



KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA

DEPARTMENT OF ENGLISH

SEMESTER LESSON PLAN - 2021-22

2021 -22 NEW CBCS - SEMESTER I- (ENGLISH FOR ENHANCED COMPETENCE)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	DECEMBER	1	The Eyes are Not Here.
		2	Consonants, Nouns, Root forms.
		3	Capitals , dialogues, reading comprehension
		4	Guided composition
2	JANUARY	5	Soft skills and Value education
		6	Work brings solace
		7	Monophthongs, pronouns, prefixes and suffixes, spelling practice
		8	Capitals , dialogues, reading comprehension
3	FEBRUARY	9	Sequencing ,soft skills and value education
		10	Bangle sellers
		11	Helping verbs, vocabulary part, spelling
4	MARCH	12	punctuation , dialogues and reading comprehension ,
		13	Descriptive writing
		14	Non verbal communication and Actions speak louder than words
5	APRIL	15	The merchant of venice,soft skill and value education

2021 -22 NEW CBCS - SEMESTER II- (English for enhanced competence)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	MAY	1	The open window, positives and non finite verbs
		2	Simile and metaphor , spelling , semi-colon , Conversation
		3	Reading passage and note making
		4	Time management , Time and tide wait for no man
2	JUNE	5	The voice of humanity,fricatives , adjectives
		6	Spelling , punctuation and dialogue
		7	Reading passage and informal letter
		8	Leadership skills , the pen is mightier than sword
3	JULY	9	IF
			Africates , Articles , portmanteau words , spellings , Punctuations
		11	Dialogue writings ,reading passage , formal letters
4	AUGUST	12	stress management , practice makes perfect
		13	Riders to the sea, Adverbs , palindromes
		14	Punctuations , reading passage, dialogues
		15	Etiquette and grooming, Necessity is the mother of invention

2021 -22 NEW CBCS - SEMESTER III- English for enhanced competence

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	The man who saved pumpelsdrop,plural and past tense endings
		2	Prepositions , anagrams , spelling , punctuation
		3	Capitals , dialogues, reading comprehension
		4	Narrative writing , Negotiation , and hope for the best and prepare for the worst
2	OCTOBER	5	On the pleasures of no longer being young
		6	syllable conjunctions,rasal verbs
		7	conversation and reading passage , Argumentative essay
3	NOVEMBER	8	Decission making and Better late than never
		9	An irish airman foresees his death, consonant clusters, voice , Idioms
		10	Irregular verbs , Full Stops ,reading passage
4	DECEMBER	11	Problem solving and the early bird catches the warm
		12	Conversation
5	JANUARY	13	Revision
		14	Revision

2021-22 NEW CBCS - SEMESTER-IV - English for enhanced competence


S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	FEBRUARY	1	With the photographer, Stress , Speech
		2	spelling and punctuation
		3	Conversation and reading passage
2	MARCH	4	Diary writing , Team work ,
		5	God helps who helps themselves
		6	letter from a father to a daughter ,
3	APRIL	7	word stress, Comparision of adjectives
		8	Commonly confused words,
		9	spelling and punctuation
4	MAY	10	conversation and reading passage
		11	Expository essay
5	JUNE	12	Emotional intellogence and Actions speak louder than words
		10	How wealth accumulates and men decay, Contractions Type od sentences
6	JULY	11	Alliteration ,
		12	Puunctuation reading and dialogue writing
		13	Writing articles for magazines
6	JULY	14	Critical thinking and there is no time like the present
		15	Revision practice

2021 -22 NEW CBCS - SEMESTER V -

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	Playing the english gentleman, weak and strong forms
		2	simple sompound and complex sentences, vocabulary, spelling
		3	punctuations , conversation , reading passage
		4	Process writing, presentation skills,A penny saved a penny earned.
2	OCTOBER	5	Work, Intonation
		6	Transformation of sentences, pecture vocabulary
		7	Conversation , reading passage,
		8	Script writing, social intelligence, you can not judge a book it's cover
3	NOVEMBER	9	The girl who asked why
		10	sentence stress, Question tags
		11	Vocabulary , spelling , punctuation
4	DECEMBER	12	Conversation practice, Reading passage
		13	Creative writing , work ethics
		14	Revision practice

