

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

**A MINORITY RUN COLLEGE AFFILIATED TO UNIVERSITY OF THE CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956**



PO/CO/PSO

PROGRAMME OUTCOMES (PO)

COURSE OUTCOMES (CO)

PROGRAMME SPECIFIC OUTCOMES (PSO)

PO /CO/PSO Committee

Chairperson(s):	Dr. Subhabrata Gangopadhyay, Teacher-in-Charge (Ex-Officio) Dr. Pinki Saha Sardar, Vice-Principal (Admin)
Advisor(s):	Prof. Samir Bandyopadhyay Dr. Anup K. Sikdar Dr. Samir K. Datta, Dean of Science
Coordinator(s):	Dr. Rekha Nariwal, Department of Education Dr. Soumya Bhattacharjee, Department of Bengali
IQAC Coordinator(s):	Dr. Anupa Ghosh (Coordinator) Mr. Tathagata Sen (Joint Coordinator)
NAAC Coordinator:	Ms. Paramita Chakravarty

STRUCTURE OF THE COMMITTEE

Sectional Heads	
Vice-Principal, Arts	Ms. Debjani Ganguly
Vice-Principal, Afternoon and Evening Commerce	Mr. Saspo Chakraborty
Coordinator, Afternoon and Evening Commerce	Ms. Atreyee Ganguly
Coordinator, Morning Commerce	Ms. Minakshi Chaturvedi
Coordinator, Bachelor of Business Administration (B.B.A.)	Dr. Tridib Sengupta
Coordinator, M.A.	Ms. Ananyya Banerjee

Sectional Coordinators	
Political Science (Arts)	Dr. Dona Ganguly
M.A. English (Arts)	Ms. Neetisha Jha
B.Com. (Afternoon and Evening Commerce)	Mr. Sayan Roy
	Ms. Gargi Das Bhattacharya
	Ms. Arundhati Mazumder
M.Com. (Afternoon and Evening Commerce)	Ms. Dipannita Chatterjee
B.Com. (Morning Commerce)	Dr. Sreyasi Ghosh
	Mr. Vivek Patwari
B.B.A. (Management)	Ms. Debarati Guha
Mathematics (Science)	Dr. Nirabhra Basu
Chemistry (Science)	Dr. Samir K. Siddhanta

ACKNOWLEDGEMENT

It gives us great pleasure to anthologize the fruits of long hours of labour put in by the faculty members, of various departments to spell out the PO /CO/PSO, for the benefit and convenience of students. At the very outset we express our gratitude to the management and the Governing Body of the college for the unflinching support extended to us for completing this mammoth task. We are also indebted to the Chairpersons Dr. Subhabrata Ganguly and Dr. Pinki Saha Sardar who have provided much needed data and information for completing this task. Mention must be made of Prof Samir Bandyopadhyay, Dr. Anup K. Sikdar, Dr. Samir K. Datta and the NAAC Coordinator, Ms. Paramita Chakravarty for their insight and advice. Further, we are obliged to all the other members of the PO /CO/PSO Committee without whose assistance and cooperation, this mission could not have been fulfilled.

Thanking you all.

Dr. Rekha Nariwal (Coordinator)

Dr. Soumya Bhattacharjee (Joint Coordinator)



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

Programme Outcomes (PO), Course Outcomes (CO), Programme Specific Outcomes (PSO)

