

DEPARTMENT OF GEOGRAPHY

Session: 2023- 2024

Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar (if any)	
For ODD Semesters								
SEMESTER I	Honours	Paper Code: GEOACOR01T						
		Unit I: Geotectonic	Earth's tectonic and structural evolution with reference to geological time scale	60	D.B	July- August		
			Earth's interior with special reference to seismology.		A.C	July- August		
			Plate Tectonics as a unified theory of global tectonics: Processes and landforms at plate margins and hotspots.		O.M	August- September		
		Unit II: Geomorphology	Degradational processes: Weathering, mass wasting and resultant landforms.		A.S	August- September		
			Development of river network and landforms on folded structures.		M.N	September- October		
			Glacial and glacio-fluvial processes and landforms.		M.M	October- November		

	Aeolian and fluvio-aeolian processes and landforms.		M.N	October-November	
	Models on landscape evolution: Views of Davis and Hack		S.K	December-January	

Paper Code: GEOACOR01P

Geotectonic & Geomorphology Lab.	Megascopic identification of (a) mineral samples: Bauxite, calcite, chalcopyrite, galena, hematite, mica, quartz, tourmaline; and (b) rock samples: Granite, basalt, laterite, sandstone, conglomerate, slate, phyllite, schist, gneiss, marble	60	M.N & O.M	July-January	
	Interpretation of geological maps with unconformity and intrusions on uniclinal structure		A.S	July-January	

Paper Code: GEOACOR02T

Cartographic Techniques	Maps: Classification and types. Components of a map	60	M.M	July- August	
	Concept and application of scales: Plain, comparative and diagonal		D.B	September to November	
	Survey of India topographical maps: Reference scheme of old		A.S	September to November	

and open series.
Information on
the margin of
maps

Coordinate
systems: Polar
and rectangular

Concept of
generating globe
and UTM
projection

Map projections:
Classification,
properties and
uses

Graphical
construction of
scales: Plain,
comparative and
diagonal

D.B

November-
December

M.N

December-
January

S.K & A.C

December-
January

D.B

September
to
November

Paper Code: GEOACOR02P

Cartographic
Techniques

Construction of
projections: Polar
Zenithal
Stereographic,
Bonne's,
Cylindrical Equal
Area, and
Mercator's

60

A.C, S.K &
M.N

November-
December

Delineation of
drainage basin
from Survey of
India
topographical
map, relative
relief map, slope
map
(Wentworth), and
stream ordering
(Strahler) on a
drainage basin.

A.S

December-
January

Correlation
between physical
and cultural
features from
Survey of India
topographical
maps using
transect chart.

O.M

December-
January

Paper Code: GEOACOR05T

SEMESTER III	Honours	Unit I: Elements of the Atmosphere	Nature, composition and layering of the atmosphere		O.M	July-August			
			Insolation: controlling factors. Heat budget of the atmosphere		O.M	August- September			
			Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences Greenhouse effect and importance of ozone layer		D.B A.C	September- October November- December			
		Unit II: Atmospheric Phenomena and Climatic Classification	Condensation: Process and forms. Mechanism of precipitation: Bergeron- Findeisen theory		S.K	July-August			
			Air mass: Typology, origin, characteristics and modification		A.S	August- September			
			Weather: stability and instability; barotropic and baroclinic conditions		M.N	September- October			
			Circulation in the atmosphere: Planetary winds, jet stream, index cycle		M.N	November- December			
			Tropical and mid- latitude cyclones		M.M	November- December			
		Monsoon circulation and		M.M	December - January				

	mechanism with reference to India				
	Climatic classification after Köppen		A.S	December - January	
Paper Code: GEOACOR05P					
Climatology	Interpretation of daily weather map of India: Monsoon		D.B	July-December	
	Construction and interpretation of hythergraph and climograph (G. Taylor)		A.S	September-November	
	Construction and interpretation of wind rose		M.N	December-January	
Paper Code: GEOACOR06T					
Unit I: Geography of India	Physiographic divisions				
	Climate and soil: Characteristics and classification		A.S	July-August	
	Population: Distribution, growth, structure and policy		A.S	August-September	
	Tribes of India with special reference to Toda and Jarwa		O.M	September-October	
	Agricultural regions. Green revolution and its consequences		M.N	November-December	
	Mineral and power resources distribution and utilisation of iron ore, coal and petroleum		M.N	December-January	
	Industrial development: Automobile and		A.C	December-January	

	information technology				
	Regionalisation of India: Economic (P. Sengupta)		M.M	July-August	

Unit II: Geography of West Bengal	Physical perspectives: Physiographic divisions, forest and water resources		M.N	November-December	
	Resources: Agriculture, mining, and industry		M.M	November-December	
	Population: Growth, distribution and human development		S.K	December - January	
	Regional Issues: Darjeeling Hills and Sundarban		A.C	December - January	

Paper Code: GEOACOR07T

Unit I: Frequency Distribution and Sampling	Importance and significance of statistics in Geography		M.M	July-August	
	Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal, interval and ratio)		M.M	August-September	
	Sources of geographical data for statistical analysis		S.K	September-October	
	Collection of data and formation of statistical tables		D.B	November-December	

		Sampling: Need, types, and significance and methods of random sampling		D.B	December-January	
		Theoretical distribution: frequency, cumulative frequency, normal and probability		M.N	December-January	
Unit II: Numerical Data Analysis	Central tendency: Mean, median, mode, partition values		A.S	July-August		
	Measures of dispersion range, mean deviation, standard deviation, coefficient of variation		A.S	August-September		
	Association and correlation: Rank correlation, product moment correlation		M.N	September-October		
	Regression: Linear and non-linear		M.N	November-December		
	Time series analysis: Moving average		S.K	December - January		
	Paper Code: GEOACOR07P					
Statistical Methods in Geography (Lab)	Construction of data matrix with each row representing an areal unit (districts / blocks / mouzas / towns) and corresponding columns of relevant attributes		O.M	July- August		

	Based on the above, a frequency table, measures of central tendency and dispersion would be computed and interpreted using histogram and frequency curve		O.M	August-October	
	Based on of the sample set and using two relevant attributes, a scatter diagram and linear regression line would be plotted and residual from regression would be mapped with a short interpretation		M.N	November-December	

Paper Code: GEOSSEC01M

	Principles of Remote Sensing (RS): Classification of RS satellites and sensors		D.B	July-December	Students prepare a project report
	Sensor resolutions and their applications with reference to IRS image referencing schemes and data acquisition.		D.B		
	Concept of False Colour Composite from IRS LISS-3		D.B		
	Principles of image interpretation and feature extraction. Preparation of inventories of		D.B		

			land use land cover features from satellite images.		
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Paper Code: GEOACOR11T

SEMESTER V	Honours		Research in Geography: Meaning, types and significance		M.M	July-August	
			Literature review and formulation of research design		A.C	August-September	
			Defining research problem and objectives		A.C	September-October	
			Research materials and methods		A.C	November-December	
			Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords		M.M	December-January	
			Fieldwork in Geographical studies: Role and significance. Selection of study area and objectives. Pre-field academic preparations. Ethics of fieldwork		M.N	July-August	
			Field techniques and tools: Observation (participant, non participant), questionnaires (open, closed, structured, non-		M.N	August-September	

		structured). Interview			
		Positioning and collection of samples. Preparation of inventory from field data.		D.B	September-October
		Post-field tabulation, processing and analysis of quantitative and qualitative data		D.B	November-December
Paper Code: GEOACOR11P					
		Literature Review		M.N & A.C	August-January
		Field Report		A.S, D.B, O.M, M.M & S.K	August-January
Paper Code: GEOACOR12T					
		Classification of hazards and disasters.		M.N	July-August
		Approaches to hazard study: Risk perception and vulnerability assessment. Hazard paradigms		A.S	August-September
		Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.		A.S	September-October
		Hazards mapping: Data and geospatial techniques (for hazards enlisted in Unit II and Core		Proposed extension lecture	November-December

	12P) (Proposed Workshop)				
	Earthquake: Factors, vulnerability, consequences and management		O.M	December-January	
	Tropical Cyclone: Factors, vulnerability, consequences and management		M.M		
	Riverbank erosion: Factors, vulnerability, consequences and management		S.K		
Paper Code: GEOACOR12P					
	An individual Project Report is to be prepared and submitted based on any one case study among the following disasters of West Bengal:		M.N, A.S, D.B, A.C, O.M, M.M & S.K	July- January	
	1) Cyclone/ Thunderstorm, 2) Landslide, 3) Flood, 4) Coastal/ riverbank erosion, 5) Fire, 6) Industrial accident, 7) Structural collapse.				
Paper Code: GEOADSE01T					
	Factors or soil formation. Man as an active agent of soil transformation.		M.M	July- August	

		Soil profile. Origin and profile characteristics of Lateritic and Chernozem soils	O.M	July- August	
		Definition and significance of soil properties: Texture, structure and moisturiser	Collaboration class	August	
		Definition and significance of soil properties: pH, organic matter and NPK	Collaboration class	September	
		Soil erosion and degradation: Factors, processes and mitigation measures	A.S	October- November	
		Principles of soil classification: Genetic and USDA.	A.S	November- December	
		Concepts of biosphere, ecosystem, biome, ecotone, community, niche, succession and ecology	M.N	July- August	
		Concepts of trophic structure, food chain and food web.	M.N	July- August	
		Geographical extent and characteristic features of: Tropical rain forest and Grassland biomes	M.M	August	
		Bio-geochemical cycles with special reference to carbon dioxide and nitrogen	M.N	September	

	Measures for conservation of bio-diversity in India: Man and Biosphere Programme		M.N	October- November	
Paper Code: GEOADSE02T					
	Scope and content of Settlement Geography; rural, urban and peri-urban areas		M.M	July- August	
	Rural Settlement: Definition, nature and characteristics		A.C	August	
	Morphology of rural settlements: site and situation, layout-internal and external		M.N	September	
	Rural house types with reference to India, Social segregation in rural areas; Census categories of rural settlements.		M.N	October- November	
	Problems and policies related to rural infrastructure with reference to India		O.M	November- December	
	Urban Settlements: Census definition (Temporal) and categories in India		A.S	July- August	
	Urban morphology: Classical models: Burgess, Homer Hoyt, Harris and Ullman		A.S	August	

		Metropolitan concept				
		City-region and Conurbation, Functional classification of cities: Nelson and McKenzie		M.N	September	
		Aspects of urban places: Location, site and situation, Size and spacing of cities: the rank size rule, the law of the primate city		S.K	October-November	
		Urban hierarchies: Central Place Theory		S.K	November-December	

For EVEN Semesters

Paper Code: GEOACOR03T

		For EVEN Semesters					
		Paper Code: GEOACOR03T					
SEMESTER II	Honours	Unit I: Nature and Principles	Nature, scope and recent trends. Elements of Human Geography	90	S.K	February	
			Approaches to Human Geography; Environmental		S.K	February	
			Concept and classification of race		S.K	March	

	Cultural regions (language and religion)		S.K	March	
Unit II: Society, Demography and Ekistics	Evolution of human societies: Hunting and food gathering, pastoral nomadism, subsistence farming and industrial society		M.M	February	
	Human adaptation to environment: Masai		M.M	February- March	
	Population growth and distribution, demographic transition		M.M, M.N	March	
	Types and patterns of rural settlements		O.M	March- April	
	Morphology of urban settlements		O.M	April	

Paper Code: GEOACOR04T

Cartograms and Thematic Mapping	Concepts of rounding, scientific notation, logarithm and anti- logarithm, natural and log scales	60	D.B	February- March	
	Diagrammatic representation of data: Line, Bar, Isopleths		A.S	March	
	Representation of socio-economic data: Dots and spheres, proportional circles and Choropleth		A.S	March- April	
	Bearing: Magnetic and true, whole-circle and reduced		M.N	February	
	Basic concepts of surveying and survey equipment: Prismatic Compass, Dumpy Level, Theodolite		D.B	March- May	

Paper Code: GEOACOR04P

		Cartograms and Thematic Mapping lab	Thematic maps:			
			– Choropleth showing density of population	60	A.S	February
			– Dots and Spheres diagram showing distribution of rural and urban population.		A.S	March
			– Proportional pie-diagrams representing economic data and land use data		A.S	March
			Traverse survey using prismatic compass, Profile survey using dumpy Level		D.B	March-May

SEMESTER IV	Honours	Paper Code: GEOACOR08T				
		Unit I: Regional Planning	Concept of regions: Types of regions and their delineation		A.C	February
			Regional Planning: Types, principles, objectives		A.C	February-March
			Multi- level planning in India		A.C	March
			Metropolitan concept and urban agglomerations		A.C	April
		Unit-II: Regional Development	Concepts of growth and development	90	M.N	February
			Economic, social and environmental		O.M	March
			Human development: Concept		O.M	April
			Cumulative causation model for regional development (Myrdal)		D.B	March
	Concept and causes of underdevelopment		D.B	April		

		Regional development in India: Disparity and diversity		D.B	June	
GEOACOR09T						
Unit-I: Concepts	Concepts in Economic Geography: Goods and services, production, exchange and consumption	60	O.M	February		
	Concept of economic man		O.M	March		
	Economic distance and transport costs		O.M	April		
Unit-II: Economic Activities	Concept and classification of economic activities	60	A.C	February		
	Factors affecting location of economic activity with special reference to industry (Weber).		A.C	February		
	Secondary activities: Concept of manufacturing regions, special economic zones and technology parks		A.C	March		
	Tertiary activities: Transport and services		M.M	March		
	Agricultural systems: Case studies of tea plantation in India and mixed farming in Europe		M.N	April		
	International trade and economic blocks: WTO, GATT and BRICS: Evolution, structure and functions		M.M	May		
GEOACOR10T						
Unit-I: Concepts	Concept of holistic environment and systems approach	60	A.S	February		
	Ecosystem: Concept, structure and functions		A.S	March		

		Unit-II: Environmental problems and policies	Urban environmental issues with special reference to waste management		S.K	March	
			Environmental policies – National Environmental Policy, 2006, Earth Summits (Stockholm, Rio, Johannesburg)		S.K	April	
			Global initiatives for environmental management (special reference to Montreal Protocol, Kyoto Protocol, Paris Climate Summit)		S.K	May	
GEOACOR10P							
		Environmental Geography Lab	Preparation of questionnaire for perception survey on environmental problems	60	A.S	February-March	
			Preparation of checklist for Environmental Impact Assessment of an urban / industrial project		A.C	March-April	
			Interpretation of air quality using CPCB / WBPCB data		D.B	April- May	
GEOSSEC02M							
		Advance Spatial Statistical Techniques	Probability theory, probability density functions with respect to Normal, Binomial and Poisson distributions and their geographical applications.	30	S.K	February-April	Project prepared by the students
			Sampling: Sampling plans for spatial and non-spatial data, sampling distributions. Sampling estimates for large and small samples tests		S.K		

			involving means and proportions.			
			Correlation and Regression Analysis: Rank order correlation and product moment correlation; linear regression, residuals from regression, and simple curvilinear regression. Introduction to multi-variate analysis.		S.K	
			Time Series Analysis: Time Series processes; Smoothing time series; Time series components.		S.K	

GEOACOR13T

SEMESTER VI	Honours	Unit I: Nature of Pre Modern Geography	Development of Geography: Contributions of Greek and Chinese geographers	90	A.C	February-March	
			Impact of 'Dark Age' in Geography and Arab contributions		A.C	March	
			Geography during the age of 'Discovery' and 'Exploration' (contributions of Columbus, Vasco da Gama, Magellan)		A.C	March-April	
			Dualism and Dichotomies (Ideographic vs. Nomothetic, Physical vs. Human, Determinism vs. Possibilism,)		A.C	April	
		Unit-II: Foundations of Modern Geography	Evolution of Geographical thoughts in Britain and United States of America		A.C	February-March	

	and Recent Trends	Contributions of Humboldt and Ritter		A.C	March-April	
		Contributions of Ratzel and Vidal deLaBlaché		A.C	March-April	
		Trends of geography in the post-World War-II period: Quantitative Revolution, systems approach.		A.C	April	
		Evolution of Critical Geography: Behavioural, humanistic and radical.		A.C	May	
GEOACOR14T						
	Unit I: Remote Sensing	Principles of Remote Sensing (RS): Types of RS satellites and sensors	60	M.N	February	
		Sensor resolutions and their applications with reference to IRS and Landsat missions		M.N	March	
		Preparation of False Colour Composites from IRS LISS-3 and Landsat TM and OLI data.		M.N	March	
		Principles of image correction and interpretation. Preparation of inventories of landuse land cover (LULC) features from satellite images.		M.N	April	
	Unit II: Geographical Information System and Global Navigation Satellite System	Concept of GIS and its applicability ; GIS data structures: types: spatial and non-spatial, raster and vector		M.N	February	
		Principles of preparing attribute tables and data manipulation and overlay analysis		D.B	March	

		Principles of GNSS positioning		D.B	April	
GEOACOR14P						
Remote Sensing and GIS	Preparation of land use and land cover map from standard FCC and its interpretation	60	D.B	February		
	Representation of raster and vector data format.		O.M	March		
	Area and length calculations from GNSS data.		D.B	April		
GEOACORDSE04T						
Unit I: Hydrology	Systems approach in hydrology. Global hydrological cycle: Its physical and biological role	90	O.M	February		
	Run off: controlling factors. Infiltration and evapotranspiration.		O.M	February		
	Drainage basin as a hydrological unit. Principles of watershed management		O.M	March		
	Groundwater: Occurrence and storage. Factors controlling recharge, discharge and movement		O.M	April		
Unit II: Oceanography	Major relief features of the ocean floor: characteristics and origin according to plate tectonics		M.M	February		
	Physical and chemical properties of ocean water		M.M	February-March		
	Water mass, T-S diagram		M.M	March		
	Ocean temperature and salinity:		M.M	April		

		Distribution and determinants			
GEOACORDSE06T					
Unit I: Resource and Development	Approaches to Resource Utilization: Utilitarian, Conservational, Community based adaptive	90	S.K	February	
	Significance of Resources: Backbone of Economic growth and development		S.K	February-March	
	Problems of resource depletion—global scenario (forest, water, fossil fuels).		S.K	March	
	Conservation of Natural Resources		S.K	April	
Unit II: Resource Conflict and Management	Distribution, Utilisation, Problems and Management of Mineral Resources: Bauxite and Iron Ore.		A.S	February	
	Distribution, Utilisation, Problems and Management of Energy Resources: Conventional and Non- Conventional		A.S	February-March	
	Concept of Resource sharing: Water		M.N	March	

Semester	(Hons /General)	Internal Assessment (Tentative time)	University Examination
I	Hons.	1 st Internal Assessment- 2 nd Week of September, 2021	January, 2022 (Tentative)

		2 nd Internal Assessment- 2 nd Week of November, 2021	
II	Hons.	1st Internal Assessment- 3rd Week of April, 2021 2nd Internal Assessment- 2nd Week of May, 2021	July, 2022 (Tentative)
III	Hons.	1st Internal Assessment- 2nd Week of September, 2021 2nd Internal Assessment- 2nd Week of November, 2021	January, 2022 (Tentative)
IV	Hons.	1st Internal Assessment- 3rd Week of April, 2021 2nd Internal Assessment- 2nd Week of May, 2021	July, 2022 (Tentative)
V	Hons.	1st Internal Assessment- 2nd Week of September, 2021 2nd Internal Assessment- 2nd Week of November, 2021	January, 2022 (Tentative)
VI	Hons.	1st Internal Assessment- 3rd Week of April, 2021 2nd Internal Assessment- 2nd Week of May, 2021	July, 2022 (Tentative)

ACADEMIC CALENDAR
SOCIOLOGY HONOURS
CBCS- SEMESTER V (ODD SEM)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
CC-11 (SOCACOR11T)- SOCIOLOGICAL THINKERS-I				
2023-24	KARL MARX: Materialist Conception of History; Capitalist Mode of Production	25	SG	September-mid-November 2023
	EMILE DURKHEIM: Social Fact; Individual and Society	25	CD	September-mid-November 2023
	MAX WEBER: Social Action and Ideal Types; Religion and Economy	25	KDM	September-mid-November 2023
CC-12 (SOCACOR12T)- SOCIOLOGICAL RESEARCH METHODODDS-I				
2023-24	What is sociological research? Objectivity & reflexivity in Sociology, theory and research; concepts and hypothesis; field	25	PM	October-November 2023
	Perspectives towards study of social phenomena- the scientific method-positivism and empiricism in Sociology, objectivity and subjectivity, deductive and inductive; critique of the scientific method-qualitative, quantitative and triangulation; types of	25	OD	October-November 2023

	research-basic-applied, historical, empirical, descriptive, exploratory, comparative, feminist			
	Modes of inquiry: survey and field research; case study; content analysis	25	TS	November 2023
DSE-01 (SOCADSE01T)- URBAN SOCIOLOGY				
2023-24	Introducing urban sociology- what is urban, urbanism and the city	10	SG	November 2023
	Perspectives in urban sociology- ecological, political economy, network, city as culture	20	CD	November-December 2023
	Movements and settlements: community, migration	20	KDM	November 2023
	Politics of Urban space: culture and leisure; caste, class and gender	25	TS	September-October 2023
DSE-02 (SOCADSE02T)- AGRARIAN SOCIOLOGY				
2023-24	Agrarian societies and studies	10	SG	November 2023
	Key issues in agrarian sociology: agrarian question; moral economy; agrarian commodity system	20	SG, OD	September-November 2023
	Themes in agrarian sociology of India: labour and agrarian class structure; market, land reforms and green revolution; agrarian movements; caste, gender and agrarian realities	30	PM, OD	September-November 2023

	Agrarian future: agrarian crisis; the global agrarian order	15	SG	November - December 2024
Internal Exams will be taken by the first week of December 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR

SOCIOLOGY GENERAL- SOCGDSE02T- MARRIAGE, FAMILY AND KINSHIP

CBCS- SEMESTER V (ODD SEM)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
2023-24	Introduction: kinship, critique and reformulation: biological and social kinship; cultural kinship	10	CD, PM	Mid November 2023
	Descent, Alliance: descent, filiation, complimentary filiation; marriage and alliance	20	PM, KDM	Mid November 2023
	Family and household: structure and change; reimagining families	20	TS, SG	Mid November 2023
	Contemporary issues in marriage, family and kinship: choice and regulation in marriage; power and discrimination in the family; new reproductive technologies; marriage migration	25	SG, CD, TS, KDM	End of November – December 2023
Internal Exams will be taken by the first week of December 2023 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR
SOCIOLOGY HONOURS
CBCS- SEMESTER III (ODD SEM)
2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
CC- 5 (SOCACOR05T)- POLITICAL SOCIOLOGY				
2023-24	Political Culture and Political Socialization 1.1 Meaning and Dimensions of Political Culture 1.2 Meaning and types of Political Socialization 1.3 Agencies of Political Socialization and their role	10 hours	TS	September 2023
	Basic Concepts 2.1 Power and Authority 2.2 State, Governance and Citizenship 2.3 Elites and the Ruling Classes	25 hours	KDM	By mid November 2023
	Political Systems: Segmentary, Totalitarian and Democratic	20 hours	TS	By end November 2023
	Political Parties, Pressure Groups, and Local Structures of Power 4.1 Political Parties: Structure and Functions 4.2 Types of Pressure Groups and their relationship with Political Parties 4.3 Local Governance: Panchayat System	25 hours	KDM & TS	By December end 2023

CC- 6 (SOCACOR06T) SOCIOLOGY OF RELIGION				
2023-24	Approaches to the Study of Religion 1.1 Formulating Religion 1.2 Emile Durkheim: Society as Sacred 1.3 Karl Marx: Religion as Alienation 1.4 Max Weber: Religion as _Social Action	30 hours	SG, PM	By October 2023
	Elements of Religiosity 2.1 Sacred, Myth, Ritual and Prayer 2.2 Time-Space 2.3 Rationality	20 hours	SG	By November end 2023
	Contemporary Directions in the Sociology of Religion 3.1 Religious Fundamentalism 3.2 The Secularization Debate 3.3 Religious Individualism and the Boundaries of Religion 3.4 Religion and Identity: Class, Gender, Sexuality	25 hours	SG, PM	By December end 2023
CC- 07 (SOCACOR07T) SOCIOLOGY OF GENDER				
2023-24	Gender as a Patriarchal / Social Construct 1.1 Gender, Sex, Sexuality 1.2 Production of Masculinity and Femininity 1.3 Gender Socialization, Gender Roles and Stereotyping 1.4 Sexual Identities: Heterosexual, Bisexual, Lesbian and Homosexual, Transgender, Transvestite, Hijra, Koti	25 hours	CD	By October 2023

	Gender: Discrimination and Inequalities (25 hrs.) 2.1.Class, Caste 2.2.Family, Work 2.3.Religion, Ethnicity	25 hours	CD & OD	By November 2023
	Gender, Power and Resistance 3.1 Social Subordination 3.2 Violence against Women 3.3 Women's and LGBTQ Movements in India	25 hours	CD & OD	By December 2023
Internal Exams will be taken by the first week of December 2023 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR

SOCIOLOGY GENERAL- CC- 03 (SOCHGEC03T/ SOCGCOR03T)-

SOCIOLOGICAL THEORIES

CBCS- SEM- III (ODD SEM)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
2023-24	Karl Marx 1.1 Materialist Conception of History 1.2 Class and Class Struggle	25 hours	OD	By December 2023
	Emile Durkheim 2.1 Social Fact 2.2 Forms of Solidarity	25 hours	PM	By December 2023
	Max Weber	25 hours	TS	By December 2023

	3.1 Ideal Types and Social Action 3.2 Types of Authority			
Internal Exams will be taken by the first week of December 2023 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

SKILL ENHANCEMENT COURSE (SEC-I)

SOCIOLOGY HONOURS

SEMESTER III (CBCS)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
DEVELOPMENT OF SOCIAL RESEARCH SKILLS				
2023-24	The Nature of Social Research: 1.1 The concepts of social research 1.2 Quantitative and qualitative social research 1.3 Mixed method	15 hours	CD	By mid of November 2023
	Using Series of Numbers to do social research 2.1 The levels of measurement • The nominal level • The ordinal level • The interval level • The Ratio level • Relationship between the levels	15 hours	CD	By end of December 2023
	Further Measurement Issues 3.1 Sources and Types of data: Primary and secondary 3.2 Census and sample survey: fundamental differences 3.3 Description of data: Tabulation and graphical	15 hours	CD	By end of December 2023

	presentation 3.4 Graphical representation of data through MS Excel			
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Internal Exam of SEC will be taken by the last week of December 2023 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.

Department of Sociology
Undergraduate Syllabus MINOR (Non-Lab Based Course)
Minor Discipline Paper 1 (MA-1) 2023 (July-December)
Semester – I Credits – 5 (75 Hours)

Topic: INTRODUCING SOCIOLOGY

SESSION	TOPIC	NUMBER OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
2	1.Sociology: The Discipline	15hrs	PM	NOVEMBER 2023
0	1.1 Definition and Scope			
0	1.2 Relationship with Anthropology and History			
2	2. Basic Concepts	45 hrs	OD	AUGUST'2023 SEPTEMBER'23 OCTOBER'23 NOVEMVER'23
3	2.1 Society; social interaction; community; association; institution; culture; cultural lag; social structure; social system; social action; status and role; role conflict; role set; norms and values; folkways and mores; conformity and deviance; law and customs;			
-				
2	2.2 Socialization: Concept; Processes and			

0 2 4	Agencies, nature-nurture debate		KDM	INTERNAL EXAM TO BE TAKEN IN THE END OF DECEMBER'23 DECEMBER'23 JANUARY'24 NOVEMBER'23 DECEMBER'23 AUGUST'23 SEPTEMBER'24
	2.3 Social Processes: Integrative and Disintegrative		PM	
	2.4 Social Control: Types and Agencies 2.5. Social Groups: Concept, Types		KDM	
	2.6 Social Stratification: Concept; Forms, Social Mobility			
INTERNAL EXAM AT THE END OF NOVEMBER'24, ALSO REMEDIAL & TUTORIAL CLASSES TO BE TAKEN ON REGULAR BASIS. TOTAL LECTURE FOR THIS SESSION WILL BE TAKEN APPROXIMATELY 60+15=75, INCLUDING REMEDIAL & TUTORIAL.				
2 0 2	<p>Department of Sociology Undergraduate Syllabus Multidisciplinary Course (MDC) 2023 CREDIT-3 (45 Hours) Initiating Sociology</p>			
3	1. What is sociology?	5 hrs	SG	SEPTEMBER'23
	2. Sociology and Common Sence	10hrs	SG	OCTOBER'23

& 2	3. Know your society: Society and Social institution, community, Association, Folkways and Mores, Values and Norms, Social Groups: Primary & Secondary, In-group and out-group.	15 hrs	KDM	NOVEMBER'23 DECEMBER'23
	4. Social processes: Assimilation, Accommodation, Cooperation, Competition & conflict.	15 hrs	KDM, SG	JANUARY'24
0	<p>Department of Sociology Undergraduate Syllabus MAJOR (Non-Lab Based Course) 2023 Discipline Specific Core Course (DS-1) Semester – I Credits – 5 (75 Hours) Topic: INTRODUCING SOCIOLOGY</p>			
2	1. Sociology: Discipline and Perspective		CD	
	1.1 Emergence of Sociology			
	1.2 Sociology and Common Sence, Sociological Imagination	25 hrs	CD	SEPTEMBER'23 OCTOBER'23
	1.3 Sociology and Social Anthropology: Relationships		CD	
	2. Some Basic Concepts:			SEPTEMBER'23

2	2. Using Series of numbers to do social research	15 hrs	TS	SEPTEMBER'23
	2.1 The levels of measurement <ul style="list-style-type: none"> • The nominal level • The ordinal level • The ratio levels • Relationship between the levels 			OCTOBER'23
4	3. Further Measurement issues	15 hrs	CD	NOVEMBER'23
	3.1 Sources & types of data: Primary & secondary			DECEMBER'23
	3.2 Census & sample survey: Fundamental differences			SEPTEMBER'23
	3.3 Description of Data: Tabulation & graphical Presentation			OCTOBER'23
	3.4 Graphical Representation of data through MS Excel			NOVEMBER'23
EXAM TO BE TAKEN AT END OF DECEMBER'24, ALSO TAKEN REMEDIAL & TUTORIAL CLASSES ON REGULAR BASIS. TOTAL LECTURE FOR THIS SESSION WILL BE TAKEN APPROXIMATELY 30+15=45, INCLUDING REMEDIAL & TUTORIAL.				



ACADEMIC CALENDAR
SOCIOLOGY MAJOR
NEP BATCH SEM-II (EVEN SEM)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
Discipline Specific Core Course (DS-2)- INTRODUCING INDIAN SOCIETY – I				
2023-24	Caste 1.1. Caste: Concept, Features 1.2 Critique of Caste system 1.3 Caste Mobility: Sanskritization, Westernization 1.4 Disintegration of Caste System	20 hours	OD	By June 2024
	Village 2.1 Structure and Change 2.2 Agrarian Class Structure	10 hours	PM & KDM	By May 2024
	Family 3.1 Traditional joint family 3.2 Disintegration debate	15 hours	PM	By June 2024
	Tribe 4.1 Problems of definition: The term, Tribes as indigenous, Adivasi consciousness 4.2 Tribal Problems	15 hours	KDM	By June 2024
Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR
SOCIOLOGY MAJOR
NEP BATCH SEM-II (EVEN SEM)
2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
Skill Enhancement Course (SE-2) GENDER SENSITIZATION				
2023-24	<p style="text-align: center;">Gender as a Social Construct</p> <p>1.1 Basic concepts: Gender, Sex, Sexuality, Patriarchy</p> <p>1.2 Gender Socialization, Gender Roles, and Stereotyping</p> <p>1.3 Sexual Identities: Heterosexual, Bisexual, Lesbian and Homosexual, Transgender, Transvestite, Hijra, Koti</p>	25 hours	OD, TS	By May 2024
	<p style="text-align: center;">Gender, Power, and Resistance</p> <p>2.1 Violence against Women</p> <p>2.2 Women's and LGBTQ Movements in India</p>	20 hours	OD, TS	By June 2024
Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR
SOCIOLOGY MINOR
NEP BATCH SEM- II (EVEN SEM)
2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
Minor Discipline Paper 2 (MA-2)				
2023-24	India: Unity and Diversity	10 hours	CD	By April end 2024
	. Basic Social Institutions 2.1 Caste: Concept, features, and critique 2.2 Family: Traditional Joint Family and its disintegration debate 2.3. Village: Village solidarity, Agrarian Class structure	25 hours	SG & TS	By May 2024
	Contemporary social issues and mobilizations 3.1 Farmers' movement 3.2 Dalit movement 3.3 Women's movement	25 hours	CD & SG	By June 1 st week 2024
Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR
SOCIOLOGY HONOURS
CBCS- SEMESTER IV (EVEN SEM)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
CC- 8 (SOCACOR08T)- ECONOMIC SOCIOLOGY				
2023-24	Perspectives in Economic Sociology 1.1 Formalism and Substantivism 1.2 New Economic Sociology	18 hours	CD	By mid April 2024
	Forms of Exchange 2.1 Reciprocity and Gift 2.2 Exchange and Money	14 hours	KDM	By mid April 2024
	Systems of Production, Circulation and Consumption 3.1 Hunting and Gathering 3.2 Domestic Mode of Production 3.3 Peasant 3.4 Capitalism 3.5 Socialism	25 hours	CD & KDM	By mid June 2024
	Some Contemporary Issues in Economic Sociology 4.1 Development 4.2 Globalization	18 hours	CD & KDM	By June end 2024
CC- 9 (SOCACOR09T) SOCIOLOGY OF KINSHIP				
	Introduction: 1.1 Key Terms: Descent, Consanguinity, Filiations, Incest Taboo, Affinity, Family, Residence 1.2 Approaches: 1.2.1 Descent 1.2.2 Alliance 1.2.3 Indological	30 hours	PM	By April 1 st week 2024 (Maternity Leave thereafter)

2023-24	Family, Household and Marriage 2.1 Changing Structure and Functions of Marriage, Family and Household 2.2 Meaning, Characteristics and household dimensions of joint family – Disintegration Debate	15 hours	TS	By April 2 nd week 2024
	Re-casting Kinship 3.1 Power and Discrimination in Family, Kinship and Marriage 3.2 Marriage Migration 3.3 New Reproductive Technologies 3.4 Re-imagining Families: Debates around lesbian, gay, bisexual, transgender and queer (LGBTQ) and Live-in Relationships.	30 hours	TS	By June end 2024
CC- 10 (SOCACOR10T)- SOCIAL STRATIFICATION				
2023-24	Introducing Social Stratification: Forms and Consequences	5 hours	SG	By March end 2024
	Theories of Stratification 2.1. Marx: Class 2.2. Functionalism: Talcott Parsons and Robert K. Merton 2.3. Max Weber: Class, Status and Power 2.4. Pierre Bourdieu: Forms of Capital 2.5. Feminist Theory: Patriarchy	30 hours	SG & OD	By April 2024
	Identities and Inequalities (30 hrs.) 3.1. Caste 3.2. Race and Ethnicity 3.3. Gendered Stratification: LGBTQ Identities	30 hours	SG & OD	By June 2024

	Political Economy of Inequality 4.1 Economic Inequality and Democracy 4.2 Globalization and the Third World	10 hours	SG	By June 2024

Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.

ACADEMIC CALENDAR

SOCIOLOGY HONOURS

CBCS- SEMESTER IV (EVEN SEM) & NEP SEMESTER- II

SKILL ENHANCEMENT COURSE 02 (SOCSSSEC02M)

GENDER SENSITIZATION

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
	Sex, Gender and Sexuality 1.1 Introduction to debates on the social construction of sex and gender 1.2 Cultural construction of masculinity and femininity 1.3 Understanding sexual preference as a right	20 hours	CD	By April 2024
	Gender, Family, Community and the State	10 hours	CD	By May 2024

2023-24	Gender Rights and the Law 3.1 Women's Rights in Indian Constitution: Fundamental rights and Directive Principles 3.2 Right to property 3.3 Personal laws 3.4 Violence against women 3.5 Sexual harassment 3.6 Rape 3.7 Domestic violence	20 hours	CD	By May 2024
	Women's Rights as Human Rights: U.N. Conventions, Convention on the Elimination of all forms of Discrimination against Women (CEDAW), Millennium Development Goals (MDGs)	25 hours	CD	By June 2024
Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR

SOCIOLOGY GENERAL- CC- 04 (SOCHGEC04T/ SOCGCOR04T)

METHODS OF SOCIOLOGICAL INQUIRY

CBCS- SEM- IV (EVEN SEMESTER)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
2023-24	The Logic of Social Research 1.1 What is Sociological Research? 1.2 Objectivity in the Social Sciences 1.3 Reflexivity	25 hours	CD	By June mid 2024
	Methodological Perspectives 2.1 The Comparative Method 2.2 The Ethnographic Method	25 hours	TS	By June mid 2024
	Modes of Enquiry 3.1 Theory and Research 3.2 Analysing Data: Quantitative and Qualitative	25 hours	OD	By June mid 2024

Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.

ACADEMIC CALENDAR
SOCIOLOGY HONOURS
CBCS- SEMESTER VI (EVEN SEM)

2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
CC- 13 (SOCACOR13T)- SOCIOLOGICAL THINKERS II				
2023-24	Talcott Parsons 1.1. Action Systems	11 hours	OD	By mid April 2024
	Claude LeviStrauss 2.1. Structuralism	8 hours	KDM	By mid April 2024
	G. H. Mead and Erving Goffman 3.1. Interactional Self	15 hours	SG	By April 2024
	Peter L. Berger and Thomas Luckmann 4.1. Social Construction of Reality	8 hours	SG	By May 2024
	Max Horkheimer, T.W. Adorno and Herbert Marcuse 5.1. Critical Social Theory	25 hours	CD	By May 2024
	Pierre Bourdieu 6.1. A Theory of Practice	8 hours	CD	By May 2024
CC- 14 (SOCACOR14T)- SOCIOLOGICAL RESEARCH METHODS II				
	Sampling : 1.1 Probability and Non-probability	12 hours	OD	By May 2024
	Data Collection : 2.1 Interview 2.2 Questionnaire 2.3 Observation	12 hours	TS	By May 2024

2023-24	Data Analysis: 3.1 Quantitative 3.2 Qualitative	15 hours	OD, TS	By mid June 2024
	Statistical Methods : 4.1 Graphical and Diagrammatic Representation – Bar Diagrams, Pie Chart, Histogram, Frequency Polygon, Smoothed Frequency Curve and Ogive 4.2 Measures of Central Tendency: Mean, Median, Mode 4.3 Measures of Dispersion: Range, Variance, Standard Deviation	36 hours	KDM	By June 2024
DSE04 (SOCADSE04T)- SOCIOLOGY OF WORK				
2023-24	Interlinking Work and Industry	10 hours	SG	By April 2024
	Forms of Industrial Culture and Organisation 2.1 Industrialism 2.2 Post-industrial Society 2.3 Information Society	20 hours	TS	By April 2024
	Dimensions of Work 3.1 Alienation 3.2 Gender 3.3 Unpaid Work and Forced Labour	20 hours	CD, SG, KDM	By May 2024
	Work in the Informal Sector 4.1 Nature and Types 4.2 Social, Political and Economic Consequences	10 hours	TS	By June 2024
	Risk, Hazard and Disaster 5.1 Socio-Environmental Risk – The case of Tehri	15 hours	TS, OD	By April 2024

	Dam 5.2 Health Hazards – Silicosis Intervention 5.3 Industrial Disaster – The case of Bhopal Gas Tragedy			
DSE06 (SOCADSE06T)- INDIAN SOCIOLOGICAL TRADITIONS				
2023-24	G S Ghurye 1.1 Caste and Race 1.2 City and Civilization	15 hours	PM	By mid April 2024
	Radhakamal Mukerjee 2.1 Personality, Society, Values 2.2 Social Ecology	15 hours	CD	By April 2024
	D. P. Mukerji 3.1 Tradition and Modernity 3.2 Middle Class	15 hours	KDM	By April 2024
	Verrier Elwin 4.1. Tribes in India	5 hours	OD	By June 2024
	M.N. Srinivas 5.1. Social Change	10 hours	SG	By June 2024
	Irawati Karve 6.1. Gender and Kinship	10 hours	OD	By May 2024
	Leela Dube 7.1 Caste and Gender	5 hours	OD	By June 2024
Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.				

