

GOVERNMENT OF WEST BENGAL

Office of the Principal

ZRA GOVT. GENERAL



Chaksrikrishnapur-Kulberia :: Kulberia :: Purba Medinipur 721649

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Criterion 2 - Teaching-learning and Evaluation

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website.

2.6.1 SUPPORTING DOCUMENTS

No	Supporting Documents			
	Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website			
1.	College Website Link:			
	https://matanginicollege.ac.in/Po-co.aspx			

Principal Shahid Matangini Hazra Govt. General Degree College for Women ChaksriKrishnapur-Kulberia::Kulberia::Purba Medinipur 721649

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Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution

PO, CO, PSO (CBCS)

Sl. No	Title	College Website Link
1	Bengali	View
2	Chemistry	View
3	Economics	View
4	English	View
5	Geography	View
6	Geology	View
7	Mathematics	View
8	Philosophy	View
9	Physics	View
10	Political Science	View
11	Sanskrit	View

College Website Link for Syllabus: <u>https://matanginicollege.ac.in/Syllabus.aspx</u>



DEPARTMENT OF POLITICAL SCIENCE PROGRAMME OUTCOME (PO) CBCS BACHELOR OF ARTS

РО	Summary	Description
PO1	Specialized Knowledge of the Discipline	After completing the course Students should gain a comprehensive understanding of various political theories and ideologies, both historical and contemporary, to analyze and interpret political phenomena in both theory and practice.
PO2	Comprehension & Communication Skills	Students should be able to articulate their ideas and arguments clearly, both orally and in written form. They will be able to comprehend the hidden structures of political phenomena particularly and social phenomena in general.
PO3	Critical Reasoning & Problem Analysis	The program develops students' analytical and critical thinking skills, enabling them to evaluate political issues and policies objectively. The course will give them knowledge of critical reasoning, which will enable to grasp a problem critically and take logical and best decision.
PO4	Develop Interdisciplinary Perspective	The program incorporates interdisciplinary approaches, drawing insights from related fields like history, sociology, economics, and philosophy. In order to explain a particular social issue or in other word to cognize the social reality social, economic, culture and political knowledge is necessary. Through this course students will able to construct an interdisciplinary approach.
PO5	Socio-Cultural Applicability	To apply the acquired knowledge to solve the ongoing socio- cultural problems of the society in general.
PO6	Ethical and Moral Perspectives	The program encourages students to consider ethical and moral dimensions in political decision-making. Develops the culture of value-based thinking, understand the pros and cons while taking decisions and lead a sound value based ethical life.
PO7	Research, Writing Skills and Learning	Students should be able to conduct research, gather data, and present their findings effectively in written form. The process of theory building, various techniques of research methodology will enable them to carry out research in latter period of their life.

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PO8	Familiarity with Recent Developments	Students will acquire knowledge about recent development of theory and practice including government and politics in the field of Political Science.
PO9	Environmental Awareness & Sustainability	Politics play a determinant role in environmental problems. This knowledge will enable students to understand the problem comprehensively and program will enable students to implement in real life platform.

Programme Specific Outcomes Nos	Programme Specific Outcomes (PSO)
PSO1	 Acquiring basic knowledge of political theory. Understanding political institutions, political thought and ideologies prevalent in different countries. To be familiar with the functioning of the organs of government like legislatures, executives, judiciaries.
PSO2	- To understand the evolutions of political theory with specific emphasis of modern times.
PSO3	- Develop a profound knowledge of Indian Constitution and Politics and understand the changing pattern of Indian polity and society as a whole.
PSO4	- Applying the practical knowledge to analyse the political behaviour of mankind of in the Indian context and in international scenarios.
PSO5	- Be able to gather knowledge of government and politics of various countries of the world.
PSO6	- Be able to explain and analyse the existing socio-political reality. Political Science graduate student have ample scope in academics, higher research institutes, UPSC and other government services and many others.



COURSE OUTCOME (CO) BACHELOR OF ARTS - POLITICAL SCIENCE HONOURS (CBCS SYLLABUS)

PAPER NAME	COURSE	COURSE OUTCOME
SEM I (Paper CC- I T) Understanding Political Theory I: Introducing Political Theory II: Political Theory and Practice The Grammar of Democracy	CO1	 CO1.1: Develop a holistic understanding of the fundamental concepts of politics and political theory. CO1.2: To develop the skill of analytical theory building. CO1.3: Acquire the skill to analyse the political issues and apply rational understanding in contextualizing the same.
SEM I (CC-2 T) Constitutional Government and Democracy in India	CO2	CO2.1: To develop an idea of Indian Constitution-its conception, making, philosophy (underlying the constitution), different Political institutions, various political Roles and their inter
I. The Constituent Assembly and the Constitution		relations. CO2.2: To develop basic understanding about the
II. Organs of Government		functioning of Indian democracy.
III. Federalism and Decentralization		CO2.3: Critically analyse the concept of Quasi - Federal Union and other related theories pertaining to Indian political system.
SEM2 (CC3T) Political Theory-Concepts and Debates Section A: Core Concepts I. Importance of Freedom II. Significance of Equality III. Indispensability of Justice IV. The Universality of Rights Section B: Major Debates	CO3	 CO3.1: To give an idea of different political theories of ninetieth and twentieth century, which prevailed in the understanding of political theory since 19th century. CO3.2: To enlighten the students with major debates of political science both in the fields of theory and practices.
SEM2 (CC4T) Political Process in India I. Political Parties and the Party System II. Determinants of Voting Behaviour III. Regional Aspirations IV. Religion and Politics V. Caste and Politics VI. Affirmative Action Policies VII. The Changing Nature of the Indian State	CO4	CO4.1: To develop clear idea of political process of India, the various determinants of political process, and the multidimensional socio-political interaction.CO4.2 Understanding the inherent socio- economic bases of Indian politics.

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SEM3 (CC-5)	C05	CO5.1: To give an idea about the constitution of
Introduction to Comparative		major countries of the world.
Government and Politics		
I. Understanding Comparative		CO5.2: To give knowledge of political process of
Politics		major countries
II. Historical context of modern		
government		
III. Themes for comparative		
analysis		
SEM3 (CC-6)	CO6	CO6.1: To give preliminary idea of public
Perspectives on Public		administration (idea of how the state
Administration		functionaries act)
I. Public administration as a		
discipline		CO6.2: To give knowledge of bureaucracy,
II. Theoretical perspectives		secretariat, Directorate, Functions of various
III. Public policy		departments, posts of the government of India
IV. Major approaches in public		
administration	<u> </u>	
SEM3 (CC-7)	CO7	CO7.1: It provides basic knowledge of
Perspectives on International		international relations, the various state and non-
Relations and World History		state actors, the prevalent theories of
		international politics thus eenabling a
A. Studying International		comprehensive understanding of the importance
Relations		of International Relations.
B. Theoretical Perspectives		
C. An Overview of Twentieth		CO7.2: To give a brief chronological account of
Century IR History		world history and chronologically understand the
		major events of twentieth century.
		CO7.3 Comprehend the implications of various
		international conflicts of interest, war and
		outcome that is shaping the global power
		dynamics.
SEM4 (CC-8) Political Processor and Institutions	CO8	CO8.1: To give knowledge of political process of
Political Processes and Institutions		major countries.
in Comparative Perspective		
I. Approaches to Studying		CO8.2: To acquaint with some major debates of
Comparative Politics		political process in postcolonial world.
II. Electoral System		
III. Party System IV. Nation-state		
V. Democratization		
VI. Federalism		
SEM4 (CC-9)	CO9	CO9.1: To give an idea of public policy process in
Public Policy and Administration		India.
in India		
I. Public Policy		CO9.2: Provides a brief idea of local self -
II. Decentralization		governance.
III. Budget		5°,
IV. Citizen and Administration		CO9.3: Provides a brief idea of different issues
Interface		related to
V. Social Welfare Administration		governance.
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SEM4 (CC10) Global Politics I. Globalization: Conceptions and Perspectives II. Contemporary Global Issues III. Global Shifts: Power and Governance	CO10	 CO10.1: To provide an idea of world politics in the era of globalization. CO10.2: To provide an idea of global political economy. CO10.3: Covers major global issues such as environmental issues, non-proliferation of nuclear weapon, issue of international terrorism and problem of migration.
SEM5 (CC-11) Classical Political Philosophy I. Text and Interpretation II. Antiquity Plato, Aristotle III. Interlude: IV. Possessive Individualism Hobbes, Locke	CO11	CO11.1: This course introduces one to the basic philosophical understanding of human nature and the intersection of man and politics.CO11.2: It introduces the basic political understandings of philosophers like Plato, Aristotle, Hobbes, Locke which are still relevant in today's world.
SEM5 (CC-12) Indian Political Thought-I I. Traditions of Pre-colonial Indian Political Thought II. Ved Vyasa (Shantiparva): Rajadharma III. Manu: Social Laws IV. Kautilya: Theory of State V. Aggannasutta (Digha Nikaya): Theory of kingship VI. Barani: Ideal Polity VII. Abul Fazal: Monarchy VIII. Kabir: Syncretism	CO12	CO12.1: This course introduces one to the rich heritage of ancient Indian thought and enables one to understand the philosophical basics of the modern Indian nation state.CO12.2: The readings of Manu, Kautilya, Barani etc. is essential to the understanding of the inclusive and resilient nature of the present Indian state.
SEM6 (CC- 13) Modern Political Philosophy I. Modernity and its discourses II. Romantics III. Liberal socialist IV. Radicals	CO13	 CO13:1: To provide knowledge critically examining Rousseau's views on Freedom and Democracy. CO13:2: It evaluates John Stuart Mill's views on liberty and provide idea about representative government. CO13:3: It identifies the origins and complexities of the theories developed by Wollstonecraft CO13:4: It evaluates and examine Marx's views alienation, class struggle etc.

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SEM((CC 14)	CO14	
SEM6 (CC-14)	CO14	CO14.1: This Course gives an idea of the various
Indian Political Thought-II		multifaceted inclusive political thought of
I. Introduction to Modern Indian		famous personalities which contributed in
Political Thought		shaping the Indian nation
II. Rammohan Roy: Rights		
III. Pandita Ramabai: Gender		CO14.2: It provides a clear idea of the major
IV. Vivekananda: Ideal Society		theoretical foundation of the present Indian State,
V. Gandhi: Swaraj		encompassing within its purview the thoughts of
VI. Ambedkar: Social Justice		Raja Rammohan Roy as well as Iqbal and Lohia,
VII. Tagore: Critique of		
Nationalism		CO14.3: It also enables one to understand the all-
VIII. Iqbal: Community		encompassing nature of the Indian State.
IX. Savarkar: Hindutva		
X. Nehru: Secularism		
XI. Lohia: Socialism		
SEM5 (DES-1)	CO15	CO15.1: This course enables one to understand
India's Foreign Policy in a		the importance of setting the contours of ones
Globalizing World		own foreign policy, keeping in mind the
		changing and dynamic nature of a globalised
		world,
		CO15.2: It gives an idea of Indisa present status
		, rple and responsibility as an actor in
		International field and the major matrix
		operating which is reflected in her foreign
		policy.
SEM5 (DSE-2)	CO16	CO16.1: This course provides an understanding
United Nations and Global		about the need of an international Organisation
Conflicts		like the UNO in maintaining peace and balance
I. The United Nations		in the international scenario.
II. Major Global Conflicts since		
the Second World War		CO16.2: It also gives knowledge about the
III. Assessment of the United		major conflicts in the past decades which
Nations as an International		devastated the world and thus the necessity to
Organisation: Imperatives of		prevent any such war situation in future,
Reforms and the Process of		It teaches the need to be tolerant and
Reforms		accommodative.
SEM((DSE2T)	CO17	CO17 1. The ignue of Citizenship and iter.
SEM6 (DSE3T) Citizenshin in a Clabalizing World	CO17	CO17.1: The issue of Citizenship and its various
Citizenship in a Globalizing World		dimensions are of uttermost importance today.
		This course enables one to understand the basic
		notion of a Citizen, the evolution of this concept
		since ancient times and also the role and
		responsibility of a true citizen in the present
		scenario. It also gives an idea of the role of
	CO19	modern State towards its citizens.
SEM6 (DSE4T)	CO18	CO18:1: This course enables students to develop
Human Rights in a Comparative		a theoretical understanding of the concept of
Perspective		Human Rights.
I. Human Rights: Theory and		
Institutionalization		CO18:2: It gives a historical and global
II. Issues		perspective on human rights.
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III Structural Violanca		
III. Structural Violence SEM3 (SEC-1) Public Opinion and Survey Research I. Introduction to the course II. Measuring Public Opinion with Surveys: Representation and sampling III. Survey Research IV. Quantitative Data Analysis V. Interpreting polls	CO19	 CO18:3: The course outline also contains a detailed institutional framework set up to deal with human rights violations. CO19.1: To provide knowledge of research methodology. It enables one to learn the process to use of different techniques in research. CO19.2: This course enables one to learn the fundamentals of any research, the methodology to be used, the process of data analysis and most importantly to develop an unbiased, neutral approach as a researcher. CO19.3: It teaches one to develop a keen understanding of the context of research, the importance of opinion analysis and enhance rationality in thinking process.
SEM4 (SEC2T) Legislative Practices and Procedures I. Powers and functions of people's representative at different tiers of governance II. Supporting the legislative process III. Supporting the Legislative Committees IV. Reading the Budget Document V. Support in media monitoring and communication	CO20	CO20.1: To provide detailed knowledge of power and functions of people's representatives at different level.CO20.2: To give detailed knowledge of various legislative process of India including budget, law making.
SEM1 (GE-IT) Nationalism in India I. Approaches to the Study of Nationalism in India Nationalist, Imperialist, Marxist, and Subaltern Interpretations II. Reformism and Anti-Reformism in the Nineteenth Century Major Social and Religious Movements in 19th century. III. Nationalist Politics and Expansion of its Social Base IV. Social Movements V. Partition and Independence	CO21	 CO21.1: The program enables to understand explores the historical evolution of Indian nationalism, its key ideologies, and prominent leaders. CO21.2: Students gain a comprehensive understanding of the factors influencing India's nationalist movement. They can critically analyze its impact on the country's political, social, and cultural development, fostering a deeper appreciation of India's identity and history.

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SEM2 (GE-2T)	CO22	CO22.1: The program provides understanding of
Governance: issues and challenges		the complexities of governance in diverse
1. Government and governance:		contexts.
concepts		
2. Governance and development		CO22.2: One can gain knowledge about the
3. Environmental Governance		governance mechanisms, policy formulation, and
4. Local governance		public administration and can critically assess
5. Good governance initiatives in		governance challenges, propose innovative
India: best practices		solutions, and contribute to effective and ethical
Public Service Guarantee Acts		decision-making for fostering inclusive and
		sustainable development in societies.
SEM3 (GE-3T)	CO23	CO23.1: The program gives understanding about
Gandhi and the Contemporary	0010	Mahatma Gandhi's life, philosophy and activism.
World		Wanadha Sanah Sine, philosophy and activism.
I. Gandhi on Modern Civilization		CO23.2: Student gains insight into the idea of
and Ethics of Development		nonviolent resistance, social justice and global
II. Gandhian Thought: Theory and		relevance and can apply Gandhian principles to
Action		address contemporary challenges, promote peace,
III. Gandhi's Legacy		human rights and sustainable development and
IV. Gandhi and the Idea of Political		that equips one to be ethical leaders, fostering
IV. Ganum and the idea of Fontical		
		positive change in the world.
SEM4 (GE-4T)	CO24	CO24.1: This course provides an understanding
GE4T: United Nations and Global	0024	about the need of an international Organisation
Conflicts		like the UNO in maintaining peace and balance in
I. The United Nations		the international scenario.
II. Major Global Conflicts since the Second World War		CO24.2. It also gives knowladge shout the main
		CO24.2: It also gives knowledge about the major
III. Assessment of the United		conflicts in the past decades which devastated the
Nations as an International		world and thus the necessity to prevent any such
Organisation: Imperatives of		war situation in future,
Reforms and the Process of		It teaches the need to be tolerant and
Reforms		accommodative.