2021 -22 NEW CBCS - SEMESTER VI -

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	FEB	1	Before breakfast.Assimilation, conditionals
		2	Situational vocabulary, Abbreviations, punctuations.
		3	Conversations ,
		4	Reading passage, C V writing
2	MARCH	5	Interpersonal skills,
		6	Value education, Revision practice
		7	India through travellers eyes
		8	Elision Common Errors
3	APRIL	9	Acronyms , spelling , punctuations.
		10	Question marks, conversation practice
		11	Reading practice, report writing
4	MAY	12	Time managenent . No man is an island
		13	Revision
5	JUNE	14	Revision
		15	Revision


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SEMESTER LESSON PLAN- 2021-22 NEW CBCS - SEMESTER-I

SUBJECT: HISTORY PAPER-I (History of India (From Earliest Times to c.700 CE))

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	OCTOBER	1	Definitions - Nature and Scope of History - History and Its Relationship with other Social Sciences
		2	Geographical Features of India
		3	Sources of Indian History:
		4	History – Paleolithic, Mesolithic, Neolithic, Chalcolithic and Megalithic Cultures.
2	NOVEMBER	5	Indus Valley Civilization - Its Features & Decline;
		6	Early Vedic and Later Vedic Civilizations – Vedic Literature – Society – Economy - Polity – Religion.
		7	Rise of New Religious Movements
		8	– Charvakas, Lokayathas, Jainism and Buddhism; Mahajanapadas -
3	DECEMBER	9	Rise of Magadha; Alexander's Invasion and Its Impact
		10	Foundation of the Mauryan Dynasty; Ashoka and His Dharma – Polity – Administration - Society – Economy – Religion – Literature - Art and Architecture;
		11	Kushanas and Kanishka - Society – Economy – Literature – Art and Architecture
4	JANUARY	12	Post-Mauryan Kingdoms - Indo-Greeks
		13	The Satavahanas; Sangam Age – Literary Development.
		14	Gupta Empire: A Brief Political Survey - Polity and Administration, Social and Economic Conditions, Agriculture and Land Grants - Feudalism, Caste System,
5	FEBRUARY	15	Harshavardana and His Achievements.


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SEMESTER LESSON PLAN-2021-22 NEW CBCS - SEMESTER-II
SUBJECT: HISTORY PAPER-II (History of India (c.700-1526 CE))

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	APRIL	1	The Age of Rajputs Society, Economy and Culture
		2	Rise of Regional States: Pallavas, Chalukyas of Badami;
		3	Rashtrakutas, Cholas
		4	Local Self Government under Cholas; Society, Economy, Literature, Art and
2	MAY	5	Arab Conquest of Sind, Ghaznavids and Ghoris
		6	Foundation of Delhi Sultanate
		7	Slave, Khaljis, Tughlaqs, Sayyids and Lodis
		8	of Education and Literature – and the decline of Delhi Sultanate.
3	JUNE	9	Bhakti and Sufi Movements Prominent Bhakti and Sufi Saints their Preaching's
		10	Impact on Society and Culture - Emergence of Composite Culture
		11	Kakatiyas – Polity
		12	Administration - Society and Economy - Literature and Religion – Art and Architecture
4	JULY	13	Yadavas – Hoysalas and Pandyas – their contribution to South Indian Culture.
		14	Vijayanagara – A Brief survey of Political History
		15	The Brief History of Bahamanis and their Contribution to the Deccan Culture

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SEMESTER LESSON PLAN- 2021-22 NEW CBCS - SEMESTER-III
SUBJECT: HISTORY PAPER-III (History of India (1526-1857 CE))


S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	Establishment of Mughal Dynasty
		2	Shershah Sur and His Reforms
		3	Brief Survey of Political History of Mughals – Akbar, Shah Jahan and
		4	Polity - Administration – Society – Economy – Technological Developments -
2	OCTOBER	5	Rise of Regional Powers
		6	Marathas – Shivaji and His Administration
		7	Peshwas - Sikhs.
3	NOVEMBER	8	Advent of European Powers Portuguese, Dutch, English and French.
		9	Anglo-French Rivalry - Expansion and Consolidation of British Power
		10	Wellesley's Subsidiary Alliance – Dalhousie's Doctrine of Lapse
		11	Three Stages of Colonialism – Mercantilism - Free Trade Policies
4	DECEMBER	12	Land Revenue Settlements – Cornwallis and Permanent Revenue Settlement; Thomas Munroe and Ryotwari; Mahalwari System
		13	Decline of Rural Cottage Industries and Urban Handicrafts
		14	Growth of Railways, Roads, Communication Modern Industries Coal Mines,
5	JANUARY	15	1857 Revolt – Nature, Causes and Results.