ACADEMIC CALENDAR
DISCIPLINE SPECIFIC ELECTIVE 03 (SOCGDSE03T)
SOCIAL STRATIFICATION
CBCS- SEM- VI (EVEN SEMESTER)
2023-24

SESSION	TOPIC	NO. OF LECTURES	TEACHER'S NAME	WHEN TO BE TAUGHT
2023-24	Social Stratification: Concepts and Approaches	15 hours	SG	By April 2024
	Forms of Social Stratification 2.1 Race and Ethnicity 2.2 Caste and Class 2.3 Gendering Inequality 2.4 Poverty and Social Exclusion	35 hours	OD, KDM	By May 2024
	Social Mobility: meaning, types and factors responsible	25 hours	TS	By April 2024

Internal Exams will be taken by the first week of June 2024 as per the guidelines of WBSU. Tutorial and Remedial classes are taken as and when required throughout the session.

Academic Calendar 2023- 2024

Department of History

Odd semester

Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar(if any)
1st Semester (Syllabus based on NEP 2020)	Hons.	Hons. DS -1 (History Major):- Module I-VI	Hons. DS-1 :- Sources and tools of Ancient Indian historical reconstruction , Pre-historic hunter-gatherers, the advent of food production, Harappan Civilization , the Aryan Problem, rise of Magadhan Empire etc.	Approx. 12 lectures for each Module in DS-1	DR. Sreyasi Ghosh (SG), DR. Madhumita Mondal (MM2), Smt. Ranjana Banerjee (RB) Smt. Maitrayee Mukherjee (MM), Smt. Monjila Khatun (MK) and Smt. Aatreyee Bhattacharyya (AB).	Expected to be completed by December 2023.	1 st Semester Hons. SEC Project on Museology and Archives (supervised by DR. Sreyasi Ghosh and DR. Madhumita Mondal).
		Hons. SE-1 Module I-IV	Hons. SE-1 :- Archives and Museums in India; definition and history of development with special reference to India; types of archives and museums, museum presentation and exhibition etc.	Approx. 11 lectures for each Module in SE-1			
	General	General /Minor (MA-1) Module I-X	1 st Semester General:- Paleolithic , Mesolithic and Neolithic cultures, Harappan Civilization , Vedic period, Mauryan	Approx. 08 lectures for each Module in MA- 1 (History			

			Empire, the age of Shakas and Kushanas; the Sangam Age etc.	Minor)			
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3rd Semester (CBCS)	Hons.	Hons. Core 5 : - Module I- V	Core 5 – Studying Early Medieval India, evolution of political structures, agrarian structures, trade, socio- religious and cultural developments.	Core 5 :- 18 Lectures for each Module;	SAME AS ABOVE	Expected to be completed by November 2023	NIL
		Hons. Core 6 :- I – VI	Core 6 :- Transition from Feudalism to Capitalism, Early colonial expansion, Renaissance, European reformation, emergence of European state System etc.	Core 6 :- 15 Lectures for each Module;			
		Hons. Core 7 : - I – VI	Core 7 :- Sources for studying the Delhi Sultanate, regional political structures, Sultanate society and economy, religion and culture.	Core 7 :- 15 Lectures for each Module.			
	General (HISGCOR03T / HISHGECO3T) -Module I – IX	3 rd Semester General:- foundation of the Delhi Sultanate, Provincial kingdoms, consolidation of Mughal State, Emergence of Maratha	3 rd Semester General:- 10 Lectures for each Module.				

			Power etc.				
	SEC	SEC1 Course (HISSEC01M) Module I-IV	SEC1 :- Archives and Museums in India				3 rd Semester SEC Project on Museology (Supervised by DR. Madhumita Mondal).

5th Semester (CBCS)	Hons.	Hons. Core 11 :- Module I – VIII	Core 11:- The French Revolution, Industrialization, Unification of Germany and Italy, the Eastern Question and World War I etc.	Core 11:- Approx. 12 Lectures for each Module,	SAME AS ABOVE	Expected to be completed by November 2023	NIL
		Core 12 :- Module I – V	Core 12 :- The aftermath of 1857, Early phase of Indian Freedom Movement, Gandhian nationalism, Communal politics and Partition of India	Core 12:- 18 Lectures for each Module;			
		HISADSE01T:- I – V	HISADSE01T:-Pre-colonial polity, society and culture in South East Asia, economic impact of colonialism, Nationalism in Indonesia etc;	HISADSE01T: - 18 Lectures for each Module;			
		HISADSE02T:- I- V	HISADSE02T:- Nationalism in Indochina,	HISADSE02T: - 18 Lectures			

			Burma, British Malaya and Decolonization etc.	for each Module;			
	General	5th Semester General DSE (HISGDSE01 T):- Module I- VII	5th Semester General DSE:- Feudalism, Renaissance, European Reformation, Beginning of the era of colonization, Industrial Revolution in England etc;	5th Semester General DSE:- Approx. 13 Lectures for each Module;			
	GE	GE1 Course HISGGECO1T: - Module I- IV	GE Course:- History of Indian Journalism:- Colonial and Post Colonial Period.	No student opted for this course in this session.			

Even semester

2nd Semester (Syllabus based on NEP 2020)	Hons.	Hons. DS 2 (History Major):- Module I- VII[students have the option to choose either Greece- Module IV	Hons. DS 2:- Human Evolution, Bronze Age Civilization in Mesopotamia; debate on advent of iron; Greece/ Rome etc.	15 lectures for each Module in DS2 (History Dept. of HMMCW adopted Greece option so in	DR. Sreyasi Ghosh (SG), DR. Madhumita Mondal (MM2), Smt. Ranjana Banerjee (RB), Smt. Maitrayee	Expected to be completed by June 2024	2 nd Semester Hons. SEC Project related to Understanding Indian Art (supervised by DR. Sreyasi Ghosh and Smt. Aatreyee
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		and V or Rome- Module VI and VII]		DS2 applicable Modules- I-V			
		Hons. SE-2 Module I-V	Hons. SE-2 :- Prehistoric and protohistoric Art, Harappan art and crafts; temple forms; Delhi Sultanate and Mughal Architecture and paintings, Modern and Contemporary Indian art etc.	Approx. 11 lectures for each Module of SE-2	Mukherjee (MM), Smt. Monjila Khatun (MK) and Smt. Aatreyee Bhattacharyya (AB).		Bhattacharyya)
	General	General/ History Minor (MA-2) Module I-VI	2 nd Sem General:- Guptas, Harsha, South India; Rajput states in Northern India; Arabs in Sindh; establishment of Delhi Sultanate etc.	Approx. 12 lectures for each Module of MA-2 (History Minor).			

4th Semester (CBCS)	Hons.	Hons. Core 8 – Module I – VII	Core 8 :- 17 th century European crisis, The English Revolution , rise of modern Science, the American Revolution and prelude to the Industrial Revolution etc.	Core 8 :- 13 Lectures approx. for each Module;	DR. Sreyasi Ghosh (SG), DR. Madhumita Mondal (MM2), Smt. Ranjana Banerjee (RB	Expected to be completed by May 2024	NIL
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		Core 9 –Module I – VI	Core 9 :- Establishment and consolidation of the Mughal empire, Mughal art and Regional Politics etc.	Core 9 :- 15 Lectures for each Module;			
		Core 10 – Module I – VI	Core 10 :- Foundations of Company’s Rule, rural economy and society, Renaissance, Popular Resistance etc.	Core 10 :- 15 Lectures for each Module;			
	General	4 th Semester General:- Module I- IX	4 th Semester General:- emergence and consolidation of colonial power, 1857 Uprising, colonial economy, socio-religious movements in the 19 th century, Gandhian nationalism, Partition of India and advent of Freedom etc.	4 th Semester General:- 10 Lectures for each Module.), Smt. Maitrayee Mukherjee (MM), Smt. Monjila Khatun (MK) and Smt. Aatreyee Bhattacharyya (AB).		
	SEC	SEC 2 :-Module I – V	SEC 2 :- Harappan art, art under the Delhi Sultanate and the Mughal era, Modern art				4 th Semester SEC Project on theme related to Understanding Indian Art (Supervised by DR. Sreyasi Ghosh).

6th Semester (CBCS)	Hons.	Hons. Core 13:- Module I- VI	Core 13:- The Nehru era, Partition and riots, Indian democracy at work, economy, society and culture (1950s- 1970s).	Core 13:- 15 Lectures for each Module;	Same as Above	Expected to be completed by May 2024	NIL
		Core 14- Module I- VI	Core 14:- Trends in World Politics (1919 CE – 2001 CE).	Core 14:- 15 Lectures for each Module;			
		HISADSE04T:- Module I- VI	HISADSE04T:- History of Modern East Asia I (1839 CE – 1919 CE)	HISADSE04T:- 15 Lectures for each Module;			
		HISADSE05T:- Module I-VI	HISADSE05T:- History of Modern East Asia II(1919 CE – 1939 CE) ;.	HISADSE05T:- 15 Lectures for each Module;			
	General	6th Semester General DSE (HISGDSE04 T)- Module I- VIII	6th Semester General DSE:- The French Revolution, Unification of Germany and Italy , World War I , W.W. II etc	HISGDSE04T:- Approx. 12 Lectures for each Module;			
	GE	GE2:- Module I- VI	GE2:- Some Perspective s of Women’s Rights in India.	No student opted here.			

Department of Psychology

Session: 2023-24 (ODD SEM)

Semester-I

<u>Semester</u>	<u>(Major /Minor)</u>	<u>Syllabus Module/Unit</u>	<u>Topic</u>	<u>No. of lectures (Hours)</u>	<u>Teachers</u>	<u>Distribution</u>	<u>Project/ Student Seminar(if any)</u>
1st Semester(NEP)	Major (DSC)	PSYDSC101T: INTRODUCTION TO PSYCHOLOGY	Unit1: Introduction	10	AM & SC	September,23	
			Unit2: a) Sensation b) Attention c) Perception	20	Extension Lecture by PB PB AM	October- November,23	
			Unit3: Principles of Learning	15	RC	September,23	
			Unit4. Memory	15	SM	December,23	
		PSYDSC101P	1. Experiment on Attention	15 hours	RC	Oct- Dec,23	
			2. Experiment on Memory		AD		

		PSYSE1 (SEC)	Stress Management	38 Hrs.	SC	Oct- Dec,23	Project on Stress Management
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Semester -III

Semester	(Major /Minor)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar (if any)
3rd Semester CBCS	Core Courses	<u>PSYACOR05T</u> UNIT 1:	a.Basics of Research in Psychology b, Qualitative Vs Quantitative	8	R.C SM, SL	July 23-September, 23	
		UNIT 2	Conducting Experiment	14	AM	August,23-September, 23	
		UNIT 3	Non-Experimental Research	8	SL,RCj	October,23-November, 23	
		UNIT 4	Standardization of Psychological Test	8	AM	September, 23-November, 23	
			<u>PSYACOR05P:</u> Experiment/ test based on Group Data Analysis Focused Group Discussion	4 hours/week 4 hours/week	AM A.D	September, 23-December, 23 December, 23-February,24	
			Unit1: Understanding Psyche	06	PB	September, 23-October,23	

		<u>PSYACOR06T:</u>	Unit2 Positivist Orientation	12	Extensi on Lecture by PB	September, 23- October,23	
			Unit3:Psychoana lytic Orientation	15	SM	September , 23- October,23	
			Unit:4 Feminism & Social Construction	4	SC	January,24	
		<u>PSYACOR06P</u>	Defense Style Questionnaire (DSQ)	4 hour s/ wee k/ batc h	RC	November , 23- January,24	
			Beck Depression Inventory (BDI-II)		AM		
		<u>PSYACOR07T</u>	Unit-1 Psychology of the Social	15	AD	July,23- August,23	
			Unit-2 Understanding the social world	15	SM, SC	December, 23- January,24	
			Unit-3 Social Interaction and Influence	15	RC,SL	December, 23- January,24	
			Unit-4 Group Dynamics and inter-group relations	15	AM,SC	November , 23- January,24	

		<u>PSYACOR07P</u>	1. Attitude	4 hours/week	SM	September, 23- November, 23	
			2. Prejudice	4 hours/week	RC	November, 23- January, 24	
		SEC	1. Introduction to stress 2. Stress and Health		RC	January to February, 24	
			3. Managing Stress I 4. Managing Stress II				

SEM-V

Semester	(Minor /Major)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar(if any)
5th Semester CBCS	Core Course	<u>PSYACOR11T:</u> UNDERSTANDING PSYCHOLOGICAL DISORDERS	1) Understanding Psychopathology	10	S.M.	August- September, 23	
			2) Anxiety Disorders and Obsessive Compulsive and Related Disorders	20	A.M., RCj, SL	September- October, 23	
			3) Somatic symptoms and related disorders	15	R.C.	November - December, 23	
			4) Substance Related and Addictive Disorders	15	S.M.	August- September, 23	
		<u>PSYACOR11P</u>	1) Medico Psychological Questionnaire	4 hours/week	A.D.	August- September, 23	
			2) Perceived Stress Scale			September	

					S.M	r- October,2 3	
		PSYACOR12T ORGANIZATION BEHAVIOUR	1) Industrial and Organizational Psychology	10	SC	July- August,23	
			2) Individual's Attitudes; Job Satisfaction; Work Motivation	14	A.M.	Septembe r- October,2 3	
			3) Human Resource Practices	8	S.M.	November - December ,23	
			4) Training	12	Extensio n Lecture by P.B.	August- Septembe r,23	
		PSYACOR12P	1) Organizational Commitment Scale	4 hours / week	A.M.	Septembe r- October,2 3	
			2) Work Life Balance Scale		R.C.	August- Septembe r,23	

Semester	(Major /Minor)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar(if any)
5th Semester CBCS	ELECTIVE: DISCIPLINE SPECIFIC DSE for Hons.	PSYADSE01T: CLINICAL PSYCHOLOGY	1) Models of Psychopathology- Psychodynamic, Cognitive- behavioural, Stress diathesis Model.	12	S.M.	September- October,23	
			2) Overview of Personality disorders and Clusters.	10	R.C.	October- November,23	
			3)Schizophrenia Spectrum Disorders	20	A.M.	October- November,23	
			4) How to	15		October-	

			reach a diagnosis; Differential diagnosis; Clinical Assessment- Introduction to methods (specific for assessment and diagnostic Purpose) and diagnostic tools.		R.Cj.	November,23	
			PANSS- Positive and Negative Syndrome Scale	4 hours/ week	R.C.	October- December ,23	
		<u>PSYADSE03T:</u>	Introduction	10	A.D.	October- November,23	
		<u>Health and Wellbeing</u>	Stress and Health Behaviour	10	S.C.	October- November,23	
			Positive Psychology	20	P.B.	October- November,23	
			Happiness Wellbeing & Applications	20	P.B.,SL.	October- November,23	
		<u>PSYADSE03P:</u>	Progressive Muscle Relaxation	4 hours/ week	S.M.	October- December,23	

(EVEN SEMESTER)

Semester –II

Semester	(Major/Minor)	Syllabus Module/Unit	Topic	No. of lectur es (Hours)	Teachers	Distribution	Project/ Student Seminar(if any)
NEP 2ndSeme ster	Major	<u>PSYDSC202T</u> <u>(Developmental Psychology)</u>	Unit1: Introduction a) Concept b) Nature and Nurture	15	RC, SL	April- June,24	
			Unit2: Domains of Human Development I a) Prenatal	15		April-	

			Development b) Physical Development c) Cognitive Development d) Language Development		SM AD AM AD	June,24	
			Unit3: Domains of Human Development II a) Emotional Development b) Moral Development c) Social Development	15	SM SL RC	April- May,24	
			Unit4: Socio-Cultural Contexts for Human Development a) Family & Parenting Style b) Peers & Schooling	15	AM	May- June,24	
		<u>PSYDSC202P</u>	1) Attachment Style Questionnaire	15 Hours	AD	April-June ,24	
			2) Family Environment Scale		SL		
		PSY SE-2: Disability Mapping	Unit1: Concept of Intelligence and Types	36 Hours	SC	April-June ,24	
			Unit2: Concepts of Social Development and Domains				
			Unit3: Concepts of Intellectual Disability				

SEMESTER IV

Semester	(Major /Minor)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar(if any)
4th Semester (CBCS)	Hons	<u>PSYACOR08T</u> (Statistical Methods for Psychological Research – II)	1) Concept and computation of 't' & 'z' test	20	SM	March- April ,24	
			2) Concept of ANOVA & Computation of One way ANOVA	21	SL	April - May,24	
			3) Non parametric tests :	19	AD	April -	

			Chi square, Mann Whitney U test, Wilcoxon Sign Rank Test			May,24		
		<u>PSYACOR08P</u>	Introduction to SPSS/R	4 hours/ week/ batch	AM	April-May,24		
		<u>PSYACOR09T</u> (Developmental Psychology)	Unit1: Introduction a) Concept b) Role	8	RC, SL	March,24		
			Unit2: Domains of Human Developmentl a)Prenatal	6	RC	May-June,24		
			b)Physical	4	SL	May,24		
			c)Cognitive	6	SM	March,24		
			d)Language	6	AD	April,24		
			Unit 3: Domain II a)Emotional	6	AM	March,23		
			b) Moral	6	SL	April,23		
			c) Social	6	AM	April,23		
			Unit 4: Socio-Cultural Contexts	12	SM	May-June,24		
			<u>PSYACOR09P</u>	1) Attachment Style Questionnaire	4 hours/ week/ batch	AD,	April-May,24	
				1) Gender Role Identity		SL		
		<u>PSYACOR010T</u>	1) Introduction	10	PB	May-June,24		
				2) Applying Social Psychology I Environment, Diversity	10	AM	March-April,24	

			3) Applying Social Psychology II Work, Health, Legal System	12	PB	April- June,24	
			4) Intervention and evaluation : Impact Analysis,	8	A.D.	April- June,24	
		<u>PSYACOR010P</u>	1) Group Influence	4 hours/ week/ batch	SM	April- May,24	
			2) Group Cohesiveness		RC		

SEMESTER -VI

Semester	(Major /Minor)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar (if any)
6th Semester (CBCS)	Hons	<u>PSYACOR13T:</u> Understanding And Dealing With Psychological Disorders	Schizophrenia: Clinical Picture, causal factors and subtypes	10	AD	March - April,24	
			Mood Disorders: Clinical Picture, causal factors and subtypes; suicide	12	A.M	March - April,24	
			Substance Related Disorder	5	S.M.	April,24	
			Sexual Disorders (Overview): Gender Identity Disorder, Paraphilia - Pedophilia, Voyeurism, Exhibitionism, Sexual Masochism, Sexual Sadism	6	R.C	May- June,24	
		<u>PSYACOR13P</u>	1) Scale on Expressed Emotion 2)ASIQ	4 hours/ week/ batch	R.C A.M	Feb- May,24	
		<u>PSYACOR14T:</u> Counselling	1) Introduction Meaning and Goals		08		P.B

		Psychology	2) Similarities and differences between counselling and psychotherapy, Counselling Skills: Micro and Macro skills in counselling.	08	A.D.	June,24	
			3) Contemporary Trends- 1)Yoga.Meditation 2)Expressive Therapy-Art,Dance-moment, Music Therapy	10	S.M,	March - May,24	
			4) Counselling	05	S.L.	March-April,24	
		<u>PSYACOR14P:</u>	1) GZII	4 hours/ week/ batch	R.C.	April-May,24	
			2) DAT		S.L.		
	ELECTIVE: DISCIPLINE SPECIFIC DSE	<u>PSYADSE04T:</u> COMMUNITY & CROSS-CULTURAL PSYCHOLOGY	1) Introduction	12	A.D.	April-May,24	
			2) Health promotion & Intervention	10	S.M	March-April,24	
			3) Culture	08	PB	May-June,24	
			4) Intervention	04	SC	June,24	

		<u>PSYADSE04P:</u>	1) Quality of life 2) GHQ	4 hours/ week/ batch	A.M AD	March - April,24	
		<u>PSYADSE05T:</u> DEVELOPMENT	1) Contemporary Approaches	6	S.L. .	May, 24	

	AL PSYCHOLOGY CONTEMPORARY APPROACHES	2) Development of Identity	8	A.M	May- June,2 4	
		3) Critical Developmental Periods	12	R.C & S.C.	May- June,2 4	
		4)Developmental Disabilities and Interventions:	18	S.M & A.D.	April- May, 24	
		<u>PSYADSE05P:</u>	1) VSMS	4 hours/ week/ batch	S.M	April- June,2 4
			2) DST		S.M.	

Semester	(NEP/CBCS)	Internal Assessment (Tentative time)	University Examination
I	NEP	Internal Assessment	December, 2023 (Tentative)
III	CBCS	Internal Assessment	December,2023 (Tentative)
V	CBCS	Internal Assessment	November, 2024(Tentati ve)
II	NEP	Internal Assessment	June, 2024(Tentative)
IV	CBCS	Internal Assessment	June, 2024(Tentative)
VI	CBCS	Internal Assessment	June, 2024 (Tentative)

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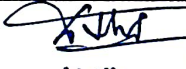
Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar (if any)
1 st Semester	Major	Unit-I	Functional Sanskrit	LEC+TU			
			Declension	10+2	Dibakanta Jha, Tanushree Chakraborty	1 st week of September to January	
			Conjugation	18+3	Dr. Dilip Panda	1 st week of September to January	
			Application of Avyayas	22+4	Dibakanta Jha	1 st week of September to January	
			Application of Adjectives	15+3	Dibakanta Jha	1 st week of September to January	
			Sentence Making	10+2	Tanushree Chakraborty	1 st week of September to January	

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			Voice	10+2	Dibakanta Jha	1 st week of September to January	
			Sentence Making	22+4	Dr. Dilip Panda	1 st week of September to January	
			Application of Kritpratayayas	22+2	Dr. Dilip Panda	1 st week of September to January	
			Translation	20+2	Dibakanta Jha, Dr. Dilip Panda	1 st week of September to January	
		Unit-II	Metre	20+2	Dibakanta Jha, Tanushree Chakraborty	1 st week of September to January	
1 st Semester	Minor	Unit-I	Declension	10+2	Tanushree Chakraborty	1 st week of September to January	
			Conjugation	18+3	Dibakanta Jha, Dr. Dilip Panda	1 st week of September to January	
			Application of Avyayas	10+2	Dr. Dilip Panda	1 st week of September to January	

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			Application of Adjectives	10+2	Dibakanta Jha	1 st week of September to January	
			Sentence Making	20+2	Tanushree Chakraborty	1 st week of September to January	
			Voice	20+2	Dibakanta Jha	1 st week of September to January	
			Sentence Making	22+4	Dr. Dilip Panda	1 st week of September to January	
			Application of Kritpratnyayas	22+2	Dr. Dilip Panda	1 st week of September to January	
			Translation	20+2	Dr. Dilip Panda, Tanushree Chakraborty	1 st week of September to January	
		Unit-II	Metre	20+2	Dibakanta Jha	1 st week of September to January	
3 rd Semester	Honours	CC5					


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		Section:A	Svapnavasav adattam	25+5	Dibakanta Jha	1 st week of Septem ber to January	
		Section:B	Abhijnasakun talam	50+1 0	Dr. Dilip Panda	1 st week of Septem ber to January	
		CC6					
		Section:A	Introduction to Sanskrit Poetics	10+2	Dr.Ardhendu Bikash Das	1 st week of Septem ber to January	
		Section:B	Forms of Kavya Literature	15+3	Tanushree Chakraborty	1 st week of Septem ber to January	
		Section:C	Sabda-Sakti and Rasa- Sutra	20+4	Tanushree Chakraborty	1 st week of Septem ber to January	
		Section:D	Alamkara and Chandasa	30+6	Dibakanta Jha	1 st week of Septem ber to January	
		CC7					
		Section:A	Indian Social Institutions: Nature and Concept	15+2	Tanushree Chakraborty	1 st week of Septem ber to January	

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		Section:B	Structure of Society and Value of Life Varna-System and Caste System	25+5	Dr.Dilip Panda	1 st week of September to January	
		Section:C	Indian Polity: Origin and Developmet	30+6	Dr.Ardhendu BikashDas	1 st week of September to January	
		Section:D	Cardinal Theories and Thinkers of Indian Polity	15+2	Dr.Ardhendu BikashDas	1 st week of September to January	
		GE3/DSC 3					
		Section:A	Svapnavasav adattam	25+5	Dr.Dilip Panda	1 st week of September to January	
		Section:B	Abhijnasakuntalam Section:B	50+10	Dibakanta Jha Tanushree Chakraborty	1 st week of September to January	
5 th Semester	Honours	CC11					
		Section:A	Samhita and Brahmana	25+5	Dibakanta Jha	1 st week of September to January	
		Section:B	Vedic Grammer	15+5	Dr.Dilip Panda	1 st week of September to January	

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		Section:C	Mundakopan isad	20+5	Dr.Dilip Panda	1 st week of Septem ber to January	
		CC12					
		Section:A	The Concept of the following Samjnas	4+1	Dr.Ardhendu Bikash Das	1 st week of Septem ber to January	
		Section:B	General introduction on Philology	8+2	Dr.Dilip Panda	1 st week of Septem ber to January	
		Section:C	Karakaprka nam: Vaiyakaranas iddhantakou mudi	25+5	Dr.Ardhendu Bikash Das	1 st week of Septem ber to January	
		Discipline Specific Elective1	Samasapraka ranam: Vaiyakaranas iddhantakou mudi	25+5	Dr.Ardhendu Bikash Das	1 st week of Septem ber to January	
		Discipline Specific Elective1	Veda & Vyakarana	30+5	Dibakanta Jha Dr.Dilip Panda	1 st week of Septem ber to January	
		Discipline Specific Elective 3	Kavya	30+5	Tanushree Chakraborty	1 st week of Septem ber to January	
		GE5/DSE 5					

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		SANGDSE 2T:	Kavirahasyam	30+5	Dr.Dilip Panda	1 st week of Septem ber to January	
		SANGDSE 2T:	Sahityadarpan a	25+5	Tanushree Chakraborty	1 st week of Septem ber to January	
	Generic Elective Course(N on Sanskrit Pass)	Section:A	Grammer & Composition : 1	15+5	Tanushree Chakraborty	1 st week of Septem ber to January	
		Section:B	Grammer & Composition : Part 2	20+5	Dr.Dilip Panda	1 st week of Septem ber to January	
		Section:C	Literature (Gita XII)	25+5	Dibakanta Jha	1 st week of Septem ber to January	

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Session:2023-2024


Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Student Seminar(if any)
2 nd Semester	Major	Unit-I	History of Sanskrit Literature	LEC+TU			
			Vedic Literature	10+2	Dibakanta Jha,	1 st week of May to July	
			Puranas	18+3	Tanushree Chakraborty	1 st week of May to July	
			Ramayana	22+4	Tanushree Chakraborty	1 st week of May to July	
			Mahabharata	15+3	Dr. Dilip Panda	1 st week of May to July	
		Unit-II	History of Classical Sanskrit Literature				
		History of Poetry Literature	10+2	Dr. Dilip Panda	1 st week of May to July		

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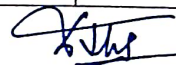
			History of Drsyakavyas	18+3	Tanushree Chakraborty	1 st week of May to July	
			Origin and development of prose, Important prose romance and fables	10+2	Dibakanta Jha	1 st week of May to July	
		Unit-III	History of Technical and Scientific Sanskrit Literature				
			General Introduction to Vyakarana	20+2	Dr. Dilip Panda	1 st week of May to July	
			General Introduction to Darsana	20+2	Dr. Dilip Panda	1 st week of May to July	
			General Introduction to Poetics	22+4	Tanushree Chakraborty	1 st week of May to July	
			General Introduction to Scientific Literature	22+2	Dibakanta Jha	1 st week of May to July	
		SEC-II	Comprehension Test	20+2	Dibakanta Jha	1 st week of May to July	
			Translation	20+2	Dibakanta Jha	1 st week of May to July	


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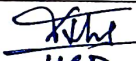
			Paragraph Writing		Tanushree Chakraborty	1 st week of May to July	
			Letter Writing	25+5	Dr. Dilip Panda	1 st week of May to July	
2 nd Semester	Minor	Unit-I	History of Sanskrit Literature	LEC+ TU			
			Vedic Literature	10+2	Dibakanta Jha,	1 st week of May to July	
			Puranas	18+3	Tanushree Chakraborty	1 st week of May to July	
			Ramayana	22+4	Tanushree Chakraborty	1 st week of May to July	
			Mahabharata	15+3	Dr. Dilip Panda	1 st week of May to July	
					Unit-II	History of Classical Sanskrit Literature	
			History of Poetry Literature	10+2	Dr. Dilip Panda	1 st week of May to July	
			History of Drsyakavyas	18+3	Tanushree Chakraborty	1 st week of May to July	


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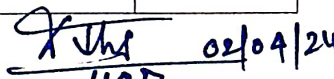
			Origin and development of prose, Important prose romance and fables	10+2	Dibakanta Jha	1 st week of May to July	
		Unit-III	History of Technical and Scientific Sanskrit Literature				
			General Introduction to Vyakarana	20+2	Dr. Dilip Panda	1 st week of May to July	
			General Introduction to Darsana	20+2	Dr. Dilip Panda		
			General Introduction to Poetics	22+4	Tanushree Chakraborty	1 st week of May to July	
			General Introduction to Scientific Literature	22+2	Dibakanta Jha	1 st week of May to July	
4 th Semester	Honours	CC8					
		Section:A	Epigraphy	25+5	Dibakanta Jha	1 st week of May to July	
		Section:B	Paleography	50+10	Dr. Dilip Panda	1 st week of May to July	
		Section:C	Study of	20+2	Dr. Dilip Panda	1 st week	


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			selected inscriptions			of May to July	
		Section: D	Chronology	10+2	Tanushree Chakraborty	1 st week of May to July	
		CC9					
		Section: A	Survey of Modern Sanskrit literature in Bengal	20+4	Tanushree Chakraborty	1 st week of May to July	
		Section: B	(Gadyakavya and Rupaka) Sivarajavijayam	30+6	Dibakanta Jha	1 st week of May to July	
		Section: B	(Gadyakavya and Rupaka) Bharatavivekam	30+6	Dibakanta Jha	1 st week of May to July	
		Section: B	(Gadyakavya and Rupaka) Chipitakacharvanam	30+6	Dr. Dilip Panda	1 st week of May to July	
		CC10					
		Section: A	Sanskrit studies in West	20+4	Tanushree Chakraborty	1 st week of May to July	
		Section: B	Sanskrit studies in East	10+2	Dr. Dilip Panda		
			Spoken Sanskrit &	22+2	Dr. Dilip Panda	1 st week of	


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		Section: A	Vibhaktyartha ,Voice and Krt	25+5	Tanushree Chakraborty	1 st week of May to July	
		Section: B	Translation and Commucation	20+2	Dibakanta Jha	1 st week of May to July	
		Section: C	Essay	20+4	Dibakanta Jha	1 st week of May to July	
Discipline Specific Elective 4		i) Vedic culture & Vedic studies in West Bengal		22+5	Dibakanta Jha	1 st week of May to July	
		ii) Computational linguistics		15+3	Dr. Dilip Panda	1 st week of May to July	
		iii) Vaidika Vyakhyapaddhati		25+2	Dr. Dilip Panda	1 st week of May to July	
		iv) Bhattikavyam		25+5	Dr. Dilip Panda	1 st week of May to July	
Discipline Specific Elective 6		i) Kavyalankara sutravritti		10+2	Tanushree Chakraborty	1 st week of May to July	
		ii) Bhattikavyam		10+2	Dr. Dilip Panda	1 st week of May to July	
6 th Semester	General	Discipline Specific Elective 1B					


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		i) Computational Linguistics	10+2	Dr. Dilip Panda	1 st week of May to July	
		ii) Kavyalankaras utravritti	10+2	Dibakanta Jha, Tanushree Chakraborty	1 st week of May to July	
Generic Elective Course (Non Sanskrit Pass)						
	Section-A	Vedic Literature	20+4	Dibakanta Jha	1 st week of May to July	
	Section-B	Ramayana	30+6	Tanushree Chakraborty	1 st week of May to July	
	Section-C	Mahabharata	10+2	Tanushree Chakraborty	1 st week of May to July	
	Section-D	Puranas	10+2	Tanushree Chakraborty	1 st week of May to July	
	Section:E	General introduction to Vyakarana, Daršana and Sahityasastra	18+3	Dr. Dilip Panda	1 st week of May to July	


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HIRALAL MAZUMDAR MEMORIAL COLLEGE FOR WOMEN

DAKSHINESWAR, KOLKATA – 700 035 ★ TEL: 2564 5148

ACADEMIC CALENDAR SUBJECT- MDC LIFESCIENCE (PHYSIOLOGY) SESSION- 2023-2024

S E M E S T E R	MDC (PAPER CODE)	SYLLABUS MODULE / UNIT	NO. OF HRS	TEACHER	DISTRI BUTION	PROJ ECT/ STUD ENT SEMIN AR (IF ANY)
I	MDC 1	COMMUNITY HEALTH EDUCATION: Community health: Basic ideas, categories & importance. Community health education: Basic idea, objectives, & strategies. Concept of health & diseases: Definition, determinants of health. Concept of diseases: Pathogenesis, risk factors, concept of control. Epidemiology: Definition, Aims, Basic measurements. Brief idea about Communicable & non-communicable diseases. Firsthand management in burn & fracture. Brief idea about Vaccination programme.	3	MS	AUGUST '23	

I	MDC 2	<p>MANAGEMENT OF NON-COMMUNICABLE DISEASES:</p> <p>Non-communicable diseases: Definition & basic ideas.</p> <p>Screening for common non-communicable disease: Methods & Equipment required for screening. Risk factors for non-communicable diseases.</p> <p>Health promotion: In school, families & communities.</p> <p>Management of non-communicable diseases: Role of ASHA & ANM, Role of physical activity - Yoga & Meditation, By controlling Tobacco & Alcohol.</p> <p>Common non-communicable diseases: Definition, consequences, risk factors, screening, diagnosis & management for Hypertension, Overweight & Obesity, Diabetes Mellitus, Cardiovascular disease (Heart attack & stroke), Common cancers (Oral cancer).</p>	3	MS	SEP'23	
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I	MDC 3	<p>PHYSIOLOGICAL & NUTRITIONAL THERAPEUTICS:</p> <p>Therapeutic nutrition: Introduction & Basic ideas.</p> <p>Therapeutic adaptation of normal diet. Progressive diets: clear fluid, full fluid, soft & regular.</p> <p>Balanced diet & food groups. Basic idea about meal planning. Recommended Dietary Allowances (RDA). Principle of therapeutic diet, Therapeutic adaptation of normal diet, Water purification, Food sanitation & hygiene.</p> <p>Concept of malnutrition. Importance of dietary fibers,</p> <p>Etiology, clinical features, diagnosis & nutritional management of food allergy & food intolerance. Diet in Constipation, Diarrhea, Diabetes, Renal failure, Cancer.</p>	3	MS	OCT'23 TO NOV'23	
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DAKSHINESWAR, KOLKATA – 700 035 ★ TEL: 2564 5148

ACADEMIC CALENDAR						
SUBJECT- PHYSIOLOGY MINOR						
SESSION- 2023-2024						
SEM	GENERAL (PAPER CODE)	SYLLABUS MODULE / UNIT	NO. OF HOURS	TEACHER	DISTRIBUTION	PROJECT/ STUDENT SEM (IF ANY)
I	MA1T	Body Fluids: Introduction to Blood : Composition & Functions of Blood Components Dynamics of Flow, Hemostasis : Factors, Mechanism, Anticoagulants Hemoglobin: Structure, Biosynthesis, Functions , Types, Hemoglobin Compounds & Derivatives. Erythropoiesis, Leucopoiesis, Thrombocytopoiesis. Blood Groups (Rh & ABO) Blood Preservation Blood Transfusion Anaemia Anatomic Considerations: artery, vein, capillaries. Lymph: Formation, Composition, Functions, Lymphatic Circulation & Interstitial Fluid Volume.	15	MS	JULY'23 TO SEPTEMBER'23	



I	MA1T	<p>Cardiac Physiology:</p> <p>Anatomy of Heart. Electrical Activity of the heart: Electrocardiogram, Cardiac Arrhythmias, Hypertrophy and Cardiomyopathy. Cardiac Cycle, Cardiac Output. Cardiovascular regulatory Mechanisms: Local, Hormonal, Neural. Circulation through Special Regions: Coronary, Cutaneous, Placental & Fetal Circulation.</p>	15	DM	AUGUST'23 TO SEPTEMBER'23 & NOVEMBER'23	
I	MA1T	<p>Respiratory Physiology:</p> <p>Anatomy of Respiratory tract and Lungs. Pulmonary Function: Mechanics of breathing, Gas Exchange in the lungs & tissues, Pulmonary Circulation, Other Functions of the Respiratory System. Oxygen & Carbon Dioxide Transport, Respiratory acidosis and alkalosis. Neural & Chemical Regulation of Respiration: Adjustments in Health & Disease: Artificial Respiration., Hypoxia, Hypocapnia, Hypercapnia</p> <p>Theory Internal Class Test</p>	15	MS	OCTOBER'23 TO DECEMBER'23	
			1	MS	DECEMBER'23	



I	MA 1P	<p>Study and Identification of Stained Sections of Different Mammalian Tissues and Organs- Artery, Vein, Cardiac Muscle, Trachea, Lungs.</p> <p>Blood Film Preparation & Identification of Blood Cells; Determination of Blood Group VIVA- Differential count of WBC. Total count of RBC and WBC.</p> <p>Sphygmomanometric measurement of arterial blood pressure at rest. Modified Harvard step test and determination of physical fitness. Measurement of</p>	15	MS	JULY'23 TO AUGUST'23	
			15	MS	SEPTEMBER'23 TO OCTOBER'23	
			15	MS	NOVEMBER'23	