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COURSE OUTCOME (CO) BACHELOR OF ARTS - POLITICAL SCIENCE (GENERAL) (CBCS SYLLABUS)

PAPER NAME	COURSE	COURSE OUTCOME
SEM1 (DSC-1A) (CC-1) Introduction to Political Theory Credit 1. Course Content:	CO25	CO25.1: Develop the basic understanding about what is political theory and it's various theoretical approaches.
 Concepts: Debates in Political Theory: 		CO25.2 : Understanding the basic political theories of rights, liberty, equality, democracy and sovereignty and the debates which are basic to the understanding of political science.
SEM2 (DSC-1B) (CC-2) Indian Government and Politics	CO26	CO26.1: Develop the basics of Indian political System, Constitution of India, the powers and functions of the government, the executive, the legislative and judiciary.CO26.2: Understanding the decentralization of powers, the challenges to Indian polity,
SEM3 (DSC-1C) (CC-3)	CO27	communalism, casteism and regionalism. CO27.1: To give an idea about the constitution
Comparative Government and Politics		of major countries of the world.
		CO27 .2: To give knowledge of political process of major countries
SEM4 (DSC-1DT) (CC-4) Introduction to International Relations 1. Approaches to International Relations	CO28	CO28.1: The course enables to develop the key concepts and theoretical bases to international relations and provides a comprehensive overview of the evolution of the international system.
 Cold War & Post-Cold War Era India's Foreign Policy 		CO28.2: Gives understanding of the international political system with special reference to the Cold war and post cold war scenarios. CO28.3: Develop analytical understanding of Indian foreign policy and it's dynamics.
SEM3 (SEC- 1) Legislative Support 1. Powers and functions of people's	CO29	CO29.1: The program provides knowledge about legislators and legislative bodies.
representatives 2. Supporting the legislative process: 3. Supporting the legislative committees. 4. Reading the budget document:		CO29.2: Skills are developed in research, policy analysis, and drafting legislation, formulating and implementing laws, and thereby contributing to informed decision- making and efficient legislative processes to address societal needs and challenges.
5. Support in media monitoring and communication:		

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SEM4 (SEC-2) Public Opinion and Survey Research I. Introduction to the course II. Measuring Public Opinion with Surveys: Representation and sampling III. Survey Research IV. Quantitative Data Analysis V. Interpreting polls SEM5 (SEC-3) Democratic Awareness with Legal Literacy	CO30 CO31	 CO30.1: The program equips individuals with expertise in conducting accurate and comprehensive surveys to gauge public sentiment and attitudes. CO30.2: Students become skilled in data analysis and interpretation that enables to provide valuable insights to policymakers, organizations, and businesses for informed decision-making and effective public engagement strategies. CO31.1: Illustrate the different laws related to criminal jurisdiction and gain knowledge of laws relating to consumer rights, Right to Information etc.
SEM6 (SEC4T) Conflict and Peace Building Unit I. Concepts Unit II: Dimensions of Conflict Unit III: Sites of Conflict Unit IV: Conflict Responses: Skills and Techniques	CO32	 CO32.1: The program equips one with the knowledge and skills to understand the root causes of conflicts, develop strategies for effective peacebuilding, and promote sustainable reconciliation processes. CO32.2: Students will be equipped to foster dialogue, mediate disputes and contributing to the resolution and prevention of conflicts in diverse social and international contexts.
SEM5 (DSE-1A) Themes in Comparative Political Theory 1. Distinctive features of Indian and Western political thought 2. Western Thought: Thinkers and Themes 3. Indian Thought: Thinkers and Themes 3. Indian Thought: Thinkers and Themes 3. Indian Thought: Thinkers and Themes 3. Indian Thought: Policy: and Administration and Public Policy: Concepts and Theories 1. Public administration as a discipline: 2. Administrative theories: 3. Understanding public policy: 4. From Development Administration to New Public Management.	CO33 CO34	 CO33.1: Illustrate various political ideologies and systems across cultures and history and gain a deep understanding of various comparative theoretical frameworks. CO33.2: They can critically assess political phenomena, identify trends, and make informed evaluations of governance and policy in diverse global contexts. CO34.1: Relate the different approaches to the development of public administration. CO34.2: Illustrate the nature scope and evolution of public administration.

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SEM5 (GE1T) Nationalism in India I. Approaches to the Study of Nationalism in India Nationalist, Imperialist, Marxist, and Subaltern Interpretations II. Reformism and Anti-Reformism in the Nineteenth Century Major Social and Religious Movements in 19th century III. Nationalist Politics and Expansion of its Social Base IV. Social Movements V. Partition and Independence	CO35	CO35.1: The program enables to understand explores the historical evolution of Indian nationalism, its key ideologies, and prominent leaders. CO35.2: Students gain a comprehensive understanding of the factors influencing India's nationalist movement. They can critically analyze its impact on the country's political, social, and cultural development, fostering a deeper appreciation of India's identity and history.
SEM6 (GE2T) United Nations and Global Conflicts I. The United Nations II. Major Global Conflicts since the Second World War III. Assessment of the United Nations as an International Organisation: Imperatives of Reforms and the Process of Reforms	CO36	CO36.1: The program enables deep understanding on the United Nations' role in conflict resolution and peacekeeping efforts worldwide. CO36.2: One can gain an insight about global conflicts, the UN's mechanisms, and diplomatic strategies and can analyze complex international crises, propose effective solutions, and contribute to fostering peace, security, and cooperation on the global stage.

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Shahid Matangini Hazra Govt. General Degree College for Women Department of Chemistry POs, PSOs and COs

Programme Outcomes (POs)

РО	Description
PO1	Student acquires basic idea about fundamental laws, kinetics, basic rules and principles
	of chemistry that involve in different types of physico-chemical phenomena.
PO2	Student gains knowledge about physical and chemical properties, spectral and magnetic
	properties, optical and geometrical properties, structures and bonding of organic and
	inorganic compounds also biomolecules.
PO3	Student learns about syntheses, chemical reaction and mechanism, separation
	techniques of compounds.
PO4	Student acquires knowledge about the basic application, function, use and also adverse
	effect of different kinds of materials and compounds.
PO5	Student gains basic idea about the analysis and characterization of compounds as well as
	biological and environmental samples.
PO6	Student becomes aware about the impact of chemistry on the environment, society and
	also everyday life.

Programme Specific Outcomes (PSOs)

PSO	Description
PSO1	Be able to explain properties of matter, thermodynamics and kinetics of physico-
	chemical phenomena of macro and microscopic systems.
PSO2	Acquiring basic knowledge and understanding to carry out the synthesis,
	characterization, analysis and separation of compounds.
PSO3	Acquiring knowledge and idea about the different properties, structure and bonding,
	reaction mechanism application and use of compounds.

Courses Outcomes (COs)

Paper Name	Course	Outcomes
SEM-I(CC1)	CO1	CO1.1: Basic idea about bonding and Properties of organic
Organic Chemistry		molecules
a) Bonding and Physical		CO1.2: Acquire knowledge about the reaction mechanism of
Properties		organic reaction
b) General Treatment of		CO1.3: To understand symmetry and optical activity of
Reaction Mechanism I		chiral compounds.
c) Stereochemistry I		
SEM-I(CC2)	CO2	CO2.1: Acquire knowledge about the behaviour of different
Physical Chemistry		ideal gases and real gases.
a) Kinetic Theory and		CO2.2: Know about the thermodynamic principles or laws
Gaseous state		governing the physiochemical behaviour of a system
b) Chemical		CO2.3: Gain knowledge about the kinetics of a chemical
Thermodynamics		reactions.

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c) Chemical kinetics		
SEM-II(CC3)	CO3	CO3.1: Know about the fundamentals behavior of sub-
Inorganic Chemistry		atomic particles.
a) Extra nuclear Structure of		CO.3.2: Explain the nature of elements and their different
atom		periodic properties.
b) Chemical periodicity		CO3.3: Know about the acid-base nature of different
c) Acid-Base reactions		substance.
d) Redox Reactions and		CO3.4: Know about the redox nature of different substance.
precipitation reactions		cos.4. Know about the redox nature of different substance.
SEM-II(CC4)	CO4	CO4.1: To understand symmetry and optical activity of
Organic Chemistry	004	chiral compounds.
a) Stereochemistry II		CO4.2: Acquire knowledge about the reaction mechanism of
b) General Treatment of		organic reaction
Reaction Mechanism II		CO4.3: Idea about Substitution and Elimination Reactions.
c) Substitution and		CO4.5. Idea about Substitution and Limination Reactions.
Elimination Reactions		
	CO5	COE 1. Know about the principle of transport processor
SEM-III(CC5) Bhysical Chamistry	CUS	CO5.1: Know about the principle of transport processes.
Physical Chemistry		CO5.2: Gain knowledge about the application of
a) Transport processes		thermodynamic laws or principle to explain physico-
b) Applications of		chemical changes.
Thermodynamics – I		CO5.3: Learn about theoretical approach to explain the
c) Foundation of Quantum		properties of physico-chemical systems.
Mechanics		
SEM-III(CC6)	CO6	CO6.1: Acquire knowledge about the different types of
Inorganic Chemistry		interactions present in molecules and recognize the three
a) Chemical Bonding-I and II		dimensional structures of molecules by VBT and MOT.
b) Radioactivity		CO6.2: Knowledge about the radioactivity and related
		phenomena of radioactive atoms.
SEM-III(CC7)	CO7	CO7.1: Chemical behaviour of different types of organic
Organic Chemistry		molecules including hydrocarbon and carbonyl compounds.
a) Chemistry of alkenes and		CO7.2: Knowledge about electrophilic and nucleophilic
alkynes		aromatic substitution reaction of organic molecules.
b) Aromatic Substitution		CO7.3: Know about chemical behaviour of organometallic
c) Carbonyl and Related		compounds.
Compounds		
d) Organometallics		
SEM-IV(CC8)	CO8	CO5.1: Application of thermodynamic laws or principle to
Physical Chemistry		explain physico-chemical changes
a) Application of		CO5.2: Study the behaviour of Electrical Properties of
Thermodynamics – II		molecules
b)Electrical Properties of		CO5.3: Theoretical approach to explain properties of macro
molecules		and micro systems.
c) Quantum Chemistry		
SEM-IV(CC9)	CO9	CO9.1: Know about metal extraction and purification
Inorganic Chemistry		techniques.
a) General Principles of		CO9.2: Reaction, structure and bonding properties of s and
Metallurgy		p-block elements
b) Chemistry of <i>s</i> and <i>p</i> Block		CO9.3: Basic idea about coordination chemistry.
Elements		· · · · ·
c) Coordination Chemistry-I		
	I	

	CO10	CO10.1. Accuire language about preparties and reaction
SEM-IV(CC10)	CO10	CO10.1: Acquire knowledge about properties and reaction
Organic Chemistry		of nitrogen compounds
a) Nitrogen compounds		CO10.2: Know about rearrangement reaction of organic
b) Rearrangements		molecules.
c) The Logic of Organic		CO10.3: Get an idea about syntheses of organic molecules.
Synthesis		CO10.4: Application of UV, IR, NMR Spectroscopy in
d) Organic Spectroscopy		different organic compounds.
SEM-V(CC11)	CO11	CO11.1:.Application and study the properties of
Inorganic Chemistry		coordination compound.
a) Coordination Chemistry-II		CO11.2: Reaction, structure and bonding properties of d
b) Chemistry of d- and f-		and f-block elements
block elements		
SEM-V(CC12)	CO12	CO12.1: Get an idea about carbocyclic and heterocyclic
Organic Chemistry		reactions.
a) Carbocycles and		CO12.2: To understand symmetry and optical activity of
Heterocycles		cyclic chiral compounds
b) Cyclic Stereochemistry		CO12.3: Knowledge about pericyclic reaction of organic
c) Pericyclic reactions		molecules.
d) Carbohydrates and Bio-		CO12.4: Identification and analyses of different types of
molecules		Carbohydrates and Bio-molecules
SEM-VI(CC13)	CO13	CO13.1: Acquire knowledge about enzymatic and catalytic
Inorganic Chemistry		biological processes.
a) Bioinorganic Chemistry		CO13.2: Application of organometallic compounds in the
b) Organometallic Chemistry		fields of catalysis, medicine etc.
c) Reaction Kinetics and		CO13.3: Acquire knowledge about the reaction mechanism
Mechanism		of inorganic molecules.
SEM-VI(CC14)	CO14	CO14.1: Know about fundamental principles of different
Physical Chemistry		spectroscopic techniques.
a) Molecular Spectroscopy		CO14.2: Study the different types of photochemical
b) Photochemistry		reactions
c) Surface phenomenon		CO14.3: Basic idea about the laws of surface phenomena of
		liquids and solids.
		Process.
SEM-V(DSE1)	CO15	CO15.1: Know about the structural properties of solid.
Advanced Physical		CO15.2: Acquires knowledge about the properties
Chemistry		microscopic particles.
a) Crystal Structure		CO15.3: Gain basic theoretical laws and principles of
b) Statistical		matter.
Thermodynamics		
c) Specific heat of solid, 3rd		
law and Adiabatic		
demagnetization		
SEM-V(DSE2)	CO16	CO16.1: Learn basic concepts of different analytical
Analytical Methods in		techniques including optical, thermal and electrical.
Chemistry		CO16.2: Know about different techniques of separation
a) Qualitative and		including chromatography and solvent extraction.
quantitative aspects of		
analysis		
b) Optical , Thermal &		
Electroanalytical methods		
	1	
of analysis methods of		

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analysis		
c) Separation techniques		
SEM-VI(DSE3)	CO17	CO17.1: Know about the principle and designing of green
Green Chemistry		chemistry.
a) Principles of Green		CO17.2: Learn about synthesis of the green chemical
Chemistry and Designing		reaction.
a Chemical synthesis		
b) Examples of Green		
Synthesis/ Reactions and		
some real world cases		
c) Future Trends in Green		
Chemistry		
SEM-VI(DSE4)	CO18	CO18.1: Study the properties and characterization of
Polymer Chemistry		polymers.
a) Introduction and history		CO18.2: Know about the syntheses and applications of
of polymeric materials		polymers in different field.
b) Nature and structure		
and functionality of		
polymers		
c) Properties of Polymer		
SEM-III(SEC1)	CO19	CO19.1: Acquire knowledge about the properties, structure
Analytical Clinical		and function of biomolecules including carbohydrate,
Biochemistry		proteins, Lipids, enzymes.
a) Basic understanding of		CO19.2: Know about the diagnosis approach of blood and
the structures, properties		urine.
and functions of		
carbohydrates, lipids		
and proteins		
b) Biochemistry of		
disease: A diagnostic		
approach by blood/ urine		
analysis	CO20	CO20 1. Cat ganaral idea about particides and adverse
SEM-IV(SEC2) Pesticide chemistry	CO20	CO20.1: Get general idea about pesticides and adverse effects (natural and synthetic)
a) General introduction to		CO20.2: Acquiring knowledge about syntheses, structure
pesticides		and uses.
b) Synthesis, structure and		
use of Pesticides		
use of Pesticides		

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DEPARTMENT OF ECONOMICS PROGRAMME OUTCOME (PO) CBCS BACHELOR OF SCIENCE :: HONOURS COURSE

РО	Summary	Description	
PO1	Specialized Knowledge of the Discipline	After completing the course Students should gain a comprehensive understanding of various economic theories and models which will help them to understand practical economic problems and the working of an economy.	
PO2	Comprehension & Communication Skills	The programme should orient the mind of the students in such a way that they will be able to comprehend practical economic scenarios and the possible solution or policies to tackle any economic problems and it would also help the students to increase their communication skills.	
РОЗ	Critical Reasoning & Problem Analysis	The structure of the programme should increase the reasoning capabilities and the analytical skills of the students which would gradually help them to solve to analyse the economic situations critically and provide suggestions, checking the validity and accuracy using effective tools. Prepare students to develop own thinking /opinion regarding current national or international policies and issues.	
PO4	Develop Interdisciplinary Perspective	The discipline of economics has an extremely rich and multifaceted history, with numerous actors and varied theoretical and methodological contributions which incorporates several interdisciplinary approaches from philosophy, psychology, sociology and political science. This helps students to understand any economic problem with a broader perspective.	
PO5	Socio-Cultural Applicability	Several courses under this programme helps students to understand various socio-cultural problems and to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them. Prepare students to develop critical thinking to carry out investigation about various socio-economic issues objectively while bridging the gap between theory and practice.	
PO6	Ethical and Moral Perspectives	The program encourages students to consider ethical and moral dimensions while formulating an economic policy. The value judgement of a particular economic phenomena or of a policy has been considered in the welfare economics.	

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PO7 Research, Writing Skills and Learning		The students should get an understanding about research methodology for identifying, formulating and analysing complex economic problems to substantiate and conclude by applying the knowledge of statistics., crucial learning skills in data collection, analysis and interpretation with appropriate statistical and econometric tools.			
PO8	Familiarity with Recent Developments	The programme would help the students to get more familiar to recent economic scenarios and equip them with concepts and tools to have a better understanding of the developments.			
PO9 Environmental Awareness & Sustainability		The programme also helps the students to understand the issues of environmental contexts and sustainable development.			

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Programme Specific Outcomes Nos	Programme Specific Outcomes (PSO)
PSO1	This programme will provide a strong foundation in economic theories and their applicability.
PSO2	They would also provide a strong understanding of using mathematical, statistical and econometric tools in solving economic problems.
PSO3	The students will develop an economical way of thinking.
PSO4	They will also be able to interpret large sets of data as well as develop theoretical models.
PSO5	The students will also have a handful of experience in using soft wares like MS Office and different ICT facilities.
PSO6	The students will develop effective communication skills, teamwork, leadership and managerial abilities which will play a strong role in their future careers in academics, industry and entrepreneurship and other fields.

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COURSE OUTCOME (CO) ECONOMICS HONOURS (CBCS SYLLABUS)

PAPER NAME	COURSE	COURSE OUTCOME
Semester I		Each student will have a clear idea of
		CO1.1: The subject matter of economics
C1T: Introduction	CO1	CO1.2:How market work
Microeconomics		CO1.3:Household Behaviour
		CO14:Behaviour of Firms in Product Markets that are Perfect
		CO1.5: Behaviour of Firms in Product Markets that are imperfect
		CO1.6: Behaviour of Firms in Input Market.
		After the completion of this course students will be able to
		CO21: Get aware about the increased use of
CT2: Mathematical	CO2	mathematical tools in solving economic problems.
Methods in Economics –I		CO2.2: Use various mathematical techniques like differentiation, integration, Difference Equations etc. for understanding basic economics
		CO2.3: To get a taste of probability theory for studying theoretical distribution.
Semester II	CO3	CO3.1: The course will acquaint students with introductory ideas of Macroeconomic structure.
		CO3.2: Understanding the role of money in the economics
C3T: Introductory Macroeconomics		CO3.3: Appreciation of the problems related to inflation and how to address the same.
		CO3.4: Understanding how an economy works in the short run.