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SEMESTER LESSON PLAN 2021-22 NEW CBCS - SEMESTER-IV
SUBJECT: HISTORY PAPER-IV (History of India (1858-1964 CE))

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	APRIL	1	Queen's Proclamation – Beginning of Colonial Rule
		2	Introduction of Western Education – Role of Christian Missionaries
		3	Press, Communication and Emergence of Middle Classes
		4	Lytton and Rippon: Impact of their Policies
2	MAY	5	Socio-Religions Reform Movements
		6	Brahma Samaj - Arya Samaj - Theosophical Society - Ramakrishna Mission
		7	Aligarh Movement; Anti-Caste Movements - Jyotibha Phule - Narayana Guru -
		8	Factors for the Rise of Nationalism – Formation of Indian National Congress
3	JUNE	9	Three Phases of Freedom Struggle: Moderate Phase, Extremist Phase
		10	Gandhian Era - Non-Cooperation, Civil Disobedience and Quit Indian
		11	National Army and Subhash Chandra Bose.
		12	Revolutionary Movement: Gadhar Party – Bhagath Singh – Chandra
		13	Left-Wing Movement – Rise of Socialist and Communist Parties - Peasant and
4	JULY	14	Emergence of Communal Politics and Mohd. Ali Jinnah
		15	Prelude to Partition of India - Sardar Vallabhai Patel and Integration of Princely States into Indian Union – Republic of India – Jawaharlal Nehru and His Policies.


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SEMESTER LESSON PLAN-2021-22 OLD CBCS - SEMESTER-V
SUBJECT: History of the Modern World (From 1453 CE to 1964 CE)



S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	Fall of Constantinople (1453 C.E.) – Beginning of Modern Age in Europe
		2	and Scientific Inventions and their impact on Society
		3	Renaissance – Meaning-Causes and Results – Impact of Renaissance on
		4	Reformation Movement – Causes, Martin Luther, John Calvin and
2	OCTOBER	5	Emergence of Nation States, Glorious Revolution (1688), End of Feudalism – Industrial Revolution
		6	American War of Independence (1776), French Revolution (1789) – Causes,
		7	Factors for the Rise of Napoleon – Unification of movements in Italy and
3	NOVEMBER	8	Russian Revolution (1917) – Causes – The role of Lenin – Results
		9	First World War – Causes and Results, League of Nations (1920) – Its
		10	Mussolini and the Rise of Fascism in Italy - Hitler and Nazism in Germany -
		11	The Great Economic Depression and its Impact,
		12	Second World War – Causes and Results, Establishment of United Nations
		13	Cold War and Its Impact,

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4	DECEMBER	14	Colonization of Asia - India and China under Colonial Rule, Role of Gandhi in Indian National Movement (1920-1947); Sun-Yat-Sen and His Ideas; Role of Mao-Tse-Tung in Chinese Revolution – 1949.
5	JANUARY	15	NAM-its origin-aims importance

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SEMESTER LESSON PLAN-2021-22 OLD CBCS - SEMESTER-V
SUBJECT: HISTORY PAPER-VI (History of Telangana (From Earliest Times to 2014 CE))

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	APRIL	1	Sources – Archaeological and Literary Sources, Geographical Features of Telangana
		2	Pre History – The Age of Satavahanas Satavahanas – Origin – Administration - Society and Economy – Religion - Language & Literature - Art & Architecture
		3	Post-Satavahana Period Ikshvakus Vishnukundins Post-Satavahana Period - Ikshvakus – Vishnukundins – A Brief Political History – Society – Economy – Religion - Language & Literature - Art & Architecture
		4	Origin and Early History of Chalukyas of Badami and their Contribution to Culture - Chalukyas of Vemulavada & Mudigonda - Political History – Society – Economy – Religion - Language & Literature - Art & Architecture.
		5	Kakatiyas – Origin and Early History Ganapatideva, Rudramadevi and Prataparudra