	<p>oxygen saturation by pulseoximeter before and after exercise. Measurement of peak expiratory flow rate.</p> <p>VIVA- Pneumographic recording of effects of talking, drinking, laughing, coughing, exercise, hyperventilation and breath - holding; Study of Kymograph and its accessories. Kymographic Recording of effects of warm and cold saline on unperfused heart of toad; E.C.G. ; Determination of Bleeding Time & Clotting Time; CPR</p>	15		DECEMBER'23	
	<p>Practical Internal Assessment</p>	1		DECEMBER'23	



		ACADEMIC CALENDAR SUBJECT- PHYSIOLOGY GENERAL (GE/ DSC/DSE) SESSION- 2023-2024				
III	PHYGCO R03T	Nerve & Muscle	20	MS	JULY'23 TO AUGUST'23	
III	PHYGCO R03T	Special Senses	15	MS	SEPTEMBER '23	
III	PHYGCO R03T	Nervous System	25	MS	OCTOBER '23 TO NOVEMBER '23	POSTER/ PPT
		Theory Internal Assessment	1	MS	DECEMBER'23	
III	PHYGCO R03P	Identification of Skeletal Muscle, Cardiac Muscle and SmoothMuscle	15	MS	JULY'23 TO AUGUST'23	
III	PHYGCO R03P	Determination of ColourVision	15	MS	SEPTEMBER '23	
III	PHYGCO R03P	Determination of Visual Acuity	15	MS	OCTOBER'23	
III	PHYGCO R03P	Measurement of Grip Strength	15	MS	NOVEMBER'23	
		Practical Internal Assessment	1	MS	DECEMBER'23	



V	PHYGDS E02T	Importance of Regular Exercise in health and wellbeing Basic concept of Bioenergetics Energy sources during exercise Cardiorespiratory responses during different grades of exercise	15	MS	JULY'23	
V	PHYGDS E02T	Concept of EPOC Physiological Fatigue and recovery Aerobic Work Capacity	15	MS	SEPTEMBER' 23	
V	PHYGDS E02T	Principles of Physical Training Training to improve aerobic and anaerobic power Effect of Overtraining and Detraining	15	MS	OCTOBER'23	POSTER / PPT
V	PHYGDS E02T	Nutritional Supplements and Ergogenic Aids Sports Injury and its Management Basic idea of Sports rehabilitation and Sports Medicine Theory Internal Assessment	15 1	MS MS	NOVEMBER'23 DECEMBER'23	



V	PHYGDSE 02P	Measurement of blood pressure before and after Exercise. Recording of Recovery Pulse Rate after Standard Exercise	15	MS	JULY'23 TO AUGUST'23	
V	PHYGDSE 02P	Queen's College Step Test Six Minutes Walk Test	15	MS	SEPTEMBER'23	
V	PHYGDSE 02P	Measurement of Body Fat Percentage	15	MS	OCTOBER'23	
V	PHYGDS E02P	Determination of Endurance Time by Handgrip Dynamometer Practical Internal Assessment	15 1	MS MS	NOVEMBER '23 DECEMBER'23	
I, III, V	MA1T MA 1P PHYGCO R03T PHYGCO R03P PHYGDS E02T PHYGDS E02P	WBSU EXAM	-	-	DECEMBER '23	



		ACADEMIC CALENDAR SUBJECT- PHYSIOLOGY MINOR SESSION- 2023-2024				
II	MA 2T	Physiological Chemistry: Classification, Structure, Properties and Functions of Carbohydrates, Proteins. lipids, DNA and RNAs, Enzymes. Coenzymes, Cofactor, Prosthetic Groups. Mechanism of enzyme action. Michaelis-Menten equation, Hyperbolic kinetics, Enzyme Inhibition. Factors regulating enzyme activities. Isoenzymes, Allosteric enzymes, Ribozymes, Abzymes, Rate limiting enzymes.	15	DM	JANUARY'24 TO MARCH'24	
II	MA 2T	Gastrointestinal and Nutritional Physiology: Anatomy of Gastrointestinal tract. Digestion & absorption, Regulation of Gastrointestinal Function. Gastrointestinal hormones, Exocrine Functions. Introduction to Nutrition.	10	MS	JANUARY'24 TO FEBRUARY'24	



		<p>Relationship between nutrition, health & disease. BMR, RQ, RDA, SDA, NPU, Biological value of proteins. Vitamins. Minerals. Calorie requirement. Balanced diet, ACU, Nutritional classification, Digestive absorption; Composition and nutritional value of common Indian foodstuff, RDA</p> <p>Metabolism of carbohydrates, proteins and lipids.</p>	5	DM	APRIL'24 TO MAY'24	
II	MA 2T	<p>Excretion:</p> <p>Anatomy & Function of Renal System. Micturition. Counter-current mechanism, Renal Circulation, Non-excretory function of kidney. Other excretory organs: Skin, Liver, Large intestine, and Lungs.</p>	15	MS	MARCH'24 TO APRIL'24	
II	MA 2P	Theory Internal Class Test	1	MS	MAY'24	
II	MA 2P	Qualitative tests for the identification of physiologically important substances: hydrochloric acid, lactic acid, uric acid, glucose, galactose,	10	MS	JANUARY'24 TO FEBRUARY'24	



	<p>fructose, sucrose, lactose, albumin, gelatin, peptone, starch, dextrin, urea, glycerol, bile salts.</p>				
	<p>Diet survey, Quantitative estimation of glucose and sucrose and lactose by Benedict's method.</p>	5	MS	MARCH'24	
	<p>Study and identification of stained sections of different mammalian tissues and organs - tongue, salivary glands, esophagus, stomach, duodenum, jejunum, ileum, large intestine, liver, pancreas, kidney.</p>	10	MS	APRIL'24	
	<p>Identification of normal and abnormal constituents of urine. Quantitative estimation of amino nitrogen [Sorensen's formol titration method (percentage as well as total quantity)].</p>	5	MS	MAY'24	



II	MA 2P	Practical Internal Assessment	1	MS	MAY'24	
		ACADEMIC CALENDAR SUBJECT- PHYSIOLOGY GENERAL (GE/ DSC/DSE) SESSION- 2023-2024				
IV	PHYGCO R04T	Endocrinology Reproduction	15 15	MS MS	JANUARY'24 TO FEBRUARY'24	
	PHYGCO R04P	Identification of Stained Sections of Different Mammalian Tissues & Organs	30	MS	JANUARY'24 TO FEBRUARY'24	
IV	PHYGCO R04T	Endocrinology Reproduction	15 15	MS MS	MARCH '24 TO APRIL'24	POSTER/PPT
	PHYGCO R04P	Identification of Stained Sections of Different Mammalian Tissues & Organs	30	MS	MARCH'24 TO APRIL'24	
		Theory & Practical Internal Assessment	2	MS	MAY'24	



VI	PHYGDS E03T	<p>Nutritional Classification, Digestive Absorption, Metabolism of Carbohydrates, Proteins, Lipids.</p> <p>Sound Pollution as a community health issue.</p> <p>Principles of Human Nutrition- Relationship between Nutrition, Health & Disease.</p> <p>Recommended Dietary Allowances, Malnutrition & Chronic Energy, LBW, PEM, Xerophthalmia, IDD, Iron & Iodine Deficiency, Micronutrient Disorders. Food Toxicity, Effect of Processing on Nutritive value of foods.</p> <p>Balanced Diet, Diet Survey, Concept of ACU. Composition & Nutritional Value of Common Indian Foodstuff- Rice, wheat, pulses, egg, meat, fish, milk, Dietary Fibres, Calorie Requirement Principles of Formulation of Balanced diets for growing child, adult man</p>	10	DM	JANUARY'24 TO MARCH'24	
			10	MS	JANUARY'24 TO MARCH'24	
			10	MS	JANUARY'24 TO MARCH'24	



		& woman, pregnant and lactating woman				
VI	PHYGDS E03T	<p>Definition, Concept of Noise.</p> <p>Source if Extraordinary Sound.</p> <p>Effects of Sound Pollution on Human Health, Noise Index (Noise Standard).</p> <p>Socioecology of Nutrition. Habitual diets in India & their adequacy.</p> <p>Basic idea about community health and public health issues.</p> <p>Diet Management of Obese, Diabetic, Hypertensive Person and Athlete.</p> <p>Basic Idea on PCM, Marasmus, Kwashiorkor and their prevention.</p> <p>Theory Internal Assessment</p>	10	DM	APRIL'24	POSTER/PPT
			10	DM	MAY'24	
			10	MS	APRIL'24 TO MAY'24	
			1	MS	MAY'24	
VI	PHYGDS E03P	Diet Survey	30	MS	JANUARY'24 TO MARCH'24	
VI	PHYGDS E03P	Qualitative Assessment of Noise.	30	DM	APRIL'24 TO MAY'24	



		Practical Internal Assessment	1	MS	MAY'24	
II, IV, VI	PHYGCO R02T PHYGCO R02P PHYGCO R04T PHYGCO R04P PHYGDS E03T PHYGDS E03P	WBSU EXAM			JUNE'24	

Semester	(Minor /General)	Internal Assessment(Ten tative time)	University Examination
I	Minor	DECEMBER'23 (THEORY & PRACTICAL)	DECEMBER'23
III	GENERAL	DECEMBER'23 (THEORY& PRACTICAL)	
V	GENERAL	DECEMBER'23 (THEORY& PRACTICAL)	
II	Minor	MAY'24 (THEORY & PRACTICAL)	JUNE'24
IV	GENERAL	MAY'24 (THEORY & PRACTICAL)	
VI	GENERAL	MAY'24 (THEORY & PRACTICAL)	



Academic Calendar-2023-24
(Odd Semester)
[July2023-December-2023]

Department: Physics

Semester/ Year	Syllabus Module/Unit	No of Lectures	Name of Teacher	Distribution
I (NEP) (Minor 1) Mechanics (Theory)	Vectors Vectors: Vector algebra. Scalar and vector products. Derivatives of a vector with respect to a parameter. Ordinary Differential Equations: 1 st order homogeneous differential equations. 2 nd order homogeneous and inhomogeneous differential equations with constant coefficients.	10	PPP	
	Particle Dynamics Laws of Motion: Frames of reference. Newton's Laws of motion. Dynamics of a system of particles. Centre of Mass. Momentum and Energy: Conservation of momentum. Work and energy. Conservation of energy. Motion of rockets. Rotational Motion: Angular velocity and angular momentum. Torque. Conservation of angular momentum.	14	PPP	
	Gravitation Gravitation: Newton's Law of Gravitation. Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant). Kepler's Laws (statement only). Satellite in circular orbit and applications. Geosynchronous orbits. Weightlessness.	7	PPP	
	Oscillations Differential equation of SHM and its solutions. Kinetic and Potential Energy, Total Energy and their time averages. Damped oscillations. Forced harmonic oscillations, resonance.	6	PPP	

	Elasticity			
	Hooke's law - Stress-strain diagram - Elastic moduli-Relation between elastic constants - Poisson's Ratio-Expression for Poisson's ratio in terms of elastic constants - Work done in stretching and work done in twisting a wire - Twisting couple on a cylinder - Determination of Rigidity modulus by static torsion – Page 78 Torsional pendulum.- Bending of beam.	8	PPP	
III (PHSGCOR03 T) Thermal Physics and Statistical Mechanics	Laws of Thermodynamics	22	PPP	
	Thermodynamic Description of system: Zeroth Law of thermodynamics and temperature. First law and internal energy, conversion of heat into work, Various Thermodynamical Processes, Applications of First Law: General Relation between CP and CV, Work Done during Isothermal and Adiabatic Processes, Compressibility and Expansion Coefficient, Reversible and irreversible processes, Second law and Entropy, Carnot's cycle & theorem, Entropy changes in reversible & irreversible processes, Entropy-temperature diagrams, Third law of thermodynamics, Unattainability of absolute zero.			
	Thermodynamic Potentials			
	Enthalpy, Gibbs, Helmholtz and Internal Energy functions, Maxwell's relations and applications - Joule-Thompson Effect, Clausius- Clapeyron Equation, Expression for (CP – CV), CP/CV, TdS equations.	10	PPP	
	Kinetic Theory of Gases			
Derivation of Maxwell's law of distribution of velocities and its experimental verification, Mean free path (Zeroth Order), Transport Phenomena: Viscosity, Conduction and Diffusion (for vertical case), Law of equipartition of energy (no derivation) and its applications to specific heat of gases; mono-atomic and diatomic gases.	10	PPP		
	Theory of Radiation			
Blackbody radiation, Spectral distribution, Concept of				

	<p>Energy Density, Derivation of Planck's law, Deduction of Wien's distribution law, Rayleigh- Jeans Law, Stefan Boltzmann Law and Wien's displacement law from Planck's law.</p> <p style="text-align: center;">Statistical Mechanics</p> <p>Phase space, Macrostate and Microstate, Entropy and Thermodynamic probability, Maxwell-Boltzmann law - distribution of velocity - Quantum statistics (qualitative discussion only) - Fermi-Dirac distribution law (statement only) - electron gas as an example of Fermi gas - Bose-Einstein distribution law (statement only) - photon gas as an example of Bose gas- comparison of three statistics.</p>	6	PPP	
		12	PPP	
V PHSGDSE02T - (Perspectives of Modern Physics)	Relativistic Dynamics-	08	PPP	
	Brief summary of Lorentz transformation and time dilation, length contraction, velocity addition etc. (no derivation required). Elastic collision between two particles as observed from two inertial frames with relative velocity, idea of relativistic momentum and relativistic mass. Mass-energy equivalence.			
	Quantum Theory of Light-	05	PPP	
	Review on the limitations of classical theory of electromagnetic radiation within a cavity and its solution by Planck's quantum hypothesis (no derivation required). Statement of Planck's law of black body radiation. Photoelectric effect. Einstein's postulate on light as a stream o photons. Compton's scattering and its explanation.			
	Bohr's Model-	04	PPP	
Limitations of Ruherford's model of atomic structure. Bohr's model, its successes and limitations.				
	Wave-Particle Duality-	06	PPP	
De Broglie's hypothesis – wave particle duality. Davisson-Germer experiment. Connection with Einstein's postulate on photons and with Bohr's quantization postulate for stationary orbits. Heisenberg's uncertainty relation as a consequence of wave-particle duality. Demonstration by γ -ray microscope thought experiment. Estimating minimum energy of a confined particle using uncertainty				

	<p>principle.</p> <p style="text-align: center;">Wave-function Description-</p> <p>Two slit interference experiment with photons, atoms & particles; linear superposition principle of associated wave functions as a consequence; Departure from matter wave interpretation and probabilistic interpretation of wave function; Schroedinger equation for non-relativistic particles; Momentum and Energy operators; stationary states. Properties of wave function. Probability and probability current densities in one dimension.</p> <p style="text-align: center;">Stationary State Problems-</p> <p>One Dimensional infinitely rigid box, energy eigenvalues and eigenfunctions, normalization; Quantum dot as an example. Quantum mechanical scattering and tunnelling in one dimension - across a step potential andPage 93 across a rectangular potential barrier (qualitative discussion with statements of end results only).</p> <p style="text-align: center;">Atomic Physics-</p> <p>Quantization rules energy and orbital angular momentum from Hydrogen and Hydrogen like atoms (no derivation); s, p, d,shells-subshells. Space quantization. Orbital Magnetic Moment and Magnetic Energy of electron, Gyromagnetic Ratio and Bohr magneton. Zeeman effect. Electron Spin as relativistic quantum effect (qualitative discussion only), Spin Angular Momentum. Spin Magnetic Moment. Stern-Gerlach Experiment. Larmor Precession. Spin-orbit interaction. Addition of angular momentum (statement only). Energy correction due to relativistic effect and spin-orbit interaction (statement only). Fine-structure splitting. Multi-electron atoms. Pauli's Exclusion Principle (statement only). Spectral Notations for atomic States. Aufbau principle, n+1 rule (qualitative discussion only). Periodic table.</p> <p style="text-align: center;">X-ray and Crystal Structure of Solids-</p> <p>Generation of X-ray. Mosley's law, explanation from Bohr's theory. Amorphous and crystalline solids. Lattice structure of crystalline (no categorisation required). Unit cell and basis vectors of a lattice. Diffraction of X-ray by crystalline solid. Bragg's law.</p>	07	PPP	
	05	PPP		
	15	PPP		

	Nuclear Physics			
	Size and structure of atomic nucleus and its relation with atomic weight; Impossibility of an electron being in the nucleus as a consequence of the uncertainty principle. Nature of nuclear force, NZ graph. Binding energy curve.	10	PPP	
	Radioactivity: stability of the nucleus; Law of radioactive decay; Mean life and half-life; Alpha decay, beta decay, gamma emission – basic characteristics. Fission and fusion- mass deficit, relativity and generation of energy; Fission - nature of fragments and emission of neutrons. Basic principle of a nuclear reactor: slow neutrons interacting with Uranium 235; Fusion and basic principle of thermonuclear reactions	15	PPP	

Academic Calendar:2023-2024
(Even Semester)
January-2024-June-2024

Department: PHYSICS

Semester/ Year	Syllabus Module/Unit	No of Lectures	Name of Teacher	Distribution
II Minor-2 (Electricity and Magnetism) Theory	<p style="text-align: center;">Vector Analysis</p> <p>Gradient, divergence, Curl and their significance, Vector Integration, Line, surface and volume integrals of Vector fields, Gauss-divergence theorem and Stoke's theorem of vectors (statement only).</p>	10	PPP	January (2024)
	<p style="text-align: center;">Electrostatics</p> <p>Electrostatic Field, electric flux, Gauss's theorem of electrostatics. Applications of Gauss theorem- Electric field due to point charge, infinite line of charge, uniformly charged spherical shell and solid sphere, plane charged sheet, charged conductor. Electric potential as line integral of electric field. Electric potential due to an electric dipole. Calculation of electric field from potential. Capacitance of an isolated spherical conductor. Parallel plate condenser. Energy per unit volume in electrostatic field. Dielectric medium, Polarisation, Displacement vector. Gauss's theorem in dielectrics. Parallel plate capacitor completely filled with dielectric.</p>	16	PPP	January- February (2024)
	<p style="text-align: center;">Magnetism</p> <p>Magnetostatics: Biot-Savart's law & its applications- straight conductor, circular coil, solenoid carrying current. Divergence and curl of magnetic field. Magnetic vector potential. Ampere's circuital law. Magnetic properties of materials: Magnetic intensity, magnetic induction, permeability, magnetic susceptibility. Brief introduction of dia-, para- and ferro-magnetic materials.</p>	9	PPP	February (2024)

	<p style="text-align: center;">Electromagnetic Induction</p> <p>Faraday's laws of electromagnetic induction, Lenz's law, self and mutual inductance, L of single coil, M of two coils. Energy stored in magnetic field.</p>	05	PPP	March (2024)
	<p style="text-align: center;">Linear Network</p> <p>Impedance of L, C, R and their combinations. Thevenin & Norton's Theorem. Maximum power transfer theorem and superposition theorem. Anderson's bridge.</p>	05	PPP	April (2024)
	<p style="text-align: center;">List of Practicals</p> <p>1. To determine an unknown Low Resistance using Carey Foster's Bridge.</p> <p>2. To verify the Thevenin and Norton theorems.</p> <p>3. To verify the Superposition and Maximum power transfer theorems.</p> <p>4. To determine self-inductance of a coil by Anderson's bridge.</p> <p>5. To study response curve of a Series LCR circuit and determine its (a) Resonant frequency, (b) Impedance at resonance, (c) Quality factor Q, and (d) Band width.</p> <p>6. To determine an unknown Low Resistance using Potentiometer.</p> <p>7. Measurement of field strength B and its variation in a solenoid (determine dB/dx)</p>	5 Hours 5 Hours 5 Hours 5 Hours 5 Hours 5 Hours 5 Hours	PPP PPP	May-June (2024)
IV	Superposition of Two Collinear Harmonic			

PHSGCOR04T - (Waves and Optics)	oscillations			
	Linearity & Superposition Principle. (1) Oscillations having equal frequencies and (2) Oscillations having different frequencies (Beats).	04	PPP	January-2024
	Superposition of Two Perpendicular Harmonic Oscillations			
	Graphical and Analytical Methods. Lissajous Figures with equal an unequal frequency and their uses.	02	PPP	January-2024
	Waves Motion- General			
Transverse waves on a string. Travelling and standing waves on a string. Normal Modes of a string. Group velocity, Phase velocity. Plane waves. Spherical waves, Wave intensity.	07	PPP	January-2024	
Fluids				
Surface Tension: Synclastic and anticlastic surface - Excess of pressure - Application to spherical and cylindrical drops and bubbles - variation of surface tension with temperature. Viscosity: Viscosity - Rate flow of liquid in a capillary tube - Poiseuille's formula - Determination of coefficient of viscosity of a liquid - Variations of viscosity of a liquid with temperature lubrication. Qualitative discussion on water waves.	06	PPP	January-2024	
Sound				
Simple harmonic motion - forced vibrations and resonance - Fourier's Theorem - Application to saw tooth wave and square wave - Intensity and loudness of sound - Decibels - Intensity levels - musical notes – musical scale. Acoustics of buildings: Reverberation and time of reverberation - Absorption coefficient – Sabine's formula - measurement of reverberation time. Acoustic aspects of halls and auditoria.	06	PPP	February 2024	
Wave Optics				

Electromagnetic nature of light. Definition and Properties of wave front. Huygens Principle.	03	PPP	February 2024
Interference			
Interference: Division of amplitude and division of wavefront. Young's Double Slit experiment. Lloyd's Mirror and Fresnel's Biprism. Phase change on reflection: Stokes' treatment. Interference in Thin Films: parallel and wedge-shaped films. Fringes of equal inclination (Haidinger Fringes); Fringes of equal thickness (Fizeau Fringes). Newton's Rings: measurement of wavelength and refractive index.	10	PPP	February 2024
Michelson's Interferometer			
Idea of form of fringes (no theory needed), Determination of wavelength, Wavelength difference, Refractive index, and Visibility of fringes.	03	PPP	March 2024
Diffraction			
Fraunhofer diffraction- Single slit; Double Slit. Multiple slits and Diffraction grating. Fresnel Diffraction: Half-period zones. Zone plate. Fresnel Diffraction pattern of a straight edge, a slit and a wire using half-period zone analysis.	14	PPP	March 2024
Polarization			
Transverse nature of light waves. Plane polarized light – production and analysis. Circular and elliptical polarization.	05	PPP	April 2024
List of Practical			
1. To determine the frequency of an electric tuning fork by Melde's experiment and verify $\lambda \propto \frac{1}{\sqrt{T}}$ law.	5 Hours	PPP	April 2024
2. To determine Coefficient of Viscosity of water by Capillary Flow Method (Poiseuille's method).	5 Hours		
3. To determine refractive index of the Material of a	5		

	<p>prism using sodium source.</p> <p>4. To determine the dispersive power and Cauchy constants of the material of a prism using mercury source.</p> <p>5. To determine wavelength of sodium light using Fresnel Biprism.</p> <p>6. To determine wavelength of sodium light using Newton's Rings.</p> <p>7. To determine dispersive power and resolving power of a plane diffraction grating.</p> <p>8. To determine the thickness of a thin paper by measuring the width of the interference fringes produced by a wedge-shaped Film.</p> <p>9. Familiarization with: Schuster's focusing; determination of angle of prism.</p> <p>10. To determine wavelength of (1) Na source and (2) spectral lines of Hg source using plane diffraction grating.</p> <p>11. To investigate the motion of coupled oscillators.</p> <p>12. To determine the wavelength of sodium source using Michelson's interferometer.</p>	<p>Hours</p> <p>5 Hours</p> <p>5 Hours</p> <p>5 Hours</p> <p>5 Hours</p> <p>5 Hours</p> <p>5 Hours</p> <p>5 Hours</p>		<p>May-2024</p> <p>June-2024</p>
<p>VI</p> <p>PHSGDSE04T - (Nuclear and Particle Physics)</p>	<p>Preliminary Topics</p> <p>Review of mass-energy equivalence, quantum tunnelling. Qualitative discussion on properties of semiconductors.</p> <p>General Properties of Nuclei</p> <p>Constituents of nucleus and their Intrinsic properties, quantitative facts about mass, radii, charge density (matter density), binding energy, average binding energy and its variation with mass number, main features of binding energy versus mass number curve, N/A plot, angular momentum, parity, magnetic moment, electric moments, nuclear excited states.</p>	<p>03</p> <p>09</p>	<p>PPP</p> <p>PPP</p>	<p>January (2024)</p> <p>January (2024)</p>

	<p style="text-align: center;">Nuclear Models</p> <p>Liquid drop model approach, semi empirical mass formula and significance of its various terms, condition of nuclear stability, two nucleon separation energies, Fermi gas model (degenerate fermion gas, nuclear symmetry potential in Fermi gas), evidence for nuclear shell structure, nuclear magic numbers, basic assumption of shell model, concept of mean field, residual interaction, concept of nuclear force.</p>	11	PPP	January (2024)
	<p style="text-align: center;">Radioactivity decay</p> <p>(a) Alpha decay: basics of α-decay processes, theory of α- emission, Gamow factor, Geiger Nuttall law, α-decay spectroscopy. (b) beta-decay, positron emission, electron capture, neutrino hypothesis. (c) Gamma decay: Gamma rays emission & kinematics, internal conversion.</p>	10	PPP	February (2024)
	<p style="text-align: center;">Nuclear Reactions</p> <p>Types of Reactions, Conservation Laws, kinematics of reactions, Q-value, reaction rate, reaction cross section, Concept of compound and direct reaction, resonance reaction, Coulomb scattering (Rutherford scattering)</p>	08	PPP	February (2024)
	<p style="text-align: center;">Interaction of Nuclear Radiation with matter</p> <p>Energy loss due to ionization (Bethe- Block formula), energy loss of electrons, Cerenkov radiation. Gamma ray interaction through matter, photoelectric effect, Compton scattering, pair production, neutron interaction with matter.</p>	08	PPP	February (2024)
	<p style="text-align: center;">Detector for Nuclear Radiations</p> <p>Basic principles of ionization chamber and GM</p>			

	Counter. Basic principle of Scintillation Detectors and construction of photo-multiplier tube (PMT). Semiconductor Detectors (Si and Ge) for charge particle and photon detection (concept of charge carrier and mobility), neutron detector	07	PPP	March-2024
	<p style="text-align: center;">Particle Accelerators</p> <p style="text-align: center;">Linear accelerator, Cyclotron, Synchrotron's.</p>	05	PPP	March (2024)
	<p style="text-align: center;">Particle physics</p> <p>Particle interactions; basic features, types of particles and its families. Symmetries and Conservation Laws: energy and momentum, angular momentum, parity, baryon number, Lepton number, Isospin, Strangeness and charm, concept of quark model, color quantum number and gluons.</p>	14	PPP	April (2024)

HIRALAL MAZUMDAR MEMORIAL COLLEGE FOR WOMEN

Department of Philosophy

Academic Calendar

Session: 2023-2024 (Odd Semester) Started NEP

Semester	(Hons/ General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution
1st SEMESTER	MINOR	PHIHMA01T (Epistemology and Metaphysics and Ethics: Indian Perspective)	1. Basic concepts in Indian Philosophy	7	SG	October
			2. Carvaka Epistemology	7	US	November
			3. Nyaya Epistemology	14	SP	November
			4. Vaisesika Metaphysics	18	SP	December
			5. Advaita Metaphysics	14	SS	December
3rd SEMESTER	GEN	PHIHGEC03T (INDIAN EPISTEMOLOGY AND METAPHYSICS)	A. i) Carvaka Epistemology	10	US	End of November
			ii) Carvaka Metaphysics			
			B. Nyaya Epistemology	20	SP	Within December
			C. Vaisesika Metaphysics	25	SP	End of November
			D. Advaita Metaphysics	15	US	December
5th SEMESTER	GEN	PHIGDSE01T (APPLIED ETHICS)	A. Nature of Applied Ethics	5	SP	September
			B. Nature of Rights	10	SP	October
			C. Suicide	20	US	Within December
			D. Euthanasia	20	US	Within November
			E. Environmental Ethics	20	SP	December
5th SEMESTER	GEN	PHIGGEC01T (THE PHILOSOPHY OF SELF DEVELOPMENT)	A. Buddhism	15	NA	NA
			B. Yoga	15	NA	NA
			C. Vedanta	20	NA	NA
			D. Vivekananda	15	NA	NA
			E. Gandhi	10	NA	NA
1 st SEMESTER	MAJOR	PHIADS01T (HISTORY OF WESTERN PHILOSOPHY I)	1. Plato and Aristotle	10	SP	December
			2. Medieval Philosophy	10	US	November
			3. Descartes, Spinoza, Leibnitz	40	SS & SG	December
		PHISSEC01M (Media Ethics)	Media Ethics	30	SP	December

1 st SEMESTER	MDC	PHIHMD01T (Ethics- Indian and Western)	1.Introduction	15	US	October
			2.Carvaka Ethics	5	US	October
			3.Buddhist Ethics	5	US	November
			4.Jaina Ethics	5	US	November
			5.Moral and non-moral actions	3	SP	November
			6.Standards of Morality	22	SP	December
			7.Theories of Punishment	5	SP	November

3 rd SEMESTER	HONS	PHIACOR05T (HISTORY OF WESTERN PHILOSOPHY)	A. Empiricism: Locke, Berkeley, Hume.	50	NA	NA		
			B. Kant	25	NA	NA		
		PHIACOR06T (OUTLINES OF INDIAN PHILOSOPHY)	A. Sankhya System	20	NA	NA		
			B. Yoga System	15	NA	NA		
			C. Mimamsa System	10	NA	NA		
			D. Advita Vedanta Philosophy of Sankara	20	NA	NA		
			E. Ramanuja	10	NA	NA		
		PHIACOR07T (WESTERN ETHICS)	A. Introduction to Ethics	8	NA	NA		
			B. Different Types of Ethical theories	30	NA	NA		
			i) Deontologism	12	NA	NA		
			ii) Teleologism	20	NA	NA		
			C. Theories of Punishment	5	NA	NA		
		3 rd SEMESTER	SEC	PHISSEC01T (MEDIA ETHICS)	Media Ethics	10	NA	NA
		5 th SEMESTER	HONS	PHIACOR11T (PHILOSOPHY OF LANGUAGE- INDIAN AND WESTERN)	A. Indian Philosophy of Language	35	SP	December
B. Western Philosophy of Language								
i) Hospers---	20			SP	November			

			ii) P. Alstone	20	NA	NA
		PHIACOR12T (ETHICAL AND SOCIAL PHILOSOPHY OF INDIA)	A. Introduction	6	SS	September
			B. Basic Concepts with social significance in BhagavatGita	16	SS	October
			C. Purusartha	6	SS	November
			D. Sukhavada	20	SS	November
			E. Dharma	10	SS	December
			F. Karma	15	SS	December
5th SEMESTER	HONS	PHIADSE02T (PRACTICAL ETHICS)	A. Killing (animals, Suicide, Euthanasia)	40	SG	September
			B. Human Rights	5	SG	October
			C. War, Violence and Terrorism	20	SG	November
			D. Concept of Environmental Ethics	5	SG	December
			E. Feminist Ethics	5	SG	December
		PHIADSE03T (PHILOSOPHY OF RELIGION)	A. Introduction (Scope and nature of Religion; Relation between-Philosophy of Religion and Theology	10	US	September
			B. Difference between: - Spirituality and Religiosity; Sacred and Profane; Magic and Religion	10	US	September
			C. Problem of Evil [Hospers]	5	US	October
			D. Proofs for the existence of God	20	US	November
			E. Grounds for disbelief in God	10	US	November
			F. Some Major Religions: Hinduism, Buddhism, Christianity, Islam	20	US	December

HIRALAL MAZUMDAR MEMORIAL COLLEGE FOR WOMEN

Department of Philosophy

Academic Calendar

Session: 2023-2024 (Even Semester)

Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution
2nd SEMESTER	MINOR	PHIHMA02T/PHIGMA02T (EPISTEMOLOGY AND METAPHYSICS AND ETHICS: WESTERN PERSPECTIVE)	1. Theories of the origin of knowledge	12	SS	April
			2. Realism and Idealism as theories of Reality	8	SS	May
			3. Idealism: Subjective Idealism	6	SS	End of May
			4. Substance	12	SG	May
			5. Causality	12	SG	June
			6. Moral and non-moral actions	10	SG	June
4th SEMESTER	GEN	PHIHGEC04T (ETHICS- INDIAN AND WESTERN)	A. Introduction: Indian Ethics & Western Ethics	4	US	1 st week of April
			B. Purusarthas	4	US	1 st week of May
			C. Karma	8	US	May
			D. Carvaka Ethics	4	US	June
			E. Buddhist Ethics	5	US	June
			F. Jaina Ethics	5	US	End of June
			G. Moral and non-moral actions	5	SP	1 st week of April
			H. Standards of Morality	20	SS	May
			I. Deontological Ethics-Kant	15	SP	June
			J. Theories of Punishment	5	SS	June
6 th SEMESTER	GEN	PHIGDSE03T (SOCIAL AND POLITICAL PHILOSOPHY)	A. Social Philosophy	35	SP	June
			B. Political Ideals	40	US	June
	GEN	PHIGGEC02T (CRITICAL THINKING)	A. Critical Thinking	75	NA	NA
6 th SEMESTER	HONS	PHIACOR13T (WESTERN EPISTEMOLOGY AND METAPHYSICS)	A. Knowledge	15	SP	April
			B. Theories of Truth	15	SP	May

			C. The problem of Induction	8	SP	May
			D. On What There Is: Realism, Idealism and Phenomenalism	15	SS	May
			E. The Problem of Universal: Realism, Conceptualism and Nominalism	12	SS	May
			F. The Causal Principle	10	SS	June
	HONS	PHIACOR14T (SOME MODERN INDIAN THINKERS)	A. Vivekananda	15	SG	End of May
			B. Gandhi	25	US	End of May
			C. Aurobindo	10	US	June
			D. Ambedkar	25	SG	End of June
6 th SEMESTER	HONS	PHIADSE04T (SADHANA)	Rabindranath, Sadhana	75	NA	NA
		PHIADSE05T (PROBLEMS OF PHILOSOPHY)	A. Appearance and Reality	75	SS	Within June
	B. Knowledge by acquaintance and Knowledge by Description					
	C. On Induction					
	D. The Value of Philosophy					
	PHIADSE06T (AN ENQUIRY CONCERNING HUMAN UNDERSTANDING)	A. Hume, An Enquiry Concerning Human Understanding	75	SP & US	Within June	

2 nd SEMESTER	MAJOR	PHIADS02T (HISTORY OF INDIAN PHILOSOPHY I)	1. Nastika Schools:	30	NA	NA
			Carvaka Bauddha Jaina			
			2. Astika School: Nyaya system Vaisesika System	30	NA	NA

		PHISSEC02M (Business Ethics)	Business Ethics	30	NA	NA
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2 nd SEMESTER	MDC	PHIHMD01T (Ethics- Indian and Western)	1.Introduction	15	US	June
			2.Carvaka Ethics	5	US	June
			3.Buddhist Ethics	5	US	July
			4.Jaina Ethics	5	US	July
			5.Moral and non-moral actions	3	SP	June
			6.Standards of Morality	22	SP	July
			7.Theories of Punishment	5	SP	June

4 th SEMESTER	HONS	PHIACOR08T (SOCIAL AND POLITICAL PHILOSOPHY WESTERN)	A. Concept of Social and Political Philosophy	4	NA	NA
			B. Basic Concepts	20	NA	NA
			C. Social Change	7	NA	NA
			D. Family	14	NA	NA
			E. Political Ideals	10	NA	NA
			F. Socialism and its Varieties	15	NA	NA
			G. Separation of power	5	NA	NA
	HONS	PHIACOR09T (PSYCHOLOGY AND PHILOSOPHY OF MIND)	A. Relation between Philosophy of Mind, Psychology and Philosophy of Psychology	5	NA	NA
			B. Psychology as Science	2	NA	NA
			C. Associationism	10	NA	NA
			D. Methods of Psychology	8	NA	NA
			E. Freud's Theory	10	NA	NA
			F. Dualism, Its types	2	NA	NA
			G. General Discussion on Behaviourism:-	4	NA	NA

			Methodological and Philosophical			
			H. The Relation between Body and Mind	20	NA	NA
	HONS	PHIACOR10T (CLASSICAL INDIAN TEXT)	A. Annambhatta's Tarkasangraha with Dipika tika (From Buddhi up to Upamanakhandam)	75	NA	NA
4 th SEMESTER	SEC	PHISSEC02M (Business Ethics)	Business Ethics	10	NA	NA

Semester	(Hons/General)	Internal Assessment (Tentative time)	University Examination
Odd Semester	Hons/General	Within December	As per University notification
Even Semester	Hons/General	Within May	As per University notification

**ACADEMIC CALENDER EVEN SEMESTER EVEN SEMESTER
2023 -24**

2ND SEM MAJOR

SEM	UNIT	TOPIC	NO. OF LECTURES	TEACHERS	DISTRIBUTION	Students 'sem Project (if any)
2 nd Sem (Major)	1	COMMUNICATION: Definition, elements, process & functions, forms-Intra, inter, small group, Public, Mass Communication, Verbal &6 Non-Verbal Communication, 7C'S of communications, Barriers to CommunicatiON.	10	TR	Jan to June	Project

	2	<p>MODELS OF COMMUNICATIONS: Definition, Importance, Functions, Types - Linear, interactive, Transactional . SMR, SMCR, Shannon & Weaver, Laswell, Osgood 7 Schramm, Schramm, Dance, Newcomb, Westley & Mclean, Gerbner. Communication Flows: one, two, multi-step</p>	15	SM	Jan to June	Project
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	3	<p>MASS COMMUNICATION: Definition, nature, Process & scope. Mass Media, characteristics and typology of media audience. Mass Media & Modern society</p>	10	UB	Jan to June	Project
	4	<p>ORGANISATIONAL COMMUNICATION:</p>	10	DM	Jan to June	Project

		Definitions, Functions & types. Barriers & Obstacles to OC, Meetings: convening, meeting manners, presiding over a meeting & participating a meeting, Managing post meeting follow-up				
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2ND SEM MAJOR PRACTICAL

	TOPIC	NO. OF CLASS ES	TEAC HER	PROJEC T/ STUDEN TS" PRESEN TATION	DISTRIBUTIO N		
	Poster presen tation	05	SM	Project	JAN TO JUN		
	Public Speaki ng	20	UB	Seminar presentati on	JAN TO JUN		
	Record Books	10	UB	Project	JAN TO JUN		

2ND SEM MAJOR SEC

SEM	UNIT	TOPIC	NO. OF LECTURES	TEACHERS	DISTRIBUTION	Students' seminar/ Project (if any)
2 ND SEM MAJOR SEC	1	UNDERSTANDING DOCUMENTARY INTRODUCTION TO REALISM DEBATE OBSERVATIONAL AND VERITE DOCUMENTARY MAJOR DOCUMENTARY FILM MAKERS (ROBERT FLAHERTY, BASIL WRIGHT, MICHAEL MOORE, ANAND	10	UB	JAN TO JUN	PROJECT

		PATWARDHAN)				
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2ND SEM MAJOR SEC PRACTICAL