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	nment of West Be	Govt. General Degree College for Women, engal, Affiliated to Vidyasagar University
C4T Mathematical	CO4	conomics - CBCS CO4.1:A matrix provides a very powerful way of organizing manipulating data. So the student must be very well versed with matrix operations so as to apply in economic problem.
Economics II:		CO4.2:Develop techniques for dealing with constraints
		which satisfy one or more functional equations while
		Maximizing or minimizing a function. The fundamental objective in this section is the derivation and application of the method of Lagrange multiplier.
		CO4.3: Explain the techniques for solving and analyzing ordinary differential equations and techniques of analysis that are most common in economics.
Semester III		CO5.1: This course will give students an understanding of consumer behavior through utility maximization theories.
	CO5	CO5.2: To discuss the concept of production and costs
C5T: Intermediate Microeconomics-I		CO5.3: To study perfectly competitive market equilibrium: short run and long run
		CO5.4: Operations of firms under perfect competition, social cost of perfect competition and operation of input market under perfect competition will also be introduced in this course.
		CO6.1: This course will enable the students to study most important macroeconomic models, e.g., Keynesian model.
C6T: Intermediate Macroeconomics-I	CO6	CO6.2: This will also enable them to explain the economic activities using the theoretical ideas.
		CO6.3:To introduce the concept of Inflation, its causes and
		effects, the inflation- unemployment trade-off.
		CO7.1: To study what data are, how data are characterized and what tools are used to describe a set of data.
	I	4

		Economics - CBCS CO7. 2: Analysis of bivariate data on the basis of descriptive statistical measures (correlation and
		regression). This is a stepping stone to study econometrics.
C7T: Statistical Methods for Economics	CO7	CO7.3: Index number is a widely used statistical device for comparing a group of related variables with another group of same variables over two different time periods. So the students are provided with a detail analysis of index number with special reference to cost of living index number and gross domestic product deflator.
		CO7.4:To introduce random variable, probability, probability
		Distributions.
		CO7.5:To discuss joint distributions of random variables;
		CO7.6:They will also learn about sampling methods, distributions and estimations
Semester Iv		CO8.1: To explain theoretical concepts pertaining to working of imperfect marks, general equilibrium, welfare economics and market failures.
	CO8	CO8.2:Specific focus on techniques of game theory and its applications in oligopolistic markets
C8T: Intermediate Microeconomics-II		CO8.3: The student is expected to learn outcomes of the labor market under monopsony, bilateral monopoly and surplus value of labor.
		This paper will help students
C9T: Intermediate Macroeconomics II	CO9	CO9.1: To discuss the different schools of Macroeconomic thoughts
		CO9.2: To study the microeconomic foundations of macroeconomics including consumption, investment and demand for money
		CO9.3: This course will also enable them to learn various theories of economic growth.
		CO10.1: The course will enable the students to learn some sophisticated econometric tools to deal with statistical da

		Economics - CBCS CO10.2: This course is meant to learn the Linear
C10T: Introductory	CO10	Econometric Model with the basic
Econometrics		Assumptions of the Simple Model.
		CO10.3: They will also have knowledge of ANOVA. In econometrics this course offers deep understanding of the problems of Multi collinearity, Heteroscedasticity, Auto-correlation and Dummy variables.
Semester v		CO11.1: This course will acquaint the students with various theories and models regarding international trade among economies.
C11T: International	CO11	CO11.2: It will also enable them to learn about different policies of international trade and their
Economics		Implications
		CO12.1: To study government intervention in case of
		market failure and analysis of public expenditure to finance development.
C12T: Public Economics	CO12	CO12.2: To analyze private versus public good and to study the allocation of public goods with reference to Lindale and voting equilibrium.
		CO12.3: To study the principles of taxation and its impact on income distribution, work efforts, and on savings and optimal taxation.
Semester VI	CO13	CO13.1: To analyze economic Development since independence.
C13T: Indian Economy		CO13.2:The students are supposed to gain an intensive exposure of the problems and growth aspects
		Through sectoral analysis of the Indian Economy.
		CO13.3:To explain the demographic dividend and analyze the development of social sectors
C14T: Development Economics	CO14	CO14.1: This course gives the students the idea of development as against growth. The students are expected to learn different models of the theories of development

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 Ec	onomics - C	BCS
		To study the measures of poverty like ratio, poverty gap etc.
	CO14.3): State.	To study the political Institutions and the

DISCIPLINE SPECIFIC ELECTIVE (DSE)

Semester v DSE 1T: Economics of Health and Education	CO15	CO15.1: This course provides a microeconomics framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspect inequality and discrimination in both sectors. It also gives an overview of health and education in India.
DSE 2T: Financial Economics	CO16	CO16.1: This course is expected to make students aware of the basic theory of financial economics.CO16.2: The students will also be able to form various models of modern financial economicsCO16.3: This course will help the students to get the idea new emerging field of corporate finance
Semester VI DSE3T: Topics in Microeconomics –I	CO17	 CO17.1: This course introduces students to the advanced topics of microeconomics and its applications. CO17.2: It introduces the basic concepts of game theory in a way that allows students to use them in solving simple problems. CO17.3: The emphasis will be on giving conceptual clarity to the student.
		CO18.1: This course is expected to make students aware of the economic policies in tackling economic problems and development issues in other developing, developed and emerging economies like Japan, China, Russia, and Latin America.

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		azra Govt. General Degree College for Women, Vest Bengal, Affiliated to Vidyasagar University Economics - CBCS
DSE4T: Comparative Economic Development (1850-1950)	CO18	CO18.2: The students will also be exposed to success stories of economies from under development to development.

SKILL ENHANCEMENT COURSE (SEC)

	`	CO19.1: To understand the sources of data and to
Semester III		understand the basic methods of sampling.
		CO19.2: To have an understanding of the measures of
		frequency distribution and summary statistics.
		CO19.3: Analysis of Indian Data: To have a basic idea
	CO19	about performing data analysis using MS-Excel
SEC1T Data		
Analysis:		
J		CO19.4: To know about the websites for obtaining
		secondary data e.g. Economic Survey, RBI Bulletin on
		currency and finance, ASI DATA, Foreign Trade
		Statistics, NSS Consumer survey
		CO20.1: This course is expected to orient students
Semester IV	CO20	towards research .
Semester IV	020	Understanding the nature of research and formulating the
SEC2T: Research		research topic
Methodology		research topic
		CO20.2: Approaches to research and research strategy
		CO20.3: Using Secondary data and Primary data
		CO20.4: To have an idea about Sample Selection
		Methods.

GENERIC ELECTIVE(GE)

		After studying this paper the students will be able to
Semester I		•CO21.1: Illustrate how microeconomic concepts can be applied to
		Analyze real-life situations.
GE1T: Introductory Microeconomics	CO21	CO21.2; Decipher the optimization techniques of the consumer and producer and cost pattern of the firms
		e ar t

	overnment of West Ber	ovt. General Degree College for Women, ngal, Affiliated to Vidyasagar University onomics - CBCS CO21.3; Realize the differences between competitive and imperfectly competitive market structures on the basis of pricing policies, features and assumptions.
Semester II GE2T: Introductory Macroeconomics	CO22	 CO22.1: To introduce to basic concepts of Macroeconomics and National Income Accounting. CO22.2: To study the functions of money and credit creation. CO22.3: To study the basics of inflation. CO22.4: To study the Closed Economy in the Short Run Classical and Keynesian systems.

COURSE OUTCOME (CO) ECONOMICS (GENERAL) (CBCS SYLLABUS)

Semester I		CO23.1:This course is designed to introduce students to the basic principles of Microeconomic theory. This course familiarizes the students about the concepts of
	CO23	consumer's and producer's behavior; the interaction between demand and supply; the
DSC1AT(CC-1): Microeconomics		Concept of utility and elasticity and the concepts of market. It helps the students to understand
		The real life situation by applying the all these theories.
		CO24.1:This course aims to introduce the broad conceptual frameworks of the
Semester II		macroeconomics which will enable students to learn and understand real economic phenomenon like GDP, National Income, inflation, money market, commodity market. After
	CO24	Completion of this course students will be able to critically evaluate various macroeconomics policies.
DSC1BT(CC-2): Macroeconomics		

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Sha	Government of West Ber	ovt. General Degree College for Women, ngal, Affiliated to Vidyasagar University
Semester III	Eco	onomics - CBCS CO25.1: This core course introduces students to the basics of development economics. It learns the Students about the meaning of economic development and growth. It introduces the students to the growth models-
DSC1CT(CC-3): Development	CO25	Harrods -Dammar model, Solow models etc., Development planning-balanced and unbalanced Growth theories. This course also gives overview of Poverty and inequality; Political
Economics		Institutions and the State; role of foreign investment on economic development.
Semester IV	CO26	CO26.1; It introduces the students with the structure of Indian economy-sectoral distribution, its occupational pattern, inequalities in income distribution, economic reforms and reduction in
DSC1DT(CC-4): Features of Indian Economy		poverty, different schemes undertaken by Govt. of India to reduce unemployment and
Leonomy		Underemployment. The course also gives overview of Agricultural sector, Industrial sector
		and Banking sector. It also learns the students about Indian Public Finance and Foreign trade
		in India in the post-Liberalization period

Discipline Specific Electives (DSE)

Semester V		
DSE1T Money & Banking:	CO27	CO27.1: This course gives the ideas about the different types of money ; basic concepts of money market and capital market and financial markets .It also focuses on the Banking system and non-Banking
		financial intermediaries. This actually helps the students to analyze the effects of monetary policy on the economy
Semester VI		CO28.1: Public economics is the branch of economics course that studies of government policy from the points of view of economic efficiency and equity.

Sh	Shahid Matangini Hazra Govt. General Degree College for Women, Government of West Bengal, Affiliated to Vidyasagar University Economics - CBCS		
		This course deals with Fiscal functions,	
DSE2T: Public Finance	CO28	Pareto efficiency, equity and social welfare; Public goods and its characteristics, exclusion	
		Principal; market failure and externalities. It teaches the students the Principles of Taxation	
		Which includes Ability and benefit approaches; Public debt-Internal and External debt. It also	
		introduces the students the current issues of Indian tax system, Fiscal Federalism in India and	
		State and Local Finance etc.	

Skill Enhancement Course(SEC)

Semester VI SEC4T: Entrepreneurship Development	CO29	 CO29.1: To understand the functions and characteristics of an entrepreneur. CO29.2: To understand the Problem of Rural entrepreneurship in India. CO29.3:To understand different theories and experiment (Motivation theories, Maslow's need Hierarchy Theory and Kakinada Experiment). CO29.4: Explain the Stages of growth, types of growth strategies etc.
		business



Programme Outcomes, Course Outcomes

Department of English

The CBCS course curriculum is highly interesting, benefitting and promising as the core course stimulates the students' intellectual dexterity, enhances their knowledge and skill and sharpens the power of observation in a dynamic way. The generic electives integrate various interdisciplinary courses to enable the students to learn about the recent emerging trends like race, class, gender, partition, post-nationalism etc to study literature. The course offers multidisciplinary subjects like soft skills, creative writing, film studies, translation literature which aim at developing the critical practices and fundamental skills required to pursue a course in English literature in this postmodern era of globalization. The Department of English in our college aspires to sharpen the analytic, expressive, and interpretative skills of the students. It welcomes the students to express their opinions and perceptions freely, boldly and confidently. The department of English promotes and propagates the essence of culture, values, tradition and modernity. This programme helps the learners understand literature from multiple viewpoints. The learners learn to interrogate with different types of problems in society and find out their solutions. The manifold objectives of this programme foster the intellectual, emotional and psychological maturity of the learners.

Course Outcomes:

B.A English Honours (Under Choice Based Credit System)

CC-1 : The students will be able to develop a comprehensive and thorough knowledge of English literature. Beginning with Beowulf, Cynewulf, the Anglo- Saxon elegies the course of CC 1 will enlighten the students with the unending gifts of the history of British literature. The students will be aware of the British poetry, drama, novel, short stories, and essays. The students will acquire a sound knowledge of Philology or the history of English language as well. **The students will be able to**

1.... apply their knowledge in diverse practical fields of life and foster the formation of a meaningful world with a holistic attitude to life.

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- 2. ... identify and recognize the fictitious characters in Chaucer's canvas with real persons in society.
- 3. ... examine the exceptional case of robust feminism in a fourteenth century woman i.e. the Wife of Bath. They will be able to compare and contrast the Wife of Bath with the postmodern feminists in today's world.
- 4. ... understand the bravehearted Beowulf and apply the lessons of a larger than life hero to their own life.
-examine, analyse and understand how various linguistic influences i.e. Latin influence, Greek influence, French influence and Scandinavian influence contribute to the shaping of an ever-growing English language.
- 6. ... know about the advent of Christianity and its influence on the English language
- 7. know about the Black Death from English social history and be able to compare it with the crisis caused by the pandemic in this century.
- 8. . . . know thoroughly the characteristics of various periods in the history of English literature. Shaw, Shakespeare, Marlowe, Bacon, Jonson, Keats, Wordsworth, T.S. Eliot, Galsworthy and many more luminaries and literary exponents are sure to captivate and enlighten the young minds.

CC-2 : The students will be aware of British poetry and drama from Renaissance to the seventeenth and the eighteenth centuries and its background. **The students will be able to.**.

- 1. ...understand Edmund Spenser's Sonnet LXXV "One Day I wrote Her Name". They will be able to apply the lesson in their own life. They will prepare themselves for blows and buffets of life. They will seek refuge in the power of creation .
- ...judge the Dark Lady in Shakespeare's sonnets. William Shakespeare's Sonnet 130 "My mistresses eyes are nothing like the sun. .." They will be able to differentiate between love and lust.
- 3. ... understand the power of love. They will be able solve the problems of their own life through the peace , bliss, happiness of love as promised in Donne's "Good Morrow".

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- 4. . . . develop their notions about good and evil. It will help them discard the Satanic spirit in themselves to be a better human being. It will strengthen their sense of ethics. Milton's *Paradise Lost Book 1* produce valuable, wise human beings in the society.
- 5. . . . understand that one must not quarrel over light, trivial things like cutting of a lock of hair from a woman's head. *The Rape of the Lock (3 Cantos)* of Pope will enable the readers to identify themselves with the silly behaviours of the fashionable, aristocratic society.
- 6. ...criticise the characters like Edward II, Isabella, Gaveston and Mortimer. Christopher Marlow's *Edward II* will make them familiar with the critical Aristotelian concepts like hamartia, tragedy etc. They will be able to recognize the faults of the king and therefore they can apply the lessons into their own life.
- ... understand the terrible results of overambition and greed in William Shakespeare's *Macbeth*. They will be able to judge Macbeth from their own points of view. They will be able to differentiate between Macbeth's overriding greed and Banquo's restraints.
- 8. . . . understand and evaluate the genres like poetry and drama through the literary terms. The terms are given here- Allegory, Ballad, Blank Verse, Heroic Couplet, Bathos, Comedy, Dramatic Monologue, Elegy, Image, Ode, Carpe-diem, Soliloquy, Symbol, tragedy, Catharsis, Hamartia, Three Unities, Anagnorisis, Antagonist, Chorus, Denouement, Comic relief, Aside, Anti-Hero, Catastrophe. The students will be able to apply them to appreciate and examine a good piece of writing.
- 9. ... acquire knowledge about Renaissance Humanism. They will be able to relate those lessons to their own life.
- 10. . . . come to know of the stage, court and city from the Renaissance to the seventeen and eighteenth centuries. They will be able to compare and contrast between the theatres of the past and those of the present i.e. the postmodern period of the recent times.
- 12. . . . evaluate the religious and political thoughts from the Renaissance to the seventeen and eighteenth centuries.
- CC 3: To give the idea of British literature of the 18th century. The students will be able to :
- 1. ... recognize the society depicted in *The Way of the World* of William Congreve. They will be able to criticise the hypocrisies, so-called values presented by Congreve.
- 2. . . . understand and examine Swift's *Gulliver's Travels* (Books III and IV) in the present context.
- appreciate the world of Sir Roger. The simple way of living as depicted in Addison and Steele's "Sir Roger at Church" will charm them.

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- 4. . . . understand the narrating style of Laurence Sterne's *The Life and Opinions of Tristram Shandy, Gentleman.*
- 5. . . . understand the Enlightenment and Neoclassicism, Restoration Comedy, novels and the periodical essays of the eighteenth century.

CC 4 : To give idea about British Romantic literature (1798-1832) and its background. The students will be able to :

- ... appreciate William Blake's "The Lamb", "The Tyger". They will be aware of the various powers in society through the lens of childhood. They will be familiar with the rich romantic poetry of the nineteenth century. The poets like Wordsworth, Keats, P.B. Shelley, P.B. Shelley, S.T. Coleridge will enthral him. Mary Shelley's *Frankenstein* and Jane Austen *Pride and Prejudice will make readers worldly wise*.
- 2. ...understand the concepts of the Gothic, the romantic lyric, literature and revolution, concepts of nature, reason and imagination.

CC 5 : To give an idea of the 19th century British literature (1832-1900) and its background. Learning outcomes are understanding of Alfred Tennyson's "Ulysses", Robert Browning's "My Last Duchess", "The Last Ride Together", Matthew Arnold's "Dover Beach", Charles Dickens's *Hard Times*. They will able to recognise and criticise utilitarianism, the concepts of marriage and sexuality of the Victorian period.