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2	MAY	6	Post-Kakatiya Political Developments – Musunuri Nayakas, Recherla Rulers – Their Contribution to Culture.
		7	Qutb Shahis of Golconda – Origin and Political History Society – Economy - Agriculture – Irrigation – Trade & Commerce – Religion – Language & Literature – Art &
3	JUNE	8	Political Conditions in Telangana from 1687 to 1724, Life and Times of Sarvai Papanna.
		9	Foundation of Asaf Jahi Dynasty, Salarjung Reforms - Modernization of Hyderabad
		10	1857 Revolt and Adivasi Rebellion – Ramji Gond – Rekapalli Revolt
		11	Social, Cultural and Political Awakening in Telangana, Press, Journalism and Library Movements – Arya Samaj and Its Activities
4	JULY	12	Ittehad-ul-Muslimeen – Bhagya Reddy Verma and Dalit Movements
		13	Discrimination, Dissent and Protest – Violation of Gentlemen’s Agreement – Agitation for Separate Telangana State
		14	Assertion of Mulki Identity and the City College Incident 1952
		15	and Others - Formation of Telangana Political Joint Action Committee and Its Role in the Movement - Mass Mobilization – Sakala Janula Samme – Million March – Sagara


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DEPARTMENT OF POLITICAL SCIENCE

SEMESTER LESSON PLAN - 2021-22

2021 -22 NEW CBCS - SEMESTER I- Paper-1 (Understanding Political Theory)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	DECEMBER	1	What is Political Theory, Evolution, Nature , Significance
		2	Debates on Political Theory : Normative, Empirical
		3	What is Political?
		4	State: Theories of origin of the state, Divine, Social Contract, Evolution Theories
2	JANUARY	5	Power and Authority
		6	Authoritative allocation of Values
		7	Sovereign state : Challenges
		8	Political Values and Theoretical Perspective
3	FEBRUARY	9	Liberty :- A) Liberal B) Marxist C) Feminist
		10	Equality :- A) Liberal B) Marxist C) Feminist
		11	Justice :- A) Liberal B) Marxist C) Feminist
4	MARCH	12	Political Ideologies
		13	Liberalism , Nationalism ,Multiculturalism
		14	Political Institutions and Functions , Legislature, Executive and Judiciary
5	APRIL	15	Political Parties, Pressure Groups, Media

2021 -22 NEW CBCS - SEMESTER II- Paper-2 (Western Political Thought)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	MAY	1	Greek Political Thought Greek Political Thought – Sophists
		2	Plato:- Concept of Justice , Ideal State , Education and Communism.
		3	Aristotle :- Forms of Governments, On revolution , Slavery , Best state
		4	Medieval and Early Modern Thought
2	JUNE	5	Thomas Aquinas :- Theory of Laws, Christianized Aristotle
		6	Church – State Controversy
		7	Niccolo Machiavelli – Human Nature , StateCraft
		8	Social Contractualists : Introduction
3	JULY	9	Thomas Hobbes :- Individualism and Absolute (State) Sovereignty
		10	John Locke :- Natural Rights Limited Government

	JULY	11	J. J. Rousseau :- Romanticism, General will , Popular Sovereignty
		12	Utilitarian Thought Jeremy Bentham :- Utilitarian Principles; Hedonism
4	AUGUST	13	J. S. Mill :- On liberty , Representative Government
		14	Philosophy of Dialectics G.W. F. Hegal : Dialectics Purpose of History Geist and State
		15	Karl Marx:- Historical Materialism, Class war and Revolution.

2021 -22 NEW CBCS - SEMESTER III- Paper-3 (Indian Political Thought)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	State and Society in Ancient India
		2	Manu – Features of Manusmriti, Origins of Varna, Varna Dharma
		3	Buddha – Dhamma , Sangha , Eightfold path
		4	Kautilya- Saptanga Theory , Mandala Theory , Statecraft
2	OCTOBER	5	Medieval Political Thought
		6	Basava- Anubhava Mantapa , Gender Equality
		7	Ziauddin Barani- Theory of Kingship (Ideal Sulthan) , Ideal Polity
3	NOVEMBER	8	RenaissanceThought
		9	Raja Ram Mohan Roy - Colonial Encounters , Brahma Samaj
		10	Jyothi Rao Phule- Gulam Giri , Satya Shodhak Samaj , Education
4	DECEMBER	11	Reformist Thought ; Problem of Political Obligation
		12	Reformist Thought ; M. K. Gandhi – Satyagraha , Trusteeship
5	JANUARY	13	Jawaharlal Nehru- Democratic Socialism
		14	R.M. Lohia – Concept of Four Pillars of State(Chaukhamba Model)