PRELUDE

The Bhawanipur Education Society College, for its Undergraduate and Postgraduate Programme, is focusing on a learning-outcome based curriculum framework that puts the interests of the students first. It is now, an essential component of the National Education Policy, 2020 (NEP 2020), which seeks to foster in students the ability to think and apply newly acquired knowledge, which is essential for both personal and professional growth. Our college prioritizes in institutionalizing an outcome-oriented higher education system with the availability of advanced academic resources and technologies to create a refined, sophisticated learning environment. Learning Outcome-Based Curriculum will be utilized in formulating Graduate Attributes and Course Learning Outcomes. The curriculum planners are expected to follow this in designing and delivering academic programmes relevant to the changes in society. Learning outcomes will help prospective students to develop knowledge, skills, attitudes, values, as they are expected to practically use and demonstrate the same at the end of their course. Additionally, this will serve as a measure for maintaining national and international standards to ensure global competitiveness and mobility. Some of the characteristic attributes that a graduate should demonstrate, pre-disciplinary knowledge, scientific reasoning, communication skills, critical thinking, problem solving, self-directed learning. Here, teachers play a crucial role in innovating pedagogical methods to realize and enhance the specified learning outcomes. Outcome-based learning gives teachers the ability to first identify and prioritize the goals, use instructional strategies to help students get there, and then compare the results with what was anticipated. Outcome-based education, thus, explicitly focuses on and organizes all that is necessary for all students to be able to complete their educational programme successfully.

The principal elements of Outcome-based learning in education are identified and defined as follows:

Course is defined as a theory, practical or theory cum practical subject studied in a semester. For e.g., Computer Applications Management.

Course Outcomes (CO): Course outcomes are statements that describe significant and essential learning that learners have achieved and can reliably demonstrate at the end of a course. Outcomes may be specified for each course based on its weight age.

Program is defined as the specialization or discipline of a degree. It is the interconnected arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree. For e.g.: B.A., B. Sc, B. Com., M. Com., M.A., B.B.A. etc.

Program Outcomes (PO) Program outcomes are narrower statements that describe what students are expected to be able to do by the time of graduation. Program Outcomes are expected to be aligned closely with graduate attributes.

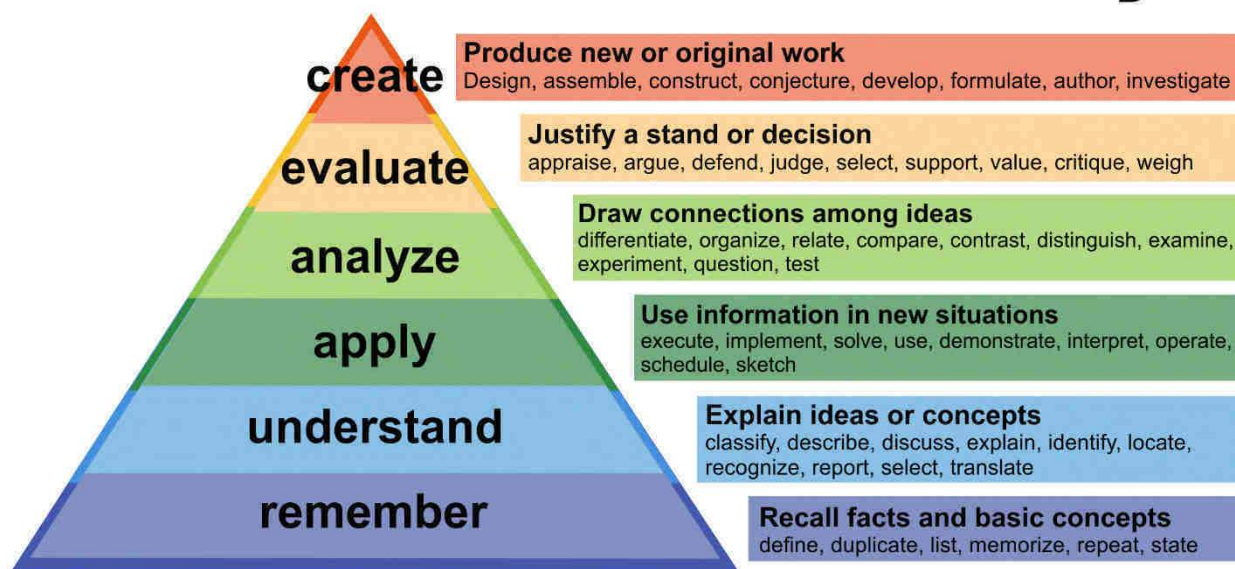
Program Specific Outcomes (PSO): Program Specific Outcomes are what the students should be able to do at the time of graduation with reference to a specific discipline. Usually there are two or more Program Specific Outcomes for a Program.