CC6:

The students will get an idea of the early 20th century literature and its background. The students will be enabled to know about W.B.Yeats's "The Second Coming" and "The Wild Swans at Coole", T.S.Eliot's "The Love Song of J. Alfred Prufrock", Joseph Conrad's *The Secret Sharer*, Katherine Mansfield's "The Fly". The theoretical threads of modernism and non-European cultures will help them assess culture, society and identity. The students will know about the women's movement in the early 20th century and they can appreciate psychoanalysis and the stream of consciousness technique, the technique of Avant Garde.

CC 7 : The students can learn about American literature and its background thoroughly. Learning outcomes are:

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- 1. ... knowing about Robert Frost's "The Road not Taken". They will be able to apply the lesson in their own life.
- 2. ...understanding and feeling of the world of Harlem in Langston Hughes's "Harlem to be Answered". They will sympathize with the sufferers.
- **3.** . . . understand Walt Whitman's "O Captain, My Captain", Edgar Allan Poe's "The Purloined Letter", Mark Twain's *The Adventures of Huckleberry Finn*, Tennessee Williams's *A Streetcar Named Desire*. They will be able realize the American Dream and social realism as a context for the American novel. They will be able to sympathize with Black Women's writings

CC 8 : To know European Classical literature and its background . Learning outcomes are

1. Understanding of Homer's *The Iliad*, Sophocles's *Oedious the King*, Plautus's *Pot of Gold*, Ovid's selections from *Metamorphoses* "Bacchus" (Book III), "Pyramus and Thisbe" and the epic, comedy and tragedy in classical drama, the Athenian city State, catharsis and mimesis, satire and literary cultures in Augustan Rome.

CC 9: The learners will know about modern European drama and its background. They will be wiser by reading Henrik Ibsen's *Ghosts*, Bertolt Brecht's *The Good Woman of Szechuan*, Samuel Beckett's *Waiting for Godot*. They will be able to criticise text and performance, European drama : Realism and beyond, tragedy and heroism in modern Euroan drama and the Theatre of the Absurd.

CC 10 : The learners will know about Lewis Carroll's *Through the Looking Glass*, Agatha Christie's *Th Murder of Roger Ackroy*, Shyam Selvadurai's *Funny Boy*. They will be able to appreciate nonsense literature like *Abol Taboll* translated by Sukanta Chowdhuri.. *They will* understand "coming of age"novel, the Canonical, the Popular literature, caste, gender, and identity children's literature and the graphic novel

CC 11: To know postcolonial literature and its background . Learning outcomes are:

- 1. Understanding of Pablo Neruda's "Tonight I can write", "The Way Spain Was"
- 2. Understanding of Derek Walcott's "A Fra Cry from Africa", "Names"
- 3. Understanding of Mamang Dai's "Small Towns and the River", "The Voice of the Mountain"

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- 4. Understanding of Chinua Achebe's Things Fall Apart
- 5. Understanding of Bessie Head's "The Collector of Treasures"
- 6. Understanding of Ama Ata Aidoo's "The Girl who can"
- 7. Understanding of the theories of decolonization, globalization, and literature
- 8. Understanding of literature and identity politics
- 9. To understand the writing for the New World Audience
- 10. knowledge of region, race, and gender
- 11. Understanding of postcolonial literatures and questions of form

CC 12 : To make studdents aware of women's writing and its background. Learning outcomes are:

- 1. Emily Dickinson's "I Cannot Live With You", "I'm Wife", "I've Finished that"
- 2. Understanding Sylvia Plath's "Daddy"
- 3. Understanding Eunice D Souza's "Advice t Women"
- 4. Understanding Mahasweta Devi's "Draupadi" translated by Gayatri Spivak Chakraborty
- 5. Understanding Toni Morrison's Beloved
- 6. Understanding Baby Kamble's Our Wretched Life
- 7. Understanding Rassundari Debi's Excerpts from Amar Jiban
- 8. Understanding the confessional mode in women's writing
- 9. Understanding the theory of sexual politics
- 10. Understanding race, caste and gender
- 11. Understanding social reform and Women's Rights.

CC 13: To make students aware of Indian classical literature and its background. Learning outcomes are the understanding of Kalidasa's *Abhijnana Shakuntalam* translated by Chandra Rajan,Vyasa's "The Dicing" and "The Sequel of Dicing", "The Book of the Assembly Hall", "The Temptation of Karma", Book V, "The Book of Effort", Sudraka's *Mrcchakatika* translated by Ramachandra Kale. They will be made familiar with the Epic tradition : themes and recensions, the classical Indian drama, theory and practice, Alankara and *rasa* and *dharma* and heroic

CC 14: To know Indian writing in English and its background. The students will be able to

- 1.appreciate the world R.K.Narayan,
-understand the postcolonial scenario of India through H.L.V. Derozio's "The Harp of India"
- **3.** . . . understand the perspectives of feminism, Third World Woman and Postcolonial woman through Kamala Das's "Introduction"
- **4.** . . . recognize themselves, identify themselves with any Indian woman through Nissim Ezekiel's "The Night of the Scorpions"
- 5. ...understand Mulk Raj Anand's "Two Lady Rams" and Rushdie's "The Free Radio" and Girish Karnad's *Tughlaq* under the various theoretical perspectives.
- **6.** ... understand and appreciate Indian English literature and its readership themes and contexts of the Indian English novel. They will be able to apply the aesthetics of Indian English poetry in their own creative endeavour.
- 11. . . . learn about modernism in Indian English literature

DSE 1: The readers will be able to know the nineteenth century European realism and its background. Learning outcomes are:

understanding of Fyodor Dostoyvesky's *Crime and Punishment*, Gustave Flaubert's *Madame Bovary, history, realism and the novel form, ethics and the novel, the novel and its readership in the* 19th century, politics and the Russian novel: Slavophiles and Westernizers.

DSE 2: The readers will be able to know World Literatures and their background . Learning outcomes are: Understanding of V.S. Naipaul's *Bend in the River*, Julio Cortazar's "Blow Up", Judith Wright's "Bora Ring", the idea of world literature, memory, displacement and diaspora, hybridity, race and culture, Adult reception and children's literature, literary translation and the circulation of literary texts

DSE 3: The readers will be able to understand of science fiction and detective literature and its background. They will be able to compare Collins's *The Woman in White*, Arthur Conan Doyle's *The Hound of the Baskervilles* with other detective novels written by different writers. They will be able to recognize the crimes across media, constructions of criminal identity, cultural stereotypes in crime fiction, crime fiction and cultural nostalgia, crime fiction and ethics, crime and censorship

DSE 4: The readers will be able to know about partition literature and its background. The students will be able to know Amitav Ghosh's *The Shadow Lines*, Dibyendu Palit's "Alam's Own House", Manik Bnadyopadhyay's "The Final Solution", Saddat Hasan Manto's "Toba

Tak Singh", Jibanananda Das's "I Shall Return to this Bengal", the concepts of Colonialism, nationalism, and the partition, communalism and violence, homelessness and exile, women in the partition.

SEC 1 (Skill Enhancement Courses): The students will be able to know about English language teaching. They will understand the learner, structures of English language, methods of teaching English and literature, materials of teaching English language and literature, materials of language teaching, assessing language skills, application of technology in language teaching

Or

SEC 1: The students will be able to know the soft skills. They will understand the nature of soft skills, teamwork, adaptability, leadership, problem solving, precis, comprehension, essays

SEC 2 (Creative Writing): The students will be able to know what creative writing is, the art and craft of creative writing, modes of creative writing, writing for the media, preparing for publication.

Generic Elective (GE 1): The students will know about academic writing and composition by learning writing process, conventions of academic writing, summarizing and paraphrasing, synthesis, analyses, evaluation, structuring an argument,. They will know about editing, book and media review.

GE2: The students will learn about media and communication skills or text and performance

GE 3: The students will learn about language and linguistics

Or, they will lean about contemporary India: Women and empowerment.

GE4: The students will know about gender and human rights

B.A. English General

DSC 1A(CC1): The students will have a thorough knowledge of William Shakespeare's "Sonnet 116), William Wordsworth's "A Slumber did my Spirit Seal", John Keats's "Bright Star", Wilfred Owen's "Strange Meeting", Charles Lamb's "Dream Children", H.E. Bates's "The Ox".

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DSC 1B(CC2): The students will have knowledge of George Orwell's "Shooting an Elephant", George Bernard Shaw's *Arms and the Man*, J.B. Pristley's *An Inspector Calls*, Ernest Hemingway's *The Old Man and the Sea*.

DSC 1C(CC3): The students will have knowledge of women empowerment in contemporary India, social construction of gender, masculinity, femininity, patriarchy, sex, gender, gender socialization, gender discrimination, gender stereotyping. They will have idea of Nibedita Menon's *Sexualities, Issues in a Contemporary Indian Feminisms (Selections), and Gender and Politics in India (selections). They will know about* women's movement in India through some specific texts, and theories, They will know about women and law, women and violence by going through both threories and texts.

DSE 1: The students will come to know about William's Shakespeare's *As You Like It*, Thomas Hardy's "Ah, Are you Digging on my Grave?", Robert Lynd's "On Not Being a Philosopher", OR, They will learn about Indian literature in translation through texts like Tagore's "The Wife's Letter", Vijay Tendulkar's *Silence the Court is on Session*, Mahasweta Devi's "Draupadi".

DSE 2: The students will have an idea about partition literature by reading texts like Saddat Hasan Manto's "Toba Tek Singh", Jibanananda Das's "I Shall Return to this Bengal". Or, They will have a knowledge of nation, culture in India by reading Amartya Sen's "Secularism and its Discontents" and Rabindranath Tagore's "Nationalism in India".

SEC 1: The students will come to know about soft skills, teamwork, emotional intelligence, adaptability, leadership, problem solving.

Or They will know about film studies by learning about silent film, talkie, colour film, digital are, 3D films.

SEC 2: The students will come to know about creative writing, The art and craft of creative writing, modes of creative writing, writing for the media.

SEC 3: The students will come to know about English language teaching. They will understand the learner, structures of English language, methods of teaching English language,

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assessing language skills, materials for language teaching, or application of technology in language teaching.

SEC 4: The students will come to know about business communication ,or spoken English .

Generic Elective (GE 1): The students will come to know about gender and human rights by reading Meena Kandasamy's "Aggression", Temsula Ao's "Laburnum for my Head", Virginia Woolf's "Professions for Women", *Women's Rights are Human Rights, a*nd The Human rights Frameworks in Practice

Or, They will come to know about Academic wiring and composition

GE 2: The students will come to know about Environment and literature,

Or, They will know about novel and prose by reading texts like Charles Dickens's *Oliver Twist*, R.K. Narayan's "A Library without Books", and Guy de Maupassant's "My Uncle Jules". Or, They will know about language and linguistics

AECC CORE 1: The students will know about Shakespeare's "Shall I compare thee to a Summer's Day", John Donne's "Batter My Heart", Milton's "On His Blindness", Pope's "Ode on Solitude" William Blake's "A Poison Tree", Wordsworth's "To the Skylark", Shelley's "To a Skylark", Keats's "Ode to Autumn", and rhetoric and prosody.

AECC Core 2: The students will learn about Alfred L. Tennyson's "Break, Break, Break", Robert Browning's "Porphyria's Lover", T.S. Eliot's "Preludes', W.B. Yeats's ""The Lake Isle of Innisfree".

AECC ELECTIVE ENGLISH: The students will know about communicative skills, speaking skills, reading skills, writing skills.

Programme Outcomes

The Course helps a deep and vivid understanding about English language & literature. Literature is mirror of life. So, one can realize the changes of the civilization through a lens of literature with historical perspective. The course level assessment is based on the results of Internal Examinations and Semester End Examination conducted by Vidyasagar University. Class attendance is also a factor of the evaluation system. The Prospects of the U.G programme in English Honours as follows—

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- Further studies in Vidyasagar University or any other reputed university.
- · Scope in print or digital media as well as book publishing & advertising industry.
- Eligible for School Service Commission examination and Public Service Commission exams conducted for recruitment of teacher in Primary, Secondary and Higher Secondary level.
- Scope for social service, engagement through academic skills as well as practical knowledge.
- · Scope for being freelancer
- · Scope for being editors of English newspapers.
- · Scope for being in the administrative and executive posts in WBCS or UPSC.
- · Scope for recruitment in the companies for content writing,

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SHAHID MATANGINI HAZRA GOVT. GENERAL DEGREE COLLEGE FOR WOMEN,

GOVERNMENT OF WEST BENGAL, AFFILIATED TO VIDYASAGAR UNIVERSITY

DEPARTMENT OF GEOGRAPHY

PROGRAMME OUTCOME (PO)

CBCS BACHELOR OF SCIENCE: HONOURS COURSE

РО	Summary	Description
PO1	Specialized knowledge of the Different Branches of the Discipline	The students can understand the vast extent of the subject. A holistic approach becomes clear to them. They get a total idea of the different and varied branches of the subject which helps them to extend their knowledge as well as to find a proper path of individual's interest and future prospects.
PO2	Enhancement of the skill in practical application of the theoretical concepts	Practical techniques are an integral part of the subject. After completion of the course students gain an extensive knowledge about the practical works specially laboratory based knowledge. Handling different instruments enhance their capability as an expert in the subject.
PO3	Develop Interdisciplinary Perspective	The programme incorporates interdisciplinary approaches which helps students to find out the significance of the subject and to relate the different concepts with a much wider perspective. The subject is very much interrelated to different concepts of Economics, Geology, Statistics, Biology, International Relationship, History and Philosophy.
PO4	Become an expert in Field work	The subject includes extensive field studies which helps students to have an idea about the actual scenario in the ground. They faced various problems during fieldwork and become experienced about the solutions which helps them in future. Their management skill enhanced.
PO5	Understanding the concepts like Gender Inequality, Ethical Values	The curriculum includes various issues related to gender, ethics, and human values. Develops the thought of gender discrimination, helps them to think about the ethical and moral values, understand the pros and cons while taking decisions which encourages them to build an ethical value based attitude in their life.
PO6	Development of Environmental Perspective	Students get an in depth knowledge about the environmental concepts, sustainability of resources. This helps them to think, analyze, and assess the reality and making decisions.
PO7	Research Writing skill Enhancement	Research is an experience which helps them in facing the problems and to find the solutions. Once they go through the process they become self-sufficient, disciplined. It helps them to enhance their skill and prepare them for future research work.

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PROGRAMME SPECIFIC	PROGRAMME SPECIFIC OUTCOMES (PSO)
OUTCOMES Nos.	
PSO1	To understand the basic concepts like evolution of landforms,
	time scale, basic tools of practical concepts
PSO2	To understand the diversities of the discipline. Introduction of
	basic instruments of survey, first hand on experience of field
	work
PSO3	Develop a basic knowledge of Statistical methods,
	understanding Indian Geography and climatology
PSO4	Introduction of Environmental concepts, laboratory works,
	Regional Planning and Development and conceptualization of
	the broader scope of the subject.
PSO5	A detailed study on Research Methodology and Field work. The
	most significant part of the total syllabus which prepares
	students for the individual research work for the next semester.
	introduction of Remote Sensing and GIS ,the modern techniques
	of the discipline
PS06	The final semester provides the scope for preparing individual
	dissertation along with disaster management and introduction
	of history and evolution of the subject.