2021-22 NEW CBCS - SEMESTER-IV - Paper-4 (Constitution and Politics of India)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	FEBRUARY	1	Constitutional Development in India
		2	Brief overview of Nationalist Movement
		3	Evolution of Indian Constitution -1909 Act ,1919 Act ,1935Act.
2	MARCH	4	Philosophical Foundations of the Indian Constitution – Liberal, Gandhian, Socialist
		5	Institutional Framework : Union Government – Executive; Legislature; Judiciary
		6	State Government - Executive, Legislature, Judiciary
	APRIL	7	Federal Politics : Union- State Relations - Legislative, Administrative, Financial
		8	Recent trends in Union - State Relations
		9	Electoral Politics in India - Political Parties

3		10	National Parties - INC, BJP, CPM, BSP
4	MAY	11	Regional Parties - DMK, Akali Dal, TDP, TRS
		12	Recent Trends in Party System
5	JUNE	10	National Parties : INC, BJP, CPM, BSP
		11	Regional Parties : DMK, Akali Dal, TDP, TRS
		12	Recent Trends in Party System
		13	Election Commission & Electoral Reforms
6	JULY	14	Issues in Indian Politics
		15	Debates on Secularism – Majority Communalism, Minority Communalism

2021 -22 NEW CBCS - SEMESTER V - Paper-5 (International Relations)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	International Relations - Introduction.
		2	Emergence of Sovereign State System.
		3	History of International Relations.
		4	Colonialism : Causes, Phases and Impact.
2	OCTOBER	5	First World War and Second World War – Causes and Consequences.
		6	Post War Developments : Decolonization.
		7	Emergence of Third World : Problems and Prospects.
		8	Cold War: Causes, Phases and Impact.
3	NOVEMBER	9	Concepts: .Power -Kinds of Power, Elements of National Power.
		10	Super Power, Bipolarity, Unipolarity, Multipolarity. Regional Power
		11	International Organizations:
4	DECEMBER	12	India and World – Foreign Policy : .India’s Foreign Policy ,Determinants
		13	Regional Organizations ; European Union
		14	Analysis of International Relations


2021 -22 NEW CBCS - SEMESTER VI - Paper-6(Global Politics)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	FEB	1	International Political Economy - Globalization
		2	Neo Colonialism: North South Dialogue, South – South Cooperation
		3	IBRD, IMF, World Trade Organization (WTO) and MNSs
		4	International Security : Arms Race, Arms Control, Disarmament.
		5	Issues in Nuclear Politics.

2	MARCH	6	Emerging Areas in International Relations : Human Rights
		7	Environment - Terrorism.
		8	India and China and Pakistan.
3	APRIL	9	India's Foreign Policy - Features, Issues, Recent Trends.
		10	Non- Alignment: Evaluation, Relevance and Recent Trends.
		11	India's Bilateral Relations : India and U.S.A.
4	MAY	12	India and Russia.
		13	International Relations between the two world wars
5	JUNE	14	Globalization & India's Foreign Policy .
		15	NAM, Principles of Panchasheela.

2021-22 Academic Year-The Title of the Papers for All Semesters

I B.A	I SEM	Understanding Political Theory
	II SEM	Western Political Thought
II B.A	III SEM	Indian Political Thought
	IV SEM	Constitution and Politics of India
III B.A	V SEM	International Relations
	VI SEM	Global Relations


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DEPARTMENT OF ZOOLOGY

SEMESTER LESSON PLAN - 2021-22

2021 -22 NEW CBCS - SEMESTER I- Paper-1 (ANIMAL DIVERSITY- VERTEBRATES)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	DECEMBER	1	PROTOZOA - General characters, classification, Type study - <i>Elphidium</i>
		2	Locomotion and Reproduction in Protozoa, Epidemiology of Protozoan diseases
		3	PORIFERA-General characters,classification, Type study- <i>Syco</i> , Canal system in sponges and Spicules
		4	CNIDARIA - General characters and classification, Type study - <i>Obelia</i>
2	JANUARY	1	Polymorphism in Siphonophora, Corals and coral reef formation
		2	PLATYHELMINTHES - General charactes, Classification, Type study - <i>Schistosoma</i>
		3	NEMANTHELMINTHES - General characters, Classification, Type study - <i>Dracunculus</i>
		4	Parasitic Adaptations in Helminthes
3	FEBRUARY	1	ANNELIDA - General characters, Classification, Type study - <i>Hirudinaria granulosa</i>
		2	Coelome and Coelomoducts and metamerism
		3	ARHROPODA - General characters, Classification, Type study - <i>Prawn</i>
4	MARCH	1	Crustacean larvae, Insect metamorphosis, Peripatus
		2	MOLLUSCA - General characters, classification, Type study - <i>Pila</i>
		3	Pearl formation, Torsion and detorsion in gastropods
5	APRIL	1	ECHINODERMATA - General characters, classification, Water vascular system, Echinoderm larvae