SEM	UNIT	TOPIC	NO. OF LECTURES	TEACHERS	DISTRIBUTION	Students' seminar/ Project (if any)
2 ND SEM MAJOR SEC	<u>2</u>	INTRODUCTION TO SHOOTING STYLES		DM	JAN TO JUN	PROJECT
		INTRODUCTION TO EDITING STYLES		DM	JAN TO JUN	PROJECT
	<u>3</u>	PRE-PRODUCTION PRODUCTION POST PRODUCTION		DM	JAN TO JUN	PROJECT

2ND SEM MINOR

SEM	UNIT	TOPIC	NO. OF LECTURES	TEACHERS	DISTRIBUTION	Students' seminar/ Project (if any)
2 ND SEM	1	REPORTING, ROLE/ FUNCTIONS,		DM	JAN TO JUN	PROJECT

MIN OR		<p>QUALITIES OF REPORTER, CHIEF REPORTER, NEWS COORDINATOR, PHOTO JOURNALISTS, CHIEF OF NEWS BUREAU, CORRESPONDENT (SPECIAL, FOREIGN, DISTRICT), STRINGERS, FREELANCERS. COVERING OF VARIOUS BEATS- POLITICAL, CRIME, COURT, HEALTH, EDUCATION, SPORTS, ENTERTAINMENT. COVERING PRESS CONFERENCE NEWS LEADS AND INTRO (VARIOUS TYPES)</p>				
	2	<p>STRUCTURE OF NEWS DESK OF A NEWSPAPER, ROLE, FUNCTIONS AND QUALITIES OF</p>		TR	JAN TO JUN	PROJE CT

		<p>EDITOR (DIFFERENT TYPES OF EDITOR), NEWS EDITOR, CHIEF SUB EDITOR, SUB/ COPY EDITOR, PRINCIPLES OF EDITING, HEADLINE WRITING-VARIOUS TYPES OF HEADLINES AND THEIR IMPORTANCE, PAGE MAKE UP</p>				
	3	<p>DEFINING NEW MEDIA, TERMINOLOGIES AND THEIR MEANINGS. DIGITAL MEDIA, NEW MEDIA, ONLINE MEDIA INFORMATION SOCIETY AND NEW MEDIA TECHNOLOGICAL DETERMINISM COMPUTER MEDIATED-</p>		SM	JAN TO JUN	PROJE CT

		COMMUNICATION (CMC)				
	4	INTERNET AND ITS BEGINNINGS USER GENERATED CONTENT AND WEB 2.0 COPYRIGHT PIRACY COPYLEFT AND OPEN SOURCE NEW MEDIA AND ETHICS		UB	JAN TO JUN	PROJECT

2ND SEM MINOR PRACTICAL

TOPIC	NO. OF CLASSES	TEACHER	PROJECT/STUDENTS' PRESENTATION	DISTRIBUTION
RECORD BOOK	20	TR	PROJECT	JAN TO JUN
BLOG/VLOG	10	SM	PROJECT	JAN TO JUN

4TH SEMESTER(HONS)

CORE	UNIT	TOPIC	TEACHER	DURATION	NO. OF CLASSES		
CC8	1	DEFINING NEW MEDIA, TERMINOLOGIES & THEIR MEANINGS- DIGITAL MEDIA, NEW MEDIA, ONLINE MEDIA, INFORMATION SOCIETY & NEW MEDIA, TECHNOLOGICAL	DM	JAN- JUN	15		
	2	INTERNET & ITS BEGINNING, REMEDIATION & NEW MEDIA TECHNOLOGIES , ONLINE COMMUNITIES, USER GENERATED		JAN- JUN			

		CONTENT, WEB2.0 ALTERNATIVE JOURNALISM, SOCIAL MEDIA IN CONTEXT	TR		10		
	3	AUTHORSHIP & WHAT IT MEANS IN A DIGITAL AGE, PIRACY, COPTRIGHT, COPYLEFT & OPEN SOURCE, DIGITAL ARCHIVES, NEW MEDIA & ETHICS	UB	JAN- JUN,	10		
	4	LINEAR & NON- LINEAR WRITING, CONTEXTUALIS ED JOURNALISM, WRITING		JAN- JUN			

	5	TECHNIQUES , LINKING, MULTI- MEDIA WEB PLANNING & VISUAL DESIGNING, CONTENT STRATEGY & AUDIENCE ANALYSIS ,BRIEF HISTORY OF BLOGGING, CREATING & PROMOTING A BLOG		JAN- JUN		
CC9	1	CONCEPT OF DEV, DEV MODELS BASIC NEEDS MODEL DEVELOPING COUNTRIES VS DEVELOPED COUNTRIES MDGS	SM	JAN- JUN	15	
	2	PARADIGMS OF DEVELOPMENT	TR	JAN- JUN	15	

	3	<p>DEV COM MODELS ALTERNATIVE DE3V COM APPROACHES SUSTAINABLE, PARTICIPATORY ETC. DSC</p> <p>MASS MEDIA AS A TOOL FOR DEV CREATIVITY, ROLE & PERFORMANCE OF EACH MEDIA- COMPARATIVE STUDIES OF PRE & POST LIBERATION ERA</p> <p>ROLE, PERFORMANCE RECORD OF EACH</p>	TR				
			DM	JAN- JUN			

		<p>MEDIUM</p> <p>ROLE OF DEV AGENCIES AND NGOs CRITICAL APPRAISALS OF DEV COM PROGRAMS & GOVT SCHEMES</p> <p>CYBER MEDIA & DEV NKN, ICT FOR DEV NARROW CASTING</p> <p>DSC IN INDIAN THE AREAS OF AGRICULTURE, HEALTH, FAMILY</p>	<p>UB</p> <p>SM</p>	<p>JAN- JUN</p> <p>JAN- JUN</p> <p>JAN- JUN</p>			
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	4	<p>WELFARE, POPULATION, WOMEN EMPOWERMENT, POVERTY ETC.</p> <p>STRATEGIES FOR DESIGNING MESSAGES FOR PRINT COMMUNITY RADIO 7 DEV KRISHI DARSHAN USING NEW MEDIA TECHNOLOGIES FOR DEV</p>	UB	<p>JAN- JUN</p> <p>JAN- JUN</p>		
	5	<p>DEV JOURNALISM AND RURAL REPORTING IN INDIA</p>	DM			

<p>CC 10</p>	<p>1</p>	<p>INFORMATION NEEDS IN RURAL AREAS USE OF TRADITIONAL MEDIA FOR DEV RURAL NEWSPAPERS CRITICAL APPRAISAL OF MAINSTREAM MEDIAS REPORTAGE ON RURAL ISSUES</p>	<p>TR</p>	<p>JAN- JUN</p> <p>JAN- JUN</p>		
	<p>2</p>	<p>ETHICAL FRAMEWORK & MEDIA PRACTICE:</p>	<p>UB</p>	<p>JAN- JUN</p>		

	3	<p>FREEDOM OF EXPRESSION, DEFAMATION, ISSUES OF PRIVACY 7 SURVEILLANCE, RTI, TRIAL BY MEDIA</p> <p>MEDIA TECHNOLOGY & ETHICAL PARAMETER: LIVE REPORTING AND ETHICS, STING OPERATION & PHONE TAPPING, ETHICAL ISSUES IN SOCIAL MEDIA, SOME TRELATED LAWS— RELEVNT SECTIONS IN BROADCAST BILL, NBA GUIDELINES</p>	TR				
	4		DM		JAN- JUN		

	5	<p>REPRESENTATIO N & ETHICS: ADVERTISEMEN T & WOMEN, PORNOGRAPHY , RELATED LAWS & CASE STUDIES (INDECENT REPRESENTATIO N OF WOMEN PROHIBITION ACT, PROTECTION OF WOMEN AGAINST SEXUAL HARRASMENT BILL 2007 & ACT 2013, SEC 67 OF IT ACT 2000 & 292 IPC)</p> <p>MEDIA & REGULATION:</p>	SM	JAN- JUN		
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		<p>REGULATORY BODIES, CODE & ETHICAL GUIDELINES. SELF REGULATIONS, MEDIA CONTENT— DEBATES ON MORALITY & ACCOUNTABILITY: TEST, CULTURE & TABOO, CENSORSHIP & MEDIA DEBATE</p> <p>MEDIA & SOCIAL RESPONSIBILITY : ECONOMIC PRESSURES, MEDIA REPORTAGE ON MARGINALISED SECTION, MEDIA COVERAGE OF VIOLENCE & RELATED LAWS</p>					
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		(INFLAMMATORY WRITING: IPC 353, SEDITION- INSIGHTMENT TO VIOLENCE, THE SPEECH					
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6TH SEMESTER

CORE	UNIT	TOPIC	TEACHER	DURATION	NO. OF CLASSES	STUDENTS" SEMINAR / PROJECT (IF ANY)
CC 13	1	BASICS OF NEW MEDIA FRAMEWORK: UNDERSTANDING NEW MEDIA ECOLOGIES, DIGITAL ART, DIGITAL CINEMA- NEW MEDIA FICTION AND DOCUMENTARY, GAMING				

		<p>ANDS PLAYER CULTURE, VIRALITY AND MEMES, GUERILLA MEDIA.</p>					
	2	<p>SOCIOLOGY OF THE INTERNET AND NEW MEDIA: SOCIAL CONSTRUCTIO N OF TECHNOLOGY, DIGITAL INEQUALITIES- DIGITAL DIVIDE AND AS=CCCESS, ECONOMY OF NEW MEDIA- INTELLECTUAL VALUE, DIGITAL MEDIA ETHICS, NEW MEDIA AND POPULAR CULTURE.</p>					

	3	<p>CRITICAL NEW MEDIA: WHO CONTROLS NEW MEDIA, QUESTIONS SURROUNDING NET NEUTRALITY AND RELATED ISSUES, SURVEILLANCE AND THE STATE, CYBER SECURITY AND ISSUES OF PRIVACY, THE INTERNET AND PUBLIC SPHERE.</p>				
	4	<p>PARTICIPATORY CULTURE: CONVERGENCE CULTURE- SOCIAL & PARTICIPATORY MEDIA CULTURE, DIGITAL FANDOM AND</p>				

CC1 4	1	<p>ONLINE COMMUNITIES , IDENTITY, GENDER AND NEW MEDIA, NEW MEDIA CAMPAIGNS</p> <p>INTRODUCTION TO RESEARCH: DEFINITION AND ROLE, FUNCTION, BASIC AND APPLIED RESEARCH, SCIENTIFIC APPROACH, ROLE OF THEORY IN RESEARCH,</p>				
	2	<p>METHODS OF MEDIA RESEARCH: QUALITATIVE-QUANTITATIVE TECHNIQUE, CONTENT</p>				

		<p>ANALYSIS, SURVEY METHODS, OBSERVATION METHODS, EXPERIMENTAL RESEARCH, CASE STUDIES, NARRATIVE ANALYSIS, HISTORICAL RESEARCH</p>					
	3	<p>SAMPLING: NEED FOR SAMPLING, SAMPLING METHODS, REPRESENTATIVES OF THE SAMPLES, SAMPLING ERROR, TOOLS OF DATA COLLECTION, PRIMARY AND SECONDARY DATA- QUESTIONNAIRES</p>					

	4	<p>RE, FOCUS GROUPS, TELEPHONE SURVEYS, ONLINE POLLS, PUBLISHED WORKS</p> <p>METHODS OF ANALYSIS AND REPORT WRITING: DATA ANALYSIS TECHNIQUES CODING AND TABULAR=TIO N, NON STATISTICAL METHODS(DESCRIPTIVE AND HISTORICAL) WORKING WITH ARCHIVES, LIBRARY RESEARCH, WORKING WITH INTERNETAS A SOURCE,</p>					
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<p>JOR A DSE 6</p>	<p>5</p> <p>UNI T 1</p>	<p>WRITING CITATIONS, BIBLIOGRAPHY, WRITING THE RESEARCH REPORT</p> <p>ETHNOGRAPHIES AND OTHER METHODS: READERSHIP AND AUDIENCE SURVEYS, TEXTUAL ANALYSIS, DISCOURSE ANALYSIS, ETHICAL PERSPECTIVES OF MASS MEDIA RESEARCH</p> <p>FILM AS A MEDIUM OF MASS COMMUNICATION: THE FIRST MOVIES,</p>					
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		<p>ORIGINS OF CLASSICAL HOLLYWOOD STYLE, THE SILENT PERIOD, HISTORY OF INDIAN MOTION PICTURES</p>					
	<p>UNIT 2</p>	<p>FILM FORM STYLE AND MOVEMENT- 1919-1931: GERMAN EXPRESSIONISM, 1924-1930: THE SOVIET MONTAGE MOVEMENT, 1927-1947: CLASSICAL HOLLYWOOD STYLE IN HOLLYWOODS GOLDEN AGE, 1942-1951: ITALIAN NEOREALISM, 1959-1964:</p>					

		<p>FRENCH NEW WAVE, FILM NOIR, THIRD CINEMA AND NON FICTION</p> <p>CINEMA, CAHIER DU CINEMA GROUP</p>					
	UNIT 3	<p>HINDI FILM- EARLY CINEMA AND THE STUDIO ERA, 1950S- BIMAL ROY, GURU DUTT, MEHBOOB, RAJ KAPOOR, V SHANTARAM, A SHORT OVERVIEW OF INDIAN NEW WAVE- SATYAJIT RAY, RITWIK GHATAK, MRINAL SEN, SHYAM BENEGAL,</p>					

	1	<p>Media and social world</p> <p>Media Impact on Individual and society</p> <p>Democratic Polity and Mass Media</p> <p>Rural – Urban Divide in India: Grass-roots media</p>	TR	10	Project
	2	<p>Gender, Conceptual frameworks in gender studies</p>	SM	10	Project

		<p>damn right former conceptual frameworks endangered in gender studies. History of media and gender debates in India (Case studies)</p> <p>Media and gender-Theoretical concerns. Media and masculinity</p>			
	3	<p>Media Power and contestation. public sphere and its critique. Media and social differences: class, gender, race etc. Genres Romance, Television, Soap opera, Sports</p>	UB	10	Project
	4	<p>Media and human rights</p> <p>Theoretical perspectives. Critique universal declaration of human rights. Human rights and</p>	DM	10	Project

		media (case studies)						
		PRODUCTION, PRODUCTION, POST PRODUCTION						

	3						
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DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

ACADEMIC CALENDAR

SESSION 2023-2024

ODD SEMESTER

1ST Semester(Theory)

Semest	Major Minor	Unit	Topic	No. of Lectures(hou rs)	Teache rs	Distributi on	Project / Student seminar(if any)
1	Minor	Unit: 1 Understandin g news	<p><u>News:</u> <u>Meaning</u> Definition, Nature, Elements</p> <p>The news process; from the event to the reader</p> <p>Hard news vs soft news; different types of news</p> <p>Basic components of a news story Attribution, embargo, verification, balance and fairness, brevity dateline credit line, byline</p>	4 4 1 4		August To December	yes
1	Minor	Unit: 2 Understandin	Organizing a news g	3	SM	to December	Yes
		the story; SWs and Structure and IH, inverted Construction pyramid of News Criteria for news worthiness, prncples ot					

			news selection			
			Use of archives, source of news, use of internet, citizen journalism	6		
				2		

1	Minor	Unit : 3 Communication	Definition, elements, process and functions of Communication	2	August to October
			Forms of communication- Intrapersonal communication, interpersonal communication, small group communication, public communication, mass communication	4	
			Verbal and non- verbal communication		
			7 C's of communication, barriers to communication	1	
			Mass media; characteristics and typology of media audiences;	2	
			Mass media		

			and modern society	2			
1	Minor	Unit : 4 Models of Communication	Definition, importance and functions of communication models	2	UB	August To December	Yes
			Types of communication models- linear, interactive and transactional	2			
			Models- SMR, SMCR, Shannon and Weaver, Lasswell , Osgood and Schramm, Schramm, Frank Dance, Newcomb, Westley and Mclean, Gerbner	10			
			Communication flows: one step , two step, multi-step	4			

PRACTICAL

Semester	Major/ Minor	Unit	Topic	No. of Lectures	Teachers	Distribution	Project/ students seminar (if any)
1	Minor	Unit A. Preparing record book	Caption writing for TWO news photographs/	2			

			and modern society	2			
1	Minor	Unit : 4 Models of Communication	<p>Definition, importance and functions of communication models</p> <p>Types of communication models- linear, interactive and transactional</p> <p>Models- SMR, SMCR, Shannon and Weaver, Lasswell , Osgood and Schramm, Schramm, Frank Dance, Newcomb, Westley and Mclean, Gerbner</p> <p>Communication flows: one step , two step, multi-step</p>	2	UB	August To December	Yes
				2			
				10			
				4			

PRACTICAL

Semester	Major/ Minor	Unit	Topic	No. of Lectures	Teachers	Distribution	Project students seminar (if any)
1	Minor	Unit A Preparing record book	Caption writing for TWO news photographs/	2			

		Photo Features				
		Original newspaper cutting of different types of news published in current newspaper	5			
		Translation of newspaper report writing (any three)	6			

1	Minor	Write a review of a film released within last 3 months in theatre / OTT	4		
		Report writing Viva on current affairs			

						July to Docotnboc
3rd SEM	(hons)		Elements of a Radio News Story	2		
			Gathering, Writing/Reporting	2		
			Elements of a Radio News Bulletin	2		
			Working in a Radio News Room	2		
			Introduction to Recording and Editing Sound (Editing News Capsule)	2		
			Revision	2/3		

3rd SEM	(hons)	cc6	<p>Media and Modernity: Print Revolution,</p> <p>Telegraph, Morse Code</p> <p>Yellow Journalism</p> <p>History of the Press in India: Colonial Period, National Freedom Movement: Gandhi and Ambedkar as Journalists and</p>	<p>4</p> <p>2</p> <p>2</p> <p>2</p> <p>5</p> <p>5</p>		<p>July to December</p>	<p>YES</p>
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			Communicators Revision	2		
			Introduction to Public Relations	2		July to December
3rd SEM	HONS	cc7	Growth and development of PR Importance, Role and Functions of PR	2 2 4		
			Principles and Tools of Public Relations	4		
			Organization of Public Relations : In house Department vs. Consultancy	1		
			PR in Government and Private Sectors	1		
			Government's Print, Electronic, Publicity, Film and Related Media Organizations	5 2		
			Revision			

SEM	GEN	UNIT 4	0 1950s Cinema and the Nation (Guru Dutt, Raj Kapoor, Mehboob Khan) The Indian NewWave — Mrinal Sen, Mani Kaul, Basu Chatterjee Globalisation and Indian Cinema, The Multiplex Era Film Culture Revision	8 8 2 2 2		July to December	
5 th SEM	HONS	CORE	Media and Cultural	3		July to	

	11	Globalization Cultural Imperialism, Cultural politics: media hegemony and Global cultures, homogenization, the English language Local/Global, Local/Hybrid Revision	2 5 2 4		December	
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5 th SEM	IONS	ORE 2	Unit I- Public service broadcasting	2		July to December	YES
			Public Service Model in India (Policy and laws)	2			
			Global Overview of Public Service Broadcasting	2			
			Community Radio	2			
			Participatory Communication	2			
			Campus Radio	1			
			Revision				

5 th SEM	HONS	DSE2	Unit 2: Trends in Print journalism	2		July to	
			Investigative journalism/ Sting operations and related case studies Impact of Technology on newspapers and Magazines	5			
			Ethical debates in print journalism: ownership and	2			

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SEM

HONS

DSC-3

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UNIT I

Introduction to
Photography
A brief History of
Photography-
Camera Obscura to
the daguerreotype
process

4

Technical history
of photography:
Persistence of
Vision,

1

Camera Obscura,
Muybridge
Experiment

(Leaping horse).

1

The photographic
process (The Silver
Halide

2

Photography

Process: A brief
glimpse into
the park Room

Development of a
Photograph

2

Modernization
of Photography
and its use in
Mass Media

1

July to
December

5 th SEM	GEN	UNIT2	Trends in Print journalism: Investigative journalism/ Sting operations and related case studies; Impact of Technology on newspapers and Magazines; Ethical debates in print journalism: ownership and control,	2 5 2	July to December
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Semester/year	Syllabus Module/Unit	No of lectures	Teachers	Time Period
1 st semester	1. Adikaal	8	reema	July 2024 to December 2024
	A. Hindi bhashakavikas : samanyparichay			
	B. adikal - kaalvibhajanevamnaamkaran			
	C. adikaleensahityakipramukhpravrittiyan	5	reema	
			reema	
	2. Bhaktikal	4	reema	
	A. Bhakti aandolan: udbhavaurvikas		reema	
	B. bhaktikalkipramukhpravrittiyan			
		4	Reema	
	3. Reetikal	2	Reema	
	A. reetikal naamkaran	4	Reema	
	B. reetikaleen pramukhdharaen		Reema	
	C. samanya pravrittiyan evam parichay	4		
		4	Reema	
	4. adhunikkal	3		
	A. Navjagran ki awadharana	3		
	B. aadhunik hindi kavita ki pramukh pravrittiyan	3		
C. upanyas	2	Reema		
D. kahani	2			
E. natak	2			
F. Nibandh	2			

	G. aalochna tatha anya gadhy roop		Anwar Hussain	
3rd Semester general	Unit 1 A. BhartenduHarishchandra 1.(NayeZamanekimukri) B. MaithilisharanGupt 1.Donoaurprempaltahai 2.Manushyta Unit 2 A. Jaishankar Prasad 1. Ari karunakishantkachhar 2. Le chalbhulawadekar 3. Ashok kichinta B. SoorykanttripathiNirala 1. Badalraag 2. Snehnirjhar bah gya 3. Main akeladekhtahuaarhi	 4 4 4 2 2 3 3 3 3	 Reema Reema Reema reema reema reema reema reema Anwar Hussain	July 2024 to December 2024

	<p>Unit 3</p> <p>A. Subhadrakumarichauhan</p> <p>2</p> <p>Reema</p> <p>1. Thukra do yapyarkaro 2</p> <p>2. Veerokakaisahobasant 2</p> <p>3. Jhansi ki rani ki Samadhi par 2</p> <p>B. Ramdharisinghdinkar</p> <p>5</p> <p>Reema</p> <p>1. TriteeySarg</p>			
	<p>Unit 4</p> <p>A. Nagarjun</p> <p>1. Akal auruskebaad 3</p> <p>2. Meribhiaabhahaiisme 3</p> <p>3. Hasankibandook 3</p> <p>Reema</p> <p>Reema</p> <p>Reema</p> <p>B. Agyey</p> <p>4</p> <p>reema</p> <p>1. Hiroshima 2</p> <p>2. saanp 2</p> <p>3. Yah deep akela 2</p> <p>Reema</p> <p>Reema</p>			
3 rd semester MIL	<p>Unit 1</p> <p>A. Hindi bhashaaharsahitya 5</p> <p>B. Aadhunikbharteeybhashaonkasamanyparichay 5</p> <p>C. Hindi sahityakaitihas (Adikaal) 5</p> <p>D. Hindi sahityakaitihas (adhunikkaal) 5</p> <p>Reema</p> <p>Reema</p> <p>Reema</p> <p>Reema</p>			July 2024 to December 2024

	<p>Unit 2</p> <p>A. Kabir B. Soordas</p> <p>Unit 3</p> <p>A. Bihari B. Bhooshan</p> <p>Unit 4</p> <p>A. MaithilisharanGupt B. Nirala</p>	<p>5 5</p> <p>10 5</p> <p>5 5</p>	<p>Anwar Hussain</p> <p>Reema</p> <p>reema reema</p> <p>reema reema</p>	

2nd Semester General & MIL	Unit 1			January 2025 to june 2025
	A. kabir	10	reema	
	B. Jaysi	6	reema	
	Unit 2			
	A. Soordas	7	Reema	
	B. Tulsidas	7	Reema	
	Unit 3			
	A. Meerabai	8	reema	
	B. Raskhan	7	reema	
	Unit 4			
	A. Bihari	7	Anwar Hussain	
	B. Ghananand	7	Reema	
	MIL			
	Unit 1			
Bhasayi Dakshata ke Aayam	15	reema		
Unit 2				
Bhasayi Dakshata ke Karak Tatwa	15	reema		
Unit 3				
Bhasayi Dakshata ka Vikas	8	Reema		
Unit 4				
Bhasayi Dakshata ka Vyavaharik Paksha	10	Reema		

<p>4th semester General</p>	<p>Unit 1 A. Gaban</p> <p>Unit 2 A. parda B. roz C. malbekamalik D. kosikaghatwar E. akeli</p> <p>Unit 3 A. Nibandh Shivshambhu ke chitthe banam lord kurzon- Balmukund Gupt Sahitya ka Uddeshya- Premchand</p> <p>Unit 4 A. Sansmaran Bhaktin- Mahadevi Verma Adamy Jiwan – Rangeya Raghav</p>	<p>25</p> <p>30</p> <p>20</p> <p>15</p>	<p>Reema</p> <p>Reema</p> <p>Anwar Hussain</p> <p>Reema</p>	<p>January 2025 to June 2025</p>
<p>4th semester MIL</p>	<p>Unit 1 Hindi gadhy udbhav aur vikas</p> <p>Hindi gadhy rupo ka samanya parichay</p> <p>Unit 2 Premchand-Budhi kaki Prasad-Gunda Chandradhar Sharma Guleri-Sukhamay Jiwan</p>	<p>15</p> <p>20</p> <p>10</p>	<p>Reema</p> <p>Reema</p> <p>Reema</p>	

	<p align="center">Unit 3</p> <p>Bal Mukund Gupt- Mele ka Unth Bhartendu- Inland aur Bharatvarss Harisankar Parsai- Thithurata hua gantatra</p> <p align="center">Unit 4</p> <p>Bhartendu Harischandra- Bharat Durdasha Mahadevi Verma- Bibiya</p>	10	<p align="center">Reema</p> <p align="center">Reema</p>	
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5th semester	Unit 1 Ayodhyakand	20	Reema	July 2024 to December 2024
	Unit 2 Baalkand	25	Reema	
	Unit 3 Vinaypatrika	20	Anwar Hussain Reema	
	Unit 4 Sundarkand	25		

6th Semester	Unit 1 Sakhi vasant aya, Juhi ki kali, Jago fir ek bar-2		Reema	January 2025 – June 2025
	Unit 2 Adhiwas, Badal rag -1, Bharti Jay vijay kare		Reema	
	Unit 3			

	Todti Patthar, Bahar mai kar diya gaya hun, Sneh nirjhar bah gaya, Gahan hai yah andhakara Unit 4	20	Anwar Hussain Reema	
	Katha sahitya - Billesur Bakariha	15	Reema	

Academic Calendar
Department of Zoology, HMMCW
July, 2023- December, 2023

A. WBSU- NEP Syllabus
 B. WBSU-CBCS Syllabus

Semester/ Year	A. WBSU- NEP SYLLABUS	No. of Lecture	Teacher Name	Distribution Tentative
SEM-I HONOURS	DS-I: Non-Chordates I	45		
	Unit 1: General introduction to Protista and Metazoa General characteristics and Classification of Protozoa up to phylum (Levine, 1980) General characteristics Amoeba, Paramoecium and Euglena Life cycle and pathogenicity of Entamoeba histolytica, Plasmodium vivax, Giardia intestinalis and Leishmania donovani Locomotion and Reproduction in Protista (Amoeba, Paramoecium and Euglena) Evolution of symmetry and segmentation of Metazoa	15	Dr. Indrajit Biswas	July'23- October'23
	Unit 2: Porifera General characteristics and Classification up to classes Canal system and spicules in sponges	6	Santanu Das	July'23- September'23
	Unit 3: Cnidaria General organization and Classification up to classes Metagenesis in Obelia Polymorphism in Cnidaria Corals and coral reefs: types, formation, distribution, conservation significance	5	Rituparna Maity	July'23- October'23
	Unit 4: Ctenophora General characteristics and evolutionary significance	3	Santanu Das	August'23- October'23
	Unit 5: Platyhelminthes General characteristics and Classification up to classes, Life cycle and pathogenicity of <i>Fasciola hepatica</i> and <i>Taenia solium</i>	6	Dr. S. Rehan Ahmad	July'23- September'23
	Unit 6: Nemathelminthes General characteristics and Classification up to classes, Life cycle, and pathogenicity of <i>Ascaris lumbricoides</i> , and <i>Wuchereria bancrofti</i> Parasitic adaptations in helminths Origin and evolution of parasitic helminths	10	Dr. Anindya Sundar Bhunia	June'23- October'23 June'23-July'23

	DS-I: Non-Chordates I	30	Dr. Indrajit Biswas Rituparna Maity	Acc. To Revised Syllabus 90% completed by end of November
	Study of whole mount of <i>Amoeba</i> , <i>Paramoecium</i> and <i>Euglena</i> , Binary fission and Conjugation in <i>Paramoecium</i>	NA		
	Examination of pond water collected from different places for protistan diversity.	NA		
	Study of Sycon (T.S. and L.S.), Hyalonema, Euplectella, Spongilla	NA		
	Study of Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora	NA		
	One specimen/slide of any Ctenophore	NA		
	Study of adult Fasciola hepatica, Taenia solium	NA		
	Study of adult male and female Ascaris lumbricoides	NA		
SEM-I GENERAL	ANIMAL DIVERSITY			
	Unit-1 Kingdom Protista General characters and classification of Subkingdom Protozoa up to Phylum (Levine et al., 1980)		Dr. Indrajit Biswas	July'23
	Unit-2 Phylum Porifera General character and classification up to classes; Canal System in Sycon		Dr. Indrajit Biswas	August'23
	Unit-3 Phylum Cnidaria General characters and classification up to classes		Dr. Indrajit Biswas	September'23
	Unit-4 Phylum Platyhelminthes General characters and classification up to classes; Life history of Taenia solium		Dr. Anindya Sundar Bhunia	July'23
	Unit-5 Phylum Nematoda General characters and classification up to classes; Life history of Ascaris lumbricoides		Dr. Anindya Sundar Bhunia	August'23
	Unit-6 Phylum Annelida General characters and classification up to classes		Dr. Anindya Sundar Bhunia	September'23
	Unit 7 Phylum Arthropoda General characters and classification up to classes Metamorphosis in Insects		Santanu Das	July-August'23

Unit-8 Phylum Mollusca General characters and classification up to classes; Respiration in Pila		Santanu Das	September-October'23
Unit-9 Phylum Echinodermata General characters and classification up to classes; Water-vascular system in Asterias		Rituparna Maity	July-August'23
Unit-10 Protochordates General features		Rituparna Maity	September'23
Unit-11 Agnatha General features and classification up to classes (Young,1981)		Rituparna Maity	September-October'23
Unit-12 Pisces General features and Classification up to Subclasses (Romer, 1959); Osmoregulation in Fishes		Dr. Rehan Ahmad	July'23
Unit-13 Amphibia General features and Classification up to living orders (Duellman & Trueb, 1986); Metamorphosis in Toad		Dr. Rehan Ahmad	August'23
Unit-14 Reptiles General features and Classification up to living Subclass (Young, 1981); Poisonous and non-poisonous snakes		Dr. Rehan Ahmad	September'23
Unit-15 Aves General features and Classification up to orders (Young, 1981); Flight adaptations in birds		Dr. Rehan Ahmad	October'23
Unit-16 Mammals Classification up to Subclasses (Young, 1981)		Dr. Rehan Ahmad	November'23
ANIMAL DIVERSITY LAB.		Dr. Anindya Sundar Bhunia Santanu Das	90% will be completed on December'23

SEM-III HONOURS	B. WBSU-CBCS Syllabus	60		
	CHORDATES			
	PAPER CODE: ZOOACOR05T			
	Unit 1: Introduction to Chordates General characteristics and outline classification of Phylum Chordata	4	Santanu Das	September'23- September'23
	Unit 2: Protochordata General characteristics and classification of sub phylum Urochordata and Cephalochordata up to Classes. Metamorphosis in Ascidia Chordate Features and Feeding in Branchiostoma	8	Santanu Das	September'23- October'23
	Unit 3: Origin of Chordata Dipleurula concept and the Echinoderm theory of origin of chordates Advanced features of vertebrates over Protochordata	5	Dr. Indrajit Biswas	October'23- October'23
	Unit 4: Agnatha General characteristics and classification of cyclostomes up to order	2	Dr. Indrajit Biswas	November'23
	Unit 5: Pisces General characteristics and classification of Chondrichthyes and Osteichthyes up to Subclasses Accessory respiratory organ, Advanced features of vertebrates over Protochordata, migration and parental care in fishes Swim bladder in fishes. Classification up to Sub- Classes	10	Rituparna Maity	November'23- October'23
	Unit 6: Amphibia General characteristics and classification up to living Orders Metamorphosis with parental care	5	Rituparna Maity	September'23- September'23
Unit 7: Reptilia General characteristics and classification up to living Orders Poison apparatus and Biting mechanism in Snake	7	Dr. Anindya Sundar Bhunia	September'23- October'23	
Unit 8: Aves General characteristics and classification up to Sub Classes, Exoskeleton and migration in Birds, Principles and aerodynamics of flight	7	Dr. Anindya Sundar Bhunia	October'23- November'23	

	<p>Unit 9: Mammals General characters and classification up to living orders, Phylogenetic significance of Prototheria Exoskeleton derivatives of mammals, Adaptive radiation in mammals with referenceto locomotory appendages Echolocation in Microchiropteransand Cetaceans</p>	<p>10</p>	<p>Dr. S Rehan Ahmad</p>	<p>September"23- November"23-</p>
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DEPARTMENT OF ZOOLOGY

Unit 10: Zoogeography Zoogeographical realms, Plate tectonic and Continental drift theory, Distribution of birds and mammals in different realms	2	Dr. S Rehan Ahmad	January'22 (1 st week)
CHORDATES LAB PAPER CODE: ZOOACOR05P	60	Santanu Das	Acc. To Revised Syllabus 90% completed by end of November
PHYSIOLOGY PAPER CODE: ZOOACOR06T	60		
Unit 1: Tissues Structure, locations, classification and functions of epithelial tissues, connective tissues, muscular tissues and nerve tissues	10	Dr. Indrajit Biswas	September'23- July20
Unit 2: Bone and Cartilage Structure and types of bones and cartilages, Ossification	5	Dr. Indrajit Biswas	October'23- November'23
Unit 3: Nervous System Structure of neuron, resting membrane potential, Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers; Types of synapse, Synaptic transmission and Neuromuscular junction, Reflex action and its types	15	Dr. Indrajit Biswas	November'23- November'23
Unit 4: Muscular system Histology of different types of muscle; Ultra structure of skeletal muscle; Molecular and chemical basis of muscle contraction, Characteristics of muscle fiber	10	Santanu Das	September'23- October'23
Unit 5: Reproductive System Histology of testis and ovary; Physiology of Reproduction	5	Dr. Rehan Ahmad	November'23- september'23
Unit 6: Endocrine System Histology and function of pituitary, thyroid, Pancreas, and adrenal. Classification of hormones; Mechanism of Hormone action; Signal transduction pathways for Steroidal and Non-steroidal hormones; Hypothalamus (neuroendocrine gland) - principal nuclei involved in neuroendocrine control of anterior pituitary and endocrine system; Placental hormones	15	Dr. Anindya Sundar Bhunia	September'23- December'23 (1 st Week)

<p align="center">PHYSIOLOGY LAB PAPER CODE: ZOOACOR06T</p>	<p align="center">60</p>	<p>Rituparna Maity</p>	<p>Acc. To Revised Syllabus 90% completed by end of December</p>
<p align="center">BIOCHEMISTRY PAPER CODE: ZOOACOR07T</p>	<p align="center">60</p>		
<p>Unit 1: Fundamentals of biochemical reactions and metabolism Ionization of water, weak acids and bases, buffering and pH changes in living systems, Metabolism: Catabolism and Anabolism, Compartmentalization of metabolic pathways Shuttle systems and membrane transporters; ATP as "Energy Currency of cell"; coupled reactions; Use of reducing equivalents and cofactors; Intermediary metabolism and regulatory mechanisms</p>	<p align="center">10</p>	<p>Dr. Anindya Sundar Bhunia</p>	<p align="center">September'23- October'23</p>
<p>Unit 2: Carbohydrates Structure and Biological importance: Monosaccharides, Disaccharides, Polysaccharides; Derivatives of Monosachharides, Carbohydrate metabolism: Glycolysis, Citric acid cycle, Pentose phosphate pathway, Gluconeogenesis</p>	<p align="center">10</p>	<p>Dr. Indrajit Biswas</p>	<p align="center">October'23- September'23</p>

	<p>Unit 3: Lipids Structure and Significance: Physiologically important saturated and unsaturated fatty acids, Triacylglycerols, Phospholipids, Sphingolipid, Glycolipids, Steroids, Eicosanoids and terpenoids. Lipid metabolism: β-oxidation of fatty acids; Fatty acid biosynthesis</p>	4	Rituparna Maity	October'23- November'23
	<p>Unit 4: Proteins Amino acids Structure, Classification, General and Electro chemical properties of α-amino acids; Physiological importance of essential and non-essential amino acids Proteins Bonds stabilizing protein structure; Levels of organization, Protein metabolism: Transamination, Deamination, Urea cycle, Fate of C-skeleton of Glucogenic and Ketogenic amino acids</p>	14	Dr. Anindya Sundar Bhunia	September'23- November'23
	<p>Unit 5: Nucleic Acids Structure: Purines and pyrimidines, Nucleosides, Nucleotides, Nucleic acids Types of DNA and RNA, Complementarity of DNA, Hypo-Hyperchromaticity of DNA Outlines of nucleotide metabolism</p>	4	Dr. Rehan Ahmad	September'23- October'23
	<p>Unit 6: Enzymes Nomenclature and classification; Cofactors; Specificity of enzyme action; Isozymes, Mechanism of enzyme action; Enzyme kinetics; Derivation of Michaelis-Menten equation, Lineweaver- Burk plot; Factors affecting rate of enzyme-catalyzed reactions; Enzyme inhibition; Allosteric enzymes and their kinetics; Strategy of enzyme action Catalytic and Regulatory (Basic concept with one example each)</p>	12	Santanu Das	September'23- October'23
	<p>Unit 7: Oxidative Phosphorylation Redox systems; Review of mitochondrial respiratory chain, Inhibitors and un-couplers of Electron Transport System</p>	6	Dr. Rehan Ahmad	November'23- December'23(1 st week)