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COURSE OUTCOME (CO)

GEOGRAPHY HONOURS

(CBCS SYLLABUS)

PAPER NAME	COURSE	COURSE OUTCOME
SEM 1 (Paper C1T)	CO1	Detailed description of formation of earth, different
GEOTECTONICS AND		theories, landforms specially focusses the physical part
GEOMORPHOLOGY		of the subject
SEM 1 (Paper C2T)	CO2	A very significant part of the syllabus. Introduction of
CARTOGRAPHIC TECHNIQUES		basic tools and techniques for mapping, idea of scale
		projection and all the other elements of mapping.
SEM 1 (Paper C2P)	CO3	The practical knowledge of the theoretical part of
CARTOGRAPHIC TECHNIQUES		Cartography, the map making science.
LAB		
SEM 2 (Paper C3T) HUMAN	CO4	Introduction of the another branch of the discipline,
GEOGRAPHY		Human Geography and the adaptation of human being
		with varying physical environment focusing different
		tribes, settlement pattern, formation of cultural
		regions etc.
SEM 2 (Paper C4T)	CO5	Provide detailed information about the diagrammatic
CARTOGRAMS AND		representation of different data, mathematical
THEMATIC MAPPING		calculations and concepts related to the discipline.
SEM 2 (Paper C4P)	CO6	It introduces the basic field instrument and its use.
CARTOGRAPHY LAB		Students work in the field with the instruments for
		mapping. Post survey mapping, preparation of
		different cartograms and thematic maps are done.
SEM 3 (Paper C5T)	CO7	This course introduces a detailed description of the
CLIMATOLOGY		different elements of climate
SEM 3 (Paper C6T)	CO8	It provides the theoretical concepts of the statistical
STATISTICAL METHODS IN		techniques used in the discipline.
GEOGRAPHY		
SEM 3 (Paper C6P)	CO9	It teaches the detailed practical problems,
STATISTICAL METHODS IN		calculations, drawing and application of all the
GEOGRAPHY LAB		statistical techniques used in the discipline.
SEM 3 (Paper C7T)	CO10	This paper introduces different physical, economic,
GEOGRAPHY OF INDIA		social characteristics of India with special reference to
		West Bengal.
SEM 3 (Paper SEC 1T)	CO11	It provides a full description about the coastal
COASTAL MANAGEMENT		processes, problems and management.
SEM 4 (Paper C8T) REGIONAL	CO12	This paper introduces the concept of planning,
PLANNING & DEVELOPMENT		development, related theories, and different policies
		of India for regional planning and development of
		backward areas.
SEM 4 (Paper C9T) ECONOMIC	CO13	It provides different concepts of economic
GEOGRAPHY		geography, theories, different economic activities
SEM 4 (Paper C10T)	CO14	The basic environmental concepts, issues are discussed
ENVIRONMENTAL		here. The nature of the subject, the holistic view are
GEOGRAPHY		explained

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SEM 4 (Paper C10P)	CO15	The EIA concept is introduced ,preparation of
ENVIRONMENT GEOGRAPHY		questionnaire for environmental survey, checklist
LAB		prepapration are given emphasized. Soil testing is
		included with using Soil Kit.
SEM 4 (Paper SEC2T)	CO16	Research methods are introduced in this paper as a
RESEARCH METHODS		skill enhancement paper.
SEM 5 (Paper C11T)	CO17	This paper includes a detailed discussion of Research
RESEARCH METHODOLOGY &		Methodolgy, its step, tools, techniques, methods etc.
FIELDWORK		It also discusses about the field work details and guide
		students to prepare them for a field based study
SEM 5 (Paper C11P)	CO18	Students are taken to field and they prepare a field
RESEARCH METHODOLOGY &	010	report based on an intensive field study including the
FIELDWORK		physical, social and economic features and problems
FIELDWORK		
SEME (Damar C12T) DEMOTE	CO19	of the study area.
SEM 5 (Paper C12T) REMOTE	019	This paper includes the basic concepts of Remote
SENSING & GIS		Sensing and GIS which includes the methods,
		techniques, types and uses.
SEM 5 (Paper C12P) REMOTE	CO20	It provides students the opportunity to do the hand on
SENSING & GIS LAB		training on Remote Sensing and GIS in a lab
SEM 5 (Paper DSE1T)	CO21	It provides information about how health issues are
GEOGRAPHY OF HEALTH &		related to geographical factors and how it varies from
WELL BEING		developed to developing regions.
SEM 5 (Paper DSE2T) SOCIAL	CO22	This paper is related to space in which human being
GEOGRAPHY		works, social space, social process of human
		interaction, groups and different social problems.
SEM 6 (Paper C13T)	CO23	It is the history of evolution of geographical thought
GEOGRAPHICAL THOUGHT		which helps to find out different concepts, ideas lies
		within the subject, different schools of thought
		focusing contribution of different scholars,
		philosophers from different parts of the world from
		ancient to modern and post modern period.
SEM 6 (Paper C14T) DISASTER	CO24	It is an extensive study on hazards and disasters,
MANAGEMENT		highlighting their causes, consequences and
		management.
SEM 6 (Paper C14P) DIASTER	CO25	In this paper, an individual project is prepared by the
MANAGEMENT BASED		students on any disaster mentioned in the syllabus
PROJECT WORK		with the help of primary and secondary data.
SEM 6 (Paper DSE3T) SOIL &	CO26	It provides basic concepts of soil and Bio geography
BIOGEOGRAPHY	020	with a detailed information on soil formation,
BIOGLOGIAFITI		processes, types in different parts of the world with
		different physical conditions and different ecosystems
		and their interaction.
SEM 6 (Paper DSE4T) URBAN	CO27	Urban geography is an important branch of Settlement
GEOGRAPHY		Geography. It includes basic concepts of urban
		geography, different urban processes, urban problems
		and pattern of urbanization in different parts of the
		world.

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Department of Geology

Programme outcome & Course Outcomes of Geology

Programme outcome (PO) in Geology (Honours)

Students will acquire a solid foundational knowledge of the entire science of geology regarding earth materials, earth history, petrology of the rocks, sedimentation and stratigraphy, deformation processes and structural features, and topographic processes and landforms. They will develop the skills to communicate complex geological concepts in clear, technically correct sentences. They will also develop the skills to verbally communicate complex geological concepts. They will also be able to use some software applications for research work such as CorelDraw, Matlab, Q-GIS, OpenRose, ImageJ etc. They will develop the skills and dispositions necessary to contribute to the democratization of society by obtaining and retaining employment as professional geologists.

РО	Description
PO1	Applying basic Geology Concepts
PO2	Developing fundamental understanding of the field
PO3	Ability of making use of Geological Problems
PO4	Developing skills in performing analysis and interpretation of data
PO5	Developing investigative Skills
PO6	Developing Technical and ICT skills
PO7	Developing skills in Mathematical modelling

Programme Specific Outcome (PSO):

PSO	Description
PSO1	Demonstrate a working knowledge of the terminology of geology with a comprehensive understanding of the earth's interior, surface, resources, climate, biosphere, and the different methods used to study them and as well as the optical and physical properties of minerals in hand specimens as well as under the microscope
PSO2	Receive training in geochemistry of earth and geological field techniques such as mapping and surveying required for collection, interpretation and application of the geological data.
PSO3	Develop the knowledge regarding the basic concepts of Igneous and sedimentary petrology. Understand the formation and preservation of fossils, identifications of invertebrate and plant fossils.
PSO4	Develop the knowledge regarding the basic concepts of stratigraphy in order to understand the Precambrian and Phanerozoic stratigraphy of India, along with an Understanding of metamorphic petrology.
PSO5	Receive training in hydrogeology, economic geology and fuel geology. Understand various types of ore-forming processes and their relationship with tectonism.
PSO6	Recognize the importance of remote sensing and geographic information system in data acquisition and interpretation of satellite images and aerial photographs. Be professional geologist through exposure to theory and field exploration techniques in earth sciences.

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Course outcome

On successful completion of the course, the student will be able to:

SEMESTER I

Course name	Course	Course outcome
Core 1: Earth System Science	CO1	 CO1.1 Explain about Solid Earth, Hydrosphere, Atmosphere and Biosphere. CO1.2 Describe the Earth's internal structure. CO1.3 Examine plate tectonics, volcanism, isostasy, earthquake. CO1.4Describe Oceanic current system and effect of Coriolis force. CO1.5 Discuss about Earth surface processes.
Core 2: Mineral Science	CO2	 CO1.5 Discuss about Earth surface processes. CO1.6Analyse the Distribution of elements in solar system and in Earth. CO2.1 Identify different types of crystals and their crystal system. CO2.2 Identify common rock-forming minerals in hand specimen and in thin section using diagnostic physical, optical, and chemical properties; Predict the formation environment of a silicate mineral; CO2.3 Describe the information that minerals can provide about Earth processes and Earth history; CO2.4 Apply the basic techniques of mineral characterization.

SEMESTER II

Course name	Course	Course outcome
Core 3:	CO3	CO3.1 Discuss the evolution of the early Earth from proto-planetary
Elements of		material and its differentiation to present day state;
Geochemistry		CO3.2 Describe the composition of the Earth's main geochemical reservoirs
		CO3.3 Explain element fractionation and how this can be used to understand geochemical processes.
		CO3.4 Apply radiogenic isotope signatures to trace the source of minerals,
		rocks and to date magmatic and metamorphic events.
Core 4:	CO4	CO4.1 Identify the basic structural elements of lithounits.
Structural		CO4.2 Describe the different types of ductile and brittle deformational
Geology		structures.
		CO4.3 Identify fold, faults, foliation and lineation in regional scale
		CO4.4 Examine shear zone and related features.

SEMESTER III

Course name	Course	Course outcome
Core 5:	CO5	CO5.1 Apply the concept of melt generation and crystallization
Igneous		mechanisms to common igneous rocks
petrology		CO5.2 Identify different igneous rocks and their common tectonic
		occurrences.
		CO5.3 State different magmatic differentiation process.
		CO5.4 Discuss the rock textures with the help of phase diagram.
		CO5.5 Identify different igneous body in field.

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Core 6: Sedimentary petrology	CO6	 CO6.1 Apply the concept of fluid flow, fluid- sediment interaction in describing the formation of bedforms at various scales in different flow regime conditions; CO6.2 Describe scales of sedimentary grain size measurement and statistical analysis of data to interpret provenance, transportation history or depositional environment; CO6.3 Describe texture and structure of clastic sedimentary rocks; CO6.4 Compute paleocurrent data from the orientation of sedimentary structures; CO6.5 Analyse the signatures in rocks to deduce the depositional setting of sedimentary rocks; CO6.6 Describe and interpret the diagenetic overprinting of chemical sedimentary rocks;
Core 7: Palaeontology	CO7	 CO7.1 Define fossils and fossilization processes. CO7.2 Identify the older life forms with their external and internal features. CO7.3 Apply the morphological modifications to deduce the ecology. CO7.4 Apply the concepts of principles of speciation and evolution.
SEC 1: Field geology1	CO8	 CO8.1 Arrange field visit and lead the group CO8.2 Use topographic sheets in field and mark location in topographic sheet using physical features and bearing. CO8.3 Use GPS in the field. CO8.4 Identify the rocks and geological structures (primary and deformational) in field. CO8.5 Collaborate and co-operate effectively to perform in group fieldwork as well as staying together in groups in hotels/lodges after returning from field.

SEMESTER IV

Course name	Course	Course outcome
Core 8: Metamorphic Petrology	CO9	 CO9.1 Identify the mineralogy, texture and microstructure of the metamorphic rock. CO9.2 Recognize the process of metamorphism and their different types. CO9.3 Identify the pressure temperature condition of the rock through geothermobarometry. CO9.4 Explain the tectonic evolution through nature of metamorphism and deformational process
Core 9: Principles of Stratigraphy and Precambrian Stratigraphy of India	CO10	CO10.1 Apply the basic principles of stratigraphy, concepts of stratigraphic units and nomenclature CO10.2 Describe the crustal evolution during the Precambrian in peninsular India and how the biosphere responded to the Precambrian-Cambrian boundary events.
Core 10: Phanerozoic Stratigraphy of India	CO11	CO11.1 Apply the concept of plate tectonic movements that separated India from contiguous landmasses and shaped the depositional basins of the Indian Phanerozoic, their effects on climate and life. CO11.2 Describe the stratigraphy and sedimentation in India – Asia

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		continental collision zone and Himalayan foreland basin.
SEC 2: Field geology2	CO12	 CO12.1 Plan field visit and lead the group CO12.2 Construct the geological map in a particular area. CO12.3 Correlate the stratigraphy of that area. CO12.4 Participatory management for group tasks.

SEMESTER V

Course name	Course	Course outcome
Core 11: Hydogeology	CO13	 CO13.1 Describe the occurrence of groundwater, water bearing properties of formations, aquifer types and aquifer parameters. CO13.2 Apply the concept of development of water wells, CO13.3 Estimate the aquifer parameter and to deduce the groundwater flow under different conditions. CO13.4 Describe the groundwater chemistry and its influence in the society CO13.5 Apply the concepts of groundwater exploration in an integrated way.
Core 12: Economic Geology	CO14	 CO14.1 Recognize ore minerals and their distribution in India. CO14.2 Describe different types of ore forming processes. CO14.3 Calculate the methods of ore estimation. CO14.4 Delineate the concept of grade, tenor of ore minerals.
DSE 1: Introduction to Geophysics	CO15	 CO15.1 Explain different kinds of geophysical methods of exploration. CO15.2 Apply those methods in exploration of different kinds of ore body. CO15.3 Recognize geophysical anomalies. CO15.4 Interpret those anomalies to identify the mineral deposits.
DSE 2: Fuel Geology	CO16	 CO16.1 Apply the fundamentals of coal and petroleum in identifying the coal and petroleum forming sedimentary environments, effect of tectonics and sea-level changes on coal and petroleum formation. CO16.2 Describe the basis of coal classification, concept of grade, type and rank in coal and analyse the techniques in coal and its importance in coal classification and their use for various industries. CO16.3 Describe the concept of underground coal gasification, clean coal technology, carbonization etc. coal as unconventional source of energy (CBM, Coal liquefaction) and its potential in Indian and environmental impact. CO16.4 Apply the concept of plate tectonics and supercontinent configuration in terms of coal deposits in India vis-a-vis rank, grade and their geological and geographical distribution and utilization. CO16.5 Use the concept of origin to accumulation in deducing the petroleum system

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SEMESTER VI

Course name	Course	Course outcome
Core 13:	CO17	CO17.1 Identify different geomorphological features related with different
Geomorphology,		surface processes and clarify the basic idea about remote sensing & GIS
Remote sensing		and their application.
& GIS		CO17.2 Identify the satellite imagery through data interpretation.
		CO17.3 Recognize the types of aerial photography, scale of resolution,
		principles of stereoscopy, digital image processing, etc and use GIS and GPS.
Core 14:	CO18	CO18.1 Explain different geological factors that controls engineering
Engineering		constructions.
Geology		CO18.2 Examine the basic concept behind foundation treatment, rock
		aggregate and support mechanism.
		CO18.3 Analyse the techniques of site investigations and compute
		different parameters of rock mechanics.
DSE 3:	CO19	CO19.1 Recognize the different kinds of exploration methods and apply
Exploration		those exploration methods in field.
Geology		CO19.2 Classify mineral deposits with respect to processes of formation and exploration strategies.
		CO19.3 Evaluate the sampling data - Mean, mode, median, standard
		deviation and variance and compute the methods of reserve estimation and
		its error.
DSE 4:	CO20	CO20.1 Define the concept of lithosphere and asthenosphere, physical
Geodynamics		character of lithosphere and asthenosphere and concept of plate.
		CO20.2 Apply the concept of palaeomagnetism and supercontinental cycle in plate tectonics.

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DEPARTMENT OF MATHEMATICS PROGRAMME OUTCOME (PO) CBCS BACHELOR OF SCIENCE

РО	Description
PO1	To prepare the students for a successful career in teaching or other professions as well as to motivate them for higher education and to take research as a career.
PO2	To provide strong foundation in basic sciences and mathematics.
PO3	To identify, formulate and analyze complex scientific problems reaching substantiated conclusions.
PO4	To develop individual and team work by functioning effectively as an individual or as a member in a group in computer laboratory classes.
PO5	To develop computational, logical and analyzing ability in solving different problems of Mathematics.
PO6	To develop communicating ability, prepare effective presentations, and give and receive clear instructions.
PO7	To develop the ability to engage in independent and life-long learning in the current context of technological change.
PO8	To inculcate scientific temperament in the young minds and outside thescientific community.



DEPARTMENT OF MATHEMATICS PROGRAMME SPECIFIC OUTCOME(PSO) CBCS BACHELOR OF SCIENCE

Programme Specific Outcomes Nos	Programme Specific Outcomes (PSO)
PSO1	To apply knowledge in emerging and varied areas of Mathematics forhigher studies, research and industries related to software applications.
PSO2	To develop leadership and managerial skills and understanding the need for lifelong learning to be a competent professional.
PSO3	To equip with front level communication technologies (ICT) for innovatingideas and solutions to existing/novel challenges.
PSO4	To be acquainted with good laboratory practices.