Alignment with Bloom's Taxonomy:

Bloom's Taxonomy is a classification of the different competencies and goals that teachers are expected to set for their students in the curriculum. Benjamin Bloom, an Educational Psychologist at the University of Chicago, first suggested the taxonomy in the year 1956. In the initial version of the taxonomy, the cognitive domain was broken into the six levels of objectives. In the revised edition of Bloom's taxonomy published in 2001, the levels have slightly different names, and their order was revised as Remember, Understand, Apply, Analyze, Evaluate, and Create.

Outcome-based education is channelized through the levels as stated below-

Bloom's Taxonomy



Assessment Methods: The Bhawanipur Education Society College, being affiliated to the University of Calcutta offers a method of assessment as per the University directives and guidelines. After implementing of the CBCS system, the college seeks to ensure that internal assessments are held every semester to support quality education. External assessments are devised by the University in accordance with their set framework.

Undergraduate Programmes offered in Arts (B.A.):

ENGLISH
HISTORY
JOURNALISM AND MASS COMMUNICATION
POLITICAL SCIENCE
SOCIOLOGY
BENGALI
EDUCATION
HINDI
GEOGRAPHY
PSYCHOLOGY
FILM STUDIES

Undergraduate Programme offered in Commerce (B. Com):

B. Com.

Undergraduate Programmes offered in Science (B. Sc):

PHYSICS
CHEMISTRY
MATHEMATICS
COMPUTER SCIENCE
ECONOMICS
ELECTRONICS
STATISTICS

Undergraduate Programme offered under Business Administration:

BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)
--

Postgraduate Programme offered:

M.A. (ENGLISH)
M. Com.

CONTENTS

SL. NO.	DEPARTMENT NAME	PAGE NO.
1.	DEPARTMENT OF ENGLISH	10-32
2.	DEPARTMENT OF HISTORY	33-53
3.	DEPARTMENT OF JOURNALISM & MASS COMMUNICATION	54-66
4.	DEPARTMENT OF POLITICAL SCIENCE	67-79
5.	DEPARTMENT OF SOCIOLOGY	80-108
6.	DEPARTMENT OF BENGALI	109-117
7.	DEPARTMENT OF EDUCATION	118-127
8.	DEPARTMENT OF HINDI	128-134
9.	DEPARTMENT OF GEOGRAPHY	135-139
10.	DEPARTMENT OF PSYCHOLOGY	140-145
11.	DEPARTMENT OF FILM STUDIES	146-151
12.	DEPARTMENT OF COMMERCE (B. Com)	152-208
13.	DEPARTMENT OF PHYSICS	209-231
14.	DEPARTMENT OF CHEMISTRY	232-258
15.	DEPARTMENT OF MATHEMATICS	259-276
16.	DEPARTMENT OF COMPUTER SCIENCE	277-290
17.	DEPARTMENT OF ECONOMICS	291-306
18.	DEPARTMENT OF ELECTRONICS	307-316
19.	DEPARTMENT OF STATISTICS	317-324
20.	DEPARTMENT OF BUSINESS ADMINISTRATION (B.B.A)	325-364
21.	DEPARTMENT OF ENGLISH (M.A.)	365-390
22.	POSTGRADUATE DEPARTMENT OF COMMERCE (M. Com)	391-432
ENVIRONMENTAL STUDIES (AECC - 2)		433-437



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF ENGLISH



PO/CO/PSO

Programme Outcomes (PO)

Course Outcomes (CO)

Programme Specific Outcomes (PSO)

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE. AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF ENGLISH
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in English the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Develop research-based ideas and projects through theoretical insights into the subject.
PO 2	Effective Communication	Apply vocabulary and comprehension skills to written as well as spoken tracts and becoming adept at communicating ideas and arguments with clarity.
PO 3	Social Interaction	Imbibe textual perspectives which enable empathetic accommodation of social plurality.
PO 4	Effective Citizenship	Develop a sense of the cultural and aesthetic tendencies of the past and the present, and the confluence of tradition and innovation.
PO 5	Ethics	Learn to recognise and uphold the consequences of moral choices as an integral component of academic training in literature.
PO 6	Environment and sustainability	Relate the impact of environmental changes on human lives and identify how it is reflected and sometimes even predicted through literary works.
PO 7	Self-directed and lifelong learning	Apply acquired knowledge and skills to explore new terrains and challenge or corroborate received opinions with original inputs.

