on Unit 1(Biomolecules)
Week 18	**Revision, Practice for End Term Examination**	**Revision and solving of question paper for End term Examination of topic of each semester.**

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

Teaching Plan for Even Semester, UG course Department of Botany Session (2018- 2019)

Class: B.Sc. (Honours and General) **Semester II,**
Name of the Teacher: DR. KAJARI LAHIRI **Subject: Botany**

Paper: Core Course IV (BOTACOR04T, BOTACOR04P)

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
Week 5 to week 8	**Course Code: BOTACOR04P- Archegoniate-Bryophytes-** Topic 3, Continuous assessment	**Course Code: BOTACOR04T- Archegoniate- Bryophytes-** Unit 2, 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
Week 13	**Course Code: BOTACOR04P- Archegoniate- Bryophytes-** Topic 5, Continuous assessment	**Course Code: BOTACOR04T- Archegoniate- Bryophytes-**Unit 4, Class Test
Week 14	**Internal Examination**	
Week 15 to 17	**Course Code: BOTACOR04P- Archegoniate-(Bryophytes)** Mock Test on topics-1,2,3,4,5	**Course Code: BOTACOR04T- Archegoniate-** Mock Test n on Unit 1,2.3.4 Bryophytes
Week 18	**Revision, Practice for End term examination**	**Revision and solving of question paper for End term Examination of topic of each semester.**

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Semester, UG course, Department of BOTANY, Session (2018 - 2019)

Class: B.Sc (Honours) & B.Sc (General) **Semester II**
Name of the Teacher: Dr. Santanu Saha **Subject: Botany**

Paper: Core Course IV Archegoniate(BOTACOR04T, BOTACOR04P), 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 Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 1 Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 4, Class Test 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 Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 2 Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 4, Class Test 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 Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 3, Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 5 Class Test 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 Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Field visit Practical mock test	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 5, Class 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 Generic Electives Course (GE): Plant Ecology and Taxonomy (BOTHGEC02P) Topic 4, Topic 5 Continuous assessment	Core Course IV: Archegoniate Course Code: BOTACOR04T) Topic: Unit 6, Class Test 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

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, UG course, Department of BOTANY, Session (2018 - 2019)

Class: B.Sc (Honours) & B.Sc (General) **Semester I**
Name of the Teacher: Dr. Kausik Majumder **Subject: Botany**

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

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
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
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
Week 13	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 7, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 2, Class Test
Week 14	**Internal Examination**	
Week 15 to week 17	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Practical Mock Test	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 4, 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 (2018 - 2019)

Class: B.Sc (Honours) & B.Sc (General) **Semester II, IV & VI**
Name of the Teacher: Dr. Kausik Majumder **Subject: Botany**

Paper: Nil

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Teaching Plan for ODD Semester, UG course, Department of BOTANY, Session (2018 - 2019)
Class: B.Sc (Honours) & B.Sc (General) **Semester I**
Name of the Teacher: MOUSUMI MUKHOPADHYAY **Subject: Botany**

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	. Practical Course Code: BOTHGEC01P: Topic 8, Topic 9, Continuous assessment	Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: Unit 3: Fungi, Class Test
Week 5 to Week 8	Practical Course Code: BOTHGEC01P: Topic 10, Topic 11, Topic 12, Continuous assessment	Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: Unit 6: Pteridophytes, Class Test
Week 9 to Week 12	Practical Course Code: BOTHGEC01P: Topic 13, Topic 14, Practical Mock Test	Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: U nit 7: Gymnosperms, Mid-Term Examination
Week 13	Practical Course Code: BOTHGEC01P: Mock Test unit10,11	Biodiversity (Microbes, Algae, Fungi and Archegoniate) Course Code: BOTHGEC01T: Revision unit 6
Week 14	**Internal Examination**	
Week 15 to week 17	Practical Course Code: BOTHGEC01P : Mock Test unit 13 and 14	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

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for EVEN Semester, UG course, Department of BOTANY, Session (2018 - 2019)

Class: B.Sc (Honours) & B.Sc (General) **Semester II**
Name of the Teacher: MOUSUMI MUKHOPADHYAY **Subject: Botany**
Paper: Core Course III: Mycology and Phytopathology
Course Code: BOTACOR03T/ Core Course: IV Practical
Course Code: BOTACOR03P
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 I. Mycology and Plant Pathology, Course Code: BOTACOR03P. Topic 1, Topic 2 & 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 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 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 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 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 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 , Course Code: BOTACOR03P.Topic 3and 4, Continuous assessment Practical Course Code: BOTHGEC02P Practical Mock Test Unit 7	Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03T. Revision, Tutorials, End Term Examination Plant Ecology and Taxonomy Course Code: BOTHGEC02T Remedial classes for Unit 8, question-answer analysis unit 6&7
Week 14	**Internal Examination**	
Week 15 to week 17	Core Course I. Mycology and Plant Pathology , Course Code: BOTACOR03P.Topic 5 and 6 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 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 Examination

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Odd Semester, UG course (CBCS), Department of BOTANY, Session (2018 - 2019)

Class: B.Sc. (Hons) **Semester I**
Name of the Teacher: Dr. Subhadipa Sengupta **Subject: Botany**

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

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 5, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 6, Class Test
Week 5 to Week 8	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 5, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 6, Class Test
Week 9 to Week 12	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 6, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 7, Class Test
Week 13	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Topic 8, Continuous assessment	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 7, Class Test
Week 14	**Internal Examination**	
Week 15 to week 17	Core Course II: Bio-molecules and Cell Biology (BOTACOR02P) Practical Mock Test	Core Course II: Bio-molecules and Cell Biology (BOTACOR02T) Unit 6 and unit 7 revision, Class Test
Week18	Revision of Experiments, End Term Examination	Revision, Question-Answer Analyses, End Term Examination

BIDHANNAGAR COLLEGE
GOVERNMENT OF WESTBENGAL
SALTLAKE, KOLKATA

Teaching Plan for Even Semester, UG course (CBCS), Department of BOTANY, Session (2018 - 2019)

Class: B.Sc. (Hons) **Semester II**
Name of the Teacher: Dr. Subhadipa Sengupta **Subject: Botany**