	<p>BIOCHEMISTRY LAB PAPER CODE: ZOOACOR07T</p>	60	Dr. Anindya Sundar Bhunia	Acc. To Revised Syllabus 90% completed by end of December
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	SEC: SERICULTURE	15	Dr. Indrajit Biswas	4 weeks in December'23
	SEC LAB: SERICULTURE	15	Dr. Indrajit Biswas	
SEM-III GENERAL	INSECT VECTOR AND DISEASES PAPER CODE: ZOOGCOR03T	60		
	Unit-1 Introduction to Insects General Features of Insects, Morphological features, Head – Eyes, Types of antennae Mouth parts with respect to feeding habit	4	Santanu Das	September'23-October'23
	Unit-2 Concept of Vectors Brief introduction to Vectors (mechanical and biological), Reservoirs, Host-vector relationship, Adaptations as vectors, Host specificity	6	Dr. Anindya Sundar Bhunia	September'23-October'23
	Unit-3 Insects as Vectors Detailed features of insect orders as vectors – Diptera, Siphonoptera, Siphunculata, Hemiptera	6	Dr. Indrajit Biswas	September'23-October'23
	Unit-4 Dipteran as Disease Vector Study of important Dipteran vectors – Mosquitoes, Sand fly, Houseflies vectors Study of mosquito borne diseases – Malaria, Dengue, Chikungunya, Viral encephalitis, Filariasis Control of mosquitoes	16	Dr. Indrajit Biswas	September'23-December'23(1 st Week)
	Unit-5 Siphonaptera as Disease Vectors Fleas as important insect vectors; Host-specificity, Study of Flea-borne diseases – Plague, Typhus fever; Control of fleas	10	Dr. Rehan Ahmad	September'23-November'23
	Unit-6 Siphunculata as Disease Vectors Human louse (Head, Body and Pubic louse) as important insect vectors; Control of human louse	8	Dr. Rehan Ahmad	September'23-November'23
	Unit-7 Hemiptera as Disease Vectors Bugs as insect vectors; Blood-sucking bugs; Chagas disease, Bed bugs as mechanical vectors, Control and prevention measures	10	Rituparna Maity	September'23-November'23
	INSECT VECTORE AND DISEASES PAPER CODE: ZOOGCOR03P	60	Dr. Indrajit Biswas Santanu Das	Acc. To Revised Syllabus 90% completed by end of December
SEM-V HONOURS	MOLECULAR BIOLOGY PAPER CODE: ZOOACOR11T	60		

	Unit 1: Nucleic Acids Salient features of DNA and RNA Watson and Crick Model of DNA	2	Dr. Anindya Sundar Bhunia	September'23-September'23
	Unit 2: DNA Replication Mechanism of DNA Replication in Prokaryotes, Semi-conservative, bidirectional and discontinuous Replication, RNA priming, Replication of telomeres	6	Dr. Anindya Sundar Bhunia	September'23-October'23
	Unit 3: Transcription Mechanism of Transcription in prokaryotes and eukaryotes, Transcription factors, Difference between prokaryotic and eukaryotic transcription.	8	Dr. Indrajit Biswas	September'23-November'23

	Unit 4: Translation Mechanism of protein synthesis in prokaryotes, Ribosome structure and assembly in prokaryotes, fidelity of protein synthesis, aminoacyl tRNA synthetases and charging of tRNA; Proteins involved in initiation, elongation and termination of polypeptide chain; Genetic code, Degeneracy of the genetic code and Wobble Hypothesis; Inhibitors of protein synthesis; Difference between prokaryotic and eukaryotic translation	14	Dr. Indrajit Biswas	September'23-November'23
	Unit 5: Post Transcriptional Modifications and Processing of Eukaryotic RNA Capping and Poly A tail formation in mRNA; Split genes: concept of introns and exons, splicing mechanism, alternative splicing, exon shuffling, and RNA editing, Processing of tRNA	10	Dr. Rehan Ahmad	September'23-November'23
	Unit 6: Gene Regulation Regulation of Transcription in prokaryotes: lac operon and trp operon; Regulation of Transcription in eukaryotes	5	Dr. Rehan Ahmad	September'23-October'23
	Unit 7: DNA Repair Mechanisms Types of DNA repair mechanisms, RecBCD model in prokaryotes, nucleotide and base excision repair, SOS repair	9	Rituparna Maity	September'23-November'23
	Unit 8: Molecular Lab Techniques PCR, Western and Southern blot, Northern Blot, Sanger DNA sequencing, cDNA technology	5	Santanu Das	September'23-November'23

	MOLECULAR BIOLOGY LAB PAPER CODE: ZOOACOR11P	60	Dr. Anindya Sundar Bhunia	Acc. To Revised Syllabus 90% completed by end of December
	GENETICS PAPER CODE: ZOOACOR12T	60		
	Unit 1: Mendelian Genetics and its Extension Background of Mendel's experiments Principles of Mendelian inheritance, Incomplete dominance and co-dominance, Epistasis, Multiple alleles, Lethal alleles, Pleiotropy, Sex-linked, sex- influenced and sex-limited inheritance, Polygenic Inheritance	12	Santanu Das	September'23- October'23
	Unit 2: Linkage, Crossing Over and Chromosomal Mapping Linkage and Crossing Over, molecular basis of crossing over, Measuring Recombination frequency and linkage intensity using three factor crosses, Interference and coincidence		Santanu Das	October'23- November'23
	Unit 3: Mutations 1.Types of gene mutations (Classification), Types of chromosomal aberrations (Classification with one suitable example of each), Chromosomal aberrations, gene mutations and human diseases (Down's, Klienfelter's, Turner's, Cri du Chat, Sickle cell, Haemophilia, Thallassimia, Albinism only genetical aspects here, details of physiological consequences not required), Sex chromosomes and sex-linked inheritance Non-disjunction and variation in chromosome number; Molecular basis of mutations in relation to UV light and chemical mutagen	12	Dr. Indrajit Biswas	November'23- Sepetember'23
	Unit 4: Sex Determination Mechanisms of sex determination in Drosophila with reference to alternative splicing Sex determination in mammals, Dosage compensation in Drosophila & Human	12	Rituparna Maity	October'20
	Unit 5: Extra-chromosomal Inheritance Criteria for extra chromosomal inheritance, Antibiotic resistance in Chlamyadomonas, Kappa particle in Paramoecium Shell spiralling in snail	8	Rituparna Maity	September'23- October'23
	Unit 6: Recombination in Bacteria and Viruses Conjugation, Transformation, Transduction, Complementation test in Bacteriophage	8	Rituparna Maity	October'23- November'23
	Unit 7: Transposable Genetic Elements Transposons in bacteria, Ac-Ds elements in maize and P elements in	8	Dr Anindya Sundar Bhunia	September'23- November'23

Drosophila, LINE, SINE, Alu elements in humans			
GENETICS LAB PAPER CODE: ZOOACOR12P	60	Dr. S Rehan Ahmad	Acc. To Revised Syllabus 90% completed by end of December
ENTOMOLOGY PAPER CODE: ZOADSEO2T	60		
Unit 1: Introduction General Features of Insects Distribution and Success of Insects on the Earth	2	Dr. Indrajit Biswas	September'23
Unit 2: Insect Diversity and Classifications Classifications of Arthropods with special reference to Insects (Insects are to be classified up to order) with estimated species richness of the orders globally, in India and in West Bengal. Conspicuous/important families/Genera/species of each order have to be noted with their peculiar habits and habitats)	4	Dr. Indrajit Biswas	September'23-October'23
Unit 3: General Morphology of Insects(brief outlines) External Features; Head – Eyes, Types of antennae, Mouth parts w.r.t. feeding habitsThorax: Wings and wing types, Types of Legsadapted to diverse habitats, Peculiar Abdominal appendages and genitalia- only brief introduction.	12	Dr. Indrajit Biswas	October'23-November'23
Unit 4: Physiology of Insects Structure and physiology of Insect body systems - Integumentary, digestive, excretory, circulatory, respiratory, endocrine, reproductive, and nervous system (brief outlines only) Photoreceptors: Types, Structure and Function (brief introductions) Metamorphosis: Types and Neuroendocrine control of metamorphosis (introductory)	16	Santanu Das	September'23-October'23
Unit 5: Insect Society Social insects: different types of social insectswith brief outlines of their social systems Trophallaxis in social insects such as ants, termites and bees	8	Rituparna Maity	October'23-November'23
Unit 6: Insect Plant Interaction Outline of the concept of co-evolution, role ofallo chemicals in host plant mediation, Host-plant selection by phytophagous insects; Major insect pests in paddy (brief introductions)	14	Dr. Rehan Ahmad	November'23

<p>Unit 7: Insects as Vectors Insects as mechanical and biological vectors, Brief discussion on houseflies and mosquitoes as important vectors</p>	<p>4</p>	<p>Dr Anindya Sundar Bhunia</p>	<p>End In 1st Week of January'22</p>
<p>BIOLOGY OF INSECTS LAB PAPER CODE: ZOADSE02P</p>	<p>60</p>	<p>Dr. Indrajit Biswas</p>	<p>Acc. To Revised Syllabus 90% completed by 1st Week of January'22</p>
<p>ANIMAL BEHAVIOUR & CHRONOBIOLOGY PAPER CODE: ZOADSE01T</p>	<p>60</p>		
<p>Unit 1: Introduction to Animal Behaviour 1. A brief history of animal behaviour studies including the works of Fabre, Darwin, Von Frisch, Lorenz, Tinbergen, Jane Goodal, Biruté Galdikas, Dian Fossey, Salim Ali, Gopal Bhattacharyya, M. K. Chandrashekhar, Raghavendra Gadagkar. 2. The objectives of modern animal behaviour studies: Tinbergen's four questions. 3. Methods of studying behaviours: Observation vs Watching, Ad libitum observations, Focal animal studies, Instantaneous scan, etc. 4. Branches of Animal Behaviour Studies</p>	<p>12</p>	<p>Rituparna Maity</p>	<p>September'23- november'23</p>
<p>Unit 2: Behaviours of Individuals 1. Reflexes and Orientations 2. Instinct 3. Learning: Imprinting and other Programmed Learning, Habituation, Innovations and Cultural Transmission / Social Learning</p>	<p>18</p>	<p>Rituparna Maity</p>	<p>September'23- November'23</p>
<p>Unit 3: Social and Sexual Behaviour 1. Social Behaviour: Concept of Sociality, Types of animal Society with examples, Altruism 2. Communications in animals- different types (e.g. pheromones, visuals, tactile, acoustics, etc) with common examples 3. Insects' society with Honey bee as example; Foraging in honey bee and advantages of the waggle dance. 4. Sexual Behaviour: Asymmetry of sex, Sexual dimorphism, Mate choice, Intra-sexual selection (male rivalry), Inter-sexual selection (female choice), Sexual conflict in parental care.</p>	<p>16</p>	<p>Dr. Indrajit Biswas</p>	<p>September'23- 1stWeek of december'23</p>
<p>Unit 4: Introduction to Chronobiology 1. Historical developments in chronobiology; 2. Biological oscillation: the concept of Average, amplitude, phase and period 3. Adaptive significance of biological clocks</p>	<p>14</p>	<p>Santanu Das</p>	<p>September'23- 1stWeek of December'23</p>

	Unit 5: Biological Rhythm 1. Types and characteristics of biological rhythms: Short- and Long- term rhythms; Circadian rhythms; Tidal rhythms and Lunar rhythms; 2. Concept of synchronization and masking; Photic and non-photic zeitgebers; Circannual rhythms; 3. Photoperiod and regulation of seasonal reproduction of vertebrates; Role of melatonin.		Dr.Rehan Ahmad	
	ANIMAL BEHAVIOUR & CHRONOBIOLOGY	60	Rituparna Maity	Acc. To Revised Syllabus 90% completed by 1st week of January '22
SEM-V GENERAL	ANIMAL BEHAVIOUR & CHRONOBIOLOGY	60		

	Unit-1 Introduction to Host-parasite Relationship Host, Definitive host, Intermediate host, Parasitism, Symbiosis, Commensalism, Reservoir, Zoonosis	2	Santanu Das	September"23-September"23
	Unit-2 Epidemiology of Diseases Transmission, Prevention and control of diseases: Tuberculosis, Typhoid	4	Santanu Das	September"23-October"23
	Unit-3 Rickettsia and Spirochetes Brief account of Rickettsia prowazekii, Borrelia recurrentis and Treponema pallidum	6	Dr. Indrajit Biswas	September"23-October"23
	Unit-4 Parasitic Protozoa Life history and pathogenicity of Entamoeba histolytica, Plasmodium vivax and Trypanosoma gambiense	8	Dr. Indrajit Biswas	September"23-November"23

Unit-5 Parasitic Helminthes Life history and pathogenicity of Ancylostoma duodenale and Wuchereriabancrofti	4	Rituparna Maity	September'23- October'23
Unit-6 Insects of Economic Importance Biology, Control and damage caused by Helicoverpa armigera, Pyrilla perpusilla and Papilio demoleus, Callosobruchus chinensis, Sitophilus oryzae and Tribolium castaneum	12	Dr. Rehan Ahmad	November'23- November'23
Unit-7 Insects of Medical Importance Medical importance and control of Pediculus humanus corporis, Anopheles, Culex, Aedes, Xenopsylla cheopis	8	Dr. Rehan Ahmad	October'23- November'23
Unit-8 Animal Husbandry Preservation of semen and artificial insemination in cattle	6	Dr. Rehan Ahmad	September'23- October'23
Unit-9 Poultry Farming Principles of poultry breeding, Management of breeding stock and broilers, Processing and preservation of eggs Unit	6	Dr. Anindya Sundar Bhunia	September November'23-
Unit-10 Fish Technology Genetic improvements in aquaculture industry; Induced breeding and transportation of fish seed	4	Dr. Anindya Sundar Bhunia	October'23- November'23
APPLIED ZOOLOGY LAB PAPER CODE: ZOOGDSE01P	60	Dr. Rehan Ahmad Santanu Das	Acc. To Revised Syllabus 90% completed by end of December

DEPARTMENT OF ZOOLOGY

Academic Calendar
Department of Zoology, HMMCW
January, 2024- June, 2024

A. WBSU- NEP Syllabus
 B. WBSU-CBCS Syllabus

Semester/ Year	A. WBSU- NEP SYLLABUS	No. of Lecture	Teacher Name	Distribution Tentative
SEM-II HONOURS	DS-II: Non-Chordates II	45		
	Unit 1: Introduction to Coelomates Evolution of coelom and metamerism	3	Dr. Indrajit Biswas	July'23- October'23
	Unit 2: Annelida General organization and classification up to classes Excretion and osmoregulation in Annelida	4	Santanu Das	July'23- September' 23
	Unit 3: Arthropoda General characteristics and classification up to classes Respiration in Arthropoda General organization and evolutionary significance: King Crab and Crustacean Larvae	10	Rituparna Maity	July'23- October '23
	Unit 4: Onychophora General organization and evolutionary significance	2	Santanu Das	August'23- October'23
	Unit 5: Mollusca General characteristics and classification up to classes Nervous System and respiration in Mollusca Torsion and detorsion in Gastropoda Evolutionary significance of trochophore larva	10	Dr. S. Rehan Ahmad	July'23- Septembe r'23
	Unit 6: Echinodermata General characteristics and Classification up to classes Water- vascular system in Asteroidea Larval forms in Echinodermata General characteristics and Classification up to classes Water- vascular system in Asteroidea Larval forms in Echinodermata	8	Dr. Anindya Sundar Bhunia	June'23- October'23 June'23- July'23
	Unit 7: Hemichordata General organization of phylum Hemichordata. Phylogenetic	8		

relationship with non-chordates and chordates (only recent concepts) *. Filter feeding in Balanoglossus			
DS-I: Non-Chordates I	30	Dr. Indrajit Biswas Rituparna Maity	Acc. To Revised Syllabus 90% completed by end of November
Annelids - Aphrodita, Nereis, Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Hirudinaria Arthropods - Limulus, Palamnaeus, Palaemon, Daphnia, Balanus, Sacculina, Cancer, Eupagurus, Scolopendra, Julus, Bombyx, Periplaneta, termites and honey bees Onychophora - Peripatus Molluscs - Chiton, Dentalium, Pila, Doris, Helix, Unio, Ostrea, Pinctada, Sepia, Octopus, Nautilus Echinoderms - Pentaceros/Asterias, Ophiura, Clypeaster, Echinus, Cucumaria and Antedon Hemichordates- Saccoglossus	NA		
Mount of mouth parts and dissection of digestive system, nervous system and reproductive system of Periplaneta	NA		
To submit a project on any related to on Land / pond water invertebrate diversity or life cycle of mosquito or Butterfly/moth etc or coral and coral reef. To submit a project on any related topic on Land / pond water invertebrate diversity or life cycle of mosquito or Butterfly/moth etc or coral and coral reef.	NA		
Study of Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora	NA		
One specimen/slide of any Ctenophore	NA		
Study of adult Fasciola hepatica, Taenia solium	NA		
Study of adult male and female Ascaris lumbricoides	NA		

SEM-II GENERAL	Physiology and Biochemistry			
	Unit-1 Nerve and muscle 1. Structure of a neuron, Resting membrane potential, Graded potential, Origin of Action potential and its propagation in myelinated and non-myelinated nerve fibres. 2. Ultra-structure of skeletal muscle, Molecular and chemical basis of muscle contraction.	8	Dr. Indrajit Biswas	July'23
	Unit-2 Digestion Physiology of digestion in the alimentary canal; Absorption of carbohydrates, proteins, lipids	5	Dr. Indrajit Biswas	August'23
	Unit-3 Respiration Pulmonary ventilation, Respiratory volumes and capacities, Transport of Oxygen and carbon dioxide in blood	5	Dr. Indrajit Biswas	September'23
	Unit-4 Excretion Structure of nephron, Mechanism of Urine formation, Counter-current Mechanism	5	Dr. Anindya Sundar Bhunia	July'23
	Unit-5 Cardiovascular system Composition of blood, Homeostasis, Structure of Heart, Origin and conduction of the cardiac impulse, Cardiac cycle	6	Dr. Anindya Sundar Bhunia	August'23
	Unit-6 Reproduction and Endocrine Glands Physiology of male reproduction: hormonal control of spermatogenesis; Physiology of female reproduction: hormonal control of menstrual cycle. Structure and function of pituitary, thyroid, pancreas	7	Dr. Anindya Sundar Bhunia	Spetember'23
	Unit 7 Carbohydrate: Structure and Metabolism Introduction to Carbohydrates, Structure & Types of Carbohydrates, Isomerism, Introduction to Intermediary metabolism: Glycolysis, Krebs cycle, Pentose phosphate pathway, Gluconeogenesis, Electron transport chain	8	Santa nu Das	July-August'23
	Unit-8 Lipid: Structure and Metabolism Introduction to Lipids: Definitions; fats and oils; classes of lipids; Lipoproteins; Biosynthesis and β oxidation of	5	Santanu Das	September-October'23

	palmitic acid			
	Unit-9 Protein: Structure and metabolism Proteins and their biological functions, functions of amino acids, physicochemical properties of amino acids. Peptides – structure and properties; primary structure of protein, secondary, tertiary and quaternary structures. Transamination, Deamination and Urea Cycle.	5	Rituparna Maity	July-August'23
	Unit-10 Enzymes Introduction, Classification of Enzymes, Mechanism of action, Enzyme Kinetics, Inhibition and Regulation	4	Rituparna Maity	September'23
	PHYSIOLOGY AND BIOCHEMISTRY LAB.		Dr. Anindya Sundar Bhunia Santanu Das	90% will be completed on December'23
	WBSU CBCS SYLLABUS			
SEM-IV HONOURS	ZOOACOR08T: Comparative Anatomy			
	Unit 1: Integumentary System Structure, function and derivatives of integument in amphibian, birds and mammals	6		
	Unit 2: Skeletal System Overview of axial and appendicular skeleton; Jaw suspension; Visceral arches	8		
	Unit 3: Digestive System Comparative anatomy of stomach; dentition in mammals	6		
	Unit 4: Respiratory System Respiratory organs in fish, amphibian, birds and mammals	8		
	Unit 5: Circulatory System General plan of circulation, Comparative account of heart and aortic arches	6		
	Unit 6: Urinogenital System Succession of kidney, Evolution of urinogenital ducts, Types of mammalian uteri	6		
	Unit 7: Nervous System Comparative account of brain, Cranial nerves in mammals	6		
	Unit 8: Sense Organs Classification of receptors, Brief account of auditory receptors in vertebrate	4		
	Comparative Anatomy Lab 1. Study of placoid, cycloid and ctenoid scales through permanent slides/photographs 2. Study of disarticulated skeleton of Toad, Pigeon and Guineapig 3. Demonstration of Carapace and plastron of turtle 4. Identification of mammalian skulls:			

One herbivorous (Guineapig) and one carnivorous (Dog) animal			
5. Dissection of Tilapia: Circulatory system, Brain, pituitary, urinogenital system			
Physiology: Life Sustaining system			
Unit 1: Physiology of Digestion Structural organisation and functions of Gastrointestinal tract and Associated glands; Mechanical and chemical digestion of food, absorption of Carbohydrates, Lipids, Proteins and Nucleic Acids; Digestive enzymes	12		
Unit 2: Physiology of Respiration Mechanism of Respiration, Respiratory volumes and capacities, transport of Oxygen and Carbon dioxide in blood, Dissociation curves and the factors influencing it, respiratory pigments; Carbon monoxide poisoning	10		
Unit 3: Physiology of Circulation Components of Blood and their functions; Structure and functions of haemoglobin; Haemostasis; Blood clotting system, Fibrinolytic system; Haemopoiesis: Basic steps and its regulation; Blood groups; ABO and Rh factor	12		
Unit 4: Physiology of Heart Structure of mammalian heart, Coronary Circulation, Structure and working of conducting myocardial fibers, Origin and conduction of cardiac impulses; Cardiac Cycle and cardiac output; Blood pressure and its regulation	8		
Unit 5: Thermoregulation & Osmoregulation Physiological classification based on thermal biology. Thermal biology of endotherms; Osmoregulation in aquatic vertebrates; Extra-renal osmo-regulatory organs in vertebrates	10		
Unit 6: Renal Physiology Structure of Kidney and its functional unit, Mechanism of urine formation, Regulation of acid-base balance	8		
Animal Physiology: Life Sustaining system Lab 1. Determination of ABO Blood group 2. Enumeration of red blood cells and white blood cells using haemocytometer 3. Estimation of haemoglobin using Sahli's haemoglobinometer 4. Preparation of haemin and haemochromogen crystals 5. Recording of blood pressure using a sphygmomanometer/digital meter			
Immunology			
Unit 1: Overview of Immune System Basic concepts of health and diseases, Historical perspective of Immunology, Organs (Primary & Secondary lymphoid organs and its importance) and Cells of the Immune system, Concept of	4		

Haematopoiesis and development of progenitor cells of the Immune system (Brief idea)			
Unit 2: Innate and Adaptive Immunity Principle of Innate and Adaptive Immunity. Components of innate immunity – Epithelial barriers (skin and mucosal membranes [concept]) – Cellular mechanisms (phagocytes, NK cells, mast cells, eosinophils, inflammation [concept]) – Humoral mechanisms (complement, cytokines, chemokines etc. [concept]) Components of adaptive immunity – Cellular mechanisms (Cell-Mediated Immune System (CMIS) or TCell Immunity [concept]) – Humoral mechanisms (Formation of Plasma B cells and Memory B cells [concept])	6		
Unit 3: Antigen, Antigen presentation & MHC Concept of Antigen, Immunogen, Allergen & Pathogen. Adjuvants and haptens, Factors influencing immunogenicity, Epitope. Types of Antigen Presenting Cells (APC), Structure of Major Histocompatibility Complex (MHC) molecules. Mechanism of antigen presentation and involvement of MHC molecules (both MHC-I & MHC-II) in details. Co-stimulatory molecules on APC.	6		
Unit 3: T Cell development Structure of T cell receptors, Co-stimulatory molecules on T cells Concept of synapse between APC & T cells (between MHC=TCR & between Costimulatory molecules) in details. Central differentiation of T cells; T cell selection in thymus Peripheral differentiation of T cells; Th1 & Th2	6		
Unit 4: Immunoglobulins Structure and functions of different classes of immunoglobulins, Antigen- antibody interactions, Immunoassays (ELISA and RIA), Hybridoma technology, Monoclonal antibody production	6		
Unit 6: Cytokines & Chemokines Brief concept on types of Cytokines & Chemokines Cytokines (source & function of IL-1, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12, Interferons, Tumor Necrosis Factors, Tumor Growth Factors, GM-CSF, M-CSF). Chemokines (source & function of CCL2, CCL3, CCL4, CCL5, CxCL8, CxCL10)	4		
Unit 7: Complement System Components and pathways of complement activation.	4		
Unit 8: Hypersensitivity Gell and Coombs' classification and brief description of various types of hypersensitivities	4		
Unit 9: Immunology of diseases Malaria, Visceral Leishmaniasis, Filariasis, Dengue and Tuberculosis	4		
Unit 10: Vaccines Various types of vaccines. Active & passive immunization (Artificial and natural).	4		
Immunology Lab			

	1. Demonstration of lymphoid organs. 2. Histological study of spleen, thymus and lymph nodes through slides/ photographs 3. Preparation of stained blood film to study various types of blood cells. 4. ABO blood group determination. 5. Demonstration of ELISA using kit.			
SEM-IV GENERAL	Immunology			
	Unit-1 Overview of the Immune System Introduction to basic concepts in immunology, components of immune system, principles of innate and adaptive immune system	5		
	Unit-2 Cells and Organs of the Immune System Haematopoiesis, Cells of immune system and organs (primary and secondary lymphoid organs) of the immune system	8		
	Unit-3 Antigens Basic properties of antigens, B and T cell epitopes, haptens and adjuvants	5		
	Unit-4 Antibodies Structure, classes and function of antibodies, monoclonal antibodies, antigen antibody interactions as tools for research and diagnosis	8		
	Unit-5 Working of the immune system Structure and functions of MHC, exogenous and endogenous pathways of antigen presentation and processing, Basic properties and functions of cytokines, Complement system: Components and pathways	12		
	Unit-6 Immune system in health and disease Gell and Coombs' classification and brief description of various types of hypersensitivities, Introduction to concepts of autoimmunity and immunodeficiency	10		
	Unit-7 Vaccines General introduction to vaccines, Types of vaccines	2		
	Immunology Lab. 1. Demonstration of lymphoid organs in human through model/ photograph. 2. Histological study of spleen, thymus and lymph nodes through slides/photographs 3. Preparation of stained blood film to study various types of blood cells. 4. ABO blood group determination			
SEM-VI HONOURS	Developmental Biology			
	Unit 1: Introduction Basic concepts: Phases of Development, Cell-cell interaction, Differentiation and growth, Differential gene expression	2		
	Unit 2: Early Embryonic Development Gametogenesis, Spermatogenesis, Oogenesis; Types of eggs, Egg membranes; Fertilization (External and Internal): Changes in gametes, Blocks to polyspermy; Planes and patterns of cleavage; Types of Blastula; Fate maps (including Techniques); Early development of frog and chick up to gastrulation; Embryonic induction and organizers	20		

<p>Unit 3: Late Embryonic Development Fate of Germ Layers; Extra-embryonic membranes in birds; Implantation of embryo in humans, Placenta (Structure, types and functions of placenta)</p>	8		
<p>Unit 4: Post Embryonic Development Development of brain and Eye in Vertebrate Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each)</p>	12		
<p>Unit 5: Implications of Developmental Biology Teratogenesis: Teratogenic agents and their effects on embryonic development; In vitro fertilization, Stem cell (ESC), Amniocentesis</p>	8		
<p>Developmental Biology Lab 1. Study of whole mounts of developmental stages of chick through permanent slides: Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages) 2. Study of the developmental stages and life cycle of Drosophila from stock culture 3. Study of different sections of placenta (microphotographs/ slides) 4. Project report on Drosophila culture/chick embryo development</p>			
<p>Evolutionary Biology</p>			
<p>Unit 1: Origin of earliest life Chemogeny, RNA world, Biogeny, Origin of photosynthesis, Evolution of eukaryotes, three domains of life</p>	5		
<p>Unit 2: Historical review of evolutionary concept Pre-Darwinian Concepts and theories including Lamarckism, Darwinian Theory Neo-Darwinian Synthesis Anti-evolutionary ideas of Creationism and their scientific refusal</p>	7		
<p>Unit 3: Evidences in favour of Evolution Fossil records: types of fossils, geological time scale, transitional forms: examples of fossils depicting the evolutionary stages of the modern horses Molecular (universality of genetic code and protein synthesis machinery) evidences</p>	4		
<p>Unit 4: Sources of variations Heritable variations present in natural populations (classical study of Lewontin and Hubby, 1966 in Drosophila, as example)</p>	3		
<p>Unit 5: Population genetics Concept of Populations and calculation of allele frequencies in a population Hardy-Weinberg Law and equilibrium (derivations, applications of law to find gene and genotype frequencies in human Populations) Evolutionary forces disrupting H-W equilibrium Natural selection: Definition as the non-differential rate of reproductions and survivals of competing alleles, concept of fitness, selection coefficient, Types of natural selection with examples- Disrupting, Stabilizing, Directional. Genetic Drift- outline of its</p>	16		

mechanism, basic concepts and examples of founder's effect, bottleneck phenomenon; Role of Gene flow and Mutation rates in changing allele frequencies in a population (No mathematical models)			
Unit 6: Products of evolution Inter-population variations: clines, races, Species concepts and modes of speciation (just outlines of Allopatric, Sympatric and Parapatric speciation models with examples), Isolating mechanisms Adaptive radiations/ macroevolution as exemplified by Galapagos finches	10		
Unit 7: Extinctions Major mass extinctions in the history of life and their impacts on biodiversity on earth (brief descriptions)	2		
Unit 8: Origin and evolution of man Unique hominin characteristics contrasted with primate characteristics (including social and cultural ones), Primate phylogeny: from Dryopithecus leading to Homo sapiens, Molecular evidences of human origin and migrations (brief outline)	6		
Unit 8: Molecular Phylogeny The basic concept of molecular phylogeny, Neutral theory of molecular evolution, molecular clock (brief introductions) Example of evolution in vertebrate globin genes	7		
Evolutionary Biology Lab 1. Study of fossils from models/ photographs- Direct ancestors of horses, Archaeopteryx 2. Study of homology and analogy from suitable specimens (from Photographs/models) 3. Verification of Hardy-Weinberg equilibrium in a population by chi square analysis 5. Collection of a sample of height, weight, age, sex data from at least 100 individuals and applying of different statistical analyses (frequency distribution, mean, mode, standard deviations, correlations, etc) and graphical representations.			
Parasitology			
Unit 1: Introduction to Parasitology Brief introduction of Parasitism and other animal associations, Parasite, Parasitoid and Vectors (mechanical and biological vector) Host parasite relationship and zoonosis	3		
Unit 2: Parasitic Protists Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Entamoeba histolytica, Giardia intestinalis, Trypanosoma gambiense, Leishmania donovani, Plasmodium vivax , Plasmodium falciparum and Toxoplasma gondii	15		
Unit 3: Parasitic Nematodes Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spiralis. Study of structure, life	15		

cycle and importance of Meloidogyne (root knot nematode), Pratylenchus (lesion nematode)			
Unit 4: Parasitic Arthropoda Mosquitoes and flies as vectors of human pathogen Biology, importance and control of myiasis causing diptera Biology, importance and control of ticks, mites, Pediculus humanus (head and body louse), Xenopsylla cheopis and Cimex lectularius	3		
Unit 6: Parasitic Vertebrates A brief account of parasitic vertebrates; Cookiecutter Shark, Candiru, Hood Mockingbird and Vampire bat	2		
Parasitology Lab Study of life stages of Entamoeba histolytica, Giardia intestinalis, Trypanosoma gambiense, Leishmania donovani and Plasmodium vivax through permanent slides/micro photographs Study of adult and life stages of Fasciola hepatica, Schistosoma haematobium, Taenia solium and Hymenolepis nana through permanent slides/micro photographs. Study of adult and life stages of Ascaris lumbricoides, Ancylostoma duodenale, Wuchereria bancrofti and Trichinella spiralis through permanent slides/micro photographs .Study of plant parasitic root knot nematode, Meloidogyne from the soil sample Study of Pediculus humanus (Head louse and Body louse), Xenopsylla cheopis and Cimex lectularius through permanent slides/ photographs Study of monogenea from the gills of fresh/marine fish [Gills can be procured from fish market as by product of the industry] Study of nematode/cestode parasites from the intestines of Poultry bird [Intestine can be procured from poultry/market as a by product]			
Wildlife and Conservation			
Unit 1: Introduction to Wild Life Values of wild life; Importance of conservation; Causes of depletion of Wildlife in India;	5		
Unit 2: Evaluation and management of wild life Forest habitats: major forest types of India and West Bengal Forest covers estimation: remote sensing and GIS	12		
Unit 3: Management of habitats Management of Successional wild habitats Forest fire Restoration of degraded wild habitats (The above topics should be learnt mostly in reference to the protected areas in West Bengal)	8		
Unit 4: Population estimation Population and population density estimations: different methods in practice Sex Ratio computation and Fertility status	10		
Unit 5: Wildlife conservation practices in	5		

<p>India Traditional Conservation ethics and practices in India Conservation strategies and Practices: Wildlife Acts (IUCN, WPA of India, CITES etc)</p>			
<p>Unit 6: Management planning of wild life in protected areas Estimation of carrying capacity; Eco tourism / wild life tourism in forests; Concept of climax persistence; Ecology of perturbation.</p>	5		
<p>Unit 7: Man and Wildlife Causes and consequences of human-wildlife conflicts; Mitigation of conflict – an overview; Wildlife/ Ecotourism advantages and disadvantages</p>	5		
<p>Unit 8: Protected areas Major wildlife areas in India (all from West Bengal): Sanctuaries, National Parks, Tiger and other Wildlife Reserves, Biosphere reserves, etc. Community reserve: concepts and examples Management challenges in Tiger reserve</p>	10		
<p>Wildlife and Conservation Lab 1. Identification of common local flora, mammalian fauna, avian fauna, herpetofauna 2. Demonstration of basic equipments needed in wildlife studies use, care and maintenance (Compass, Binoculars, Range Finders, Global Positioning System, Various types of Cameras and lenses) 3. Familiarization and study of animal evidences in the field; Identification of animals through pug marks, hoof marks, scats, pellet groups, nest, antlers, etc. 4. Demonstration of different field techniques for flora and fauna 5. Quadrat and other methods for ground cover assessment, Height-Girth relationships in trees, Canopy cover assessment in a patch of vegetations. 6. Trail / transect monitoring for abundance and diversity estimation of mammals and birds, butterflies (direct and indirect evidences)</p>			

DAKSHINESWAR HIRALAL MAZUMDER COLLEGE FOR WOMEN

ACADEMIC CALENDER – 2023-2024

DEPARTMENT OF BENGALI

Semester	Syllabus Module/Unit	No. Of Lecture	Teacher's Name	Distribution Tentative
1 st Semester Honours <i>Majon</i> (NEP)	CC-1 (Pragadhunik Bangla Sahitya)	18 Hrs	D.G.B	July'23 Dec'23
	Unit-I			
	Unit-II	19 Hrs	T.A	
	Unit-III	19 Hrs	P.M	
	Unit-IV	19 Hrs	K.C	

1 st Semester Gen (NEP) <i>Minon</i>	Unit-I	18 Hrs	D.G.B	
	Unit-II	19 Hrs	T.A	
	Unit-III	19 Hrs	P.M	
	Unit-IV	19 Hrs	A.G	

2 nd Semester Honours (CBCS)	CC-3 (Bhasatotto)	18 Hrs	A.G	Jan'24 June'24
	Unit-I	19 Hrs	P.M	
	Unit-II	19 Hrs	D.G.B	
	Unit-III	19 Hrs	K.C	
	Unit-IV			
	CC-4 (Sahityer Itihas Adhunik Jug)			
	Unit-I	18 Hrs	K.C	
	Unit-II	19 Hrs	T.A	
	Unit-III	19 Hrs	S.C	
	Unit-IV	19 Hrs	D.G.B	
2 nd Semester (DSE/GE) (CBCS)	Bhasatotto			
	Unit-I	18 Hrs	A.G	
	Unit-II	19 Hrs	P.M	
	Unit-III	19 Hrs	T.A	
	Unit-IV	19 Hrs	D.G.B	
AECC	Sahaj Path o Byakoron	30 Hrs	P.M, A.G	
3 rd Semester (Honours) (CBCS)	CC-5 (Chanda, Alankar)			July'23 Dec'23
	Unit-I	18 Hrs	A.G	
	Unit-II	19 Hrs	A.G	
	Unit-III	19 Hrs	D.G.B	
	Unit-IV	19 Hrs	D.G.B	
	CC-6 (Natok o Theatre)			
	Unit-I	18 Hrs	T.A	
	Unit-II	19 Hrs	K.C	
	Unit-III	19 Hrs	P.M	
	Unit-IV	19 Hrs	D.G.B	
	CC-7 (Probondho)			

	Unit-I	18 Hrs	P.M	
	Unit-II	19 Hrs	K.C	
	Unit-III	19 Hrs	A.G	
	Unit-IV	19 Hrs	S.C	
3 rd Semester (DSE/GE) (CBES)	Unit-I	18 Hrs	A.G	
	Unit-II	19 Hrs	P.M	
	Unit-III	19 Hrs	S.C	
	Unit-IV	19 Hrs	D.G.B	
MIL	Unit-I	18 Hrs	T.A	
	Unit-II	19 Hrs	K.C	
	Unit-III	19 Hrs	P.M	
	Unit-IV	19 Hrs	S.C	
SEC-1	(Cinema o Sahityo)	19 Hrs	K.C	
	Unit-I	15 Hrs	K.C	
	Unit-II	15 Hrs	D.G.B	
4 th Semester (Honours) (CBES)	CC-8	18 Hrs	T.A	Jan'24 June'24
	Unit-I	18 Hrs	T.A	
	Unit-II	19 Hrs	K.C	
	Unit-III	19 Hrs	P.M	
	Unit-IV	19 Hrs	S.C	
	CC-9	18 Hrs	A.G	
	Unit-I	18 Hrs	A.G	
	Unit-II	19 Hrs	P.M	
	Unit-III	19 Hrs	T.A	
	Unit-IV	19 Hrs	D.G.B	

	CC-10 Unit-I Unit-II Unit-III Unit-IV	18 Hrs 19 Hrs 19 Hrs 19 Hrs		
4 th Semester (DSE/GE) (cebes)	Sishu Kishore Sahitya Unit-I Unit-II Unit-III Unit-IV	18 Hrs 19 Hrs 19 Hrs 19 Hrs	A.G P.M T.A D.G.B	
MIL	Unit-I Unit-II Unit-III Unit-IV	18 Hrs 19 Hrs 19 Hrs 19 Hrs	T.A K.C P.M S.C	
5 th Semester (Honours) (cebes)	CC-11 (Adhunik Upanyas) Unit-I Unit-II Unit-III Unit-IV CC-12 (Adhunik Chotogolpo) Unit-I Unit-II Unit-III Unit-IV	18 Hrs 19 Hrs 19 Hrs 19 Hrs 18 Hrs 19 Hrs 19 Hrs 19 Hrs	A.G P.M S.C D.G.B T.A K.C P.M D.G.B	July'23 Dec'23

5 th (DSE/GE) (CBCS)	DSC-1 (Mangal Kabya)			
	Unit-I			
	Unit-II			
	Unit-III			
	Unit-IV			
	Unit-I			
	DSC-2 (Probondho)			
	Unit-II			
	Unit-III			
	Unit-IV			
6 th Semester (Honours) (CBCS)	CC-13			
	Unit-I	18 Hrs	T.A	Jan'24 June'24
	Unit-II	19 Hrs	K.C	
	Unit-III	19 Hrs	P.M	
	Unit-IV	19 Hrs	S.C	
	CC-14			
	Unit-I	18 Hrs	A.G	
	Unit-II	19 Hrs	P.M	
	Unit-III	19 Hrs	T.A	
	Unit-IV	19 Hrs	D.G.B	