PO 8	Literary Sensibility	Interpret the politics of social equations and the power of literary texts to change the society or perpetuate stereotypes, over a range of cross-cutting issues like gender, class, caste, etc.
PO 9	Contextual Familiarity	Acquire knowledge of the literary ages and historical developments which led to the formation of representative canons in English literature.
PO 10	Comprehending literary canons	Associate the origin of literary genres and techniques with socio-cultural developments and identifying the role of power structures in the formulation of canons.
PO 11	Developing cultural connects	Acquire the ability to trace cultural connects and bridges across nations through literary representations.
PO 12	Aesthetic Appreciation	Evaluate the literary merit of different forms of literature with reference to the structural components of literature and becoming familiar with poetic metres and literary devices used.
PO 13	Language development Skills	Acquire components of grammar and learning to construct proper sentences in order to meet academic and professional requirements.

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in English as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	History of Literature and Philology (ENG-A-CC-1-1-TH/TU)	CO-1	1.1: Identify the characteristics of different ages of English literature.	PO 9
			1.2: Categorize different writers and works according to the ages of English literature.	PO 9, PO 10

			1.3: Organize writers and their literary styles according to language traditions.	PO 8, PO 9
			1.4: Compare and contrast different ages of English literature with reference to the socio-political backgrounds.	PO 8, PO 9, PO 10
			1.5: Assess the growth of English language through different periods of historical conquests.	PO 8, PO 9, PO 10
			1.6: Explain the connect between English literature and language through the historical and socio-cultural links which constitute the progress of civilization.	PO 1, PO 3, PO 8, PO 9, PO 10
I	European Classical Literature (ENG-A-CC-1-2-TH/TU)	CO-2	2.1: Identifying the classical writers and works who influenced English literature.	PO 9
			2.2: Differentiating between the Greek and Roman cultures and literatures.	PO 3, PO 9
			2.3: Relating elements of Renaissance humanism with the features of European classical literatures.	PO 8, PO 9, PO 10
			2.4: Detect the links between socio-political thoughts and literary aesthetics.	PO 3, PO 8, PO 9, PO 10

			2.5: Interpret the themes of ancient European literature with reference to the social developments.	PO 3, PO 7, PO 8, PO 9, PO 10
			2.6: Explain the impact of Greek and Roman literatures on the writers of English literature.	PO 1, PO 3, PO 7, PO 8, PO 9, PO 10
II	Indian Writing in English (ENG-A-CC-2-3-TH/TU)	CO-3	3.1. Acquire knowledge of the social and political background of Indian writing in English.	PO 9
			3.2: Categorize Indian writers in English according to different literary phases.	PO 9, PO 10
			3.3: Apply the knowledge of the socio-cultural background to the texts in syllabus.	PO 8, PO 9, PO 10
			3.4: Differentiate between Indian writing in English and mainstream English literature.	PO 3, PO 7, PO 8, PO 9, PO 10
			3.5: Compare and contrast literary styles in Indian writing in English in the pre-Independence and post-independence periods.	PO 3, PO 4, PO 8, PO 9, PO 10
			3.6: Devise a chronology of writers and works with reference to the different phases of Indian writing in English.	PO 1, PO 3, PO 4, PO 8, PO 9, PO 10, PO 12