No assignment in Sem II

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		
Week 5 to Week 8		
Week 9 to Week 12		
Week 13		
Week 14	Internal Examination	
Week 15 to week 17		
Week18		

BIDHANNAGARCOLLEGE, GOVERNMENT OF WEST BENGAL, SALT LAKE, KOLKATA

Teaching Plan for Odd Semester, UGcourse

Department of Economics

Session (2018-19)

Class:B.A/ B.Sc
Semester 1, Part II, Part IIIName of the Teacher: Amit Kumar RoyChoudhury
Subject:Economics
Paper :CC1, Paper III, Paper VII (Theory)

S. No	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course 1 : ECOACOR01T Introductory Microeconomics 1. Exploring the subject matter of Economics **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II 1. Monopoly and Monopolistic Competition: a) Monopoly: Sources of monopoly power, Index of monopoly power, Equilibrium with single plant, multiple plants, Price discrimination, Constrained revenue maximisation, Natural monopoly
Week 5 to week 8	Core Course 1 : ECOACOR01T Introductory Microeconomics 2. Supply and Demand: How Markets work, Markets and Welfare **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II 1. Monopoly and Monopolistic Competition: a) Monopoly: Effects of different types of location, Dead-weight loss of monopoly. b) Monopolistic Competition: Features, Short-run & Long-run equilibrium, Excess Capacity. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II
Week 9 to Week 12	Core Course 1 : ECOACOR01T Introductory Microeconomics 3. Supply and Demand: How Markets work, Markets and Welfare **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II 2. Oligopoly**:** Conjectural Variation & Reaction functions, Analysis of Cournot & Stackelberg Collusive Oligopoly & Prisoners' dilemma in cartel stability, Nash equilibrium of game. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II 3. Input – output analysis

	A two sector Leontief static open model, Assumptions, Output solutions
Week 13	Core Course 1 : ECOACOR01T Introductory Microeconomics 1. The Households **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II 5. Choice under Uncertainty: only basic concepts Describing Risk, Preferences towards risk **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II 3. Input – output analysis Hawkins –Simon conditions and its economic interpretations, Linear programming interpretation
Week 15 to 17	Core Course 1 : ECOACOR01T Introductory Microeconomics 4. Production and Cost 5. Market Structure **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II 5. Choice under Uncertainty: only basic concepts Reducing risk, the demand for Risky assets-the trade-off between Risk & Return. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II 3. Input – output analysis Consumption possibility Locus, Price system in LSOM.
Week 18	Revision

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

Teaching Plan for odd Semester, UG course

Department of Economics

Session (2018-19)

Class:B.A/ B.Sc
Semester 1, Part I, Part IIIName of the Teacher: Sudip Kumar Ghosh
Subject: Economics

Paper : Paper IV, Paper VI, Paper VIII(Theory)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT 1. Trade and Development:- (a) Trade as an engine of growth – The historical perspective, Static and dynamic gains from trade, Trade as a rent for surplus, Some criticisms of Traditional Free Trade Theory in the context of the experience of developing nations **PAPER-VI:** INDIAN ECONOMIC PROBLEMS & PLANNING 1. Structure of Indian Economy: Changes in the pattern of inter sectoral distribution of national income, changes in the pattern of occupational structure. 2. Agriculture: Farm size and productivity- controversial Indian experience, Marketable Surplus and Marketed Surplus of food grains, prices and acerage elasticity of Marketed Surplus (B). Different aspects of New Agricultural Strategy(Green Revolution)-output, employment and distribution of income & wealth(C).Land Reforms. Food security and government intervention in food grains.Problems of Institutional Credit in Indian agriculture. Impact of globalization inIndian agriculture.(D) **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (i) INDIAN ECONOMIC HISTORY Impact of British rules with special reference to (i) De-industrialization (ii) Commercialization of agriculture. GROUP-B: PROJECT WORK
Week 5 to week 8	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT 1. Trade and Development:- (c) Terms of Trade and Economics Development – various terms of trade (net barter and income terms of trade) – Prebisch-Singer thesis and terms of trade debate (d) Alternative Industrialisation Strategy for developing nations – Import Substitution and Export promotion (e) Multinational Corporations and Foreign Direct Investment – FOI and FPI; Two main forms of FDI (Greenfield investment & merger or acquisition); MNCs – main features, implications for the host nations; Foreign aid (concept only) **PAPER-VI:** INDIAN ECONOMIC PROBLEMS & PLANNING 3. Growth and Stagnation in Indian Industries.(E). State initiative in industrialization. Evaluation of Industrial policies including Licensing Policies, Role, Performances and Weaknesses of Public Sector Industries. New Industrial policy in the post- globalization era. Disinvestment Policy.(F) 4. Unemployment and Poverty: Nature and types of unemployment in India. Problems related to the measurement of Unemployment in India (G). Problems related to female and child labour in India (H). Poverty in India-Different estimates of poverty (I). Evaluation of different policies and programmes aiming

	at eradication of poverty.(J) **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (i) INDIAN ECONOMIC HISTORY Impact of British rules with special reference to (ii)Commercialization of agriculture (continued) (iii) Economic drain. GROUP-B: PROJECT WORK
Week 9 to Week 12	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT (2) Development and Underdevelopment as a historical process (a) Dependency theory of Baran and Frank (b) The concept of unequal exchange (3) Planning for Development:- Rationale for planning, The instances of market failure and the role of state; Govt. failure and Resurgent preference for markets over planning **PAPER-VI:** INDIAN ECONOMIC PROBLEMS & PLANNING 5. Money and Capital Market: Reserve Bank of India and Indian Money market. 1Monetary policies in recent years. Relation between Money Market and Capital Market in India. Nationalization of commercial Banks and problems associated with Nationalized Banking Sector. Reforms in Monetary Sector and Capital Market in India.(K) 6. Indian Public Finance: Trends problems and Reforms. Central-State allocation of Financial Resources- Controversies, Recommendation of different committees in resolving this controversy (L). **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (i) INDIAN ECONOMIC HISTORY Aspect of British Imperial policy: i) Land policy GROUP-B: PROJECT WORK
Week 13	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT (3) Planning for Development:- Decentralisation (concept only) **PAPER-VI:** INDIAN ECONOMIC PROBLEMS & PLANNING 7. External Sector- Composition, Direction, and Trend in Foreign Trade. Problems related to the Balance of Payments. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (i) INDIAN ECONOMIC HISTORY: Aspect of British Imperial policy: ii) Railways & irrigation GROUP-B: PROJECT WORK
Week 15 to 17	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT

	(4) Evolution of the International Economy:- The origin, objectives and functions of IMF and World Bank; The Third World Debt crisis and the structural adjustment policies adopted by IMF; The new International Economic Order **PAPER-VI:** INDIAN ECONOMIC PROBLEMS & PLANNING 7. External Sector- EXIM Policies and other recent measures (such as convertibility of rupee) to improve BOP (M). 8. Rationale of Planning and Mixed Economy. Five Year Plans- Objective, achievement and failure. Financing of Five Year Plans (N): Special focus on 2nd, 7th and 9th plans. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (i) INDIAN ECONOMIC HISTORY: Aspect of British Imperial policy: iii) Policy of discriminating protection GROUP-B: PROJECT WORK
Week 18	Revision

Week 18	Revision

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

Teaching Plan for Odd Semester, UG course

Department of Economics

Session (2018-19)

Class:B.A/ B.Sc
Semester 1, Part II, Part IIIName of the Teacher: Dola Chattopadhyay
Subject: Economics
Paper : Paper IV, Paper VII (Theory); Paper VIII (Practical)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-A: DEVELOPMENT ECONOMICS: 1. Meaning of Development: Issues of Economic development – Traditional approach (Economic & non-economic – Per capita income, Physical quality life index, Basic needs approach, Sustenance, Self esteem, Freedom from servitude) Capability approach, Human development index, Gender related development index. 2. Stages of Growth: Rostow and Marx in comparison with Rostow

	PAPER-VII: QUANTITATIVE TECHNIQUES FOR ECONOMICS-II **Group A: STATISTICS - II** 1. PROBABILITY THEORY AND DISRIBUTION: (i) Elements of Probability Theory: Sample space & events, Meaning of probability, Classical definition, Addition rule, Multiplication rule, Theorems of total probability – Mutually and non-mutually exclusive events, Conditional and statistical independence, Limitations of the classical definition, An axiomatic approach, Bayes' formula, Random variables, Probability mass and density functions, Marginal and conditional distributions, Expectations and variances of random variables (for random sampling with or without replacements) **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 5 to week 8	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-A: DEVELOPMENT ECONOMICS: 3. Sources of Economic Growth (i) Labour: Demographic issues, Theory of demographic transition, Trap models and their criticism (Nelson's and Leibenstein's models may be discussed in brief.) (ii) Capital: Capital accumulation, Capital-output ratio, Technological progress - Concepts of Hicks, Harrod, Solow, Neutral Technological progress (no graphical/Mathematical exposition is required) **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II **Group A: STATISTICS - II** 1. PROBABILITY THEORY AND DISRIBUTION: (ii) Some Univariate Probability Distributions: Binomial distribution, Poisson istribution, Normal distribution, Standard Normal distribution – mean, variance, moment generating function (MFG), Skewness and kurtosis, Limiting forms of Binomial and Poisson distribution, Importance of normal distribution in statistics. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 9 to Week 12	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-A: DEVELOPMENT ECONOMICS: 4. Problems Of Labour Surplus Economy: Lewis model and its criticism, Nurkse's idea of disguised saving potential, Concept of labour surplus (disguised unemployment), Sen's Model Labour migration and Harris-Todaro model. 5. Development Strategy: Balanced vs. unbalanced growth, Choice of technique in labour surplus economy **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II **Group A: STATISTICS - II** 2. ELEMENTARY SAMPLING THEORY: Populations and sample, Parameter and statistic, Random sampling, Practical methods of drawing random samples,

	Random sampling measures, Sampling distribution of expectation and standard error. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 13	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-A: DEVELOPMENT ECONOMICS: 6. Poverty Inequality and Standard Of Living: Measurement and issues, Lorenz curve, Gini Coefficient, Headcount index, Poverty gap **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II **Group A: STATISTICS - II** 3. CLASSICAL STATISTICAL INFERENCE: Basic concepts of Estimation, esirable properties of estimators, Unbiasedness, Minimum variance **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 15 to 17	**PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-A: DEVELOPMENT ECONOMICS: 6. Poverty Inequality and Standard Of Living: Inequality and development, Sen's Index. 7. The Environment and Development: Sustainable development, common property resources (tragedy of the commons), Kuznet's curve **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II **Group A: STATISTICS - II** 3. CLASSICAL STATISTICAL INFERENCE: Simplemethods of point estimation, Confidence interval, Testing of hypothesis, P-value,Type 1 and Type 2 errors, Simple application of tests for mean and variance of aUnivariate normal population **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK

Teaching Plan for Odd Semester, UG course

Department of Economics

Session (2018-19)

Class:B.A/ B.Sc
Semester 1, Part II, Part IIIName of the Teacher: Tina Barma
Subject: Economics
Paper : CC2, Paper III, Paper IV, Paper V, Paper VII (Theory); Paper VIII (Practical)

S. No	Theory topics to be covered (Paper code to be mentioned)
Week 1 to week 4	Core Course-2 **ECOACOR02T Mathematical Methods for Economics-I** 1. Concept, Set Theory, Functions and Relations **2.** Brief Review of Differential and Integral Calculus **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II: 3**.** Factor Pricing: Derived demand for a single input and multiple input in competitive and imperfectly competitive markets, **PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT 1. Trade and Development:- (a) Trade as an engine of growth – The historical perspective, Static and dynamic gains from trade, Trade as a rent for surplus, Some criticisms of Traditional Free Trade Theory in the context of the experience of developing nations (b) Arguments for protection – The Infant industry argument for tariff protection **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-B: PUBLIC FINANCE 1. Economic Role of the State: Public goods and market failure, Distinction between private goods and public goods, Samuelson's solution for the optimal provision of public goods, Lindahl's Equilibrium for optimal tax sharing, Free rider problem, Justification of Government expenditure in defense, education, health, infrastructure. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II: 1. Static equilibrium analysis and comparative statics: Meaning of partial and general equilibrium, Comparative static analysis using Cramer's rule. Applications: Simple Keynesian and IS-LM models, Rybczynski theorem and Stolper– Samuelson theorem (Liner Model) **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 5 to week 8	Core Course-2 **ECOACOR02T Mathematical Methods for Economics-I** 1. Brief Review of Differential and Integral Calculus and their application **PAPER-III:** ECONOMIC THEORY-II