	DSC-1 (Natok)	18 Hrs	A.G	
	Unit-I	19 Hrs	P.M	
	Unit-II	19 Hrs	T.A	
	Unit-III	19 Hrs	D.G.B	
	Unit-IV			
	DSC-2 (Deshbhag)	18 Hrs	T.A	
	Unit-I	19 Hrs	K.C	
	Unit-II	19 Hrs	P.M	
	Unit-III	19 Hrs	S.C	
	Unit-IV			
6 th Semester (DSE) (cebes)	Unit-I	18 Hrs		
	Unit-II	19 Hrs		
	Unit-III	19 Hrs		
	Unit-IV	19 Hrs		

Academic Calendar 2023-2024

Department of Chemistry

Semester	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution
1 st Semester (major)	Atomic structure and chemical periodicity	1. Atomic structure and chemical periodicity	15L	CP+SS	4 weeks
	Basics of organic chemistry	1. IUPAC Nomenclature 2. VSEPR 3. Pi-MO Diagrams 4. Aromaticity 5. Acidity Basicity	15L	DC+AD	2 weeks
	Kinetic theory of gas	1. Distribution of Velocity in 1D 2. Maxwell's distribution of curve 3. Collisions of gas molecule	15L	SB+AB	4 weeks
	Practical	1. Preparation of standard solutions 2. Standardisation of secondary standard solution 3. Identification of Pure Organic compounds 4. Determination of boiling points of different organic compounds 5. Determinations of molecular properties of liquids	60L	SB+SS+AD+DC	10 weeks

Anvita Banerjee

Semester	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Distribution
1 st Semester (Minor)	Inorganic Chemistry	1. Atomic structure 2. Chemical periodicity 3. Acids and bases	30L	CP+SS	6 weeks
	Organic Chemistry	1. Fundamentals of organic chemistry 2. Aliphatic Hydrocarbons	30L	DC+AD	6 weeks
	Physical Chemistry	1. Kinetic Theory of Gas and Real gas 2. Liquids	30L	SB+AB	6 weeks
	Practical	1. Preparation of standard solution 2. Determinations of single solid & liquid compound 3. Preparation of green bromination of acetanilid & Dibenzalacetone 4. Determination of Relative viscosity of a solution & relative surface tension of a solution	30L	SB+SS+AD+DC	8 weeks

Semester	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Distribution
2 nd Semester (Major)	Unit-1	Acid base reactions	15L	CP	4 weeks

Anurita Banerjee

	Unit-2	Stereochemistry	15L		6 weeks
	Unit-3	Chemical kinetics	15L		6 weeks
	Practical	<ol style="list-style-type: none"> 1. Acid-Base Titrations 2. Qualitative analysis of single solid Organic compounds 3. Study of kinetics of simple chemical reactions 	60L	SB+AB	10 weeks

Semester	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Distribution
2 nd Semester (Minor)	Unit-1: Inorganic Chemistry	Chemical bonding and molecular structure	15L	CP+SS	6 weeks
	Unit-2: Organic chemistry	Stereochemistry	15L	DC+AD	6 Weeks
	Unit-3: Physical chemistry	<ol style="list-style-type: none"> 1. Chemical energetics 2. Chemical equilibrium 	15L	SB+AB	6 Weeks
	Practical	<ol style="list-style-type: none"> 1. Estimation of inorganic ions 2. Analysis of unknown organic compounds 3. Determinations of solubility product 	30L	SB+SS+DC+AD	6 weeks

Annita Banerjee

Academic Calendar 2024-2025

Department of Chemistry

NEP SYSTEM

Semester	Syllabus Module/ Unit	Topic	No. of lectures (Hours)	Teachers	Distribution
3 rd Semester (MINOR)	Unit I	1. Radioactivity 2. Chemical Bonding	20	AB+SB+DC+AD Faculty from other institute (special lecture)	10 weeks
	Unit II	1. Alcohol and ethers 2. Carbonyls	20	DC+AD	10 weeks
	Unit III	Chemical Kinetics	20	AB+SB	10 weeks
	Practical	1. Estimation Na_2CO_3 NaHCO_3 mixture using anhydrous Na_2CO_3 as primary standard 2. Estimation of oxalate- oxalic acid mixture using KMnO_4 as titrant 3. Estimation of aniline 4. Hydrolysis of Benzamide to benzoic acid 5. Determination of heat of solution of Strong acid (HCl) and strong base (NaOH) 6. Determination of heat of solution of Weak acid (AcOH) and strong base (NaOH)	30	AB+SB+DC+AD	16 weeks

Anvita Banerjee

Department of Economics
Session: 2023-24
Odd Semester

Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution
1 st Semester	General	Introductory Microeconomics	Unit 1: Basic Concepts	10H	SMB	September 23
			Unit 2: Consumers' Behaviour	18H	SMB	September and October 23
			Unit 3: Producers' Behaviour	18H	SMB	October 23
			Unit 4: Market Structure: Perfect Competition	10H	SMB / RC	November 23
			Unit 5: Market Structure: Imperfect Competition	5H	SMB / RC	December 23
			Unit 6: Theory of Factor Prices: Rent and Wages	14H	SMB / RC	December 23
3 rd Semester	General	Indian Economics	Unit 1: Basic Concepts of Development	15H	SMB / RC	September 23
			Unit 2: Development Planning & Its Necessity	15H	SMB / RC	September and October 23
			Unit 3: Population and Economic Development	10H	SMB / RC	October 23
			Unit 4: Concept and Role of Domestic Capital Formation in an Underdeveloped Country	10H	SMB / RC	November 23
			Unit 5: Foreign Investment	8H	SMB / RC	December 23
			Unit 6: Role of International Institutions	7H	SMB / RC	December 23
			Unit 7: Gender Related Issues	10H	SMB / RC	December 23
5 th Semester	General	Introductory Micro eco	Unit 1: Basic Concepts	10H	SMB / RC	September 23
			Unit 2: Consumers' Behaviour	18H	SMB / RC	September and October 23
			Unit 3: Producers' Behaviour	18H	SMB / RC	October 23
			Unit 4: Market Structure: Perfect Competition	10H	SMB / RC	November 23
			Unit 5: Market Structure: Imperfect Competition	5H	SMB / RC	December 23
			Unit 6: Theory of Factor Prices: Rent and Wages	14H	SMB / RC	December 23

Even Semester

Session: 2023-24

Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution
2nd Semester	MDC	Understanding Economics	Explaining the subject matter of Economics	2H	SMB	Apr and May 24
			Supply and Demand: How Markets Work	10H	SMB	My to Mid June 24
			Macroeconomics: An Overview	13H	SMB	Mid June to July 24
			Indian Economy	20H	SMB	Aug to mid sept 24
2 nd Semester	General	Introductory Macroeconomics	Unit 1: National Income	20H	SMB / RC	March 24
			Unit 2: Macroeconomic Theories	20H	SMB / RC	April 24
			Unit 3: Money and Banking	20H	SMB / RC	May 24
			Unit 4: Inflation	15H	SMB / RC	June 24
4 th Semester	General	Microeconomics	Unit 1: Consumer Behaviour	15H	RC	March and April 24
			Unit 2: Demand and Supply	15H	RC	May 24
			Unit 3: Production and Cost	15H	RC	June 24
6 th Semester	General	Introductory Macroeconomics	Unit 1: National Income	20H	SMB / RC	March 24
			Unit 2: Macroeconomic Theories	20H	SMB / RC	April 24
			Unit 3: Money and Banking	20H	SMB / RC	May 24
			Unit 4: Inflation	15H	SMB / RC	June 24

Assessment and Examination

Session: 2023-24

Semester	(Hons /General)	Internal Assessment(Probable time)	University Examination
I	General	Internal Assessment	December 23
II	General	Internal Assessment	December 23
III	General	Internal Assessment	December 23
IV	General	Internal Assessment	June 24
V	General	Internal Assessment	June 24
VI	General	Internal Assessment	June 24



Hiralal Mazumdar Memorial College for Women
Academic Calendar 2023-24
Department of Political Science

Session & Semester	Topic	Teacher's name	No. of Lectures	When
2023-24 (Odd) Semester I	Core Course 1: Understanding Political Theory Course Code: PLSACOR01T Credit: 6			
	Module 1. What is Political and what is Political Science	Principal Madam	15	Sept-Nov, 2023
	Module 2. Approaches to the study: <ul style="list-style-type: none"> • Traditional • Marxist • Behavioural & Post-behavioural 	RS	25	Sept - Dec, 2023
	Module 3. Models of studying Political Theory <ul style="list-style-type: none"> • Authority Models (Weber) • Systems Analysis • Structural functional Model • Post Modernism (to be studied at the backdrop of current debates) 	RS	35	Dec - Feb 2023/4
	Core Course II: Constitutional Government and Democracy in India Course Code: PLSACOR02T Credit: 6			
	Module I: Constitution of India (Article-wise) Preamble Fundamental Rights Directive Principles of State Policy	AB	30	Sept - Feb 2023/4
	Module II: Federalism Centre - State relations	SG	20	Do
Module III: Constitution of India: Structure, Process, Behavior Union Government: <ul style="list-style-type: none"> • Executive (total as it is in the constitution); • Legislature (total, according to the Constitution) • Judiciary (total, following the articles of the constitution with two additional dimensions: landmark decisions and PIL) a) State Government: Executive, Legislature, Judiciary (In the same way as the Union government is to be studied)	PM	30	Do	



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Academic Calendar 2023-24

Department of Political Science

Sem I (GE/DSC)	GE/DSC -I: Introduction to Political Theory Course Code: PLSHGEC01T/PLSGCOR01T Credit: 6			
	Module I. <ul style="list-style-type: none"> • Introducing the subject • What is Politics? • What is Political Theory and what is its relevance? 	RS	25	Sept – Feb 2023/4
	Module II. Concepts Democracy, Liberty, Equality, Justice, Rights, Gender, Citizenship, Civil Society and State	SG & AB	25	Do
	Module III. Debates in Political Theory: <ul style="list-style-type: none"> • Is democracy compatible with economic growth? • On what grounds is censorship justified and what are its limits? • Does protective discrimination violate principles of fairness? • Should the State intervene in the institution of the family? 	PM	25	Do
	Core Course V: Course Title - Introduction to Comparative Government and Politics Course Code: PLSACOR05T Credit: 6			
	Module – I. Understanding Comparative Politics (RS) <ul style="list-style-type: none"> • Nature and scope • Going beyond Eurocentrism 	RS	25	Aug – Jan 23/4
	Module – II. Historical context of modern government <ul style="list-style-type: none"> • Capitalism: meaning and development: globalization • Socialism: meaning, growth and development • a. Colonialism and decolonization: meaning, context, forms of colonialism; anti- colonialism struggles and process of decolonization 	AB	25	Do
	Module – III. Themes for comparative analysis A comparative study of constitutional developments and political economy in the following countries: Britain, Brazil and China	SG	25	Do



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Academic Calendar 2023-24

Department of Political Science

Sem III Core	Core Course VI: Course Title - Perspectives on Public Administration Course Code: PLSACOR06T Credit: 6			
	Module I: Public Administration as a Discipline <ul style="list-style-type: none"> • Meaning, Dimensions and Significance of the discipline Public and Private Administration • Evolution of Public Administration 	Principal Madam	25	Do
	Module II. Theoretical Perspectives CLASSICAL THEORIES: <ul style="list-style-type: none"> • Scientific management (F.W. Taylor), • Administrative Management (Gullick, Urwick and Fayol) • Ideal-type bureaucracy (Max Weber) • NEO-CLASSICAL THEORIES - Human relations theory, (Elton Mayo), • Rational decision-making (Herbert Simon) • CONTEMPORARY THEORIES: Ecological approach (Fred Riggs), • Innovation and Entrepreneurship (Peter Drucker) 	RS	25	Do
	Module III: Major Approaches in Public Administration <ul style="list-style-type: none"> • New Public Administration, • New Public Management, • New Public Service Approach, • Good Governance, • Feminist Perspectives 	RS	25	Do
	Core Course VII: Course Title - Perspectives on International Relations and World History Course Code: PLSACOR07T Credit: 6			
	Module I: Studying International Relations <ul style="list-style-type: none"> • How do you understand International Relations: Levels of Analysis; • History and IR: Emergence of the International State System; • Pre-Westphalia and Westphalia, Post-Westphalia 	PM	25	Do
	Module II: Theoretical Perspectives Classical Realism & Neo-Realism, Liberalism & Neo-liberalism, Marxist Approaches, Feminist Perspectives, Eurocentrism and Perspectives from the Global South	PM	25	Do



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	Module III: An Overview of Twentieth Century IR History World War I: Causes and Consequences, Significance of the Bolshevik Revolution, Rise of Fascism / Nazism, World War II: Causes and Consequences, Cold War: Different Phases, Emergence of the Third World, Collapse of the USSR and the End of the Cold War, Post-Cold War Developments and Emergence of other Power Centers of Power	PM	25	Do
Semester III (GE/DSC)	GE/DSC -III: Comparative Government and Politics Course Code: PLSHGEC03T / PLSGCOR03T Credit: 6			
	Module I. Understanding Comparative Politics (RS) Nature and scope Going beyond Eurocentrism	RS	25	Do
	Module II. Historical context of modern government Capitalism: meaning and development: globalization - SG Socialism: meaning, growth and development - SG Colonialism and decolonization: meaning, context, forms of colonialism; anti-colonialism struggles and process of decolonization - AB	SG & AB	25	Do
	Module III. Themes for comparative analysis A comparative study of constitutional developments and political economy in the following countries: Britain, Brazil and China.	PM	25	Do
Semester V (Hons)	Core Course XI: Course Title: Classical Political Philosophy Course Code: PLSACOR11T Credit: 6			
	Module I. Antiquity Plato: Philosophy and Politics, Theory of Forms, Justice, Philosopher King/Queen, Communism; Critique of Democracy; Women and Guardianship, Censorship Aristotle: Virtue, Citizenship, Justice, State and Household - Classification of governments; man, as zoon politikon	RS	25	Sept – Feb, 23/4
	Module II. Interlude: Machiavelli: Virtue, Religion, Republicanism, morality and statecraft; vice and virtue	Principal Madam	25	Do
	Module III. Hobbes, Locke and Rousseau <ul style="list-style-type: none"> • Hobbes: Human nature, State of Nature, Social Contract, State; Social Contract; Leviathan; atomistic individuals. (AB) • Locke: Laws of Nature, Natural Rights, Property, Natural rights; right to dissent; justification of property (PM) • Rousseau: State of Nature, Social Contract, General Will (SG) 	AB, PM, SG	25	Do



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Department of Political Science

	<p>Core Course XII: Course Title: Indian Political Thought - I Course Code: PLSACOR12T Credit: 6</p>			
	<p>Module I. Traditions of Pre-colonial Indian Political Thought Brahmanic and Shramanic, Islamic and Syncretic.</p>	SG	25	Do
	<p>Module II. Outline of ancient Indian Political Thought a. Ved Vyasa (Shantiparva): Rajadharma b. Manu: Social Laws c. Kautilya: Theory of State, Saptanga, Danda, Law d. Aggannasutta (Digha Nikaya): Theory of kingship</p>	RS	25	Do
	<p>Module III. Outline of Islamic and Syncretic Thought a. Barani: Ideal Polity b. Abul Fazal: Monarchy c. Kabir: Syncretism</p>	PM	25	Do
	<p>Discipline Specific Elective 1: Reading Gandhi Course Code: PLSADSE01 Credit: 6 (Hons/GE both)</p>			
	<p>Module I. Gandhi on Modern Civilization and Modern Industrialization based on Large and Heavy Industries and Alternative Modernity; critique of development</p>	RS	25	Do
	<p>Module II. Gandhian Thought: Theory and Action</p> <ul style="list-style-type: none"> • Theory of Satyagraha, • Satyagraha in Action: Peasant Satyagraha-Kheda • Idea of Trusteeship • Gandhi on all-inclusive Development Sarvodaya on Untouchability and Dalit emancipation 	RS	25	Do
	<p>Module III. Gandhi on Women's Development and on Women's Movement Gandhi on peace and Preservation of Nature</p>	SG	25	Do
	<p>Discipline Specific Elective III: Understanding Global Politics Course Code: PLSADSE03T Credit: 6</p>			
	<p>Module I. Globalization: Conceptions and Perspectives a. Understanding Globalization and its Alternative Perspectives b. Political: Debates on Sovereignty and Territoriality c. Global Economy: Its Significance and Anchors of Global Political Economy: IMF, World Bank, WTO, TNCs</p>	PM	25	Do
Semester V (Hons. & GE / DSE)				



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Department of Political Science

	Module II. Identity and Culture: Crisis of Coexistence (PM) Global Inequalities Violence: Conflict, War and Terrorism Global Civil Society: Proliferation of Nuclear Weapons; International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments; Migration; Human Security	PM	25	Do
	Module III. Global Environment a. Ecological Issues: Historical Overview of International Environmental Agreements, Climate Change, Global Commons Debate	PM	25	Do
Semester II (Even)	Core Course 2.1: Political Theory-Concepts and Debates Course Code: PLSACOR03T Credit: 6			
	Module - 1. Core political concepts: Nationalism and nation state Sovereignty: Monism, Pluralism	RS	25	Jan/Feb - May / June 2024
	Module - 2. Core Concepts and Debates: Rights, Liberty, Equality - AB Justice: Plato, Rawls - SG	AB SG	25	Do
	Module - 3. Theories of State - SG (P) Idealist Theory Liberal and Neo-liberal Theories	Principal Madam	25	Do
	Core Course 2.2: Political Process in India Course Code: PLSACOR04T Credit: 6			
	Module - 1. Structure and process of election system - Party system in India: features and trends; coalition Governments - SG Electoral process: Election Commission— Composition and Functions - AB	SG AB	25	Do
	Module 2. Issues in contemporary politics - Regionalism in India - RS Role of Religion, Caste, Dalits, Women - PM	RS PM	25	Do
	Module 3. The concerns - PM Corruption and politics: Measures to curb corruption in Indian politics Media and politics	PM	25	Do
	GE/DSC Paper II: Indian Government and Politics: Structure, Process, Behavior Course Code: PLSHGEC02T/PLSGCOR02T Credit: 6			
	Evolution: SG (P) Making of the Constitution by the Constitutional Advisor, the Drafting Committee and finally the Constituent assembly Constitution of India (Article-wise) - RS Preamble	Principal Madam RS	15 25	Do Do



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Academic Calendar 2023-24

Department of Political Science

	Fundamental Rights Directive Principles of State Policy Federalism			
	Constitution of India Union Government: Executive (total as it is in the constitution) Legislature (total, according to the Constitution) Judiciary (total, following the articles of the constitution with two additional dimensions: landmark decisions and PIL - PM State Government: Executive, Legislature, Judiciary (In the same way as the Union government is to be studied) - SG Public Services: Union Service, State service, All India Services (total that includes recruitment, training, service conditions) Public service Commission (UPSC and PSC) - AB	PM SG AB	35	
Semester IV	Core Course 4.1: Political Processes and Institutions in Comparative Perspective Course Code: PLSACOR08T Credit: 6			
	Module I. Approaches to Studying Comparative Politics - RS Political Culture New Institutionalism	RS	25	Do
	Module II. Nation-state: What is nation–state? Historical evolution in Western Europe and postcolonial contexts—Nation and State: debates Process of democratization in postcolonial, post- authoritarian and post- communist countries	RS	25	Do
	Module III <ul style="list-style-type: none"> Federalism: Historical context—Federation and Confederation: debates around territorial division of power: USA, Canada, India - AB Nature of Party System: Historical contexts of emergence of the party system and types of parties - SG Nature of party System: USA, UK, China- SG 	AB SG	25	Do
	Core Course 4.2: Public Policy and Administration in India Course Code: PLSACOR09T Credit: 6			
	Module I. Public Policy – SG (P) Concept, relevance and approaches, Definition, characteristics and models Public Policy Process in India	Principal Madam		



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Department of Political Science

	Formulation, implementation and evaluation Social Welfare Policies: Education: Right to Education, National Education Policy, Kothari Commission. Health: National Health Mission. Food: Right to Food Security Employment: JNNURM, MGNREGA			
Semester IV	Module II. <ul style="list-style-type: none"> • Decentralization – SG Meaning, significance and approaches and types <ul style="list-style-type: none"> • Local Self Governance: Rural and Urban –With Special Reference to West Bengal Citizen and Administration Interface – RS • Public Service Delivery Redressal of Public Grievances: RTI, Lokpal, Citizens’ Charter and E- Governance	SG RS	25	Do
	Module III. Budget - Concept and Significance of Budget, Budget Cycle in India, Various Approaches and Types of Budgeting, Vote on Account, Zero Base Budgeting, Performance Budgeting	AB	25	Do
	Core Course 4.3: Global Politics Course Code: PLSACOR10T Credit: 6			
	Globalization: Conceptions and Perspectives - Understanding Globalization and its Alternative Perspectives ii. Political: Debates on Sovereignty and Territoriality Global Economy: Its Significance and Anchors of Global Political Economy: IMF, World Bank, WTO, TNCs Cultural and Technological Dimension Global Resistances (Global Social Movements and NGOs)	RS	30	Do
	Contemporary Global Issues - Ecological Issues: Historical Overview of International Environmental Agreements, Climate Change, Global Commons Debate Proliferation of Nuclear Weapons International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments, Migration, Human Security	PM	30	Do
	Global Shifts: Power and Governance	PM	15	May-June 2024



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Department of Political Science

GE/DSC	GE/DSC Paper IV: Introduction to International Relations Course Code: PLSHGEC04T/PLSGCOR04T Credit: 6			
	M I: Studying International Relations How do you understand International Relations: Levels of Analysis? History and IR: Emergence of the International State System	RS	25	Jan – June 2024
	M II: Theoretical Perspectives – PM <ul style="list-style-type: none"> • Classical Realism & Neo-Realism • Liberalism & Neo-liberalism • Marxist Approaches • Feminist Perspectives 	PM	25	Do
	M III: An Overview of Twentieth Century IR History - PM World War I: i. Causes and Consequences ii. Significance of the Bolshevik Revolution iii. Rise of Fascism / Nazism World War II: Causes and Consequences Cold War: Different Phases Emergence of the Third World Collapse of the USSR and the End of the Cold War Post-Cold War Developments and Emergence of Other Power Centers of Power Indian as an Emerging Power—Indian Foreign Policy	PM	25	
Semester VI	Core Course 6.1: Modern Political Philosophy Course Code: PLSACOR13T Credit: 6			
	Module I Modernity and its discourse (Two essential readings) - Kant. (1784) What is Enlightenment? George Wilhelm Friedrich Hegel: Civil Society and State	Principal Madam RS	25	Jan – June 24
	Module II. Feminist Discourse - Mary Wollstonecraft: Vindication of Rights of Women Betty Friedan: The Feminine Mystique	PM	25	Do
	Module III. Liberal socialist and Radicals - John Stuart Mill: Liberty, suffrage and subjection of women, right of minorities; utility principle Karl Marx: Alienation; Dialectical materialism, Historical Materialism, Class and class struggle Antonio Gramsci: Civil Society and Hegemony	SG	25	Do



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Department of Political Science

	Core Course 6.2: Indian Political Thought - II Course Code: PLSACOR14T Credit: 6			
	Module I. Introduction to Modern Indian Political Thought - Rammohan Roy: Rights Pandita Ramabai: Gender Vivekananda: Ideal Society	RS	25	Do
	Module - II Gandhi: Swaraj Ambedkar: Social Justice Tagore: Critique of Nationalism	SG	25	Do
	Module III <ul style="list-style-type: none"> • Iqbal: Community • Savarkar: Hindutva • Nehru: Secularism • Lohia: Socialism 	AB		
Semester VI	Discipline Specific Elective: Governance: Issues and Challenges Course Code: PLSADSE06T Credit: 6			
	Module 1. Government and Governance: Concepts - Role of State in the era of Globalisation; State, Market and Civil Society	RS	25	Do
	Module 2. Environmental Governance - Human-Environment Interaction Green Governance: Sustainable Human Development	PM	25	Do
	Module -3. Good Governance - <ul style="list-style-type: none"> • Initiatives in India: Best Practices • Public Service Guarantee Acts • Electronic Governance • Citizens Charter & Right to Information • Corporate Social Responsibility 	PM	25	Do
	Discipline Specific Elective: Understanding Global Politics Course Code: PLSGDSE03T Credit: 6			
	Globalization: Conceptions and Perspectives - <ul style="list-style-type: none"> • Understanding Globalization and its Alternative Perspectives • Political: Debates on Sovereignty and Territoriality 	AB	25	Do



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Department of Political Science

GE/DSC	<ul style="list-style-type: none">Global Economy: Its Significance and Anchors of Global Political Economy: IMF, World Bank, WTO, TNCs			
	What Drives the World Apart? - <ul style="list-style-type: none">Global InequalitiesViolence: Conflict, War and Terrorism	PM	25	Do
	Why We Need to Bring the World Together? - <ul style="list-style-type: none">Global Environment: Ecological Issues: Historical Overview of International Environmental Agreements, Climate Change, Global Commons DebateGlobal Civil Society: Proliferation of Nuclear Weapons; International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments; Migration; Human Security	PM	25	Do

Department of _____URDU_____

Session: 2023-2024

Semester	(Hons /General)	Syllabus Module/Unit	Topic	No. of lectures (Hours)	Teachers	Distribution	Project/ Seminar(if any)
For ODD Semesters							
Paper code: URDDSC101T (MAJOR)							
SEMESTER: 1	Major	Unit:I	Urdu mein afsanwi nasr ki rawayet	5	K.R	JULY	
			Dastan: Fan,Aghaz o Irteqa	5	K.R	JULY	
			Matn: Bagh O Bahar (Mir Aman Dehlwi),Sir Gujisht Azad Nakht	8	K.R	JULY	
			Fasana Ajayeb (Rjab Ali Baigh Surur)Mukammal Dibacha	7	K.R	AUG	
			Novel:Fan , Aghaz o Irteqa	5	S.K	AUG	
			Matn: Goudan (Prem Chand)	6	S.K	AUG	
			Afsana: Fan , Aghaz O Irteqa	5	S.K	SEP	
			Matn: Kafan (Prem Chand)	6	S.K	SEP	
			Matn: Toba Tek Singh	6	S.K	SEP	
		Unit:II	Urdu mein Ghair afsanwi nasr ki rawayet	5	R.A	OCT	
			Khat: Fan,Aghaz O Irteqa	5	S.K	OCT	
			Matn: Haa Sahab Tum Kya Chahte Ho.....Abhi aur rukta hoon Ba Naam Mir Mahdi	8	R.A	NOV	

			Majrooh,22December 1861),Mirza Ghalib				
			Khaka: Fan,Aghaz O Irteqa	5	S.K	NOV	
			Matn: Mukhtar Ahmed Ansari (Rashid Ahmed Siddiqui)	5	A.S		
			Mazmoon: Fan, Aghaz O Irteqa	5	M.I	NOV	
			Matn: Tassub(Sir Syed)	8	M.I	DEC	
			Inshaiya: Fan,Aghaz O Irteqa	5	M.I	DEC	
			Matn: Hostel mein Padhna(Patras Bukhari)	8	M.I	DEC	

Paper code: URDHAE101T (AECC)

SEMESTER :I	HONS/GE N	Unit: I	Zuban ki tareef, tafheem o tarekh	5	M.I	JULY	
			Urdu zuban ka aghaz o irteqa	5	M.I	JULY	
			Hind Aryai zuban aur uski shakhe	5	K.R	JULY	
			Urdu zuban ki ibteda ke mutalik ahum nazariyat	5	K.R	AUG	
			Urdu zuban ki nashunuma me sufiya e karam ka hissa	6	S.K	AUG	
			Bangal me urdu zuban ka aghaz o irteqa	6	S.K	SEPT	
		Unit: II	ism ki tareef, ism khas aur ism aam ki aksam	4	S.K	SEPT	
			Jens/ tazker o tanis	3	S.K	SEP	
			Jamer, tareef aur aksam Faal , tareef aur aksam	5	S.K	NOV	
			Jumla aur uske ajaiza	3	M.I	NOV	

			Sabke aur lahuke	3	R.A	DEC	
			Urdu imla aur uske masaiyal	4	K.R	DEC	
Paper code : SEC01T							
SEMESTER :I	Major	Unit: I	Hindustani film ka aghaz o irteqa	4	M.I	JULY	
			Adab aur film ka rishta	4	M.I	JULY	
			Hindustan film aur urdu shaiyri , urdu novel aur urdu afsana	7	K.R	JULY	
			Urdu film ke mauzuat aur masaiyal	6	K.R	AUG	
			Hindustani samaj per film ke asrat	4	S.K	AUG	
			Film script novesi ka fan aur uske funni taqaze	6	S.K	AUG	
		Unit: II	MATAN TADRES : Sahir ludhyanwi , jinhe naz hai hind pe wo kaha hai	4	K.R	SEP	
			Kaifi azmi , waqt ne kya kya haseen setam	4	K.R	SEP	
			Shahar yaar, ye kya jagha hai dosto ye koun sa deyar hai	4	M.I	NOV	
			Sadat hasan manto, afsana Hatak	6	S.K	NOV	
			Mirza hadi ruswa, umra o jaan ada	7	S.K	DEC	
			AMLI KAAM, Film me script likhne ki mashaq	5	R.A	DEC	
Paper code: URDMIN101T (MINOR)							
SEMESTER :I	Minor	Unit: I	Urdu mein afsanwi nasr ki rawayet	5	K.R	JULY	
			Dastan: Fan,Aghaz o Irteqa	5	K.R	JULY	

			Matn: Bagh O Bahar (Mir Aman Dehlwi), Sir Gujisht Azad Nakht	8	K.R	JULY	
			Fasana Ajayeb (Rjab Ali Baigh Surur) Mukammal Dibacha	7	K.R	AUG	
			Novel: Fan , Aghaz o Irteqa	5	S.K	AUG	
			Matn: Goudan (Prem Chand)	6	S.K	AUG	
			Afsana: Fan , Aghaz O Irteqa	5	S.K	SEP	
			Matn: Kafan (Prem Chand)	6	S.K	SEP	
			Matn: Toba Tek Singh	6	S.K	SEP	
			Urdu mein Ghair afsanwi nasr ki rawayet	5	R.A	OCT	
			Khat: Fan, Aghaz O Irteqa	5	S.K	OCT	
			Matn: Haa Sahab Tum Kya Chahte Ho.....Abhi aur rukta hoon Ba Naam Mir Mahdi Majrooh, 22 December 1861), Mirza Ghalib	8	R.A	NOV	
			Khaka: Fan, Aghaz O Irteqa	5	S.K	NOV	
			Matn: Mukhtar Ahmed Ansari (Rashid Ahmed Siddiqui)	5	A.S	NOV	
			Mazmoon: Fan, Aghaz O Irteqa	5	M.I	DEC	
			Matn: Tassub (Sir Syed)	8	M.I		
			Inshaiya: Fan, Aghaz O Irteqa	5	M.I	DEC	
			Matn: Hostel mein Padhna (Patras Bukhari	8	M.I	DEC	

Paper code : URDACOR05T

SEMESTER III	HONOURS	Unit: I	Daastan ki tareef, Ajzaye Tarkeebi, Fanni Khususiyat	5	S.K	JULY	
			Daastan ki samaji aur tahzibi Qadro Qeemat	5	K.R	JULY	
			Urdu Daastan ka Aghaz o Irteqa	6	K.R	AUG	

			Deccan – Shumali Hind aur Fort William College mein likhi jaane wali Daastano ka amumi jaeza	7	K.R	AUG	
			Sab Rus – Baagho Bahar aur Fasana Ajaeb ka khususi mutalah	8	K.R	AUG	
			Baagh o Bahar: Sair teesre darwesh ki	7	S.K	SEP	
			Fasana Ajayeb: Joolani samand tez rafter qalam ki Kafiet husn anjum ara tote se sunna Shahjade ka na deda ashique hona , wahshat se sar dhunna.	5	R.A	SEP	
		Unit: II	Novel ki tareef, ajzaye tarkeebi, funni khususiyat	5	S.K	SEP	
			Urdu Novel ka aaghaz o irteqa	5	S.K	OCT	
			Nazir Ahmed, Ratan Nath Sarshar, Mirza Md. Hadi Ruswa, Abdul Halim Sharar, Prem Chand aur Quratulain Haider ki novel nigari ka jayeza	8	K.R	NOV	
			Umrao Jaan Ada, Gaudan, aur Aag ka Dariya ka khususi mutalah	6	S.K	DEC	
			Urdu Novel ka hum asr manzer nama	5	S.K	DEC	
Paper code: URDACOR06T							
SEMESTER III	HONOURS	Unit: I	Afsane ki tareef, ajzaye tarkibi, sinfi khususiyat	7	S.K	JULY	

			Urdu Afsane ki tarikh ka ajmali jaeza	6	R.A	JULY	
			Urdu afsana Azadi se pehle aur azadi ke bad	5	K.R	JULY	
			Prem Chand, Manto, Ghulam Abbas, Bedi, aur Intezar Hussain ki afsana nigari ka tafsili jaeza	9	K.R	AUG	
			Sawa ser gehun: Munshi Prem chand	6	S.K	AUG	
			Naya qanoon: Manto	3	K.R	AUG	
			Fancy Hair cutting Saloon: Ghulam Abbas	8	R.A	SEP	
			Kuarintain: Rajendra Singh Bedi	6	R.A	SEP	
			Hindustan se ek khat: Intezar Hussain	6	S.K	SEP	
		Unit: III	Drama ki tareef, ajzaye tarkibi	6	R.A	OCT	
			Drama ki aqsaam, Stage drama, adabi drama, radiyai drama, yek babi drama,	8	R.A	NOV	
			Drame ke lawazmat	4	A.S	NOV	
			Urdu Drame ki tarikh ka ajmali jaeza Urdu drama azadi se pehle aur azadi ke baad	7	A.S	NON	
			Aagha Hashr aur Habib Tanvir ki drama nigari ka tafsili jaeza	5	R.A	DEC	
			Safed khoon : Aagha Hashr	7	S.K	DEC	
			Aagrah Bazar: Habib Tanvir	8	R.A	DEC	

Paper code: URDACOR07T

SEMESTER : III	HONOURS	Unit: I	Makateeb Nigari ka Fun	5	M.I	JULY	
			Urdu me makateeb nigari ke ibtedai namune	5	M.I	JULY	
			Urdu me makateeb nigari ki riwayat, taraqqi aur faroogh ka haal	6	K.R	JULY	
			Urdu kea ham makateeb nigaro ka amumi jaeza	7	S.K	AUG	
			Ghalib, Maulana Abul Kalam Azad aur Faiz ki makateeb nigari ka tafsili mutalah	7	R.A	AUG	
			Ghalib ke khut: Sayed sahib.... Na tum mujrim na main gunahgar (Meer Mehdi Majrooh ke naam, khut number : 10)	8	S.K	AUG	
			Maulana Abul Kalam Azad ka khut: Hekayat bad o taryak (Ghubar e khatir, khut no:	7	R.A	SEP	
			Faiz ka khut: Aaj kul Laila-e-Sukhan Ghair hazir hai .. (Saleeben mere dareeche me, khut number: 155)	7	K.R	SEP	
		Unit: II	Sawaneh Nigari ka fun	5	S.K	SEP	
			Urdu mein Sawaneh Nigari	4	R.A	SEP	
			Urdu kea ham sawaneh nigaro ka amumi jaeza	6	M.I	OCT	
			Hali ki sawaneh nigari ka tafsili mutalah	7	M.I	OCT	

			Yaadgar e Ghalib (pehla hissa) – Hali	8	M.I	NOV	
		Unit: III	Khaka Nigari ka fun	6	M.I	NOV	
			Urdu mein khaka nigari ki ibteda aur farogh ka haal	6	S.K	NOV	
			Urdu kea ham khaka nigaro ka amumi jayeza	7	M.I	DEC	
			Rashid ahmed Siddiqui ki khaka nigari ka tafsili mutalah	6	M.I	DEC	
			Md. Ayub Abbas: Rashid Ahmed Siddiqui	6	M.I	DEC	

Paper code : SEC01T

SEMESTER III	HONOURS	Unit: I	Hindustani film ka aghaz o irteqa	4	M.I	JULY	
			Adab aur film ka rishta	4	M.I	JULY	
			Hindustan film aur urdu shaiyri , urdu novel aur urdu afsana	7	K.R	JULY	
			Urdu film ke mauzuat aur masaiyal	6	K.R	AUG	
			Hindustani samaj per film ke asrat	4	S.K	AUG	
			Film script novesi ka fan aur uske funni taqaze	6	S.K	AUG	
			MATAN TADRES : Sahir ludhyanwi , jinhe naz hai hind pe wo kaha hai	4	K.R	SEP	
			Kaifi azmi , waqt ne kya kya haseen setam	4	K.R	SEP	
			Shahar yaar, ye kya jagha hai dosto ye koun sa deyar hai	4	M.I	NOV	

			Sadat hasan manto, afsana Hatak	6	S.K	NOV	
			Mirza hadi ruswa, umra o jaan ada	7	S.K	DEC	
			AMLI KAAM, Film me script likhne ki mashaq	5	R.A	DEC	

Paper code : URDGCOR03T

SEMESTER III	GEN	Unit :I	Urdu mein qasida goi ki riwayat: Sauda aur Zauq ka khususi mutalah	7	S.K	JULY	
			Deccan me Urdu Masnavi ki ibteda aur Irteqa: Mullah Wajhi aur Nusrati ki khidmat ki roushni mein	6	S.K	JULY	
			Shumali Hindustan mein Urdu Masnavi: Meer taqi meer, Meer Hasan aur Daya Shankar Nasim ke hawale se.	7	S.K	JULY	
			Marsiya goi ka Aaghaz o Irteqa: Anees aur Dabir ka khususi mutalah	6	S.K	AUG	
			Urdu Nazm Nigari ka Aaghaz-o-Irteqa: Hali, Iqbal aur Faiz ki nazm nigari ka khususi mutalah	8	S.K	AUG	
			Urdu mein Rubai ka Aaghaz-o-Irteqa: Urdu ke chand Aham Rubai go	5	S.K	AUG	
		Unit : II	<u>Matan Baraye Tadrees</u>			SEP	

			Qasayad: Qasida Shehr e Aashob: Sauda	6	K.R	SEP	
			Hai abr e darakhshan wo : Zauq	6	K.R	SEP	
		Unit : III	Masnavi Sehrul Bayan: Meer Hasan (Ibtedai pandra safhat)	7	M.I	OCT	
		Unit: IV	Marsiya: Namak Khawn Takallum hai Fasahat meri : Anees (Ibtedai pandra band)	7	M.I	OCT	
			Sher e khuda ka quat e bazoo Hussain hai : Dabeer (Ibtedai pandra band)	8	M.I	NOV	
		Unit: V	NAZM: Hayat Javed: Maulana Altaf Hussain Hali	4	S.K	NOV	
			Sir Syed ki Luhe Tarbat: Sir Md. Iqbal	3	S.K	DEC	
			Aaj Bazar mein Pabajulan Chalo: Faiz	3	K.R	DEC	
			Bund Ghar aur Chiriya : Md. Alwi	3	M.I	DEC	