2021 -22 NEW CBCS - SEMESTER II- Paper-2 (ANIMAL DIVERSITY - VERTEBRATES)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	MAY	1	HEMICHORDATA-General characters,classification,Balanoglossus
		2	UROCHORDATA-Salient features of urochordata,Retgressive Metomorphosis
		3	Saleint features of and Affinities of Cephalochordata
		4	General characters of Cyclostomata,Comparison of the Petromyzon and Myxine
2	JUNE	1	General characters and classification of Chordata
		2	PISCES- general characters, Classification, Scoliodon
		3	Types of Scales and types of Fins
		4	AMPHIBIA - General characters, Classification, <i>Rana tigrina</i>
		1	Parental care in amphibian; neoteny and paedogenesis

3	JULY	2	REPTILIA - General characters, Classification, Calotes
		3	Temporal fosse in reptiles, characters of Poisonous and Non poisonous snakes
		4	AVES - General characters, Classification, <i>Columba livia</i>
4	AUGUST	1	Migration in Birds, Flight adaptation in Birds
		2	MAMMALIA - General characters, Classification, Rabbit
		3	Dentition in mammals, Aquatic adaptations in Mammals

2021-22 NEW CBCS - SEMESTER III- Paper-3 (ANIMAL PHYSIOLOGY AND ANIMAL BEHAVIOUR)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	DIGESTION - Enzymes, Digestion of carbohydrates, proteins, lipids and cellulose, Absorption, assimilation of digested food
		2	Role of gastrointestinal hormones, EXCRETION - Classification - Ammonotelic, Uricotelic and Ureotelic
		3	Structure and function of nephron, Urine formation, Osmoregulation- Water and ionic regulation
		4	Brackish and marine water animals, HOMEOSTASIS - Concept and mechanism; RESPIRATION - Definition, Respiratory mechanism
2	OCTOBER	1	Respiratory pigments, transport of oxygen, oxygen dissociation curves, Bohr's effect, transport of CO ₂ , chloride shift,
		2	Regulation of Respiration. CIRCULATION - Types of circulation, Types of hearts, Heart functions, heartbeat, Heart rate
		3	Tachycardia, Bradycardia; MUSCLE CONTRACTION - Types of muscles, skeletal muscle fibre, sliding filament theory,
3	NOVEMBER	1	Twitch tetanus summation, Treppe fatigue; NERVES - Structure of neuron, Resting, threshold, action potential
		2	Conduction of nerve impulse, Transmission of nerve impulse, Synapse, synaptic transmission neurotransmitters EPSP, IPSP
		3	Endocrine systems - Endocrine glands - Structure, Secretion, function of Pituitary, thyroid, Parathyroid, Adrenal glands
4	DECEMBER	1	Pancreas, Hormone action and concept of secondary messengers Male and female hormones,
		2	hormonal control of menstrual cycle in human beings; 15 PERIODS - Animal behaviour - Types of behaviour
5	JANUARY	1	acquired instinctive behaviour, Behaviour taxes, reflexes tropisms; Learning and memory, Types of learning
		2	trial and error learning imprinting, conditioning, Social behaviour and communication, Biological rhythms

2021-22 NEW CBCS - SEMESTER-IV - Paper-4 (CELL BIOLOGY, GENETICS & DEVELOPMENTAL BIOLOGY)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	FEBRUARY	1	Ultrastructure of animal cell.
		2	Structure and functions of plasma membrane proteins.
		3	structure and functions of cell organelles - Endoplasmic reticulum, Ribosomes,
2	MARCH	1	Golgi body, Lysosomes, centrosomes, Mitochondria and Nucleus
		2	Chromosomes - Structure, types, giant chromosomes
		3	Cell Division - Mitosis, Meiosis; Cell cycle and its regulation
ADDII		1	Molecular Biology - DNA- STRUCTURE and RNA Structure, types, DNA Replication
		2	Protein Synthesis - Transcription and Translation, Gene Expression - Genetic Code; operon concept