	GROUP-A: MICROECONOMICS –II: 3. Factor Pricing: Firm demand & industry demand, Adding up problem, Collective bargaining & exploitation, Rent & Quasi-rent. **PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT 1. Trade and Development:- (c) Terms of Trade and Economics Development – various terms of trade (net barter and income terms of trade) – Prebisch-Singer thesis and terms of trade debate (d) Alternative Industrialisation Strategy for developing nations – Import Substitution and Export promotion (e) Multinational Corporations and Foreign Direct Investment – FOI and FPI; Two main forms of FDI (Greenfield investment & merger or acquisition); MNCs – main features, implications for the host nations; Foreign aid (concept only) **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-B: PUBLIC FINANCE 2. Principles of Taxation: Ability to pay and benefit approaches, Horizontal and vertical equity. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II: 2. Integration and dynamic analysis: a. Techniques of integration (definite and indefinite integral) Applications: from marginal function to total function, consumer's surplus, producer's surplus, investment and capital formation, present value b. First order and second order differential equations: Applications: Time path of price and quantity in competitive markets, time path of income in simple Keynesian model, Stability analysis, Time path of inflation and unemployment rates, Solow growth model. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 9 to Week 12	Core Course-2 **ECOACOR02T Mathematical Methods for Economics-I** 5. Single variable optimisation **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II: 4. Welfare Economics: Conditions of Pareto optimality in pure exchange and in production, Optimality of perfect competition, **PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT (2) Development and Underdevelopment as a historical process (a) Dependency theory of Baran and Frank (b) The concept of unequal exchange (3) Planning for Development:-

	Rationale for planning, The instances of market failure and the role of state; Govt. failure and Resurgent preference for markets over planning **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-B: PUBLIC FINANCE 3. Direct and indirect Taxation: Effect of Income tax on work effort, Saving and risk bearing, Incidence of sales and excise tax – excess burden of indirect taxation, value added tax. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II: 2. Integration and dynamic analysis: c. First order and second order difference equations: Applications: Cobweb model, market model with inventory, Samuelson's multiplier – accelerator interaction model, inflation and unemployment in discrete case. 3. Input – output analysis: A two sector Leontief static open model, Assumptions, Output solutions, Hawkins –Simon conditions and its economic interpretations, Linear rogramming interpretation, Consumption possibility Locus, Price system in LSOM. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 13	Core Course-2 **ECOACOR02T** Mathematical Methods for Economics-I 4. Other topics: Series, Trigonometric functions and associated curves **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II: 4. Welfare Economics: Externalities & market failure. **PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT (3) Planning for Development:- Decentralisation (concept only) **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-B: PUBLIC FINANCE 4. Public debt: Internal and external burden **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II: 4. Linear Programming (LP): The LP problem, Duality and economic interpretation. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK

Week 15 to 17	Core Course-2 **ECOACOR02T** Mathematical Methods for Economics-I 6. Multi-variable optimization and its application **PAPER-III:** ECONOMIC THEORY-II GROUP-A: MICROECONOMICS –II: 4. Welfare Economics: Externalities & market failure (continued). **PAPER-IV:** DEVELOPMENT ECONOMICS & ISSUES ON ECONOMIC DEVELOPMENT GROUP-B: ISSUES ON ECONOMIC DEVELOPMENT (4) Evolution of the International Economy:- The origin, objectives and functions of IMF and World Bank; The Third World Debt crisis and the structural adjustment policies adopted by IMF; The new International Economic Order **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-B: PUBLIC FINANCE 4. Public debt- Different concepts of deficit in Government's budget – Burden of internal public debt, Burden of public debt on future generation, External public debt, comparison of internal and external public debt. **PAPER-VII:** QUANTITATIVE TECHNIQUES FOR ECONOMICS-II GROUP-B: MATHEMATICAL ECONOMICS- II: 4. Linear Programming (LP): Simplex method, complementary slackness relationship of primal and dual. Application: Diet problem, Transportation problem 5. Game Theory – Structure of Game, Pay off matrix, Two person zero sum game, saddle point, Pure strategy, Mixed strategy. **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK

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

Teaching Plan for Odd Semester, UG course

Department of Economics

Session (2018-19)

Class:B.A/ B.Sc
Semester 1, Part II, Part III Name of the Teacher: Moumita Basu
Subject:Economics
Paper : Paper V, Paper VIII(Theory), Paper VIII(Aii, B)

S. No	Theory syllabus to be covered (Paper code to be mentioned)
Week 1 to week 4	**PAPER-III:** ECONOMIC THEORY-II GROUP-B: MACROECONOMICS –II: 1.Microfoundation of Macrobehaviour:

	(i) Consumption function: Keynes and the consumption function, Secular stagnation & the consumption puzzle, Inter-temporal choice, Permanent income hypothesis and lifecycle hypothesis. **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-A: INTERNATIONAL ECONOMICS: Group – I: Pure Theory of International Trade**:** 1. The Theory of comparative Advantage and gains from Trade**:-** 2. Comparative Advantage in the Heckscher-Ohlin Trade model: **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 5 to week 8	**PAPER-III:** ECONOMIC THEORY-II GROUP-B: MACROECONOMICS –II: 1.Microfoundation of Macrobehaviour: (ii) Investment function: Fixed investment; The neoclassical approach, Tobin's q, Residential investment, Accelerator model of investment. (iii) Demand for Money: Transaction demand for money, Precautionary demand for money, Speculative demand for money, The Regressive Expectations Model, The portfolio balance approach, The Baumol-Tobin models of Cash Management, Money as a consumer's and producer's good. **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-A: INTERNATIONAL ECONOMICS: Group – I: Pure Theory of International Trade**:** 3. Commodity and Factor prices under trade – Factor price Equalisation: **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 9 to Week 12	**PAPER-III:** ECONOMIC THEORY-II GROUP-B: MACROECONOMICS –II: 1.Microfoundation of Macrobehaviour: 1(iv) The supply of money: Definitions of Money supply (M1, M2, M3, M4), Credit creation by commercial banks, Money multiplier, Instruments of monetary policy. 2. Inflation:- Definition and functions of money, Quantity theory of money, Money, prices and inflation, Inflation and interest rates; The fisher effect, Future money and current prices, The social costs of inflation. **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-A: INTERNATIONAL ECONOMICS: Group – II Trade Policy 4. Instruments of Restrictive trade 5. Tariff under optimal market conditions Group – III - The Balance of Payments and International Economic Policy 6. The Balance of payment: (BOP) **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (ii) COMPUTER APPLICATION

	GROUP-B: PROJECT WORK
Week 13	**PAPER-III:** ECONOMIC THEORY-II GROUP-B: MACROECONOMICS –II: 1.Microfoundation of Macrobehaviour: 3. Aggregate supply and Phillips curve; Inflation, unemployment and Phillips curve, **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-A: INTERNATIONAL ECONOMICS: Group – III - The Balance of Payments and International Economic Policy 6. The Balance of payment: (BOP)(continued) **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 15 to 17	**PAPER-III:** ECONOMIC THEORY-II GROUP-B: MACROECONOMICS –II: 1.Microfoundation of Macrobehaviour: 3. Aggregate supply and Phillips curve; Shift of Phillips curve, Causes of inflation, Disinflation and sacrifice ratio,Rational expectation and painless disinflation. 4. Recent Developments in Macroeconomics: Rational expectations, Real business cycle, New Keynesian Economics **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-A: INTERNATIONAL ECONOMICS: Group – I: Pure Theory of International Trade**:** 7. The determination of national income in an open economy - Foreign trade multiplier (with and without repercussion effect) 8. Theory of Exchange Rate, Devaluation and Trade Balance **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK
Week 18	Revision

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

Teaching Plan for Odd Semester, UG course

Department of Economics

Session (2018-19)

Class:B.A/ B.Sc
Semester 1, Part II, Part III Name of the Teacher: Tapas Kumar Pal
Subject:Economics
Paper : Paper V, Paper VIII(Theory), Paper VIII(Aii, B)

S. No	Theory syllabus to be covered (Paper code to be mentioned)
Week 15 to 17	**PAPER-III:** ECONOMIC THEORY-II GROUP-B: MACROECONOMICS –II: 1.Microfoundation of Macrobehaviour: 3. Aggregate supply and Phillips curve; Shift of Phillips curve, Causes of inflation, Disinflation and sacrifice ratio,Rational expectation and painless disinflation. 4. Recent Developments in Macroeconomics: Rational expectations, Real business cycle, New Keynesian Economics **PAPER-V:** INTERNATIONAL ECONOMICS & PUBLIC FINANCE GROUP-A: INTERNATIONAL ECONOMICS: Group – I: Pure Theory of International Trade**:** 7. The determination of national income in an open economy - Foreign trade multiplier (with and without repercussion effect) 8. Theory of Exchange Rate, Devaluation and Trade Balance **PAPER-VIII:** INDIAN ECONOMIC HISTORY, COMPUTER APPLICATION & PROJECT WORK: GROUP-A: (ii) COMPUTER APPLICATION GROUP-B: PROJECT WORK

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০১৮-১৯ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
			UNIT 2 অনুবাদ সাহিত্যের ধারা অংশবিশেষ
সপ্তাহ ১৫-১৭			
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি –জুন)

২০১৮-১৯ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারাফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
			UNIT 3বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
সপ্তাহ ৫ – ৮	২	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	২	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারা ফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা প্রবন্ধ সাহিত্যের ধারা ফোর্ট উইলিয়াম কলেজ থেকে প্রমথ চৌধুরী পর্যন্ত
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০১৯-২০ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	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 : বিষয় চলচ্চিত্র – সত্যজিৎ রায়
সপ্তাহ ৫ – ৮	১	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
	১ ৩	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
সপ্তাহ ৯ – ১২	১	CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
	৩	SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	৩	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
		SEC 1	UNIT 1 : বিষয় চলচ্চিত্র – সত্যজিৎ রায়
	৩ ৫	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

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

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	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)
	৪	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)
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		SEC 2	UNIT 2 : কম্পুটারে বাংলা লিখন
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)
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস – নির্বাচিত অংশ UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
		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**		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২০-২১ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	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
	৫	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	১	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
	৫	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	১	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 : বিষয় চলচ্চিত্র – সত্যজিৎ রায়
	৫	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			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
	৩	CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	৫	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**		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২১ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	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)
	৪	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)
	৪	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 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)
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
	৬	DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায় UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)

সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন				
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস – নির্বাচিত অংশ UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)	
		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**			

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২১-২২ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	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

	৫	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	১	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
	৫	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	১	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
	৫	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			
সপ্তাহ ১৫-১৭	১	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
		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	৫	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	

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২২ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	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)
	৪	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)
	৪	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 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)
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
	৬	DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায় UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস – নির্বাচিত অংশ UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
		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**		

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	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 : চলচ্চিত্রের অ আ ক খ – ধীমান দাশগুপ্ত
	৫	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	১	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
	৫	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	১	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
	৫	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			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অষ্টম – পঞ্চদশ শতক – নির্বাচিত অংশ)
		CC 5	UNIT 3 : বাংলা ছন্দ পরিচয়
	৩	CC 5	UNIT 4 : ছন্দলিপি প্রণয়ন
		SEC 1	UNIT 1 : সিনেমারঅআকখ – ধীমানদাশগুপ্ত
		DSE 3	UNIT 1: কবিতার কথা – জীবনানন্দ দাশ
	৫	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**		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. উদয় শঙ্কর বর্মা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	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)
	৪	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)
	৪	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 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)
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
	৬	DSE 6	UNIT 1: রবীন্দ্র জীবনকথা – প্রভাতকুমার মুখোপাধ্যায় UNIT 3 : রবীন্দ্রনাথের কর্ম পরিকল্পনা
		DSE 4	UNIT 1: সন্মার্গ সপর্যা – শম্ভু মিত্র (নির্বাচিত)
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস – নির্বাচিত অংশ UNIT 3 : কাব্য কবিতার ইতিহাস (উদ্ভব ও বিকাশ)
		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**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : দ্বিতীয় বর্ষ, তৃতীয় বর্ষ