Paper code: URDACOR11T

SEMESTER	HONOURS	Unit: I	Urdu mein adabi tahrikaat ki riwayat- tehreek aur rujhan ka farq	6	K.R	JULY	
			Islah-e- zaban ki tehreek -aiham goi-mafhoom aur asrat-aiham	7	K.R	JULY	

			goi ki mukhalifat mein aatish aur nasekh ka hissa				
			Aligarh tehreek – Aligarh tehreek ka pasmanzar- fikri bunyaden- urdu adab par Aligarh tehreek ke asrat	8	S.K	AUG	
			Rumani tehreek – rumani tehreek ka pasmazar- tasawwurati asas- rumaniyat aur classikiyat- urdu nazm o nasr par inke asrat	7	K.R	AUG	
			Taraqqi pasand tehreek - iska pasmanzar Urdu Adab par taraqqi pasand tehreek ke asraat	6	K.R	SEP	
			Halqa arbab –e- zauqki tashkil- maqasid-adbi tasawwurati-naye tajirbat-urdu adab par iske asrat	7	A.S	SEP	
			Jadeedyat ka mafhoom- urdu mein jadeedyat ka aaghaz- jadeedyat ka sarmaye adab	5	K.R	NOV	
			Tahreek –e- niswan- tanisyyat ka asasi tasawwur- tahreek-e- niswan ka दौरا amal- falsafa – tanisyyat ka asar urdu adab par	8	S.K	DEC	
Paper code: URDACOR12T							
		Unit: 1	Adab ki tareef – mahiyat-fani lawazimat-bunyadi maujuat	7	AS	JULY	
			Adab ke muataliq aham nazaryat- adab ki ahmiyat aur iski zaroorat	7	M.I	JULY	

			Adab ka rishta: insane zindagi	5	S.K	JULY	
			Insane jazbat o ahsasat se- fard aur samaj se	6	R.A	AUG	
		Unit: II	Tanqeed ki tareef- iska mafhoom- adab pare ki ahimiyat- tanqeed aur ifadiyat – tanqeed ke mukhtalif tareeqakar	8	M.I	AUG	
			Adab aur tanqeed ka bahimi rishta– Tazkara nigari ki riwayat- tazkaron ki tanqeedi ahimiyat	8	M.I	SEP	
			Tanqeed ke mukhtalif dabistano ka majmuai jaiza- mukhtalif dabistan –e- tanqeed mein amali tanqeed ka khususi mutalea	9	AS	SEP	
			Tasurati , jamalyati, marxi tanqeed aur jadeed tanqeed ka khususi mutalea	7	S.K	OCT	
			gorakhpuri- ahtasham husain aur kalimuddin ahmad ki tanqeed nigari ka khususi mutalea	7	M.I	NOV	
		Unit: III	Shairi ke liye kya kya sharaeit hain? (Intekhab az mukadama shair o shairi) – Hali	7	M.I	DEC	
			Tanqeed kya hai? (Tanqeed kya hai) Al ahmad suroor	5	R.A	DEC	

Paper code: URDADSE01T

		Unit: I	Meer : Sawaneh aur ahad	6	M.I	JULY	
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			Meer ki ghazal goi	5	M.I	JULY	
			Meer ki shairi: masnawi, marsia aur rubai ke hawale se	5	M.I	AUG	
			Meer ki tazkara nigari: Nikat tus shuara	6	M.I	AUG	
			Hansti apni hubab ki si hai	3	S.K	SEP	
			Chalet ho to chaman ko chaliye, sunte hain kah baharan hai	3	R.A	SEP	
			Tha mustuar Husn se uske jo noor tha	3	S.K	SEP	
			Ulti hogain sab tadbiren kuch na dawa ne kam kya	3	S.K	OCT	
			Nah chori dushmanon ne ghar Hairat hai ka ho raqeeb mahram tera	3	R.A	NOV	
			Milye us shaks se jo aadam howey	6	A.S	DEC	
			Masnawi dar huju khana khud	5	R.A	DEC	

Paper code : URDADSE02T

		Unit: 1	Sawaneh , shaksiyat aur ahad	7	K.R	JULY	
			Iqbal ka zahni o fikri nushunuma	5	K.R	JULY	
			Iqbal ki ghazal goi	4	SK	AUG	
			qbal ki nazm nigari	6	S.K	AUG	
			Iqbal ke yahan qaumi yakjahti aur watan ka tasawwur	6	M.I	AUG	

			Iqbal ka falsafa e khudi	6	M.I	SEP	
			Kabhi ae haqeeqat muntazir nazar aa libas majaz mein	6	K.R	OCT	
			Tere ishq ki inteha chahata hu	5	M.I	NOV	
			Talaba ali garh ke nam	6	S.K	NOV	
			Jawab e shikwa	5	M.I	DEC	
			Iqbal ki nasar nigari , mazameen aur makateeb ke hawale se	6	R.A	DEC	

Paper code : URDGDSE01T

SEMESTER : V	GEN	Unit : 1	Ghazal ka fan, Ghazal ka mafهوم aur uski hiyat	6	M.I	JULY	
			Dakan mein ghazal ki riwayat, wali aur siraj ka khususi mutalea	6	M.I	JULY	
			Shumali hind mein ghazal ki riwayat, Meer aur Ghalib ka khususi mutalea	7	S.K	JULY	
			Dabistan lukhnow ki ghazal goi ki imtiyazi khususiyat, Aatish ka khususi mutalea	6	S.K	AUG	
			Nai ghazal ka jaiza , Iqbal aur yaghana ke hawale se	5	S.K	AUG	
			1960 se tahal ghazaliya shairi ka jaiza, nasir kazmi aur shahryar ka khususi mutalea	8	M.I	AUG	

		Unit : II	Matni tadrees:				
			Meer- jis sir ko ghuroor aj hai yan tajwari ka	3	S.K	SEP	
			Ghalib- dard minnat kash dawa na hua	3	S.K	NOV	
			Iqbal-Tere ishq ki inteza chahata hu	3	M.I	DEC	
			Shahar e yaar- Dhoop ki dasht mein be saya sajar hum the	3	S.K	DEC	
For EVEN Semesters							
Paper code : URDDSC202T (MAJOR)							
SEMESTER II	HONOURS	Unit : I	Adab kya hai	2	R.A	JULY	
			Adab kr bare me mufakereen ki rai	4	R.A	JULY	
			Shaiyri adab ki khususiet	3	M.I	JULY	
			Shaiyri asnaf-tarauf, fan aur rewayat	6	S.K	AUG	
		Unit : II	Ghazal *Nazm*Qasida Marsia * Masnavi*Rubai				
			Matn: Ghazal- Dagh dehlwi "Tumhare khat me naya ek salam kis ka tha"	6	K.R	AUG	
			Jigar murada badi- Ek lafz muhabbat ka adna ye fasana hai	5	K.R	AUG	
			Nazm: Nazir akbar abadi- rotiya	5	S.K	AUG	

			Alama iqbal – Naya shiwala	5	M.I	SEP	
			Qasida – Sauda – Tazheek rozgar	4	S.K	SEP	
			Marsia - Anis – “Jab qata ki musafat shab aftar ne”	7	S.K	NOV	
			Masnavi- Mir hasan- “Aghaz dastan” (saharul beyan)	7	R.A	NOV	
			Rubai- Amjad haider abadi- “Hai kaba o butt khana me jalwa tera”	3	M.I	DEC	
			Josh mili abadi- “Ek fitna hai nakeso me kamil hona”	3	M.I	DEC	
			Firakh gorakh puri “Aye mani kainat mujh me aaja”	3	M.I	DEC	

Paper code: SEC02

		UNIT: I	Mass media (iblagh aama) Tareef aur aghaz o irteqa	7	M.I	JULY	
			Mass media ki ahmiet o afadiet	6	K.R	JULY	
		UNIT: II	Mass media ki aksam			JULY	
			Print media, khabar nigari , kolum nawesi	6	K.R	AUG	
			Feature nigari, Adaria nawesi, Reporting	6	K.R	AUG	
			Interview, Mazamin, khabaro ka tarzuma	7	M.I	AUG	
			Electronic media, Radiyai drama , radio feature	6	M.I	SEP	
			TV serial , TV program , ishteharat	8	R.A	SEP	

			Feature film , documentary film, script	7	S.K	OCT	
		UNIT: III	Khabar ki tareef- Darja bandi aur uske azaiye tarkeebi	7	S.K	NOV	
			Asar hazir me mass media ki ahmiet	6	S.K	NOV	
			Urdu me mass media (Iblagh ama) ki zarurat aur ahmiet	8	K.R	DEC	
			Urdu print media ki sorte haal	6	R.A	DEC	
			Urdu electronic media waqat ki aham zarurat	7	M.I	DEC	
Paper code : URDMIN202T (MINOR)							
SEMESTER : II	GEN	UNIT: 1	Adab kya hai	2	R.A	JULY	
			Adab kr bare me mufakereen ki rai	4	R.A	JULY	
			Shaiyri adab ki khususiet	3	M.I	JULY	
			Shaiyri asnaf-tarauf, fan aur rewayat	6	S.K	AUG	
			Ghazal *Nazm*Qasida Marsia * Masnavi*Rubai	6	K.R	AUG	
			Matn: Ghazal- Dagh dehlwi "Tumhare khat me naya ek salam kis ka tha"	6	K.R	AUG	
			Jigar murada badi- Ek lafz muhabbat ka adna ye fasana hai	5	S.K	AUG	
			Nazm: Nazir akbar abadi rotiya	5	S.K	AUG	
			Alama iqbal – Naya shiwala	4	M.I	SEP	
			Qasida – Sauda – Tazheek rozgar	4	S.K		

			Marsia - Anis – “Jab qata ki musafat shab aftar ne”	7	S.K	SEP	
			Masnavi- Mir hasan- “Aghaz dastan” (saharul beyan)	7	R.A	NOV	
			Rubai- Amjad haider abadi- “Hai kaba o butt khana me jalwa tera”	3	M.I	NOV	
			Josh mili abadi- “Ek fitna hai nakeso me kamil hona”	3	M.I	DEC	
			Firakh gorakh puri “Aye mani kainat mujh me aaja”	3	M.I	DEC	

URDU GENERAL SEMESTER IV

Paper code : URDGCOR04T

SEMESTER IV	GEN	Unit : I	Dastan Ki Tareef, Fanni Kusoosiyat	3	K.R	JULY	
			Urdu Dastano ka Aagaz o Irtiqa	4	K.R	JULY	
			Fort William College Ki Adabi Khidmat (Dastan ke Hawale Se)	5	M.I	JULY	
			Matan:- Ser Teesre Darwesh Ki – Bagh o Bahar __ Meer Aman Dehlavi	8	M.I	AUG	
			Novel ke Tareef Aur Ajza-e-Tarkibi	4	S.K	AUG	
			Urdu Novel ka Aagaz o Irtiqa	4	S.K	AUG	
			Parem Chand Ki Novel Nigari	4	S.K	SEP	
			“Goudan Dan” Ka Khusoosi Mutala	6	S.K	SEP	
			Bagh o Bahar ka khusoosi mutalah	7	S.K	NOV	
			Fasana azaieb ka khusoosi mutalah	5	S.K	NOV	

			Nazir ahmed ki novel nigari	4	S.K	DEC	
			Quratul ain haider ki novel nigari	4	S.K	DEC	
			Umao jaan ka khususi mutala	6	S.K	DEC	

URDU GENERAL -SEMESTER IV
Paper code : URDLCOR02T (MIL)

SEMESTER IV	GEN	Unit : I	Novel Ki Tareef Ajza-e-Tarkeebi	3	S.K	JULY	
			Jadeed Novel Ki Ibtida, Irtiqa Aur Forogh	4	S.K	JULY	
			Aham Jadeed Novel Nigaron Ka Jaizah	5	S.K	JULY	
			Jadeed novel ka pase manzar , ma kabal novel nigaro ka tarouf	5	M.I	AUG	
		Unit : II	Afsana Ki Tareef, Ajza-e-Tarkibi Aur Fanni Khusoosiyat	5	M.I	AUG	
			Jadeed afsane ka pase manzar , ma kabal afsana nigaro ka tarouf	5	K.R	SEP	
			Gulam abbas aur asmat chughtai ka khususi mutala	5	M.I	SEP	
			Jadeed afsane Ki Ibtida, Irtiqa Aur Forogh	6	M	OCT	
			Aham Jadeed Afsana Nigaron Ka Jaizah	6	K.R	NOV	
		Unit : III	Matn: Mojel (Manto)	6	S.K	NOV	
			Mukharjee babu ki dairy (Gulam abbas)	5	S.K	DEC	
			Ruk jao (surrender parkas)	4	S.K	DEC	
			Ana ka zakhm (Balraj mehra)	5	S.K	DEC	

Paper code : URDACOR08T

SEMESTER: IV		UNIT: I	Inshaiya Ki Tareef, Usloob Aur Fanni Khususiyat	6	M.I	JULY	
			Urdu Mein Inshaiya Nigari Ki Riwayat	5	M.I	JULY	
			Mujtaba Hussain Ki Inshaiya Nigari Ka Khusoosi Mutala	5	S.K	JULY	
		UNIT: II	Matan:- Inshaiya: "Barf Ki Almari" _ Mujtaba Hussain	7	S.K	AUG	
			Maqala Ka Mafhoom __Maqala Aur Inshaiya ka Farq	7	M.I	AUG	
			Urdu mein Maqala Nigari ki Riwayat Aur Faroogh	7	SK	AUG	
			Sir Syed Ahmad Ki Maqal Nigari ka Khusoosi Mutala	4	S.K	SEP	
		UNIT: III	Matan:- Maqala: "Ta'ssub" ___Sir Syed Ahmad Khan	6	M.I	SEP	
			Sahafat Ka fan, Ahmeyat Aur Ifadiyat	5	M.I	NOV	
			Urdu Sahafat Ka Aaghaz o Irtiqa	6	S.K	NOV	
			Maulana Abul Kalam Aazad aur maulana abdur razaq Ka Khusoosi Mutala	5	M.I	DEC	
			Sahafat ki muzuati kismet : seyasi, o samaji, tahjeebi aur sakafti ,akhlaki majhabi	6	M.I	DEC	
			Adaria nawesi kalam nawesi report nigari interview khabar bama wagaira.	6	S.K	DEC	

Paper code : URDACOR09T

		UNIT: 1	1857 ke Baad Ghazl ke mizaj mien Tabdeeli	6	K.R	JULY	
			Iqbal, Yagana Aur Firaag wahsat ka Khusoosi Mutala	6	S.K	JULY	
			1960 ke baad Ghazliya Shairi Ka Jaiza	6	K.R	JULY	
			Naya samaji shaur aur ghazal aur ghazal pr uske asrat	5	S.K	JULY	
			Makhdoom, majrooh, aur parwez shahdi ka amumi mutala	6	S.K	AUG	
			Faiz la khususi mutala	6	S.K	AUG	
			Irfan siddiqui ka khususi mutal	4	S.K	AUG	
			1980 k bad ghazlia shaiyeri ka jaiza.	6	S.K	AUG	
			Nasir qazmi aur shahar e yaar ka khususi mutala.	5	K.R	SEP	
			Jadeed Shairi Ki Tahreek Aur Ghazal Par par Uske Asrat	6	K.R	SEP	
			Faiz o Nasir Kazmi ka Khusoosi Mutala	6	R.A	SEP	
		UNIT: II	Matan:- (i) Kahun Kiya Aarzo' e Bedili Mujh ko kahan Tak hai __ Iqbal	3	K.R	SEP	
			ii) Chale Chalo Jahan le Jae walwla Dil ka __ Yagana	3	M.I	OCT	
			iii) Ayena-e-Khiyal Tha Aks-e-Pazeer Raaz ka __ Wahshat	3	M.I	NOV	
			(iv) Gulon Mein Rang Bhare Baad-e-Nao Bahar Chale __ Faiz	3	M.I	NOV	

			(v) Dil Dharkne ka sabab yaad aaya__Nasir Kazmi	3	M.I	DEC	
			vi) Jhulas Rahe Hain Kari Dhoop Mein Shajar Mere____Irfan Siddique	3	M.I	DEC	

Paper code : URDACOR10T

		UNIT: 1	Taraqqi Pasand Nazm ki Riwayat	7	R.A	JULY	
			Taraqqi Pasand Fikr Aur Nazm, Mauzua't Aur Asaleeb	6	A.S	JULY	
			Faiz , makhdoom, Parvez Shahidi Aur Akhtarul Iman Ki Nazm Nigari ka Khusoosi Mutala	7	A.S	JULY	
			Taraqqi Pasand Nazm go shora ka amumi mutala		R.A	AUG	
		UNIT: II	Matan:- Nazm: Eik Larka____Akhtarul Iman Nazm: Be Chehragi____Parvez Shahidi	5	A.S	AUG	
			Nazm : Edhar na dekho ----- Faiz ahmed faiz		R.A	AUG	
			Halqa-e-Arbab-e-Zauq Aur Urdu Nazm ,shori tasuarat , ney tajurbat	6	R.A	SEP	
			Mira Ji aur rashid ki Nazm Nigari Ka Khusoosi Mutalah	4	SK	SEP	

			Halka k nazm go shora ka amumi mutala	6	R.A	OCT	
			Nida Fazli Ki Nazm Nigari K	6	R.A	NOV	
		UNIT: III	Matan:- Clerk ka Naghma-e-Muhabbat ___ Meera Ji	5	R.A	DEC	
			Nazm: Aadmi Ki Tilash ___ Nida Fazli	6	AS	DEC	

Paper code: URDACOR13T

SEMESTER :vi		UNIT: 1	Ghalib ka Ahad, Adabi, Tahzeebi Aur Samaji Halat	6	K.R	JULY	
			Ghalib ki hala e zindagi	3	K.R	JULY	
			Ghalib ki Shakhsiyat aur Fan par Safar-e-kalkata ke Asrat	6	S.K	JULY	
			Ghalib ke mumtaz Muasreen, Talamza-e-Ghalib	6	AS	JULY	
			Ghalib aur jaded jehan	3	K.R	AUG	
			Ghalib Ki Maktoob Nigari	4	S.K	AUG	
			Ghalib ki ghazal goi	3	S.K	SEP	
			Ghalib ki qasida nigari	3	S.K	SEP	
			Ghalib ki maktoob nigari	3	S.K	SEP	
		UNIT: II	Matan:- Ghazliyat: (i) Phir Mujhe diday-e-tar Yaad Aaya	3	K.R		
			ii)Ki Wafa Ham se to Ghair Usko Jafa Kahte Hain	3	S.K	OCT	
			iii)Jaha tera naksh e qadam dekhte hai		S.K	NOV	

			(iv)Kisi ko de k dil koi nawa sanje fuga kyu ho		S.K	NOV	
			(v)Ishq Mujh ko Nahi Wahshat hi Sahi	3	K.R	NOV	
			Misra: subha dardarwaza khawar khula (bayees aashar)		K.R	DEC	
		UNIT: III	Maktoob “Ka shana dil k mahe do hufta”----khat No. 7(munshi har gopal tafta k naam)			DEC	
			“Sahab Tum Jante Ho ke Ye Mamla Kiya Hai” ___ Khat No. 27__Munshi Har Gopal Tuftah ke Naam)	8	A.S	DEC	
			“kl tmhare khat ka jawab bhebhej chukka ho puhncha hoga”----- khat No. 17 (alauddin ahmed khan k naam)	8	R.A	DEC	

Paper code :URDACOR14T

		UNIT: 1	Bengal mein Urdu Zaban o Adab ki Tareekh, Irtiqa Aur Forogh	6	M.I	JULY	
			Bengal mein Urdu Ghazal Aazadi ke Baad	5	S.K	JULY	
			Inshallah Khan Insha, Mukhlis Murshidabaadi, Wahsaht Kalkatvi Aur Wakil Akhtar ka Khusoosi Mutala	8	M.I	JULY	
		UNIT: II	Matan:- (i) Tuk Aankh Milate___ (ii) Chhota nikla qarar tera---	3	M.I	AUG	

			Inshallah Khan Insha				
			(i)Agar Roz o Shab Yun___(ii)sajan tujh ko mujh se Mukhlis Murshidaabadi	5	M.I	AUG	
			(i)Na wakif karwa se hu---- (ii)Ganemat bujh milne ko ye alam- Qudratullah qudrat		S.K	AUG	
			(i)Jaan dene lage---- (ii)parda na bech me kabhi aaye- --- Abdul gaffar nasakh		S.K	AUG	
			(i) Beghair Sidq Kuch___(ii) (ii) sirf wafa hua k shaheed jafa hua---- Wahshat Kalkatvi	6	M.I	AUG	
			(i) Aap se jhuk k jo milta hoga---- (ii) jalta hawa ghar mera to---- Wakil akhtar		S.K	AUG	
			Bengal Mein Nazm Nigari ka Khusoosi Jaizah	5	M.I	SEP	
			Bengal mein Urdu Nasr Ka Aaghaz o Irtiqā	6	S.K	SEP	
			Fort William College Ki Adabi Khidmat	5	SK	OCT	

		UNIT: III	Matan:- (i) Yeh Ibarat Farsi..... Samet Ja Pari (Intikhab Az Aaraish-e-Mahfil Urf Qissa hatim Tai)___Haider Bakhsh Haidri)	7	M.I	NOV	
			(ii) Masnavi Huzn-e-Akhtar___ _Wajid Ali Shah	8	RA	DEC	
			(iii) Hallah Aata Hai (Nazm)___Ashk Amrit Sari	7	RA	DEC	

Paper code: URDADSE05T

		UNIT: 1	Tanz o Mezah Ki Tareef, Unki Ahmiyat	5	RA	JULY	
			Tanz o Mezah Mein Farq	5	R.A	JULY	
			Urdu Adab Mein Tanz o Mezah Ka Tadriji Irtiqa	7	RA	AUG	
			Meer, Sawda Insha Aur Nazer Ka Khusosi Mutala	6	SK	AUG	
			Shahr ashub aur tanzia o mazahia	5	S.K	AUG	
			Akbar alaha abadi ka khusosi mutala	5	S.K	SEP	
			Urdu Nasr o Nazm Mein Tanz o Mezah Ki Ibtida Aur Forogh	6	AS	SEP	
			Ratan nath sarsar ka khusosi mutala	5	R.A	NOV	

			Patras Bukhari Ka Khusosi Mutala	5	A.S	DEC	
		UNIT: II	Matan:- Aadmi Namah___Nazeer Akbarabadi	5	M.I	DEC	
			<i>Kutte --- Pitras Bukhari</i>	4	A.S		

Paper code: URDADSE06T

		UNIT: 1	Sir Syed Shakhshiyat Aur Unka Ahad	5	M.I	JULY	
			Sir Syed Aur Ali Garh Tahreek Siyasi ,talemi aur tahzebi Nazriyat	6	M.I	JULY	
			Sir Syed ke Rufaqa Aur Muasreen	6	S.K	AUG	
			Adab Aur Sahafat Mein Sir Syed Ka Hissah	8	M.I	SEP	
			Sir syed ki tasaneef ka tafseeli khaka	5	S.K	NOV	
		UNIT: II	Matan:- (i) Riya___Sir Syed Ahmad Khan	7	M.I	NOV	
			(ii) Asbab-e-Baghawat-e-Hind ___ Sir Syed Ahmad Khan	6	M.I	DEC	
			Mukhalif----sir syed ahmed khan	5	M.I	DEC	

URDU GENERAL SEMESTER VI

Paper code : URDGCOR04T

SEMESTER : V	GEN	UNIT: 1	Dastan Ki Tareef, Fanni Kusoosiyat	3	K.R	JULY	
			Urdu Dastano ka Aagaz o Irtiqa	4	K.R	JULY	

			Fort William College Ki Adabi Khidmat (Dastan ke Hawale Se)	5	M.I	JULY	
			Matan:- Ser Teesre Darwesh Ki – Bagh o Bahar __ Meer Aman Dehlavi	8	M.I	AUG	
			Novel ke Tareef Aur Ajza-e- Tarkibi	4	S.K	AUG	
			Urdu Novel ka Aaghaz o Irtiqā	4	S.K	SEP	
			Parem Chand Ki Novel Nigari	4	S.K	SEP	
			“Goudan Dan” Ka Khusoosi Mutala	7	S.K	NOV	
			Bagh o Bahar ka khususi mutalah	6	S.K	NOV	
			Nazir ahmed ki novel nigari	5	S.K	DEC	
			Quratul ain haider ki novel nigari	4	S.K	DEC	
			Fasana azaib ka khususi mutala	4	S.K	DEC	
			Umrao jaan ka khususi mutala	6	S.K	DEC	

ACADEMIC CALENDER

Department of Food & Nutrition(H&G)
2023 1ST, 3rd, 5thsem ,NEP & CBCS

Semester/ Year	Syllabus Module/ Unit	Teachers	Tentative period of completion
3rd sem H	<p style="text-align: center;">FNTACOR05T: NUTRIENTS METABOLISM(THEORY)</p> <p>1.Carbohydrate Metabolism: Glycolysis & its regulation. Glycogen metabolism. Metabolism of pyruvate. Outline of pentose phosphate pathway. Anaplerotic reactions. Importance of gluconeogenesis.</p> <p>2. Lipid Metabolism : Fatty acid synthase and de novo biosynthesis of fatty acid; regulation and mechanism of chain elongation. Metabolism of cholesterol, its control and pathophysiological importance. β-oxidation of fatty acids.</p> <p>3.Amino acid Metabolism : Essential amino acids. Transamination. Deamination. Transmethylation.</p> <p>Decarboxylation.glucogenicandketogenicaminoacids.O utlineof urea cycle. Inborn errors of Metabolism.</p> <p>4. Biologicaloxidation Mitochondrial electron transport chain. High energy phosphate bond.Formation of ATP.</p> <p>5. Nucleic acid metabolism Chemical structure of purine and pyrimidine, Catabolism and anabolism of pyrimidines. Gout - occurrence, prognosis, progression and therapy.</p> <p>6.Vitamins Classification, characteristics and chemical properties of fat and water soluble vitamins. Functions of fat and watersolublevitamins.Hypervitaminosis.Roleofvitamins A,D,C, B1, B2B6, B12 and folic acid inmetabolism.</p> <p>7.Mineral Metabolism Role of minerals in physiology. Trace elements. Sodium potassium balance. Role of calcium, iron and zinc in human body -metabolism, functions, deficiency and toxicity.</p>	<p>DP</p> <p>DP</p> <p>DP</p> <p>DP</p> <p>DP</p> <p>DP</p> <p>DP</p>	September - January 23

Internal exam Scripts will be checked by :- DP

FNTACOR05P: NUTRIENTS METABOLISM(PRACTICAL)

TOTAL HOURS: 60 2 CREDITS

- 1. Estimation of Vitamin C in citrus fruits.**
- 2. Estimation calcium in blood (using kit) and drinking water (Complexometry).**
- 3. Estimation of sodium and potassium in blood (using kit)**
- 4. Estimation of iron in vegetables by spectrophotometry.**
- 5. Estimation of DNA (PDA method) and RNA (Orcinol method) in tissues by spectrophotometry.**

**INTERNAL PRACTICAL MARKS WILL BE GIVEN BY
SMT DEBOSMITA PATHAK**

DP

September
23-January
24

	<p>FNTACOR06T: NUTRITION THROUGH LIFE SPAN(THEORY)</p> <p>1. Basics of Meal Planning Principles of meal planning, Food groups and Food exchange list, Factors affecting meal planning and food related behaviour</p> <p>2. Nutrition in Adults and Elderly Physiological changes in elderly.. RDA and nutritional guidelines, nutritional concerns and healthy food choices for: Adult man and woman, Elderly.</p> <p>3. Nutrition during Pregnancy Nutrition During Pregnancy: Factors (non-nutritional) affecting pregnancy outcome, importance of adequate weight gain during pregnancy, antenatal care and its schedule, Nutritional requirements during pregnancy and modification of existing diet and supplementation, Deficiency of nutrients, specially energy, iron folic acid, protein, calcium, iodine. Common problems of pregnancy and their managements, specially - nausea, vomiting, pica, food aversions, pregnancy induced hypertension, obesity, diabetes. Adolescent pregnancy.</p> <p>4. Nutrition during Lactation Nutrition during Lactation: Nutritional requirements during lactation, dietary management, food supplements, galactogogues, preparation for lactation. Care and preparation of nipples during breastfeeding.</p> <p>5. Nutrition during Infancy Nutrition during Infancy: Infant physiology relevant to feeding and care, Breastfeeding, colostrum, its composition and importance in feeding, Initiations of breast feeding. Advantages of exclusive breastfeeding. Basic principles of breastfeeding. Introduction of supplementary foods, initiation and management of weaning, Baby-led weaning. Bottle feeding- circumstances under which bottle feeding is to be given. Care & sterilization of bottles. Preparation of formula. Mixed feeding, breast feeding and artificial feeding. Management of preterm and low birth weight babies.</p> <p>6. Nutrition for Children and Adolescents Growth and development in children, RDA, nutritional guidelines, nutritional concerns and healthy food choices for: Preschool children, School children, Adolescents</p> <p>INTERNAL SCRIPTS WILL BE CHECKED BY: SS</p>	<p>SS</p> <p>Mitali Palodhi</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>Smt Mitali Palodhi</p>	<p>September October</p> <p>September October</p> <p>October- November</p> <p>December- January</p> <p>November- January</p>
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Academic Calendar
Department of Food&Nutrition(Honours)
2023 1ST, 3rd, 5th sem , NEP & CBCS

	<p>FNTACOR06P: NUTRITION THROUGH LIFE SPAN(PRACTICAL) TOTAL HOURS: 60 2 CREDITS Meal planning and preparation of adequate meal for different age groups with special reference to different physiological conditions: infants, pre-schooler, school children,</p> <p>adolescents, adults, pregnancy, lactation and elderly. INTERNAL PRACTICAL MARKS WILL BE GIVEN BY: SP AND SS</p> <p>FNTACOR07T: ELEMENTARY DIETETICS AND MENU PLANNING (THEORY)</p> <p>1. DieteticsandDietician Definition and objective of dietetics, Dieticians-Definition, Classification andResponsibility</p> <p>2.Foodgroups Four food groups (Caribbean Food Guide; Canadian Food Guide; USA Food Pyramid; British Food Guide; Recommended Nutrient Intake (RNI); Dietary Value Intake; Dietary Reference Value, Five food group system of ICMR. Structure and composition of cereals. Wheat- structure and composition, types (hard, soft/ strong, weak) ,Diagrammatic representation of longitudinal structure of wheat grain. Malting, gelatinization of starch, types of browning- Maillard&caramelization. Rice- structure and composition, parboiling of rice- advantages and disadvantages. Structure and composition of pulses, toxic constituents in pulses, Milk andMilk Products-composition, classification and processing, Eggs- com[osition, Meat, fish & poultry- Types, composition, Sugar& Sugar products-Types and composition, Fats & Oils-Types & sources, Food adjuncts- spices, condiments, herbs, extracts;concentratesessences,foodcolours,origin,classificatio n, convenience foods, Bevarages-Tea, Coffee, Chocolate , cocoa poeder-composition</p> <p>3.Dietaryguidelines Nutritive values as a basis for classificationof food, Recommended Daily Allowances (RDA), Dietary guidelines for Indians and foodpyramids.</p>	<p>MS &GC</p> <p>Mitali palodhi</p> <p>Mitali Palodhi</p> <p>GC</p>	<p>September-December</p> <p>OCTOBER</p> <p>October-january 24</p> <p>September</p>
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Academic Calendar
Department of Food&Nutrition(Honours)
2023 1ST,3rd, 5th sem , NEP & CBCS

	4.MenuPlanning Menu Planning: Rationale for menu planning, Factors affecting food choice, Nutritional factors,other factors; Exchange list and food composition tables for menu planning, Steps in the development of exchange list, Factors to be considered when planning the regular balanced diet: adequacy, balance caloric control, moderation, variety and aesthetics.	GC	October
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Academic Calendar
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	<p>5. Basics of diet therapy Basic concepts of diet therapy: Therapeutic adaptations of normal diet, principles and classification of the therapeutic diets, Nutrient modifications.</p> <p>6. Diet for health care Team approach to health care. Assessment of Patient's needs.</p> <p>7. Routine Hospital Diet Routine Hospital Diets: Regular, light, soft, fluid, parenteral and enteral feeding.</p> <p>INTERNAL SCRIPTS WILL BE CHECKED BY: GC</p> <p>FNTACOR07P: ELEMENTARY DIETETICS AND MENU PLANNING (PRACTICAL) TOTAL HOURS: 60 4 CREDITS</p> <ol style="list-style-type: none"> 1. Planning and preparation of normal diets. GC 2. Planning and preparation of different liquid diets. SS 3. Planning and preparation of different soft/semi solid diets. SS 4. Planning and preparation of different nutrient modified diet. GC <p>INTERNAL PRACTICAL MARKS WILL BE GIVEN BY :- SS</p> <p>SEC SYLLABUS</p> <p>FNTSSEC01M: INSTRUMENTATION</p> <ol style="list-style-type: none"> 1. Microscopy Brightfield and darkfield microscopy, Optical Microscopy, Phase contrast Microscopy, Inverted Microscopy 2. Chromatography Principles and applications of paper chromatography (including Descending and 2-D), Thin layer chromatography, HPLC. Separation of mixtures by paper / thin layer chromatography 3. Spectrophotometry Principle and use of study of absorption spectra of biomolecules, Analysis of biomolecules using UV and visible range, Colorimetry. Protein concentration of spectrophotometer/ colorimeter. 4. Electrophoresis Principle and applications of native polyacrylamide gel electrophoresis 5. Centrifugation Preparative and analytical centrifugation, density gradient centrifugation and ultracentrifugation Separation 	<p>GC</p> <p>GC</p> <p>GC</p> <p>SS&GC</p> <p>MS</p> <p>DP</p> <p>DP</p> <p>DP</p> <p>GC</p>	<p>November</p> <p>December</p> <p>November</p> <p>September-December</p> <p>September</p> <p>October</p> <p>November</p> <p>December</p> <p>October</p>
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	<p>of components of a given mixture using a laboratory scale centrifuge</p> <p>6. ECG and EEG Principles of ECG and EEG, application of ECG and EEG</p> <p>7. ELISA Principle and applications of ELISA test</p> <p style="color: green;">INTERNAL SCRIPTS WILL BE CHEKED BY: SS</p> <p style="text-align: center;">3RD SEM G (DSC) FNTGCOR03T: COMMUNITY, NUTRITION AND HEALTH ASSESSMENT (THEORY)</p> <p>1. Concept on Community Concept and types of Community. Concept of community nutrition, Community health, Factors affecting community health.</p> <p>2. Nutritional Assessment Nutritional Assessment: Meaning, need, objectives and importance. Method of assessment of nutritional status – Anthropometry, Clinical, Biochemical, Dietary surveys, Vital health statistics.</p> <p>3. Concept of surveillance system Elementary idea of health agencies - FAO, WHO, ICMR, ICDS, ICAR, CSIR, ANP, VHAI, NIN and CFTRI. Role of voluntary health organisation in the improvement of Community health.</p> <p>4. Nutrition Intervention Programmes Current National Nutrition Intervention Programmes in India- SNP, ANP, Midday meal, NIDDCP, NPPNB, NNAPP. ICDS,</p> <p>5. Nutrition Education Nutrition Education: Definition, objectives of nutrition education. Methods of imparting nutrition education.</p> <p style="color: green;">INTERNAL SCRIPTS WILL BE CHEKED BY: MS</p> <p>FNTGCOR03P: COMMUNITY, NUTRITION AND HEALTH ASSESSMENT(PRACTICAL) TOTAL HOURS: 60 CREDITS: 2 1. Anthropometric Measurement of infant - Height,</p>	<p>MS</p> <p>SS</p> <p>MS</p> <p>SS</p> <p>MS</p> <p>SS</p> <p>SS</p> <p>SS</p>	<p>November</p> <p>October</p> <p>Sep-October</p> <p>September-october</p> <p>October</p> <p>November</p> <p>December</p> <p>October - November</p>
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	<p>weight, circumference of chest, mid - upper arm circumference. Calculation of BMI.</p> <ol style="list-style-type: none"> 2. Clinical assessment and signs of nutrient deficiencies. 3. Diet survey by 24 hours recall method. 4. Preparation of homemade ORS. 5. Preparation of low cost and medium cost school tiffin. <p style="text-align: center;">INTERNAL PRACTICAL MARKS WILL BE GIVEN BY : SS</p> <p style="text-align: center;">5TH SEM H</p> <p style="text-align: center;">FNTACOR111: CLINICAL NUTRITION AND DIET FOR SPECIAL SITUATIONS IN LIFE (THEORY)</p> <ol style="list-style-type: none"> 1. Nutritional management of physiological stress Nutrition in wound healing, Surgery: Pre and post surgical dietary management, Burns, Classification, Complication, Dietary management, Trauma: Dietary management, Sepsis: Dietary management. 2. Dietary Modification in febrile Condition Acute, chronic and recurrent fevers, typhoid, rheumatic fever, tuberculosis, malaria, H1N1, dengue fever and chikungunya. 3. Nutritional management of GI diseases Diseases of Esophagus and stomach: Esophagitis(GERD), Dyspepsia, Peptic ulcer, Gastritis, Gastrectomy, Dumping syndrome . Intestinal diseases: Flatulence, Diarrhea, Constipation, Hemorrhoids, Diverticular disease, Duodenal ulcer, Inflammatory Diseases of Bowel: Crohn's disease and ulcerative colitis, Irritable bowel Syndrome, Colostomy, Ileostomy 4. Malabsorption syndrome Celiac disease (Tropical sprue), Steatorrhea, Intestinal Brush border diseases, Protein losing enteropathy 5. Diseases of Gall bladder and pancreas Pathophysiologic changes, etiology and dietary management -(Biliary dyskinesia , Cholelithiasis, Cholecystitis, Cholecystectomy ,Pancreatitis) 6. Liver diseases Pathophysiology, Progression of liver disease, Role of specific nutrients and alcohol in liver diseases. Nutritional care in liver disease in the context of results of specific liver function tests, Viral hepatitis , cirrhosis of Liver, Hepatic encephalopathy, Wilsons disease. 	<p>MP</p> <p>MS</p> <p>MP</p> <p>MS</p> <p>SS</p> <p>SS</p>	<p>October</p> <p>Sep-oct</p> <p>October- November</p> <p>Oct-nov</p> <p>Nov-dec</p> <p>Sep-nov</p>
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	<p>7. Nutrition Management of Renal Disease Etiology and pathogenesis, Clinical and metabolic manifestations Diagnostic tests, Acute and chronic nephritis, Nephrotic syndrome, Renal Failure: Acute and chronic, Nephrotheasis,ESRD</p> <p>8. Nutritional management in Allergy Definition, symptoms mechanism of food allergy, Biochemical and immune testing (short), Elimination diets, Food selection, Food allergy in infancy: Milk sensitive enteropathy, intolerance to breast milk, Prevention of food allergy.</p> <p>9.Neurological diseases Alzheimer’s, Parkinson’s disease and Epilepsy, Anorexia nervosa andbulimia.</p> <p>INTERNAL SCRIPTS WILL BE CHEKED BY: MS</p> <p>FNTACOR11P: CLINICAL NUTRITION ANDDIET FOR SPECIAL SITUATIONS IN LIFE(PRACTICAL) TOTAL HOURS: 60 2 CREDITS Planning and preparation of Diets for the following diseases: i) Pepticulcer ii) Viralhepatitis (GC)</p> <p>iii) Fever iv)Acute and chronic renal failure (MS)</p> <p>INTERNAL PRACTICAL MARKS WILL BE GIVEN BY : GC & MS</p> <p>FNTACOR12T: FOOD MICROBIOLOGY AND IMMUNOLOGY(THEORY)</p> <p>1.General Introductiontomicrobes(Bacteria, Fungus, and Algae) Classification, Nomenclature and Morphology (external and internal features). Principles of staining.</p> <p>2. Growth kinetics of bacteria Growth kinetics, Factors affecting growth, different nutritional media for growth, methods of media sterilization.</p> <p>3. Microbiology of food Microbes commonly present in food and the diseases caused by them, microflora present in milk, cereals, vegetables, flesh food. Seafood and Shell fish poisoning, Mycotoxins, Foodborne Diseases, Prions.</p> <p>4.Microbial Food Spoilage Sources of Microorganisms infoods, Someimportantfoodspoilagemicroorganisms,Spoilageofspecific food groups - Milk and dairy products, Meat, poultryand</p>	<p>MP</p> <p>MS</p> <p>MP</p> <p>GC & MS</p> <p>DP</p> <p>DP</p> <p>DP</p> <p>SS</p>	<p>Nov- dec</p> <p>September</p> <p>Dec- jan</p> <p>September December</p> <p>October</p> <p>November</p> <p>December</p> <p>October</p>
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<p>seafoods, Cereal and cereal products, Fruits and vegetables and Canned products.</p> <p>5.FoodFermentations Fermentation –definition and types, Microorganisms used in food fermentations, Dairy Fermentations starter cultures and their types , concept of probiotics, Fermentated Foods-types, methods of manufacture for vinegar, sauerkraut, tempeh, miso , soya sauce, beer, wine and traditional Indian foods.</p> <p>6.Immunesystem Cells & Organs of the immune system, Innate and Acquired, Primary and secondary immune response, Active and Passive, Antigen, Antibody, Haptens, Adjuvants, Immunoglobulin- classification, polyclonal and monoclonal, basic structure and function, antigen and antibody reactions-RIA, ELISA, Immunoblot. Antibody production -processing and presentation of antigen, MHC, Humoral immune response. Cell mediated immunity, Formation, maturation and activation of B and T cells, Immune effectors system- cytokines complement system, K cells and NK cells, Cell mediated effectors response, Interferons, Immunopathology - basic principles of auto immune disease , Vaccine, toxins, toxoids, antiserum. Basic principles of immunological detection of pregnancy and immunohistochemistry.</p> <p style="text-align: center;">INTERNAL SCRIPTS WILL BE CHEKED BY: DP</p> <p>FNTACOR12P: FOOD MICROBIOLOGY AND IMMUNOLOGY (PRACTICAL) TOTAL HOURS: 60 4 CREDITS 1. Introduction to microbiology: Use of equipments Understanding and use of compound microscope Use of Autoclave Use of Incubator and Inoculation chamber 2. Preparation of different types of media (complex, differential and selective) 3. Preparation of slant, stab and plates using nutrient agar 4. Morphological study of bacteria and fungi using permanent slides 5. Gram staining 6. Bacteriological Analysis of Water by MPN method 7. Ouchterlony double diffusion test in agar-gel.</p> <p style="text-align: center;">INTERNAL PRACTICAL MARKS WILL BE GIVEN BY : DP</p>	<p>SS</p> <p>EXTEN SION LECTU RE</p> <p>DP</p>	<p>November</p> <p>Oct- November</p> <p>September- December</p>	