3	APRIL	3	Molecular Biology Techniques - Polymerase Chain Reaction, Electrophoresis
		4	GENETICS- Mendals laws of Inheritance and Non - Medelian Inheritance, Linkage and Crossing over
4	MAY	1	Sex determination and sex-linked inheritance,chromosomal Mutations- Deletion, Duplication, Inversion;
		2	Translocation, Aneuploidy and Polyploidy;Gene mutations- induced versus spontaneous mutations.
5	JUNE	1	Inborn errors of metabolism.
		2	Developmental Biology and Embryology - Gametogenesis Fertilization; Types of eggs,Types of cleavages
		3	Recent Trends in Party System
		4	Development of Frog up to formation of primary germ layers
6	JULY	1	Formation of Foetal membrane in chick embryo and their functions
		2	Regeneration in Turbellaria and Lizards

2021 -22 NEW CBCS - SEMESTER V - Paper-5 (IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	SEPTEMBER	1	cells of the immune system and the lymphoid organs(primary and secondary).
		2	First line of defenses-physical and chemical barriers; second line of defenses-inflammation and phagocytosis.
		3	Types of immunity-Inherent and acquired immunity Humoral and cell mediated immunity
		4	MHC-structure and function of class I anC class II proteins. Significance of MHC in organ tranaplantation
2	OCTOBER	1	Antibodies and Antigens and Immune system diseases - Antibodies- structure,functions and classification
		2	antibody diversity. Monoclonal antibodies and applicatoris, Antigens structure, antigenic determinants
		3	haptens, adjuvants and antigenicitt.Antigen-antibody reactions-agglutination, precipitation, opsonization
		4	cytotoxicity, Hypersensitivity reactions, Autoimmunity and Immunodeficiency diseases.
3	NOVEMBER	1	Animal Biotechnology and Genetically modified organisms - Concept and Scope of Animal Biotechnology.
		2	Recombinant DNA technology and its applications, Cloning vectors - Plasmids, Cosmids and shuttle vectors;
		3	Cloning methods, Transgenesis - Methods of Transgenesis,Production of Transgenic animals - sheep and fish
4	DECEMBER	1	Applications of Biotechnol- In vitro fertilization and embryo transfer.
		2	Hybridoma technology - concepts and applications, Stem cells -types and their applications, Biopesticides;
		3	Bocillus thuringiensis - mode of action of toxin, Animal Bioreactors - concepts and applications.

2021 -22 NEW CBCS - SEMESTER VI - Paper-6(Ecology, Zoogeography and Evolution)

S.NO	MONTH	WEEK	TOPICS TO BE COVERED
1	FEB	1	Ecology-I - Ecosystem structure and Types of Ecosystem-Aquatic and Terrestrial.
		2	Biogeochemical cycles - Nitrogen, Carbon, Phosphorus and Water,Energy flow in ecosystem,Food chain
		3	food web and ecological pyramids, Animal Associations-Mutualism, commensalism,parasitism, competition, predation
		4	Ecology - I - Concept of Species, Population dynamics and Growth curves

2	MARCH	1	Community Structure and dynamics and Ecological Succession, Ecological Adaptations.
		2	Environmental Pollution - Sources, Effect and Control measures of Air, Water, Soil and Noise Pollution
		3	Wildlife conservation - National parks and Sanctuaries of India, Endangered species.
		4	ZOOGEOGRAPHY - Zoogeographical regions - Palaearctic, Neartic, Neotropical, Oriental
3	APRIL	1	Australian and Ethiopian regions - their Climatic and faunal peculiarities, Wallace line
		2	Discontinuous distribution, Continental Drift, Biodiversity and hotspots of Biodiversity in India
		3	EVOLUTION - Theories of evolution - Lamarckism and Neo-Lamarckism, Darwinism and Darwinism
4	MAY	1	Modern synthetic theory, Evidences of Evolution, Causes and Role of Extinction in Evolution
		2	Forces of Evolution - mutation, gene flow, genetic drift and natural selection. Hardy Weinberg Law
5	JUNE	1	Isolation - Pre-mating and post, mating isolating mechanisms.
		2	Speciation: Methods of speciation Allopatric and sympatric