বিজোড় সেমেস্টার (জুলাই – জুন)

২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

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

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা নাট্য সাহিত্যের ধারা
			UNIT 3 বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

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

			UNIT 2 শাক্ত পদাবলি
	৩	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	৩	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্তপদাবলি
সপ্তাহ ৯ – ১২	৩	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
	৩	CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	১		
		CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	৩	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	৩ **পাঠ**-পুনর্বিবেচনা ও **অনুশীলন**		
সপ্তাহ ১৮			

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা UNIT 3 : বাংলাকাব্যকবিতারউদ্ভবওবিকাশঅংশবিশেষ
	৪	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
	৪	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
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধকাব্য
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
		CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধকাব্য
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২০২১ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	৩	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
	৫	CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
			UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
			UNIT 2 শাক্ত পদাবলি
	৩	CC 6	UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	৫		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ৯ – ১২	১	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
	৫		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস

			(অনুবাদ সাহিত্যের অংশবিশেষ)
সপ্তাহ ১৫-১৭	৩	CC 6	UNIT 2 শাক্তপদাবলি UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	৫		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২০২১ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা UNIT 3 : বাংলাকাব্যকবিতারউদ্ভবওবিকাশঅংশবিশেষ
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10 CC 13	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ 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
	৪	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
	৪	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
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
		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
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বাংলাবিভাগ

পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জানুয়ারি – জুন)

২০২১-২০২২ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

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

সপ্তাহ ৯ – ১২	১	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
	৫		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 1 : বাংলা সাহিত্যের ইতিহাস (অনুবাদ সাহিত্যের অংশবিশেষ)
	৩	CC 6	UNIT 2 শাক্তপদাবলি UNIT 3 রাজা-রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1: সাম্য –রবীন্দ্রনাথ ঠাকুর
	৫		UNIT 3 : প্রবন্ধ সংগ্রহ–প্রমথ চৌধুরী
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২০২২ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক জয়ন্ত মিস্ত্রি

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা UNIT 3 : বাংলাকাব্যকবিতারউদ্ভবওবিকাশঅংশবিশেষ
	৪	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	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা UNIT 3 : বাংলা কাব্য কবিতার উদ্ভব ও বিকাশ অংশবিশেষ
	৪	CC 8	UNIT 4 : একালের কবিতা সঞ্চয়ন - নির্বাচিত অংশ
			UNIT 1 : মেঘনাদবধ কাব্য
	৬	CC 9	UNIT 4: রাশিয়ার চিঠি- রবীন্দ্রনাথ ঠাকুর
		CC 10 CC 13	UNIT 2: প্রবন্ধ সাহিত্যের প্রকারভেদ 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
	৪	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
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
	২	CC 4	UNIT 1 : বাংলা নাট্যসাহিত্যের ধারা 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**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : দ্বিতীয় বর্ষ, তৃতীয় বর্ষ

বিজোড় সেমেস্টার (জুলাই – জুন)

২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 2 : বাংলামঙ্গলকাব্যেরধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 2 : বাংলামঙ্গলকাব্যেরধারা
		CC 2	UNIT 3চণ্ডীমঙ্গল
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
	১	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

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 3	UNIT 4 : বাংলা শব্দ ভাণ্ডার

		CC 4	UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
সপ্তাহ ৫ – ৮	২	CC 3	UNIT 4 : বাংলা শব্দ ভাণ্ডার
		CC 3	UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 3	UNIT 4 : বাংলা শব্দ ভাণ্ডার
		CC 4	UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক

		CC 7	UNIT 1 : সাম্য
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
		CC 7	UNIT 1 : সাম্য
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3 চণ্ডীমঙ্গল
			UNIT 1অলঙ্কার সঙ্গার্থ
	৩		
			UNIT 2অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলাকথাসাহিত্যেরউদ্ভবওবিকাশ
	৪	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
		CC 9	UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
		CC 10	UNIT-নাটকের রূপভেদ
সপ্তাহ ৫ – ৮	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	৪	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ৯ – ১২	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	৪	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
			UNIT 1 : ঘরেবাইরে উপন্যাস-রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণ মূল্যায়ন			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
	৪	CC 8	UNIT 2 সঞ্চয়িতা কাবসংকলনের অংশবিশেষ
			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	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২০২১ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়

সপ্তাহ ১ – ৪	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2 অলঙ্কার নির্ণয়
	৫	CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
		CC 7	UNIT 1 : সাম্য
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	৫	CC 7	UNIT 1 : সাম্য
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	৫	CC 7	UNIT 1 : সাম্য
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3 চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার পরিচয়
			UNIT 2অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	৫	CC 7	UNIT 1 : সাম্য

সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০-২০২১ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলাকথাসাহিত্যেরউদ্ভবওবিকাশ
	৪	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
	৪	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
	৪	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			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
		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 ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : বিজোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২০২২ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ

			UNIT 2 অলঙ্কার নির্ণয়
	৫	CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
		CC 7	UNIT 1 : সাম্য
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	৫	CC 7	UNIT 1 : সাম্য
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3চণ্ডীমঙ্গল
	৩	CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
			UNIT 2 অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	৫	CC 7	UNIT 1 : সাম্য
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 2 : বাংলা মঙ্গল কাব্যের ধারা
			UNIT 3 চণ্ডীমঙ্গল
		CC 5	UNIT 1অলঙ্কার সঙ্গার্থ
	৩		
			UNIT 2অলঙ্কার নির্ণয়
		CC 6	UNIT 2: কৃষ্ণকুমারীনাটক
	৫	CC 7	UNIT 1 : সাম্য
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১-২০২২ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক লিপিকা সাহা