<p>5th Semest er DSE FOR FNTA HONS</p>	<p>FNTADSE02T: ENTREPRENEURSHIP IN FOOD INDUSTRY (THEORY)</p> <p>1.Entrepreneurial Development CASE STUDIES of SUCCESSFUL entrepreneurs, EXERCISES on ways of SENSING opportunities–sources of idea, creating efforts,SWOT49 Analysis,Entrepreneurial skill asesment est,</p>	<p>PS COMM ERCE</p>	<p>September -December</p>
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	<p>Techniques of development of entrepreneurial skills, positive self image and locus of control.</p> <p>2. Food BUSINESS management AND STUDIES of Food PROCESSING Business and ITS ASPECTS, BUSINESS opportunity Identification and ASSESSMENT techniques, BUSINESS Idea Generation and devaluation exercise, Market ASSESSMENT study Analysis of competitive situation,</p> <p>SWOT Analysis for business and for competitors, Preparation of BUSINESS plan, Preparation of project report, Methods of Arrangement of inputs – finance and material, Tax planning.</p> <p>3. Personality development and communication skills No. of Hours 20 Communications SKILLS and Personality Development, Intrapersonal communication and Body Language, Interpersonal Communication and Relationships, Leadership Skills, Team Building and public speaking, Corporate Grooming, Dressing Etiquette, Preparing for Interview, Emotional Quotient.</p> <p>INTERNAL SCRIPTS WILL BE CHECKED BY: PS COMMERCE</p> <p>FNTADSE02P: ENTREPRENEURSHIP IN FOOD INDUSTRY (PRACTICAL) TOTAL HOURS: 60 CREDITS: 2</p> <p>1. Preparation of business plan. 2. Preparation of project report. 3. Tax Planning under the head Salary. 4. Visit to a food industry</p> <p>INTERNAL PRACTICAL MARKS :- POULAMI SINHA COMMERCE</p>	<p>PS</p> <p>PS COMMERCE</p>	<p>September-December</p> <p>Do</p> <p>Do</p> <p>September-December</p>
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<p>FNTADSE03T: FOOD BORNE DISEASES AND FOOD TOXICOLOGY(THEORY)</p> <p>1. Food borne DISEASES Definition related to food borne DISEASES, types of DISEASES with example (Pandemic, Endemic and Epidemic). Infection, contamination, decontamination, disinfection, transmission (direct and indirect). Brief idea about different vector borne DISEASES, mode of TRANSMISSION prevention and control of following DISEASES: Salmonella, Shigella, Typhoid, Botulism, Cholera, E.coli food poisoning, Staphylococcus food poisoning, Clostridium infection, Bacillary infection.</p>	MS	September - Oct
<p>2. Lactose intolerance Lactose intolerance-its mechanism and enzyme deficiency.</p>	MS	October
<p>3. Mechanism of foodborne DISEASES Molecular mechanism of foodborne DISEASES.</p>	E Lec	November
<p>4. Food SAFETY Definition: Food SAFETY, TYPES of hazards (Biological, chemical and PHYSICAL HAZARDS), impact on health, control MEASURES, factors affecting food SAFETY.</p>	MS	November
<p>5. Hygiene and sanitation Hygiene and sanitation: Contamination, control methods using physical and chemical agents, use of preservatives, pest control management, personal hygiene.</p>	GC	September - November
<p>6. Food safety management Food safety management: Concept of safety management, prerequisites-GHPs, GMP, HACCP etc.</p>	GC	September - November
<p>7. Toxic agents in food Toxic agents in food: Botulism, lathyrism, Ciguatera toxins, Tetrodotoxins, Saxotoxins, conotoxins, Antivitamin, Haemagglutinins, Cyanogenic glycosides, Strychnine, Solanine, atropine, MUSCARINE.</p>	GC	December

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	<p>INTERNAL SCRIPTS WILL BE CHEKED BY: GC</p> <p>FNTADSE03P:FOODBORNE DISEASES AND FOOD TOXICOLOGY (PRACTICAL) TOTAL HOURS: 60 CREDITS: 2 1. Assessment of surface sanitation by swab and rinse method. 2. Assessment of personal hygiene. 3. Designing of various food processing systems and food service areas. 4. Design and layout of cold storage and ware house. 5. Assessment of physico chemical properties of waste water. 6. Isolation and enumeration of bacteria from rotten food bread and vegetables. 7. Testing of sanitizers and disinfectants. 8. Study of phenol coefficient of sanitizers. 9. Visit to Food industry and preparation of report.</p> <p>INTERNAL PRACTICAL MARKS WILL BE GIVEN BY :- DP</p> <p style="text-align: center;">5TH SEM G (DSE 1 SYLLABUS FOR FNTG [ONLY FOR DSC])</p> <p>FNTGDSE02T- FOOD SAFETY AND FOOD PROCESSING</p> <p>1. Food additive and food safety: Concept of food safety, factors affecting food safety, Food additives-various type and their effects on health.</p> <p>2. Food spoilage: Cereals, PULSES, Vegetables & Fruits, Milk & milk products, FLESHY foods, Fats & OILS. Food borne infections & infestation.</p> <p>3. Food adulterants PFA definition of food adulteration, Common adulterants in food and their effects on health, Common household methods to detect adulterants in food.</p> <p>4. Food laws and regulatory authority No. of Hours 10 Prevention of Food Adulteration (PFA) Act, Regulating authority-Codex Alimentarius, ISI, Agmark, Fruit Products Order (FPO), Meat Products Order (MPO), Bureau of Indian Standards (BIS), MMPO, FSSAI.</p> <p>5. Food Preservation No. of Hours 10 Food Preservation-Definition, Objectives, Methods-main principle, procedure, common examples</p> <p>6. Food adjuncts and preserved products No. of Hours 8 Spices (Chilies, Turmeric, Garlic and Ginger), use and nutritional aspect. JAMS, Jellies, Squashes-USES and nutritional ASPECTS.</p> <p>INTERNAL SCRIPTS WILL BE CHEKED BY: SS</p> <p>FNTGDSE02P- FOOD SAFETY AND FOOD PROCESSING (PRACTICAL) TOTAL HOURS: 60 CREDITS: 2 1. Detection of common adulterant in food i) Khesari flour in besan ii) Vanaspati in Ghee/Butter iii) Dried papaya seeds in black pepper iv) Metanil yellow in turmeric or coloured sweet products.v)</p>	<p>DP</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>SS</p>	<p>September-December</p> <p>Oct - December</p> <p>Oct-dec</p>
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1ST SEMESTER (NEP) MAJOR	<p>Artificially foreign matter in tea (dust/leaves). 2. Prepa ration of Jam, Jelly, Pickle and Sauce</p> <p style="color: green; text-align: center;">INTERNAL PRACTICAL MARKS WILL BE GIVEN BY :- SS</p>		
	<p>CORE COURSE (DS) FNTADS01T BASICS OF FOOD & NUTRITION</p> <p>1.Introduction to Food and Nutrition Foods:Energygiving, bodybuildingandprotective.Nutrients:macroandmicronutrients,Dieta nd balanceddiet,Menu.Healthandnutritionalstatus.Malnutrition,functional food, prebiotics, probiotics, 8 phytochemicals, nutraceuticals. Fibre. Functions of foods: physiological, psychological, social. Food groups,food pyramid,Relationbetweenfoodandnutrition,healthanddiseases.</p> <p>2. Foods, Nutrients and cooking of food Foods and their nutrientcontents:Nutrientspresentincerealsandmillets,pulses,nutsand oil seeds, fruits and vegetables, milk and milk products, flesh food, eggs, Condiment and spices, salt. Nonnutrient components of foods: phytate, tannins,oxalate,trypsininhibitor,goitrogensandothertoxicagentsinfood. Cooking: Beneficial and adverse effects of cooking. Different methods of cooking-dry, moist, frying, and micro wave cooking-advantage, disadvantageandtheeffectofvariousmethodsofcookingonfoods,Solar cooking.</p> <p>3.Food energy and energy requirementsTheenergyvalue of foods: Physical and physiological calories. Bomb calorimeter Energy requirement of an individual: Basal metabolic rate (BMR) and physical activity..BMR:Measurement(directandindirect),factorsaffectingBMR, SDAoffoods.physicalactivityratio(PAR).Classificationofactivitiesbased on occupations.Nutritional requirements and Recommended dietary allowances(RDA):factorsaffectingRDA,ApplicationofRDA,Referencem an andwoman..</p>	SS	August- November
	<p style="color: green; text-align: center;">INTERNAL SCRIPTS WILL BE CHEKED BY: MS</p>	GC	August- November
		MS	August- November

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	<p>DS FNTADS01P BASICS OF FOOD AND NUTRITION PRACTICAL CREDITS 1. Process involved in cooking, microwave, steaming, grilling, deep fat frying.</p> <p>2.Generalconceptsofweightsandmeasures,Eyeestimationofrawcooked foods</p> <p>3. Preparation of food from different food groups and their significance in relation to health</p> <p>4. Preparation of supplementary food from different age group and their nutritional significance</p> <p>INTERNAL PRACTICAL MARKS :- SS</p> <p>FNTASE01: Fundamental Skills of Computer and Instrumentation</p> <ul style="list-style-type: none"> • Proficiency in use of commonly available widely used packages related word processing, presentation, email and working knowledge in spreadsheet packages • Preparation of reports, creation of tables, graphs as especially appropriate for food and nutrition <ul style="list-style-type: none"> • Preparation of suitable aids for the purpose of communication and demonstration of food and nutrition related issues especially focussing the common people • Preparation of self-profile • Use of microscopy <p>Project submission , Examiner GC</p>	<p style="text-align: center;">SS& GC</p> <p style="text-align: center;">SS DP GC MS</p>	<p>August- November</p> <p>August - december</p>
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Food and Nutrition Minor

**CORE COURSE (DS) FNTGMA01T:
 Elementary Food and Nutrition**

<p>1. Introduction to Food and Nutrition Definition of Food, Nutrition, Nutrient, Dietetics, Balance diet, Malnutrition, Energy, BMR</p>	SS & GC	August-sep
<p>2. Food and Nutrients Carbohydrate, Protein, Fat, Vitamins and Minerals (calcium, phosphorus, sodium, potassium, iron, iodine,) - sources, classification, chemistry, functions, deficiencies of these nutrients. Functions of water and dietary fibre.</p>	MS	August- oct
<p>3. Food groups Basic food groups: Types, composition, nutritional significance, role of cookery of cereals, pulses, milk and milk products, meat, fish, egg, vegetables and fruits, nuts, oil and sugar.</p>	SS	August -Nov
<p>4. Deficiency Diseases: Elementary idea about deficiency diseases related to food and nutrition</p>	GC	August- nov
<p>PRACTICAL</p>		
<p>1. Elementary idea of weights and measures. SS</p>		
<p>2. Preparation of dishes from different food groups. MS</p>		Sep- Nov
<p>3. Planning and preparation of diet for an adult female and male. SS</p>		

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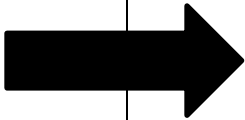
Academic Calendar

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4 th Semester	<p>FNTACOR08T: community nutrition(THEORY)</p> <p>1. Concept on Community Concept of Community, types of Community, Factors affecting health of the Community.</p> <p>2. Nutritional Assessment and Surveillance Nutritional Assessment Surveillance: Meaning, need, objectives and importance.</p> <p>3. Assessment methods for human Nutritional assessment of human: Clinical findings, nutritional anthropometry, biochemical tests, biophysical methods.</p> <p>4. Diet survey Diet survey: Need and importance, methods of dietary survey, Interpretation - concept of consumption unit, individual and total distribution of food in family, adequacy of diet in respect to RDA, concept of family food security.</p> <p>5. Clinical Signs Clinical Signs: Need and importance, identifying signs of PEM, vitamin A deficiency and iodine deficiency, Interpretation of descriptive list of clinical signs. Nutritional anaemia. Rickets, B-Complex deficiencies.</p> <p>6. Nutritional anthropometry Nutritional anthropometry:Need and importance,</p>	<p>2</p> <p>4 2 2</p> <p>5 1 2 1 1</p> <p>10 3 4 3</p> <p>10 1 2 2 2 1</p>	<p>DP</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>SS</p> <p>DP</p>	<p>APRIL</p> <p>June 1st week</p> <p>JUNE 1ST WEEK</p> <p>WITHIN JUNE</p> <p>JUNE 1ST WEEK</p>

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	<p>standard for reference, techniques of measuring height, weight, head, chest and arm circumference, interpretation of these measurements.</p> <p>Growth & Development;</p> <p>Body Composition: Changes through lifecycle</p> <p>Use of growth charts.</p> <p>7. Agencies and programmes</p> <p>International, national, regional agencies and organisations.</p> <p>National nutritional intervention programmes to combat malnutrition:ICDS, Midday meal,</p> <p>Special nutrition program,</p> <p>National programs for prevention of anaemia,</p> <p>Vitamin A deficiency control programme Iodine deficiency disorders.</p> <p>INTERNAL EXAMINER :- SS</p> <p>FNTACOR08P: COMMUNITY NUTRITION (PRACTICAL)</p> <p>1. Anthropometric Measurement of infant - Height, weight, circumference of chest, mid - upper arm circumference, precautions to be taken.</p> <p>2. Comparison with norms and interpretation of the nutritional assessment data and its significance. Weight for age, height for age, weight for height, Z scores, body Mass Index (BMI) Waist - Hip Ratio (WHR).</p> <p>3. Growth charts - plotting of growth charts, growth monitoring and promotion.</p> <p>4. Clinical assessment and signs of nutrient deficiencies specially PEM (Kwashiorkor, marasmus) I vitamin A deficiencies, Anaemia, Rickets, B-Complex deficiencies.</p> <p>5. Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dietary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through each individual, collection of data, estimation of intakes</p> <p>INTERNAL EXAMINER : SS</p>	<p align="center">4</p>  <p align="center">10</p> <p align="center">4</p> <p align="center">3</p> <p align="center">3</p> <p align="center">32 CLASS</p>	<p align="center">SS</p> <p align="center">DP</p> <p align="center">SS</p>	<p align="center">MID JUNE</p> <p align="center">JUNE END</p> <p align="center">JUNE END</p> <p align="center">WITHIN JUNE</p>
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	<p>FNTACOR09T: EPIDEMIOLOGY AND PUBLIC HEALTH(THEORY)</p> <p>1. Introduction on Health Health and its importance: Definition of health (WHO), Dimension of health,</p> <p>Positive health.</p> <p>Determinants of health.</p> <p>Concept of disease and its causations.</p> <p>2. Data of Community health Secondary sources of community health data: Indicators of health. Secondary sources of data from NFHS, Vital Statistics, Census of India, ICMR.</p> <p>3. Epidemiology Definition of epidemiology, components and aims of epidemiology, basic measurements in epidemiology. Demography and family planning. Brief idea about epidemics,</p> <p><u>epidemiological methods: analytical epidemiology (case control and cohort study);</u></p> <p><u>Experimental epidemiology.</u> Infectious diseases in epidemiology. Dynamics of disease transmission, modes of transmission of disease.</p>	<p>4</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>2</p> <p>10</p> <p>12</p>	<p>Entirely by Dr. Sinjita Dutta</p>	<p>2ND WEEK OF APRIL</p> <p>4TH WEEK OF APRIL</p> <p>JUNE END</p>
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	<p>4.Diseases: Prevention and control</p> <p>Epidemiology of diseases, prevention and control [(Nutritionally related disease:- Hyperlipidaemia, clotting disorder, scurvy, beriberi, goiter); (vector borne disease: - HIV/AIDS, malaria, poliomyelitis, dengue, tuberculosis, mumps measles rubella, chicken pox, pertussis, chikungunya); (food borne disease:- salmonellosis, shigellosis, Typhoid , botulism, amoebiasis, rotavirus, E.coli food poisoning, staphylococcal food poisoning); (water borne disease: arsenic toxicity, cholera); (non communicable disease:- obesity, diabetes, coronary heart disease)</p> <p>5.Public health Definition of public health, relation between health and nutrition.</p>	<p>3</p>		<p>WITHIN APRIL</p> <p>4TH week MAY</p>
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	<p>6. Immunization</p> <p>Immunization : definition. Host defenses and immunity, immunizing agents: its types, national immunization schedule- its importance, immunization in adults and travellers, hazards of immunization health advice to foreign travellers.</p> <p>7. Community health care</p> <p>Health care of the community, health care delivery, health care system, Primary health care in India, Indian public health standards for subcenters, PHCs, community health centers. Hospital waste management.</p> <p>8. Community water management</p> <p>Community water management: importance of water to the community, sources of water. Concept of water pollution. Purification of water in small and large scale. Drinking water handling and safe drinking water</p> <p>9. Community waste management</p> <p>Community waste management: types and methods of disposal of wastes, sewage disposal and treatment.</p> <p>10. Air pollution</p> <p>Air pollution: source of air pollution, factors of air pollution. Indoor air pollution. Monitoring of air pollution. Effects, prevention and control of air pollution.</p> <p>INTERNAL EXAMINER :- DM FNTACOR09P: EPIDEMIOLOGY AND PUBLIC HEALTH(PRACTICAL)</p>	<p>2</p> <p>2</p> <p>6</p> <p>2</p> <p>2</p> <p>2</p> <p>4</p> <p>4</p>		<p>MAY</p> <p>JUNE 1ST WEEK</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p>
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	<p>.1. Preparation of 3 audio visual aids like charts, posters, models related to health and nutrition education.</p> <p>2. Formulation and preparation of low cost and medium cost nutritious/ supplementary recipe.</p> <p>3. Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.)</p> <p>2 PROJECT SUBMISSION BY STUDENTS.</p> <p>FNTACOR10T: DIET THERAPY FOR LIFE STYLE DISORDERS(THEORY)</p> <p>1. Lifestyle disorder Introduction, types, aetiology, management.</p> <p>2. Diabetes Mellitus Definition, Etiology, Classification, long and short term complications, Diagnosis, Management (Insulin Therapy, Dietary Management with food exchange list, Exercise, Pharmacological), Role of artificial sweeteners. Overview of special conditions: Diabetes in Childhood, Pregnancy, Role of Nutrition Education, Role of Nutrition in Prevention.</p> <p>3. Cardiovascular diseases</p> <p>Prevalence, incidence, mortality with special reference to Indian situation.</p> <p>Patho - physiology and Management of Atherosclerosis,</p> <p>Endothelial dysfunction,</p> <p>Thrombosis,</p> <p>Angina Pectoris,</p> <p>Congestive cardiac failure,</p> <p>stroke,</p> <p>MI.</p>	<p></p> <p>4</p> <p>8</p> <p>8</p>	<p>GC+MS</p> <p>MS</p> <p>MP</p> <p>MP</p>	<p>WITHIN JUNE</p> <p>APRIL 2ND WEEK</p> <p>MID APRIL</p> <p>WITHIN APRIL</p>
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	Hyper-lipidemia– classification, diagnosis and			
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	<p>nutritional management, Hypertension: Oetiology, Risk factors, Patho- physiology, Management</p> <p>4. Weight management Obesity and Overweight: Body weight components, Classification of obesity,(gynoid/android and Regulation hypertrophy/hypersplasia,</p> <p>Etiology and assessment of obesity and prevalence in Indian situation,</p> <p>Complications of obesity.</p> <p>Management: Medical (Pharmacological), Nutrition and lifestyle, Surgical,</p> <p>Behavioural Juvenile Obesity. Underweight: Etiology ,</p> <p>Diet management, Eating disorders: (Anorexia Nervosa and Bulimia), Management (Medical,Nutritional care),</p> <p>Psychological support and Prevention.</p> <p>5. Nutritional management of metabolic disease:</p> <p>Gout : Role of proteins and purine, Etiology, Symptoms and complications,</p> <p>Dietary management,Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia</p> <p>6. Nutrition and respiratory health</p> <p>Physiology and functions of the respiratory system, Nutritional management of Asthma</p> <p>7. Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management</p> <p>8. Arthritis and Osteoporosis Etiology dietary treatment in arthritis and osteoporosis.</p>	<p>8</p> <p>6</p> <p>4</p> <p>4</p> <p>2</p>	<p>MP</p> <p>MS</p> <p>MP</p> <p>MP</p> <p>MS</p>	<p>WITHIN MAY</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p>
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	<p>INTERNAL EXAMINER :- GC</p> <p>FNTACOR10P: DIET THERAPY FOR LIFE STYLE DISORDERS(PRACTICAL)</p> <p>Planning and preparation of Diets for the following diseases:</p> <ul style="list-style-type: none">i) Obesity and Underweight SPii) Diabetes mellitus SPiii) Hypertension and Atherosclerosis GCiv) Overweight and Underweight SPv) Gout GCvi) Osteoporosis GC <p>INTERNAL EXAMINER :- SP</p>		GC+MS	WITHIN JUNE
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4 TH SEM GENERA L	<p style="color: red;">FNTGCR04T:DIETETICS (THEORY) TOTAL HOURS: 60 CREDITS: 4</p> <p>1. Concept on Diet therapy Definition and objective of dietetics, Definition-diet therapy, Dieticians;principles and classification of the therapeutic diet. Responsibility of dieticians.</p> <p>2. RDA, Meal planning and Dietary guidelines RDA- Definition, Nutritional requirements (RDA), Principles and objectives of meal planning,</p>	4	MS	WITHIN APRIL 2 ND WEEK
		6	GC	WITHIN MAY

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	<p>Dietary guidelines of pregnant & lactating women, infants(Weaning, supplementary food), pre-school children & school children (School lunch programme), adult males and females, old age people.</p> <p>3. Hospital diet Hospital diet: regular, soft, fluid, special feeding methods- advantages, disadvantages</p> <p>4. Dietary management of different diseases Dietary management in Gastro intestinal diseases (diarrhoea, constipation, gastritis, peptic ulcer & flatulence), Fever (short term), Diabetes mellitus (Type II - NIDDM), Heart diseases (hypertension, atherosclerosis, hyperlipidaemia), Liver diseases (infective hepatitis, cirrhosis of liver), Gout, Obesity (including assessment indices), Underweight.</p> <p>5. Food Allergy Food allergy- Definition, sources, symptoms, diagnosis, treatment, food intolerance.</p> <p>INTERNAL EXAMINER:- MS</p>	<p>4</p> <p>8</p> <p>4</p>	<p>MS</p> <p>MS</p> <p>GC</p> <p>MS</p>	<p>WITHIN JUNE 1ST WEEK</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p>
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	<p>FNTGCOR04P:DIETETICS(PRACTICAL) TOTAL HOURS: 60 CREDITS: 2</p> <p>1. Planning and Preparation of fluid diet, soft and solid diet. MS</p> <p>2. Planning & preparation of a day’s diet for the following conditions: Peptic ulcer GC Fever, GC Hypertension, GC Diabetes mellitus (Type II NIDDM), MS Hepatitis, MS Obesity. MS</p> <p>SEC 2</p> <p>1. Introduction to clinical nutrition, clinical conditions requiring dietary intervention, role of dietitian in hospitals/clinics, GC staff training, RD –requirements, procedure, functioning. DP</p> <p>2. Practical</p> <p>1. Visit to an ongoing program in ICDS: one rural, one urban. (eg. mahilamandal meeting or nutrition week celebration . 2. Visit to a health centre (ANC clinic run by Government health department and observe quality of counseling imparted to pregnant women (especially awareness of anemia, importance of IFA). 3. To visit an NGO either rural or urban and observe one intervention program implemented for 59 women, school children or adolescence (For all the above observation appropriate observation check lists will be made and used) 4. Visit to old age home/Nutrition Rehabilitation Centre/slum area and prepare report on nutritional</p>		<p>GC MS</p> <p>GC+MS</p> <p>SS</p>	<p>Within JUNE</p> <p>WITHIN JUNE</p> <p>Within JULY</p>
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	<p>status /health concern(at least 10 case studies to be done)</p> <p>5. Internship in any hospital/nursing home -case study of diseases</p> <p>6. Preparation of visual aids indicating clinical problems related to nutrition – Charts, posters, models etc. and demonstration</p> <p><u>3 PROJECTS HAS TO BE SUBMITTED BY STUDENTS</u></p> <p>INTERNAL EXAMINER GC</p> <p>SEMESTER 6 (HONOURS)</p> <p>FNTACOR13T: FOOD PROCESSING AND FOOD TECHNOLOGY(THEORY)</p> <p>1 Food Storage and Spoilage Contamination and microorganisms in the spoilage of different kinds of foods and such as cereal and cereal products, vegetable and fruits, fish and other sea foods, meat and meat products, eggs and poultry, milk and products, canned foods. Classification of food based on pH, Food infection, food intoxication, definition of shelf life, perishable foods, semi perishable foods, shelf stable foods, Storage of different kinds of foods and such as cereal and cereal products, vegetable and fruits, fish and other sea foods, meat and meat products, eggs and poultry, milk and products, spices and canned foods.</p> <p>2 Food preservation Definition, objectives and principles of food preservation. Different methods of food preservation. : Freezing and Refrigeration:Introduction to refrigeration, cool storage and freezing, definition, principle of freezing, freezing curve, changes occurring during freezing, types of freezing i.e. slow freezing, quick freezing, introduction to thawing, changes during thawing and its effect on food. Thermal Processing- Commercial heat preservation methods: Sterilization, commercial sterilization, Pasteurization, and blanching.Drying and Dehydration -</p>		<p>SS</p> <p>DP</p>	<p>MAY</p> <p>MAY-JUNE</p>
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	Definition, drying as a means of preservation, differences between sun			
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	<p>drying and dehydration (i.e. mechanical drying), heat and mass transfer, factors affecting rate of drying, normal drying curve, names of types of driers used in the food industry.</p> <p>Evaporation – Definition, factors affecting evaporation, names of evaporators used in food industry. Units of radiation, kinds of ionizing radiations used in food irradiation, mechanism of action, uses of radiation processing in food industry, concept of cold sterilization.</p> <p>3. Preserved Products Jam, Jelly, Marmalade, Sauces, Pickles, Squashes, Syrups types, composition and manufacture, selection, cost, storage, uses and nutritional aspects</p> <p>4. Food Standards and Food Laws Introduction on Food standards and Food Laws, FSSAI, ISI, Agmark, FPO, MPO, PFA, HACCP, Codex Alimentarius.</p> <p>5. Food Adulteration Definition, Classification, Different types of adulterants</p> <p>6. Food Packaging Packaging Functions and Requirements,, Printing of packages .Barcodes & other marking, Labeling Laws</p> <p>INTERNAL EXAMINER :-DP</p> <p>FNTACOR13P: FOOD PROCESSING AND FOOD TECHNOLOGY(PRACTICAL) TOTAL HOURS: 60 2 CREDITS</p> <ol style="list-style-type: none"> 1. Study on Blanching and Browning Process. 2. Preparation of Fruit preserves(Jam, Jelly). 3. Preparation of vegetable preserves.(Pickles) 4. Dehydrated Products – tray drying, sun drying etc. 5. Tomato Processing. 6. Fruit Pulping/Juice/Beverages production. 7. Preparation and Standardisation of Traditional Indian Fermented Food. 8. Visit to Food Processing and Preservation unit. 		<p>SS</p> <p>SS</p> <p>DP</p> <p>DP</p> <p>ENTIRELY BY SS</p>	<p>JUNE</p> <p>JUNE</p> <p>JUNE</p> <p>JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p>
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	<p>Detection of Adulterants in common Food Stuffs like Milk, Oil, Laddu, Turmeric etc.</p> <p>INTERNAL EXAMINER :- SS 1 PROJECT WILL BE DONE BY STUDENTS</p> <p>FNTACOR14T: RESEARCH METHODOLOGY AND BIOSTATISTICS(THEORY)</p> <p>1. Research Methodology Meaning, objectives and Significance of research. Types of research, research approaches and scientific methods, Research process, Criteria of good research.</p> <p>2. Research problem Definition and identification of a research problem, Selection of research problem. Technique Involved in Defining a Problem.</p> <p>3. Study design Meaning and needs of design, important concepts relating to research design, variables, experimental and control groups. (Use examples from epidemiology and clinical trials). Different research designs- exploratory, descriptive, analytical and diagnostic (epidemiology and clinical trials). Pilot studies. Qualitative vs quantitative research.</p> <p>4. Sampling of data and analysis Variable, parameter, statistics. Frequency distribution. Cumulative frequency. Graphical presentation techniques including Histogram, Bar chart, Pie chart along with the concepts of frequency polygon. Mean, median, mode, Standard Deviation and Standard Error of mean .Probability. Normal distribution. Student's t-distribution. Testing of hypothesis - Null hypothesis, errors of inference, levels of significance, Degrees of freedom.</p> <p>5. Preparation of report a. Graphical and diagrammatic presentation. b. Interpretation of – Meaning of</p>	<p>6</p> <p>6</p> <p>12</p> <p>12</p>	<p>Principal Madam</p> <p>Principal Madam</p> <p>Dr. Rittwik Chatterjee</p> <p>Dr. Sonali Mukherjee</p> <p>Dr. Rittwik Chatterjee</p>	<p>WITHIN JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p> <p>WITHIN JUNE</p>
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	<p>interpretation, Technique of interpretation, c. Precaution in interpretation- Interpretation of tables and figures. d. Report writing – Significance of report writing, Steps in writing report, Types of reports.</p> <p>INTERNAL EXAMINER :- DM AND SS</p> <p>FNTACOR14P: RESEARCH METHODOLOGY AND BIOSTATISTICS(PRACTICAL) 1. Assignment for calculation of mean, median, mode, standard deviation, standard error of mean and students’ ‘t’ test with provided data.</p> <p>FNTADSE045T: Dairy Technology (THEORY)</p> <p>FNTADSE045P: Dairy Technology (Practical)</p>		<p>DEBASHIS MAZUMDAR</p> <p>Entirely By Dr. Sonali Mukherjee</p> <p>Entirely by Dr. Amrita Banerjee</p> <p>Entirely by DP_</p>	<p>WITHIN JUNE</p> <p>WITHIN JUNE</p>
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	<p>FNTADSE06T: NUTRITIONAL MANAGEMENT AND COUNSELLING (THEORY)</p> <p>1. Basics of diet counselling Diet Counselling-meaning, significance, process, types Goals of counselling, individuals, group and family counselling, Basic sequence in counselling, Materials needed for counselling –models, charts, posters, AV aids, Hand outs etc, Communication process in counselling and linguistics in clinical dietary practices,</p>	4	MS	WITHIN JUNE
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	<p>problems in communication Role of Counsellor & Counselee, Techniques of obtaining relevant information- 24 Hour Dietary recall, List of food likes and dislikes, Lifestyle Dietician as a part of medical team and research team, Impact of counselling on health and disease of individuals – discussion of hospital case studies</p> <p>2. Introduction on Psychology and counselling Introduction to psychology – Definition , Nature and Scope Attention and perception – Types of attention and factors influencing attention , principles of perceptual organization and abnormalities in perception learning and memory- Types of learning, Types of memory, Forgetting and its causes motivation and emotion- Types of motives, types of emotions, emotional expression, Personality- nature and definition , factors influencing personality, Psychoanalytic theory of personality Nature and goals of counselling Principles of counselling, Characteristics of a good counsellor, Ethical principles of counselling, Special areas of counselling: Educational, family, health, community and counselling of alcoholic, and drug addicts.</p> <p>3. Counselling Skills Approaches to counselling – Psycho analytic approach, Behaviouristic, Humanistic approach, Pre – Helping phase: Rapport building skills, Attending and listening skills, Stage I skills: Empathy, respect, Genuineness and concreteness, Stage II skills: Advanced empathy, self disclosure, Immediacy and Confrontation. Stage III skills: Goal setting, Action plan Programme and Brainstorming</p> <p>4. Diet Counselling at Hospital and Community Level Role of counselling in hospital, Role of counselling in community, Organizing health camps and patient feedback – at hospital level, Organizing health camps and patient feedback – at community level, Diet counselling for obese people, Diet counselling for Diabetics, Diet counselling for CVD, Diet counselling for</p>	10	MP	WITHIN JUNE 2 ND WEEK
	<p>3. Counselling Skills Approaches to counselling – Psycho analytic approach, Behaviouristic, Humanistic approach, Pre – Helping phase: Rapport building skills, Attending and listening skills, Stage I skills: Empathy, respect, Genuineness and concreteness, Stage II skills: Advanced empathy, self disclosure, Immediacy and Confrontation. Stage III skills: Goal setting, Action plan Programme and Brainstorming</p>	10	MP	WITHIN JUNE
	<p>4. Diet Counselling at Hospital and Community Level Role of counselling in hospital, Role of counselling in community, Organizing health camps and patient feedback – at hospital level, Organizing health camps and patient feedback – at community level, Diet counselling for obese people, Diet counselling for Diabetics, Diet counselling for CVD, Diet counselling for</p>	10	MP	WITHIN JUNE

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	<p>mother and child care, Diet counselling for adolescent, Patient follow up / home visits,geriatric counselling with specific diseases like HIV/AIDS.</p> <p>INTERNAL EXAMINER:- MP</p>			
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Semester	Syllabus	Teacher	Distribution
2 nd Major	<p>FNTDSC202T: CHEMISTRY OF NUTRIENTS (THEORY)</p> <p>Course Objectives: To provide in depth knowledge of structure, properties, and basic functions of different types of nutrients and also select food groups.</p> <p>1. Chemistry of Carbohydrates: Carbohydrates: classification- mono- , di and polysaccharides; Stereoisomerism in carbohydrates. Physical and chemical properties of mono- , di-and polysaccharides.</p> <p>2. Chemistry of Lipids: Lipids: Classification – Fatty acids, triglycerides, phospholipids, Glycolipids, sterols and steroids. Eiconoids. Edible fats and oils- physical and chemical properties, Hydrogenation and importance of fats in the diet. Physical and chemical properties of saturated, monounsaturated, polyunsaturated fatty acids, trans fatty acids, phospholipids, cholesterol and liposomes. Essential fatty acids, nuts</p> <p>3. Chemistry of Amino Acids and Proteins: Proteins: Classification. Protein structure and organization: primary, secondary, tertiary and quaternary structure. Amino acids- classification. Physical and chemical properties of amino acid and protein. Biological value of proteins (BV), Net protein utilization (NPU) and Protein efficiency ratio (PER).</p> <p>4. Dietary Fibers: definition; types, composition, health benefits</p> <p>5. Water: Water in foods, water activity, phase transition of food containing water. Water</p>	<p>SS</p> <p>SS</p> <p>GC</p> <p>SS</p> <p>Extension Lecture</p>	Within April

	<p>Digestive system: elementary anatomy, and microanatomy of different parts of digestive system and its associated glands, and their functions.</p> <p>Composition of different digestive juices and their functions.</p> <p>Digestion and absorption of carbohydrate, protein and fat.</p> <p>5. Metabolism: Elementary Idea, BMR- definition, factors affecting; SDA; Enzymes- concept, properties</p> <p>6. Blood and body Fluids: Blood, composition, blood corpuscles, functions, blood groups and its importance in transfusion, hazards of mismatch blood transfusion. Rh factor, blood coagulation. Lymph: Composition and function.</p> <p>Elementary idea on immune functions; allergy with special reference to food allergens. Immunization: Importance and Immunization schedule.</p> <p>PRACTICAL</p> <p>1. 2. Determination of Bleeding Time (BT) and Clotting Time (CT). Detection of Blood group (Slide method).</p> <p>3. Identification of permanent sections (blood cells, stomach, small intestine, large intestine, liver, pancreas).</p>	<p>GC</p> <p>MS</p> <p>MS+GC</p> <p>SS</p>	