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COURSE OUTCOME (CO) BACHELOR OF SCIENCE - MATHEMATICS HONOURS (CBCS SYLLABUS)

COURSE CODE	COURSE	COURSE OUTCOME
and NAME	OUTCOME NAME	
SEM -I (Paper CC-	NAME CO1	
IT)	COI	This course deals with the applications of derivatives, integration
Calculus,		and analytical geometry. It also helps to improve he skill of
Geometry &		sketching curves.
Differential		
Equation		
SEM -I (CC-2 T)	CO2	This course deals with the basic knowledge of complex numbers,
Algebra		inequalities, theory of equation and set theory. It also helps to
		improve the knowledge of matrices and linear transformation.
SEM-II (CC3T)	CO3	Understanding the properties of real numbers, sequence of real
Real Analysis-I		numbers and infinite series are the main goals of this course.
SEM-II (CC4T)	CO4	Students can solve differential equations of second order and
Differential		systems of linear differential equations with the help of this course.
Equations & Vector		In addition, it provides the basic knowledge of vector algebra and power series solution of a differential equation.
Calculus.		power series solution of a differential equation.
SEM-III(CC5T)	CO5	Developing the concept of metric space, continuity of a function,
Theory of Real		differentiability of a function and the application of mean value
Functions&		theorem are the main goals of this course.
Introductionto		
Metric Space	CO6	This course helps to develop the basic concept on group
SEM-III(CC6T) Group Theory-I		Theory.
SEM-III(CC7T)	CO7	Students can solve the transcendental and polynomial equations,
SEWI-III(CC/I) Numerical Methods	01	system of linear algebraic equations, ordinary differential
r unier iear wiethous		equations with the help of numerical methods. Inaddition, this
		course helps to generate the ideas of numerical differentiation and
		integration.
SEM-III(SEC-I)	CO8	This course provides the basic concept of logic and sets.
Logic & Sets	COA	
SEM-IV(CC8T)	CO9	Generating the concept of Riemann Integration, Sequence of Functions, Fourier series and Power series are the ultimate aims of
Riemann Integration andSeries of		this course.
Functions		
SEM-IV(CC9T)	CO10	This course targets to encompass the portions of solving
Multivariate		double and triple integral and developing the concept of
Calculus		Multivariate Calculus.
SEM-IV(CC10T)	CO11	This course deals with the Ring, Field, Vector Spaces and
Ring Theory and		Linear Transformation.
Linear Algebra-I	CO12	This course helps to generate the idea of Graph Theory.
SEM-IV(SEC-II) Graph Theory	0012	This course nerps to generate the fuea of Oraph Theory.
	CO13	With the help of this course, students can solve partial differential
SEM-V(CC11T) Partial Differential	013	equations of first and second order specially heat equation, wave
Equations &		equation and Laplace equation with differential initial and
Applications		boundary conditions.
	I	

SEMUL (CC12T)	CO14	This second deals with the advenced language of second
SEMV-(CC12T)	CO14	This course deals with the advanced knowledge of group
Group Theory-II		Theory.
SEMV-(DSE-I)	CO15	Students can solve Linear Programming Problem specially
Linear		transportation problem and assignment problem by different
Programming		methods with the help of this course.
SEMV-(DSE-II)	CO16	Developing the deeper concept on probability and statistic are
Probability &		the ultimate aim of this course.
Statistics		
SEMVI-(CC13T)	CO17	This course enlightens the advanced knowledge of Metric
Metric Spaces and		Space and Complex Numbers.
Complex Analysis		
SEMVI-(CC14T)	CO18	This course covers with the advanced knowledge of ring
Ring Theory and		theory, dual space, linear operator and Inner product space.
Linear Algebra-II		
SEMVI-(DSE-III)	CO19	Developing the deeper concept on numbers specially prime
Number Theory		number is the aim of this course.
SEMVI-(DSE-IV)	CO20	This course provides the basic ideas of mathematical
Mathematics		modelling.
Modelling		

COURSE OUTCOME (CO) BACHELOR OF SCIENCE - MATHEMATICS (GENERAL) (CBCS SYLLABUS)

PAPER NAME	COURSE OUTCOME NAME	COURSE OUTCOME
SEM1 (DSC-1A) (CC-1) Differential Calculus	CO21	This course deals with the application of derivatives.
SEM2 (DSC-1B) (CC-2) Differential Equations	CO22	Students can learn to solve differential equations of second order andsystems of linear differential equations with the help of this course. In addition, It helps to generate the basic ideas of Partial Differential Equations.
SEM3 (DSC-1C) (CC-3) Real Analysis	CO23	Understanding the properties of real numbers, sequence of real numbers and infinite series are the main goals of this course.
SEM4 (DSC-1D) (CC-4) Algebra	CO24	This course helps to develop the basic concept on group theory, ring theory and fields.
SEM3 (SEC- I) Theory of Equation	CO25	This course deals with the theory of equations.

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SEM4 (SEC-II) IntegralCalculus SEM5 (SEC-III) Mathematical Modeling	CO26 CO27	Developing the idea of integration by partial fraction, reductionformula and the knowledge of application of integrations are the aims of this course. This course provides the basic ideas of mathematical modelling.
SEM6 (SEC-IV) Probability and Statistics SEM5 (DSE-1A) Vector Calculus andAnalytical Geometry	CO28 CO29	Developing the basic concept on numbers specially prime number is the aims of this course. This course deals with the analytical geometry in two or threedimension and algebra of vectors.
SEM6 (DSE-1B) NumericalMethods	CO30	Students can solve the transcendental and polynomial equations, ordinary differential equations with the help of numerical methods. In addition, this course helps to generate the idea of numerical differentiation and integration.

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PSO, PO, CO

Department of Physics

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Programme Specific Outcome of BSc Physics Programme

- **PSO1:** Understand and apply the principles of Classical mechanics, Quantum mechanics, Thermodynamics & Statistical Mechanics, Nuclear physics and Electrodynamics
- **PSO 2:** Understand and apply the principles of Solid state physics, Optics, Photonics and Spectroscopy, Nanomaterials.
- **PSO 3:** Understand the principles of Electronics, Design and test electronic circuits and their application in communication system.
- **PSO 4:** Understand and apply the principles of Mathematical Physics and Computational Physics and do Error analysis in measurements.

These program-specific outcomes aim to equip Physics Honors students with a strong foundation in theoretical and experimental physics, as well as critical thinking and research skills necessary for further studies or careers in academia, industry, or other scientific fields.

Programme Outcomes (PO)

- PO1: Demonstrate a comprehensive understanding of fundamental principles and theories in classical mechanics, Statistical Mechanics, electromagnetism, thermodynamics, quantum mechanics, and relativity, Nanomaterials, Electronics and communication.
- PO2: Design and conduct sophisticated experiments, utilizing a range of laboratory equipment and techniques, to investigate physical phenomena and validate theoretical models and effectively communicate the results through oral presentations and written reports.
- PO3: Demonstrate proficiency in using computer programming languages and numerical simulation tools to model physical systems and simulate experimental outcomes.
- PO4: Apply critical thinking and problem-solving skills to identify, analyse, and solve complex physics problems, both independently and collaboratively, using appropriate theoretical frameworks and experimental techniques.
- PO5: Develop a deep understanding of the interconnections between different branches of physics and their applications in other scientific disciplines and realworld contexts.
- PO 6: Demonstrate knowledge of current research trends and recent advancements in physics, and critically evaluate scientific literature to stay abreast of developments in the field

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- PO 7: Exhibit ethical conduct in scientific research, including responsible data handling, adherence to safety protocols, and consideration of the societal impact of physics research and technology.
- ✤ PO 8: Cultivate effective communication and teamwork skills by actively participating in group projects, discussions, and scientific presentations, and engaging with diverse perspectives within the field of physics.

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Courses Outcomes (COs)

		Semester-I
CC1	Mathematical Physics I	CO 1: Understand the concept of Calculus.CO 2: Develop the knowledge of vector.CO 2: Understand the Probability theory and apply it in physical problem.CO 3: Develop the concept of Curvilinear coordinate system.
CC2	Mechanics	CO 4: Develop the knowledge of Mechanics as an introductory course that explores the fundamental principles and applications of classical mechanics like, kinematics. CO 5: Understand the concept of Newton's laws of motion, forces, energy, momentum, rotational motion, and gravitation, special theory of relativity. CO 6: Determine the mathematical concept, laboratory experiments, and problem-solving exercises. Students will develop a solid understanding of the laws that govern the motion of objects and systems.
		Semester-II
CC3	Electricity and Magnetism	CO 7: Electricity and Magnetism is an introductory and a very important course that explores the fundamental principles and applications of electromagnetic phenomena. Through theoretical study, mathematical analysis, laboratory experiments, and problem-solving exercises, students will develop a strong mathematical and analytical skills, as well as experimental and problem-solving abilities in the context of electricity and magnetism. CO 8: Students gain an appropriate knowledge for the practical applications of electromagnetic principles in various scientific and engineering disciplines.
CC4	Waves and Optics	CO 9: Waves and Optics is a comprehensive course that explores the principles and applications of wave phenomena and optics. This course covers topics such as wave properties, wave propagation, interference, diffraction, polarization, and the behaviour of light. CO 10: Through theoretical study, mathematical analysis, laboratory experiments, and problem-solving exercises, students will develop a solid understanding of wave mechanics and optical phenomena.

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GE2	Thermal Physics and Statistical Mechanics	 CO 11: Thermal Physics and Statistical Mechanics is a special course that combines the principles of thermal physics with the concepts of statistical mechanics. This course covers topics such as laws of thermodynamics, kinetic theory of gases, heat transfer mechanisms, statistical distributions, and equilibrium statistical mechanics. CO 12: Through theoretical study, mathematical analysis, and problem-solving exercises, students will develop a comprehensive understanding of the behaviour of thermal systems at both macroscopic and microscopic levels.
		Semester-III
CC5	Mathematical Physics II	CO 13: Upon successful completion of this course, students will be equipped with a comprehensive understanding of various mathematical techniques commonly used in physics. Specifically, they will be able to learn and analyse Fourier Series, Understand the Frobenius method and its significance in solving differential equations with regular singular points, Grasp the concepts of Beta and Gamma Functions, Comprehend the principles of variational calculus and its role in solving optimization problems in physics.
CC6	Thermal Physics	CO 14: This course covers topics such as laws of thermodynamics, kinetic theory of gases, heat transfer mechanisms, and statistical mechanics. Through theoretical study, mathematical analysis, and problem-solving exercises, students will develop a deep understanding of thermal phenomena and their implications in various scientific and engineering disciplines.
CC7	Digital Systems and Applications	 CO 15: This course covers topics such as digital logic gates, Boolean algebra, combinational and sequential circuits, digital arithmetic, memory systems, and digital system design. CO 16: By the end of this course, students will have a solid understanding of digital systems and their applications. They will be able to design and analyse digital circuits using various techniques and tools. Students will also gain practical skills in digital system implementation and troubleshooting. They will develop problem-solving and critical thinking abilities in the context of digital systems and be prepared to apply their knowledge in various technological domains.
SEC 1	Electrical Circuits and Network Skills	 CO 17: This course covers topics such as circuit elements, Ohm's law, Kirchhoff's laws, network theorems, transient analysis, and frequency response. CO 18: Through theoretical study, problem-solving exercises, and hands-on experiments, students will develop a strong foundation in electrical circuits and acquire essential skills for circuit analysis and design.

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GE3	Solid State Physics	CO 19: This course covers topics such as crystal structures,		
GES		electronic band theory, lattice vibrations, electrical and thermal properties of solids, magnetism, and semiconductor physics. Through theoretical study, mathematical analysis, and laboratory experiments, students will develop a deep understanding of the behaviour of solids and their technological applications.		
	1	Semester-IV		
CC8	Mathematical Physics III	CO 20.1 : After completing this course, students will possess a strong foundation in advanced mathematics relevant to engineering. They will be able to employ complex analysis to understand and solve problems involving complex variables, utilize integral transforms to simplify the analysis of engineering systems, and effectively work with matrices and eigenvalues to model and solve various engineering scenarios. CO 20.2: will equip them with the necessary mathematical tools to address complex engineering challenges and excel in their respective fields of study and future careers.		
CC9	Elements of Modern Physics	CO 21.1: This course covers topics such as quantum mechanics, special relativity, atomic and nuclear physics, particle physics, and the basics of condensed matter physics. By the end of this course, students will have a solid foundation in the principles and applications of modern physics.		
		CO 21.2: Students will also gain an introductory understanding of condensed matter physics. They will develop problem-solving and analytical skills through theoretical study and laboratory experiments.		
CC10	Analog Systems and Applications	CO 22.1: Analog Systems and Applications is an in-depth course that focuses on the principles, design, and applications of analog electronic systems. This course covers topics such as analog signal processing, amplifiers, filters, analog-to-digital and digital-to-analog conversion, and practical circuit design techniques. CO 22.2: Through theoretical study, practical applications, and hands-on projects, students will develop a strong understanding of analog electronic systems and their diverse applications in various fields.		
SEC B	Renewable Energy & Energy Harvesting	CO 23: This course covers topics such as solar energy, wind energy, hydroelectric power, biomass energy, and emerging technologies for energy harvesting. Through theoretical study, practical applications, and case studies, students will develop a deep understanding of renewable energy systems, their advantages, limitations, and their role in sustainable energy production.		
GE4	Digital, Analog Circuits and Instrumentation	 CO 24.1: Students will have a solid understanding of digital and analog circuits, as well as instrumentation techniques. CO 24.2: They will be able to design, analyse, and troubleshoot electronic circuits, including both digital and analog components. Students will also gain practical skills through hands-on laboratory. 		
	Semester-V			
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	0	CO 24.1: Students will have a comprehensive
CC11	Quantum Mechanics and applications Solid State Physics	 CO 24.1: Students will have a comprehensive understanding of quantum mechanics principles and applications. They will be able to analyse quantum systems, quantum dynamics, and quantum measurements. Additionally, students will gain knowledge of quantum applications in various fields such as atomic physics, condensed matter physics, and quantum information. CO 24.2: Students will also get knowledge about practical skills through problem-solving, data analysis, and research projects, and be able to effectively communicate scientific ideas in the field of quantum mechanics. CO 25.1: In this course, students will have a
CC12		comprehensive understanding of solid state physics principles and applications. They will be able to analyse the electronic, magnetic, and optical properties of solid materials and understand the behaviour of electrons and lattice vibrations in crystalline structures. CO 25.2: Students will also gain practical skills through laboratory experiments and develop the ability to effectively communicate and present scientific ideas in the field of solid state physics.
DSE1	Advanced Mathematical Physics - I	CO 26.1: This is an advanced and a very useful course for students for future study. After this course Students will gain a strong foundation in tensor analysis and linear vector spaces, equipping them with essential mathematical tools to tackle complex problems in various scientific and engineering domains. They will be able to work with tensors, understand their geometric and physical interpretations, and use tensor calculus to solve real-world problems. CO 26.2: This course will prepare students for advanced studies and research in fields where tensor analysis is crucial, as well as enhance their analytical and problems.
DSE2	Nuclear and Particle Physics	CO 27.1 : By the end of this course, students will have the understanding of nuclear and particle physics principles and applications. They will be able to learn nuclear structure, radioactive decay, and nuclear reactions. Additionally, students will gain knowledge of elementary particles, their interactions, and the Standard Model of particle physics. CO 27.2 : They will also develop practical skills through data analysis and research projects and be able to effectively communicate scientific ideas in the field of nuclear and particle physics.
		Semester-VI
CC13	Electromagnetic Theory	CO 27.1: After completion of this course, students will have a solid understanding of electromagnetic theory and its applications. They will be able to analyse and solve problems related to electric and magnetic fields, electromagnetic waves, and Maxwell's equations. CO 27.2: Students will also gain practical skills in applying electromagnetic theory to real-world applications, such as antenna design, transmission

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CC14	Statistical	CO 28.1: Statistical mechanics is one of the most
CC14	Mechanics	important theoretical courses. By the end of this course,
	Wieenames	students will have a solid foundation in statistical
		mechanics and the ability describe the behaviour of
		physical systems at a microscopic level.
		CO 28.2: They will be equipped with the skills to apply
		statistical mechanics to a wide range of problems, both
		theoretical and experimental, and understand the underlying
		principles that govern the behaviour of matter.
DSE3	Communication	CO 29.1: This course will give a solid understanding of
	Electronics (Theory)	communication electronics principles and techniques.
		Students will be able to design, analyse, and evaluate
		electronic circuits and systems for communication
		applications. CO 29.2: Students will also have some advanced level
	OR	knowledge on analog and digital modulation techniques and some basic ideas of satellite communication and
		mobile telephony systems by the end of this course.
	Nano Materials and	Thoshe telephony systems by the end of this course.
	Applications	CO 30.1: This course will give a solid understanding of
	Applications	Nanoscale Systems, Synthesis of Nanostructure Materials,
		Different characteristic of nanomaterial specially optical
		property and electron transport.
		CO 30.2: Students will also gain knowledge about practical
		application of nanoparticles, quantum dots, nanowires and
		thin films for photonic devices (LED olar cells). They also
		able to Synthesis of metal nanoparticles by chemical route,
		Synthesis of semiconductor nanoparticles, Surface Plasmon
		study of metal nanoparticles by UV-Visible
		spectrophotometer, XRD pattern of nanomaterials and
		estimation of particle size.
DSE4	Digital Signal	CO 31.1: By the end of this course, students will have a solid understanding of digital gignal processing theory
	Processing	solid understanding of digital signal processing theory, techniques, and applications. They will be able to analyse
		and process digital signals using various transformation and
		filtering techniques.
		CO 33.2: Students will also gain practical experience
		through programming exercises and laboratory
		experiments, enabling them to apply DSP algorithms to
		real-world signals and effectively communicate their
		real-world signals and effectively communicate their findings.

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DEPARTMENT OF SANSKRIT PROGRAMME OUTCOME (PO) CBCS BACHELOR OF ARTS

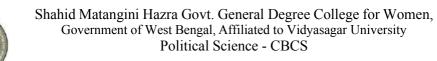
РО	Summary	Description
PO1	Sound Comprehension & Communication Skills	Sanskrit sound comprehension and communication skills provide a unique opportunity to explore the wisdom of ancient Indian civilization, improve linguistic abilities, and gain insights into the cultural and spiritual dimensions of one of the world's most ancient languages.
PO2	Develop Interdisciplinary Knowledge	Sanskrit is an ancient and classical language of India with a rich history dating back thousands of years. It holds immense significance in the fields of linguistics, literature, philosophy, religion, and culture. Its interdisciplinary nature makes it a valuable subject of study for scholars and researchers from various disciplines.
PO3	Socio-Cultural Applicability	Sanskrit, an ancient Indo-European language, holds immense socio-cultural applicability throughout history and across various societies. Its significance spans several domains, such as religion, philosophy, literature, art, science, and governance.
PO4	Ethical Values	Sanskrit, one of the oldest languages in the world, is not just a language but a repository of ancient wisdom and ethical values. Many sacred texts and philosophical treatises in India, such as the Vedas, Upanishads, Bhagavad Gita, and various epics like the Mahabharata and Ramayana, are written in Sanskrit. These texts contain profound insights into human behavior, morality, and ethical conduct.
PO5	Research & Life- longLearning	Sanskrit research involves the scholarly exploration of the language's grammar, syntax, phonetics, literature, and role in shaping ancient Indian culture and philosophy. Researchers delve into the origins and evolution of the language, its connections to other Indo-European languages, and its profound impact on various fields such as linguistics, anthropology, and philosophy.
PO6	Familiarity with Recent Developments	It's important to note that developments beyond my last update might include new scholarly discoveries, technological advancements in Sanskrit-related fields, and efforts to promote the language through digital resources and educational initiatives. To learn about more recent developments, I recommend consulting up-to-date sources or academic publications.
PO7	Environmental Awareness & Sustainability Description	The Vedas, the oldest sacred texts of Hinduism, contain hymns, rituals, and philosophical discussions that demonstrate a deep reverence for nature. Several verses in the Rigveda, for instance, praise the natural elements like Earth (Prithvi), Water (Apah), Fire (Agni), and Air (Vayu), acknowledging their essential roles in sustaining life.