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলাকথাসাহিত্যেরউদ্ভবওবিকাশ
	৪	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
	৪	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
	৪	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			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 4 : বাংলা শব্দ ভাণ্ডার UNIT 4 বাংলা কথাসাহিত্যের উদ্ভব ও বিকাশ
		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 ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – ড. দীপঙ্কর ভট্টাচার্য

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

		CC 7	UNIT 1 : সাম্য – বঙ্কিমচন্দ্র চট্টোপাধ্যায়(ভূমিকা, পরিচ্ছেদ – ১)
		GE 3	UNIT 2 : স্বামীজীকে যেরূপ দেখিয়াছি – ভগিনী নিবেদিতা (ভূমিকা, পরি – ১-২)
	৫	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (২ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর (ভূমিকা, পরিচয়, সৌন্দর্যের সম্বন্ধ)
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – চণ্ডী
	৩	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)
	৫	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (৪ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – ধর্ম
	৩	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)
	৫	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (২ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 2 : বাংলা মঙ্গলকাব্যের ধারা – শিবায়ন, অন্নদা
	৩	CC 6	UNIT 3 : রাজা – রবীন্দ্রনাথ ঠাকুর
		CC 7	UNIT 1 : সাম্য – বঙ্কিমচন্দ্র চট্টোপাধ্যায় (পরি ৪ ও পাঠ সমাপ্তি)
		GE 3	UNIT 2 : স্বামীজীকে যেরূপ দেখিয়াছি – ভগিনী নিবেদিতা (অবশিষ্টাংশ)
	৫	CC 12	UNIT 3: স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প (২ টি)
		DSE 2	UNIT 3 : পঞ্চভূত - রবীন্দ্রনাথ ঠাকুর
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – ড. দীপঙ্কর ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস
		AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
	৪	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	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস
		AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
	৪	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
	৪	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			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 1 : বাংলা গদ্য ও প্রবন্ধসাহিত্যের ধারা এবং সাময়িক পত্রের ইতিহাস
	৪	AECC	সহজ পাঠ - রবীন্দ্রনাথ ঠাকুর
		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 ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকদেবপ্রিয়ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : পদাবলি,শাক্তপদাবলি।
		CC 2	UNIT 2 : শাক্তপদাবলি
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (পরমানুলোক)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী (পরিচ্ছেদ ৭-৮)
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত ২টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত –বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ৫ – ৮	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : পদাবলি, শাক্তপদাবলি।
		CC 2	UNIT 2 : শাক্তপদাবলি
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (নক্ষত্রলোক, সৌরজগৎ)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী (পরিচ্ছেদ৯-১১)
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত৩টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ৯ – ১২	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2 : শাক্তপদাবলি
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার

		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর(গ্রহলোক, ভূলোক)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১১-১২)
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত৩টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2 : শাক্তপদাবলি
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (উপসংহার)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১৩)
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত২টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকদেবপ্রিয়ভট্টাচার্য

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি - পরিচয়
		CC 2	UNIT 3 : ধ্বনিপরিবর্তন
		AECC	বাংলাব্যাকরণ (পদপরিচয়, পদান্তর)
	৪	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	২	CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি, বর্গীকরণ
		CC 3	UNIT 4 : শব্দভাণ্ডার
		AECC	বাংলাব্যাকরণ (সমাস, ক্রিয়া)
	৪	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)
	৪	CC 10	UNIT 1 : কাব্যেররূপভেদ
		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			
সপ্তাহ ১৫-১৭	২	CC 3	UNIT 3 : স্বরধ্বনি ও ব্যঞ্জনধ্বনি, বর্গীকরণ
		CC 3	UNIT 4 : শব্দার্থপরিবর্তন
	৪	AECC	বাংলাব্যাকরণ (ক্রিয়ারকাল, বাংলাবানানচর্চা)
		CC 10	UNIT 1 : কাব্যেররূপভেদ
		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**		

পাঠপরিকল্পনা :বিজোড়সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক অমরেশ মণ্ডল

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

সপ্তাহ৫ – ৮	১	CC 2	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য , চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
	৩	CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
	৫	CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
		CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)
		DSE 3 :	UNIT 3 : শক্তি চট্টোপাধ্যায়ের নির্বাচিত কবিতা
সপ্তাহ৯ – ১২	১	CC 2	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য , চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
	৩	CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
	৫	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			
সপ্তাহ ১৫-১৭	১		UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য , চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
	৩	CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
	৫	CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
		CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

সপ্তাহ	**সেমেস্টার**	**পত্রসংখ্যা**	**বিষয়**
3	১	CC 2	UNIT 2 : প্রাগাধুনিক বাংলা সাহিত্য , চণ্ডীমঙ্গল কাব্য, আখেটিক খণ্ড
	৩	CC 7	UNIT 3 : প্রমথ চৌধুরী, প্রবন্ধসংগ্রহ ,নির্বাচিত অংশ
	৫	CC 11	UNIT 2: শ্রৎচন্দ্রের পথের দাবী
		CC 12	UNIT 4 : স্বাধীনতা পরবর্তী ছোট গল্প(১০টি)

		DSE 3 :	UNIT 3 : শক্তি চট্টোপাধ্যায়ের নির্বাচিত কবিতা
সপ্তাহ৫ – ৮	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : পদাবলি, শাক্তপদাবলি।
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত৩টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ৯ – ১২	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2 : শাক্তপদাবলি
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর(গ্রহলোক, ভূলোক)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১১-১২)
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত৩টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 4 :বাংলাসাহিত্যেরইতিহাস : চৈতন্যজীবনী
		CC 2	UNIT 2 : শাক্তপদাবলি
	৩	CC 5	UNIT 1 : বাংলাঅলঙ্কার
		CC 7	UNIT 2 : বিশ্বপরিচয় – রবীন্দ্রনাথঠাকুর (উপসংহার)
		GE 3	UNIT 3 : আত্মপরিচয় – শিবনাথশাস্ত্রী(পরিচ্ছেদ১৩)
	৫	CC 12	UNIT 1: ছোটগল্প – রবীন্দ্রনাথঠাকুর (নির্বাচিত২টি)
		DSE 2	UNIT 1 : মুচিরামগুড়েরজীবনচরিত – বঙ্কিমচন্দ্রচট্টোপাধ্যায়
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা : জোড়সেমেস্টার (জানুয়ারি – জুন)