2021-22 Academic Year-The Title of the Papers for All Semesters

I B.Zc	I SEM	Animal Diversity - Invertebrates
	II SEM	Animal Diversity - Vertebrates
II B.Zc	III SEM	Animal Physiology and Animal Behaviour
	IV SEM	Cell Biology, Genetics and Development Biology
III B.Zc	V SEM	Immunology and Animal Biotechnology
	VI SEM	Ecology, Zoogeography and Evolution

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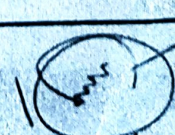
2021 - 2022

COMMISSIONERATE OF COLLEGIATE EDUCATION, T.S.
PROFORMA FOR TEACHING PLAN



1	NAME OF THE DEPARTMENT / SUBJECT	Botany
2	NAME OF THE LECTURER	K. Shivarani
3	COURSE / GROUP	BZC III Year
4	NAME OF THE TOPIC	Special Chromosomes
5	Hours Required	1 hour
6	Learning Objects	
7	Previous knowledge to be reminded	Yes
8	Topic Synopsis (Continue on the reverse side if needed)	<p>Special Chromosomes.</p> <p>=> The chromosomes in certain organisms particularly in ^{some} special cells the chromosomes are structurally different from the normal chromosomes.</p> <p>These are three types</p> <ol style="list-style-type: none"> 1. Salivary gland chromosomes 2. Lampbrush chromosomes 3. B chromosomes.
9	Examples / illustrations	
10	Additional Inputs	Preparation of models for spl. chromosomes
11	Teaching Aids used	charts, black board & chalks
12	References cited	Telugu Academy.
13	Student activity planned after the teaching	Draw the neat diagrams
14	Activity planned outside the Class Room, if any	Preparation of models.
15	Any other activity	


Signature of the Lecturer



Signature of the Head of the Department
MIRYALGUDA


2021



COMMISSIONERATE OF COLLEGIATE EDUCATION, T.S. PROFORM FOR TEACHING PLAN

1	NAME OF THE DEPARTMENT / SUBJECT	Biology
2	NAME OF THE LECTURER	K. Shivasani
3	COURSE / GROUP	BZC III Year
4	NAME OF THE TOPIC	Nucleic acids
5	Hours Required	1 hour
6	Learning Objects	
7	Previous knowledge to be reminded	Yes
8	Topic Synopsis (Continue on the reverse side if needed)	<p>Nucleic Acids</p> <ul style="list-style-type: none"> - The chromosomes are made up of two types of macromolecules 1- proteins 2. Nucleic acids. * DNA and RNA -> DNA is made up of a chain of nucleotides that function in the storage and transfer of genetic information - They are major components of cells - DNA is found in nucleus - RNA is found in cytoplasm
9	Examples / illustrations	
10	Additional Inputs	Preparation of DNA & RNA models
11	Teaching Aids used	Black board, chalks & charts
12	References cited	Telugu Academy.
13	Student activity planned after the teaching	Draw the neat diagrams
14	Activity planned outside the Class Room, if any	What is difference b/w DNA & RNA given one examples
15	Any other activity	


Signature of the Lecturer


Signature of the Head of the Department

2021-2022

COMMISSIONERATE OF COLLEGIATE EDUCATION, T.S.
PROFORMA FOR TEACHING PLAN

1	NAME OF THE DEPARTMENT / SUBJECT	Botany
2	NAME OF THE LECTURER	K. Shivalani
3	COURSE / GROUP	B.ZC II Year
4	NAME OF THE TOPIC	Complex tissues
5	Hours Required	1 hour
6	Learning Objects	
7	Previous knowledge to be reminded	Yes
8	Topic Synopsis (Continue on the reverse side if needed)	<p align="center">Complex Tissues</p> <p>In this type different cells performs different functions in only one system.</p> <p>These are 2 types</p> <ol style="list-style-type: none"> 1. Xylem 2. Phloem <p>Xylem: plants developed xylem for conduction of water</p> <p>Phloem: phloem for conduction of nutrients.</p>
9	Examples / illustrations	
10	Additional Inputs	Stealer system
11	Teaching Aids used	Black board, chalks, charts
12	References cited	Teluge Academy
13	Student activity planned after the teaching	Draw the neat diagrams.
14	Activity planned outside the Class Room, if any	Components of Xylem & phloem prepared
15	Any other activity	



Signature of the Lecturer



Signature of the Head of the Department