Programme Specific Outcomes Nos	Programme Specific Outcomes (PSO)
PSO1	Know Sanskrit well and apply it at work. Being well established in society. To develop a distinct status or identity in society, politics, and culture.
PSO2	The more he studied Sanskrit, the more his knowledge, sense of right and wrong, and religious sense all began to increase.
PSO3	To develop skills in hard-core reasoning through deduction and inductive reasoning, learn to discover validity and understand the formal techniques of evaluative arguments.
PSO4	These questions naturally come to the minds of students: 'Who am I'? 'Where did I come from'? What do I do in this world? And how are we alive? etc.
PSO5	Students are deeply passionate about their subjects. And they apply their knowledge in various fields.
PSO6	Sanskrit graduates have diverse career options in academia, research, government services, UPSC and other fields.

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COURSE OUTCOME (CO) BACHELOR OF ARTS - SANSKRIT HONOURS(CBCS SYLLABUS)

PAPER NAME	COURSE	COURSE OUTCOME
SEM I (Paper CC- I T) Classical Sanskrit Literature (Poetry)	CO1	CO1.1: Full development of personality through literary knowledge.CO1.2: Efficiency in singing, reading, teaching, and composing verses by acquiring rhyme
SEM I (CC-2 T) Classical Sanskrit Literature (Prose)	CO2	CO2.1: Acquisition of moral, cultural, social, and practical values through knowledge of the literary world.CO2.2: Entry into the arts of literary criticism
SEM2 (CC3T) Critical Survey of Sanskrit Literature	СОЗ	CO3.1: Acquisition of the ability to carry out the journey of life in the modes of sacrificial devotion through knowledge of devotional poetry and devotional scriptures CO3.2: Discretion for comparative studies.
SEM2 (CC4T) Self Management in the Gita	CO4	CO4.1: To produce skilled teachers for the preservation of Indian culture.CO4.2 Production of practical skills through experimental programmers.
SEM3 (CC-5) Classical Sanskrit Literature (Drama)	CO5	CO5.1: Full development of the individual through knowledge of theatre literature CO5.2: Acquisition of proficiency in Indian arts through knowledge of theatrical literature.
SEM3 (CC-6) Poetics and literary Criticism	CO6	CO6.1: Efficiency in singing, reading, teaching and composing verses by acquiring the verse.CO6.2: Capacity in Indian arts through literary knowledge.
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SEM3 (CC-7) Indian Social Institutions and Polity SEM4 (CC-8) Indian Epigraphy, Paleography and Chronology	CO7 CO8	 CO7.1: Political knowledge and availability in ancient India. CO7.2: Increases people's political knowledge. CO8.1: Knowledge of Indian epigraphy. CO8.2: Ethical and professional conduct.
SEM4 (CC-9) Modern Sanskrit Literature	CO9	 CO8.2: Ethical and professional conduct. CO9.1 Analyzing literary texts improves vocabulary, grammar, and comprehension. CO9.2: Study 19th-century literature, familiar with literary movements and trends.
SEM4 (CC10) Sanskrit and World Literature	CO10	CO10.1: Familiarise yourself with Sanskrit texts, authors, and Vedas. CO10.2: The course will enhance students' research and writing abilities.
SEM5 (CC-11) Vedic Literature	C011	CO11.1: Familiarize oneself with text content, structure, and historical context.CO11.2: Critically evaluate Vedic literature interpretations and commentaries.
SEM5 (CC-12) Laghusidhanta Koumudi	CO12	CO12.1: "Laghusidhanta Koumudi" may be a specific term or course, not widely available. CO12.2: Provide context on the course, institution, and subject for assistance.
SEM6 (CC- 13) Ontology and Epistemology	CO13	 CO13:1: Explores reality, knowledge, mind-world relationships, truth, and external world nature. CO13:2: Study classical and contemporary philosophical traditions.
SEM6 (CC-14) Sanskrit Composition and Communication	CO14	CO14.1: Essential for accurate Sanskrit sentence composition, paragraph construction.CO14.2: Understanding context-specific meanings of words, phrases, and sentences.

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		ience - CBCS
SEM5 (DES-1) Art of Balanced Living	CO15	 CO15.1: Participants gain understanding of life balance, including work-life balance, well-being, relationships, and personal growth. CO15.2: Implement mindfulness, relaxation, time management, and self-care practices.
SEM5 (DSE-2) Theater and Dramaturgy in Sanskrit	CO16	CO16.1: Familiarize yourself with Sanskrit theater themes, plots, characters, and techniques. CO16.2: Explore Sanskrit theater plot development, characterization, dialogue, and stagecraft.
SEM6 (DSE3T) Sanskrit Linguistics	CO17	CO17.1: Students learn Sanskrit pronunciation, phonetic categories, and articulation points. CO17.2: Acquire proficiency in dictionaries and lexical resources.
SEM6 (DSE4T) Fundamentals of Ayurveda	CO18	CO18:1:StudentscomprehendAyurveda'sfundamentalprinciples,concepts,Panchamahabhutas,Tridosha, and Agni.CO18:2:ExploreAyurvedicunderstandingofNadis,subtleenergychannels.SubtleSubtleSubtle
SEM3 (SEC-1) Reading Skills in Brahmi Script	CO19	 CO19.1: They should expand their vocabulary in Brahmi script. CO19.2: They should gain knowledge of the Brahmi script's linguistic, historical, and cultural contexts so they may understand the significance of the written words.
SEM4 (SEC2T) Evolution of IndianScript	CO20	 CO20.1: Identify script features and explain their significance in Indian languages. CO20.2: Understand the connection between scripts, languages, and cultural identities, preserving knowledge.
SEM1 (GE-IT) Basic Sanskrit (Grammar)	CO21	CO21.1: Personality development through indepth classical knowledge.CO21.2: Success in physical life by developing perception

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SEM2 (GE-2T) Sanskrit And other Modern Indian Languages	CO22	CO22.1: Creating worlds with human qualities. CO22.2: To protect the environment and establish peace through value-based education
SEM3 (GE-3T) Fundamentals of Indian Philosophy	CO23	CO23.1: Knowledge of the major schools of Indian philosophy. CO23.2: Understanding philosophical concepts.
SEM4 (GE-4T) Basic Principal of Indian Medicine System (Ayurveda)	CO24	CO24.1: Tridosha (three doshas) and the concept of Prakriti (individual constitution).CO24.2: Practical application of Ayurvedic principles.

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COURSE OUTCOME (CO) BACHELOR OF ARTS - SANSKRIT (GENERAL)(CBCS SYLLABUS)

PAPER NAME	COURSE	COURSE OUTCOME
SEM1 (DSC-1A) (CC-1)	CO25	CO25.1: Ability to insert characters and phrases appropriately.
Sanskrit Poetry		CO25.2 : Moral character through proper access to other scriptures (poetry, etc.)
SEM2 (DSC-1B) (CC-2)	CO26	CO26.1: Chahvans of the upcoming contemporary with advanced Sanskrit knowledge.
Sanskrit Prose		CO26.2: Providing traditional knowledge of Sanskrit education.
SEM3 (DSC-1C) (CC-3)	CO27	CO27.1: Knowledge of Sanskrit Dramatic Literature.
Sanskrit Drama		CO27 .2: Analysis of Themes and Motifs.
SEM4 (DSC-1DT) (CC-4)	CO28	CO28.1: Learn Sanskrit phonetics, pronunciation rules, sounds and accents.
Sanskrit Grammar		CO28.2: learn to write simple Sanskrit sentences, paragraphs, essays using grammar rules.
SEM3 (SEC-1)	CO29	CO29.1: Knowledge of Architectural History.
Indian Architeeture System		CO29.2: Appreciation of Cultural and Religious Significance
SEM4 (SEC-2)	CO30	CO30.1: Participants should gain a foundational understanding of the principles
Basic Elements of Ayurveda		and philosophy that underpin Ayurveda.
		CO30.2: This may include examination of the pulse, observation of physical characteristics, analysis of the tongue, and assessing the balance of the dishes.



	CO31.1: Learn to identify planets, zodiac
CO31	signs, houses, and aspects in birth charts.
	CO31.2: Explore gemstones, rituals, mantras for promoting positive energy.
CO32	CO32.1: Learn to effectively convey emotions, portray characters, and engage with the audience.
	CO32.2: Explore Indian theatre's history, aesthetics, and cultural significance.
CO33	CO33.1: Understand Sanskrit philosophical, religious, and cultural concepts like Vedanta, Yoga, Nyaya, Vaisheshika, and Mimamsa.
	CO33.2: Sanskrit literature, including ancient texts, continues to inspire contemporary Indian literature.
CO34	CO34.1: Learn to analyze literature elements, form informed opinions, and understand their significance.
	CO34.2: Understand and apply key theories in literary analysis.
CO35	CO35.1: understand Sanskrit political texts like Arthashastra, and Manusmriti.
	CO35.2: Explore dharma, karma, varna, ashrama's relevance to political governance.
CO36	CO36.1: Acquiring knowledge of sounds, pronunciation, accents, and intonation patterns.
	CO36.2: Acquire Sanskrit sentence analysis and construction skills.
	CO32 CO33 CO34

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DEPARTMENT OF PHILOSOPHY PROGRAMME OUTCOME (PO) CBCS BACHELOR OF ARTS

РО	Summary	Description
PO1	Specialized Knowledge of the Discipline	After the completion of this course a comprehensive knowledge of different philosophical thought can be achieved. Students will get the idea of different world views and different conceptual framework.
PO2	Analytical and Critical Thinking in Problem Solving	This course will develop the power of analytical reasoning. Students can critically analyse any complex problem and try to solve them by examining in simplest terms.
PO3	Abstract Thinking	Philosophy is a discipline which mostly deals with abstract concepts. This course encourages students to think the real significance beyond this given material world and explore various basic concepts of life which we usually presuppose without raising any questions.
PO4	Logical Reasoning	The programme develops logical reasoning skill amongst students. They will be able to identify any illogical process hidden in an argument in any arena of theoretical practise and like a true technician, could be able repair the fault by providing the exact logical explanation.
PO5	Ethical Perspective	Ethics is one of the most important parts of Philosophy. This course will help the students to understand the ethical and moral implications and to learn applying them in all the spheres of life either academic or non-academic. This programme instils among the students the greater values of life to become a worthy citizen of the country.
PO6	Environmental Awareness	This programme includes much discussed environmental issues which will make students aware of the importance of environment as well as they will come to know that environment should be incorporated within the ethical sphere.
PO7	Interdisciplinary Approach	The programme encourages students to find the intellectual connections that exists with other discipline. Enriching and stimulating exchange of ideas that students typically experience when they cross their discipline specific boundaries indicates that there is something more to interdisciplinary studies than a simple combination of fields of study. It is this 'something more' that is hoped to be captured in this programme.

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DEPARTMENT OF PHILOSOPHY PROGRAMME SPECIFIC OUTCOMES (PSO) CBCS BACHELOR OF ARTS

Programme	Programme Specific Outcomes (PSO)
Specific	
Outcomes Nos	
PSO-1	• Students can develop a holistic understanding of spiritual outlook and argumentative skills while learning different theories and their criticisms within the field of metaphysics, epistemology and Ethics of classical Indian Philosophy and contemporary Indian Philosophy as well.
PSO-2	• Students can acquire critical thinking and argumentative skills while learning different theories and their criticisms within the field of metaphysics, epistemology and Analytical Philosophy, Philosophy of Language and all others aspect of Western Philosophy.
	• Students will be familiar with both Indian and Western philosophical theories and so will be able to make a comparative study of these two kinds of theory.
PSO-3	• Students will gain logical thinking ability and argumentative skills for the learning of different theories of deductive and Inductive logic.
	• Students will acquire critical ability; will be able to construct cogent argument in both speech and writing as a result of learning logic.
PSO-4	• Students will acquire socio-ethical, socio-Political thinking ability and argumentative skills for the learning of different theories of Ethics, Philosophy of religion, social and political philosophy.
PSO-5	• Students will attain skills to understand the nature of human mind; they will develop knowledge about learning skills and personality traits of mind as well as levels of consciousness.

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DEPARTMENT OF PHILOSOPHY PROGRAMME SPECIFIC OUTCOMES (PSO) CBCS BACHELOR OF ARTS

Paper Name	Course	Course Outcome
Sem-1 : (Paper CC-1T) Indian Philosophy-I	CO1	Students will gain detailed knowledge about meaning and approach of Indian Philosophy, nature and characteristic of Indian Philosophy, the history of it and the main difference between the various schools of Indian Philosophy - Astika & Nastika darshana. They will develop an understanding of various theories and beliefs of Carvaka, Bouddha, Jaina, Nyaya and Vaisesika schools with critical understanding from both epistemological and metaphysical perspectives.
Sem -1 : (Paper CC-2T) History of Western Philosophy-I	CO2	This syllabus will help the students to be acquainted with the historical development of western philosophical thought. They will become aware of the theories of Knowledge and that of metaphysics of Plato and Aristotle. Students will have critical understanding of the doctrines of some well-known western philosophers, like that of Thomas Aquinas (a famous philosopher of the Medieval period) and that of Descartes, Spinoza, Leibnitz the pioneers of Modern Rationalist school.
Sem-1 : (Paper GE-1) Logic	CO3	Students will develop the detailed knowledge about basic terms of Logic like propositions, sentences, arguments, truth, validity etc. They will come to know of quality, quantity and distribution of terms of Categorical Propositions. differences between Deductive and Inductive Logic, various methods of mediate and immediate inferences, Existential Import of categorical propositions and also with rules and fallacies of Categorical Syllogism, test validity of deductive arguments by Venn Diagrams, some concepts of Inductive Logic like Nature of Induction, 'Meaning of Cause', 'Mill's Inductive Methods'.
Sem-2 : (Paper CC-3T) : Outlines of Indian Philosophy-II	CO4	Students will develop critical assessment of the theories of <i>Astika</i> Indian philosophers like Samkhya, Yoga, Mimamsa and the schools of Vedanta, their key concepts, beliefs, arguments and doctrines from both the standpoints of great Vaidantiks like Sankara and Ramanuja.
Sem-2 : (Paper CC-4T) : History of Western Philosophy-II	CO5	This part of the syllabus gives a brief idea about the British Empiricist school of modern philosophical era through the philosophies of Locke, Berkeley, Hume; their beliefs and doctrines regarding Knowledge, God and World and the ethical views. They will also develop the idea of Kant's philosophical thought. Students will be enriched with the complete understanding of the similarities and the differences between Rationalism and Empiricism in Modern Western Philosophy.
Sem-3 : (Paper CC-5T) : Philosophy of Mind	CO6	Students will acquire comprehensive knowledge regarding philosophy of mind, different psychological concepts and doctrines of the eminent psychological thinkers like Freud, Thorndike, Skinner etc. and will be benefitted to apply their knowledge in critical thinking of everyday life. They will gain an insight into the theories of Learning and

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		theories regarding relation between mind and body.
Sem-3 : (Paper CC-6T) : Social and Political Philosophy	CO7	Students will develop the idea regarding the nature and scope of both Social and Political philosophy and will also absorb the relation between Social and Political philosophy, different socio–political terms like, society, community, Association, Institutions, Civilisation and culture, social class and caste, social change, Marxist view of Class, Democracy, socialism etc and the doctrines of eminent thinkers like Marx, Gandhi etc. which can apply their philosophical knowledge in socio–political affairs in future.
Sem-3 : (Paper CC-7T) Philosophy of Religion	CO8	With the help of this course students will develop their ability to explain and analyze the main issues, concepts, religious terms and arguments of philosophy of religion, and know different doctrines in both western as well as Indian philosophical perspectives. They come to comprehend the view of different religious thinkers like St. Anselm, Aquinas in the of Europe and Mohammad, Buddha, Mahavira in Asia. Students will develop an understanding about the possibility of Universal Religion and also about the peculiarity of religious language.
Sem-3 : (Paper - SEC-1T) : Philosophy of Human Rights	CO9	The aim of this part of the syllabus is to make students aware about the definition, idea and nature of Human Rights, its origins and historical developments through ancient, modern and contemporary period. It will enable students to distinguish between the idea of natural law and natural rights. They will understand the significance of the natural rights and fundamental right.
Sem-3 : (Paper - GE-3) : Nyaya theories of Inference	CO10	Students will be aware of the difference between <i>anumiti</i> and <i>anumana</i> . Signifance of <i>anumana</i> in practical life. Basic ideas of <i>nyaya</i> syllogism or <i>nyaya</i> logic which contains five propositions, called its <i>avayavas</i> or members. These are <i>pratijna</i> , <i>hetu</i> , <i>udaharana</i> , <i>upanaya</i> , and <i>nigamana</i> .
Sem-4 : (Paper : CC-8T) : Western Logic-I	CO11	Students will be oriented with basic terms of Logic like propositions, sentences, arguments, truth, validity etc. They will come to know of quality, quantity and distribution of terms of Categorical Propositions, various methods of mediate and immediate inferences, existential import of categorical propositions and also with rules and fallacies of Categorical syllogism, Venn diagrams and critical assessment of some concepts of Inductive Logic like 'Meaning of Cause', 'Science and Hypothesis' as well as 'Mill's Inductive Methods', and they will also develop the skill to practice Probability Calculus.
Sem-4 : (Paper - CC-9T) : Western Logic-II	C012	The students will develop the basic concepts of Symbolic Logic in this part of the syllabus. Students will be equipped with the concept and value of various logical symbols and truth functions like conjunction, disjunction, negation, material implication and material equivalence and Stroke / dagger functions. They will comprehend the distinction between argument and argument forms, statement and statement forms. They will be able to test the validity and invalidity of arguments through different decisional procedures like Truth table, Method of Resolution; and Proof procedures like Formal Proof of Validity and method of assigning truth value. Students will also be oriented with the need for Quantificational