২০২২-২৩ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপক অমরেশ মণ্ডল

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস
	৪	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	২	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস
	৪	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	২	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস
	৪	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			
সপ্তাহ ১৫-১৭	২	CC 4	UNIT 2 : বাংলা নাট্য সাহিত্যের উদ্ভব ও বিকাশের ইতিহাস
		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 ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২০ - ২১ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. তপশ্রী চট্টপাধ্যায়

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	৩	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	৩	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	৩	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
		CC 5	UNIT 2 : কৃষ্ণকুমারী
	৩	CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৮	**পাঠ**-পুনর্বিবেচনা **ও অনুশীলন**		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২০ - ২১ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. তপশ্রী চট্টপাধ্যায়

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

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২১ - ২২ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. তপশ্রী চট্টপাধ্যায়

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

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

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২১ - ২২ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. তপশ্রী চট্টপাধ্যায়

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

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : বিজোড় সেমেস্টার (জুলাই – ডিসেম্বর)

২০২২ - ২৩ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. তপশ্রী চট্টপাধ্যায়

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	৩	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৫ – ৮	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	৩	CC 5	UNIT 2 : কৃষ্ণকুমারী
		CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ৯ – ১২	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
	৩	CC 5	UNIT 2 : কৃষ্ণকুমারী

		CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৩ – ১৪ : অভ্যন্তরীণমূল্যায়ন			
সপ্তাহ ১৫-১৭	১	CC 1	UNIT 4 : বৈষ্ণব পদাবলি, চৈতন্যজীবনী, নাথ সাহিত্য
		CC 5	UNIT 2 : কৃষ্ণকুমারী
	৩	CC 7	UNIT 4 : আপন কথা
	৫	CC 11	UNIT 1: রাজসিংহ UNIT 1: পদ্মানদীর মাঝি
সপ্তাহ ১৮	পাঠ-পুনর্বিবেচনা ও অনুশীলন		

বিধাননগর কলেজ

বাংলা বিভাগ

পাঠ পরিকল্পনা : জোড় সেমেস্টার (জানুয়ারি – জুন)

২০২২ - ২৩ শিক্ষাবর্ষ

শিক্ষকের নাম – ড. তপশ্রী চট্টপাধ্যায়

সপ্তাহ	সেমেস্টার	পত্রসংখ্যা	বিষয়
সপ্তাহ ১ – ৪	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস UNIT 2 : বাংলা ভাষার উপভাষা
	৪	CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13 DSE 4	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস UNIT 2 : চন্দ্রগুপ্ত
সপ্তাহ ৫ – ৮	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস UNIT 2 : বাংলা ভাষার উপভাষা
	৪	CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13 DSE 4	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস UNIT 2 : চন্দ্রগুপ্ত

সপ্তাহ ৯ – ১২	২	CC 3	UNIT 1 : ভারতীয় আর্যভাষার বিবর্তনের ইতিহাস UNIT 2 : বাংলা ভাষার উপভাষা
	৪	CC 10	UNIT 4 : সাহিত্য – রবীন্দ্রনাথ ঠাকুর
	৬	CC 13 DSE 4	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস 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 DSE 4	UNIT 2: ইংরিজি সাহিত্যের ইতিহাস UNIT 2 : চন্দ্রগুপ্ত

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা :দ্বিতীয়বর্ষ, তৃতীয়বর্ষ (পুরাতন বার্ষিক পাঠ্যক্রম)

(জুলাই – জুন)

২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকজয়ন্তমিস্ত্রি

সপ্তাহ	বর্ষ	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	বর্ষ	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	বর্ষ	বিষয়
সপ্তাহ ১ – ৪	২য় বর্ষসাম্মানিক	ছন্দেরপরিচয় ও ছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরকবিতাসঞ্চয়ন, সংস্কৃতসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	ছন্দেরপরিচয়ওছন্দনির্ণয়

সপ্তাহ ৫ –৮	২য়বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরকবিতাসঞ্চয়ন, সংস্কৃতসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	ছন্দেরপরিচয়ওছন্দনির্ণয়
সপ্তাহ ৯ –১২	২য়বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরকবিতাসঞ্চয়ন, সংস্কৃতসাহিত্যেরইতিহাস
	২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
সপ্তাহ ১৩	২য় বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরপ্রবন্ধসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
	২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
সপ্তাহ ১৪– ১৫	২য় বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরপ্রবন্ধসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
	২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
সপ্তাহ ১৬-১৭	২য় বর্ষসাম্মানিক	ছন্দেরপরিচয়ওছন্দনির্ণয়
	৩য় বর্ষসাম্মানিক	একালেরপ্রবন্ধসঞ্চয়ন, একালেরসমালোচনাসঞ্চয়ন
	২য় বর্ষসাধারণ	একালেরকবিতাসঞ্চয়ন
পুনরালোচনা		

বিধাননগরকলেজ

বাংলাবিভাগ

পাঠপরিকল্পনা :তৃতীয়বর্ষ

(জুলাই – জুন)

২০১৯-২০২০ শিক্ষাবর্ষ,

শিক্ষকেরনাম – অধ্যাপকঅধ্যাপকউদয়শঙ্করবর্মা

সপ্তাহ	বর্ষ	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

শিক্ষকেরনাম – অধ্যাপকলিপিকাসাহা

সপ্তাহ	বর্ষ	বিষয়
সপ্তাহ ১ – 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	বর্ষ	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, তৃতীয়বর্ষ

(জুলাই – জুন)

২০১৮-২০১৯ শিক্ষাবর্ষ

শিক্ষকেরনাম – অধ্যাপকতপশ্রীচট্টোপাধ্যায়

সপ্তাহ	বর্ষ	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	বর্ষ	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		