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		Theory. They will be able to understand the concept of individual variable, propositional function, predicate variable etc. They will also be able to test Validity / invalidity of arguments with Quantificational logic.
Sem-4 : (Paper - CC-10T) : Epistemology and Metaphysics (Western)	C013	This paper focuses on the basic concepts of knowledge and truth. Students may explore important philosophical theories such as realism, idealism, phenomenology, the concepts of cause etc. It will help to build a strong knowledge base of philosophical inquiry and criticism. Students can recognize and solve problematic issues of epistemology and they will also develop an understanding of various philosophical or theories that are common to the Western world.
Sem-4 : (Paper - SEC-2T) : Man and Environment	CO14	This part of the syllabus contains a much contemporary issue in the arena of Philosophy which includes the discussions about the relation between man and environment. Students will come to know that the environmental issues should be included in the discussion into the moral domain. This philosophical approach indicates the human, non-human dichotomy in nature, the inter dependence of humans and the environment. Most importantly they will be able to critically think about the intrinsic and extrinsic value of nature.
Sem-4 : (Paper - GE-4T) : Termination of Life and Ethics	CO15	There is much common ground based on the application of the four major principles of medical ethics: nonmaleficence, beneficence, autonomy, and justice. The goal of end-of-life care for elderly people is to improve their quality of life, helping them cope with illness, disability, death, and an honorable death process.
Sem-5 : (Paper - CC-11T) : Indian Logic & Epistemology-I	CO16	Students will be familiar with the logic & epistemology of Nyaya school of thougt through the classical text - <i>Tarkasamgraha</i> , written by <i>Navya Naiyayika Acharya</i> <i>Annambhatta</i> . They will understand the typical Indian approach of a philosophical discussion through this text. So long, students acquired a general idea of different schools of thought. But in this paper, they will develop the detailed understanding about the approach of a typical school through this special text. They will be equipped with the idea of the <i>laksana</i> (definition) and classification of typical Indian philosophical terms <i>paribhashika shabdas</i> & concepts like <i>Buddhi</i> , <i>Smriti</i> , <i>Prama</i> , <i>Aprama</i> , <i>Karana</i> (general causal condition), <i>Karana</i> (special causal condition), <i>Karya</i> , <i>Anyathasiddhi</i> etc. They will also develop the detailed knowledge about <i>Pratyaksha pramana</i> , <i>Sannikarsa</i> , classification of <i>Pratyaksha</i> , the unnecessary admittance of <i>Anupalabdhi</i> etc. from Nyaya-Vaisesika point of view.
Sem-5 : (Paper CC-12T : Ethics (Indian)	CO17	The target of this part of the syllabus is to develop the idea of moral discussion in traditional Indian context. Students will develop an understanding of classical Indian ethical view from the ancient text Gita, which includes the concept of <i>karmavada, purusarthas</i> , the <i>lakshana</i> of <i>sthitaprajna</i> . They will be equipped with the Indian concept of wrina, writa, and the classification of dharmas and the difference between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> . This paper does not concentrate only in the Hindu notion of ethics, but also between <i>vidhi</i> and <i>nisheda</i> .

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		syllabus will build the ability to distinguish between different kinds of karmas involving <i>himsa</i> and <i>ahimsa</i> .
Sem-5 : (Paper DSE-1T) Philosophy of Language (Indian)	CO18	This syllabus incorporates the linguistic approach of Indian Philosophy. <i>Annambhatta</i> has arranged the topics under discussion in the classical text <i>Tarkasamgraha</i> from the Nyaya point of view. He introduces the basic concepts relating to verbal testimony.
Sem-5 : (Paper : DSE-2T) : Philosophy of Language (Western)	CO19	Students will be acquainted with the analytical philosophical thought and linguistic analysis. It is an important stream of history of western philosophy. They will be able to distinguish between semantic and syntactical concepts of a language. Vagueness and ambiguity are two core concepts of philosophy of language and students will come to understand that, on this aspect, analytic philosophers differ from the traditional view of linguistic. They will understand the basic concepts of languages like, word, meaning, sentence etc. They will also learn, what should be the criterion of the truth value of a sentence meaning.
Sem-6 : (Paper CC-13T) : Indian Logic & Epistemology-II	CO20	Students will be familiar with Indian logic & epistemology through the classical Indian text - Tarkasamgraha, written by Navya Naiyayika Acharya Annambhatta. They will accumulate a detailed understanding about anumana, anumiti, vyapti, paramarsha, classification of anumiti, linga (hetu) and its classification, marks of sat-hetu, hetvabhasa and its classification, concept of paksata with sapaksa & vipaksa etc., the definition and classification of upamana pramana, the definition of sakti-vrtti, saktigraha, laksana-vrtti, varieties of laksana, vyanjana-vrtti, varieties of vyanjana, akanksa, yogyata, sannidhi, tatparya, concept of yoga-rudhi, two kinds of statements distinguished -vaidika & laukika etc. and also arthapatti and pramanyavada (svatah & paratah) from Nyaya- Vaisesika point of view.
Sem-6 : (Paper CC-14T) : Ethics (Western)	CO21	Students will acquire knowledge about Western Ethics and will develop critical insight on different western ethical theories consists of Classification of Ethics into Prescriptive, Meta Ethics and Applied Ethics. Western Ethics also discusses about object of moral judgement and also about the Moral Theories of Plato and Aristotle. This Ethics also consists of Standards of Morality like Hedonism, Deontological Ethics and also of Theories of Punishment.
Sem-6 : (Paper DSE-3T) : Text : The Problems of Philosophy by Bertrand Russel	CO22	In this section students get chance to be familiar with the thoughts of Bertrand Russell, one of the greatest thinkers of twentieth century, about basic issues and problems of Philosophy.
Sem-6 : (Paper DSE-4T) : Philosophy of M. K. Gandhi	CO23	Discusses the concepts of truth, non-violence, Sarvodaya and Satyagraha and their significance constitute Gandhian philosophy and are the four pillars of Gandhian thought.

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Shahid Matangini Hazra Government General Degree College for Women Department of Bengali

Programme Outcome (PO) BA (Honours) in Bengali (CBCS)

РО	Summary	Description
PO1	Disciplinary Knowledge	After completing the course, Students will gain specialization and in-depth knowledge in Bengali language and literature.
PO2	Communication Skill	Students will be capable of expressing their thought and idea in written form or orally. They will be confident to share own views in a clear and concise manner.
PO3	Critical Thinking	Students will be in a position to apply analytical thought and critically evaluate policies and practices.
PO4	Problem Solving	One May apply their competencies to solve different problems in real life.
PO5	Moral and Ethical Awareness	Students may identify ethical issue of society as well as individual. They will be free to act accordingly moral standpoint for self or collective. They will be able to establish themselves unbiased and truthful.
PO 6	Multi-Cultural Competence	Literature is mirror of life. Therefore, after completing the course, students will be capable to understand different types of living and belief system. They will reveal multicultural Identity of our society and they should respect all diversity.
PO7	Research Related Skills	A sense of inquiry and capability for

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PO8	Cooperation/ Team Work	 asking appropriate questions may lead to theoretical base. Interpretation, Analysis and establishment of hypothesis may open a new dimension. Every single student will learn to perform their duty as a member of a team. Common interest and work will make them together.
PO9	Environment and sustainability	Understand the issues of environmental contexts and do the needful for the society.
PO10	Self-Directed and lifelong Learning	One may able to work independently. Students can participate in lifelong learning activities.

Programme Specific Outcomes Nos	Programme Specific Outcome (PSO)		
PSO1	On successful completion of the course, students will be able to develop understanding of Bengali Language and Literature.		
PSO2	Acquaint with some basic concepts of literary criticism.		
PSO3	To familiarize different Dialects and culture of Bengal.		
PSO4	Students will be able to understand in both the artistry and utility of the Bengali Language.		
PSO5	Utilize Writing Skills and intellectual consciousness for the society.		
PSC6	The logical Skills, Liberal mindset, meaningful arguments will be better than before.		
PSO7	Students can get various Job opportunity in Govt. and Private Sector. They will be able to join in research field.		

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Course Outcome B.A (Honours) in Bengali (Choice Based Credit System)

Semester- I

Year	Course Type	Course Title	Credit	Course Outcome
Ι	Core-1	CT1 : বাংলা ভাষার উদ্ভব ও পরিচয়	6	To make students aware of origin & development of Bengali Language, knowledge in historical context and understanding of Bengali dialects.
	Core-2	CT2: বাংলা সাহিত্যের ইতিহাস (প্রাচীন ও মধ্যযুগ)	6	Discussion of history of Bengali Literature. Basic literary trends in Early and Medieval Bengali Literature. A conception about the relation of society and art.
	GE-1	GE-2T : বাংলা ভাষার বিভিন্ন স্তর ও ভাষাচর্চা	6	To make students in depth knowledge in linguistics. Conception about dialects as well as how sound changes, meaning differs. An idea about Bengali Vocabulary.

Semester-II

Year	Course Type	Course Title	Credit	Course Outcome
Ι	Core-3	CT 3 : প্রাচীন ও মধ্যযুগের পদপাঠ	6	To give the idea of Early and Medieval Bengali literature through collection of texts. To develop a concept of literature and society-
				reflection and reaction.
	Core-2	CT4: চৈতন্য জীবনী ও মঙ্গল সাহিত্যপাঠ	6	Selected part of Chaitanya Bhagavata, Chandimangala and Annadamangala give the idea regarding medieval literary tradition. Students can know the social, political and economic history of that time.
	GE-2	GE-2T : কাব্য সাহিত্যের ধারা ও বৈষ্ণব পদাবলী পাঠ	6	An idea about ancient and medieval Bengali Literature. Knowledge about main features of modern Bengali Poet.

Semester-III

Year Course Credit Course Outcome				
	Var Com	raa Titla Cradi	t Course Out	

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	Туре			
	Core-5	CT 5 : উনিশ-বিশ শতকের প্রবন্ধ ও কাব্য- সাহিত্যের ইতিহাস এবং আখ্যান সাহিত্য পাঠ	6	Conception about the detailed history of Poetry & Prose in the 19 th & 20 th Century of Bengal. Getting to know different literary personality.
	Core-6	CT6: ছন্দ-অলংকার ও নির্বাচিত কবিতা পার্ঠ	6	Basic knowledge on rhythm and rhetoric. Reading of selected poems help to cultivate literary sense and appreciation.
	Core-7	C7T: প্রবন্ধ সাহিত্য পাঠ	6	Introduction to essay literature. Concept about various aspects of social movements
П	GE-3	GE-3T : বাংলা প্রবন্ধ ও কথাসাহিত্যের ধার এবং প্রবন্ধ পাঠ	6	To students make knowledge about Bengali Essay, Novel and Short Story. Idea of prose work with different personality.
	SEC-1	SEC-1: বাংলা ব্যাকরণ ও অনুবাদতত্ত্ব	2	It gives over view about Bengali grammar and translation theory as well as terminology.

Semester- IV

Year	Course Type	Course Title	Credit	Course Outcome
	Core-8	CT 8 : উনিশ-বিশ শতকের নাট্য ও কথাসাহিত্যের ইতিহাস এবং ছোট গল্প পাঠ	6	Conception about the detailed history of Drama & fiction in the 19 th & 20 th Century
II	Core-9	CT9: কাব্যপাঠ	6	Selected texts of eminent poets enriches literary consciousness with the understanding of modernism.
	Core-10	CT10: উপন্যাস পাঠ	6	It may create conception about theory of novel. A reader can enriches own skill as a critic. Understanding of human nature and behavior through selected texts.
	GE-4	GE-4T : বাংলা গীতিসাহিত্য, শিশুসাহিত্য ও রম্যরচনার ধারা	6	To students make knowledge about Bengali Lyrical literature, children literature, belles-lettres. Make aware of its popularity.
	SEC-2	SEC-2: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পের উপস্থাপনা	2	Idea about research methodology. Develop writing proficiency. Paper Presentation helps student to increase communication skill.

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Semester V

Year	Course Type	Course Title	Credit	Course Outcome
III		CT 11 : নাট্যপাঠ	6	Conception about theory of drama. In addition, senses about the brilliance of dramatic presentation.
	Core-12	CT 12 : কাব্যতত্ত্ব, পাশ্চাত্য সাহিত্য সমালোচনা-তত্ত্ব ও সাহিত্যের রূপরীতি	6	To make students aware of poetics, western criticism, and various genre of literature. Discussion about literary terms and short history of literary criticism.
	DSE-1	DSE-1T : সাহিত্য আন্দোলন, সমালোচনা ও রূপরীতি	6	Idea about literary movement, various school of criticism. Formalistic approach towards literature.
	DSE-2	DSE 2T: বাংলা ছোটগল্প, ভ্রমণ কাহিনি ও গোয়েন্দা কাহিনি পাঠ	6	To students make knowledge about Bengali short story, travel literature and detective narrative. Awareness of various genre of literature

Semester VI

Year	Course Type	Course Title	Credit	Course Outcome
	Core- 13	CT 13 : লোকসাহিত্য	6	Introduction to the Folk Literature with definition, form and characteristics. Different text of folk literature help to gather knowledge of our history and tradition.
III	Core-14	CT 14 : সংস্কৃত, ইংরেজি ও প্রতিবেশী সাহিত্যের ইতিহাস	6	To create a sense of history of Sanskrit, English and neighboring literature. Compare the different literary tradition and culture.
	DSE-3	DSE-3T : নাট্যসাহিত্য পাঠ	6	Idea about drama. Students can enjoy the text of one act play.
	DSE-4	DSE-4T: রবীন্দ্রসাহিত্য পাঠ	6	An idea of Tagore's creation. Notion about multidimensional philosophy reflected in selected texts.

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Bengali (General)

Semester- I

Year	Course Type	Course Title	Credit	Course Outcome
I	CC 1 (DSC- 1A) CC 2 (DSC- 2A)	বাংলা সাহিত্যের ইতিহাস ও বাংলা ভাষাতত্ত্ব	6	To get elaborate knowledge about origin and development of Bengali Language and literature.

Semester-II

Year	Course Type	Course Title	Credit	Course Outcome
Ι	CC 3 (DSC- 1B)	কাব্য-কবিতা	6	Detailed conception about poetry of medieval time as well as modern era.
	CC 4 (DSC- 2B)			
	AECC Core (L-1)	MIL-1 কবিতা ও ছোটগল্প	6	Primary knowledge on Bengali poetry and Short story. It can increase the reading interest.

Semester III

Year	Course Type	Course Title	Credit	Course Outcome
II	DSC -1C DSC-2C	বাংলা কথাসাহিত্য, নাটক ও প্ৰবন্ধ ,	6	Primery idea on Bengali fiction, drama and essay. Development of critical view about life and world.
	SEC-1	লিখন নৈপুণ্য বৃদ্ধি	2	It may enhance writing skill and develop social consciousness.

Semester IV

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Year	Course Type	Course Title	Credit	Course Outcome
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II	DSC -1D DSC-2D	সাহিত্যতত্ত্ব ও সাহিত্য নির্মাণ কলা	6	It gives a guideline to literary criticism and define structure of a poem.
	AECC Core (L-2)	উনিশ শতকের বাংলা প্রবন্ধ ও লোকসাহিত্য	6	Students can know about Bengali essay of 19 th century. Idea about folk literature.
	SEC-2	বাংলা ধ্বনিতত্ত্ব ও রূপতত্ত্ব	2	It may enhance language skill. Develop the knowledge of phonetics and morphology.

Semester V

Year	Course Type	Course Title	Credit	Course Outcome
ш	DSE -1A DSE-2A	বাংলা নাটক ও কবিতা	6	It gives a conception of Bengali drama and poetry. Develop the sense of communication in different technique.
	GE-1	কাব্য	6	Students can know about Bengali poetry. From Selected texts, they can lean the main feature of major poets.
	SEC-3	শৈলী, কাব্যশৈলী বিচার, গদ্যশৈলী ও নাট্যশৈলী বিচার	2	It may enhance the power of criticism. Knowledge of stylistics is enriched through various texts.

Semester VI

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Year	Course Type	Course Title	Credit	Course Outcome
ш	DSE -1B DSE-2B	প্রবন্ধ ও ভ্রমণকাহিনি	6	It gives a description of essay and travel literature. Changing scenario of society is discussed through the mirror of text.
	GE-2	প্রবন্ধ ও সাহিত্যের রূপরীতি- বিচার পদ্ধতি	6	Students can know about literary style and judgement method. By selective texts of essay, student can learn art of reading. They can develop their power of thinking.
	SEC-2	বিষয়ভিত্তিক আলোচনা ও আলোচনাপত্র উপস্থাপন	2	It enriches subject knowledge, develops research interest as well as writing and communication skill.

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