II	British Poetry and Drama (14th-17th Century) (ENG-A-CC-2-4-TH/TU)	CO-4	4.1: Acquire knowledge of the canonical works and writers in Medieval and Elizabethan ages of English literature.	PO 9, PO 10
			4.2: Determine the process of rise of new forms and genres in English literature.	PO 7, PO 8, PO 9, PO 10, PO 12
			4.3: Relate the changes in English literary forms with the larger socio-cultural developments in Europe during the Renaissance.	PO 3, PO 8, PO 9, PO 10, PO 12
			4.4: Analyse the works of the major English writers during Renaissance, including Shakespeare, with reference to the larger political background.	PO 3, PO 7, PO 8, PO 9, PO 10
			4.5: Assess the influence of Italian and French literary works on English literature.	PO 3, PO 9, PO 10, PO 11
			4.6: Produce coherent arguments relating literature and society with reference to the socio-historical backgrounds.	PO 1, PO 2, PO 7, PO 8, PO 11
III	American Literature (ENG-A-CC-3-5-TH/TU)	CO-5	5.1: Identify the origins of American literature.	PO 9
			5.2: Differentiate between American literature and English literature.	PO 9, PO 11

			5.3: Classify the writers and works according to the history of American literature.	PO 9, PO 10, PO 12
			5.4: Deduce how different socio-political developments gave rise to different literary forms.	PO 3, PO 7, PO 8, PO 9
			5.5: Critique literary works with reference to their immediate historical background.	PO 1, PO 3, PO 7, PO 11
			5.6: Explain the essential components of Americanism as found in the texts prescribed.	PO 1, PO 2, PO 3, PO 7, PO 8, PO 9, PO 10, PO 12
III	Popular Literature (ENG-A-CC-3-6-TH/TU)	CO-6	6.1: Detect the connect between forms of popular literature and the society which gives rise to them.	PO 8, PO 9
			6.2: Interpret literary nonsense as a serious literary form with deeper meanings.	PO 8, PO 9, PO 10
			6.3: Relate comics as a literary form with the larger picture of the society and popular discourse.	PO 3, PO 8, PO 9, PO 11, PO 12
			6.4: Differentiate between various forms of popular literature and account for their popularity with reference to the social backdrop.	PO 7, PO 8, PO 9, PO 10, PO 11

			6.5: Assess writers of popular literature with reference to their socio-historical backgrounds.	PO 1, PO 2, PO 3, PO 7, PO 11
			6.6: Explain the concept of popular literature as integral to the development and perpetuation of popular discourse and public opinion.	PO 1, PO 2, PO 3, PO 8, PO 10, PO 11
III	British Poetry and Drama (17th-18th centuries) (ENG-A-CC-3-7-TH/TU)	CO-7	7.1: Acquire knowledge of new forms and genres in English literature such as the epic and mock-epic and their connect with the social developments.	PO 9
			7.2: Chart the tradition of British drama and its progress through the 17th century.	PO 9, PO 10
			7.3: Discover the link between the social developments and the corresponding new forms and genres in English literature with reference to the Civil Wars and Restoration.	PO 3, PO 8, PO 9, PO 11
			7.4: Contrast between literary works and perspectives with reference to the political background of the 17th century.	PO 3, PO 7, PO 8, PO 11
			7.5: Explain the influence of the English Civil Wars on the literary pieces composed during the Restoration period.	PO 1, PO 2, PO 3, PO 7, PO 8, PO 11

			7.6: Produce logical arguments linking literature and society.	PO 1, PO 2, PO 3, PO 8, PO 11
III	Business Communication (ENG-A-SEC-A-3-2-TH/TU)	CO-8	8.1: Acquire writing skills to enhance employability.	PO 2
			8.2: Formulate letters and CVs with reference to the requirements of the present employment scenario.	PO 2, PO 7
			8.3: Prepare reports and meeting minutes in accordance with job specifications.	PO 2, PO 5, PO 13
			8.4: Structure e-mail correspondences following official requirements.	PO 2, PO 5, PO 7, PO 13
			8.5: Explain business requirements through coherent arguments.	PO 2, PO 5, PO 7, PO 13
			8.6: Create opportunities for professional development and upgrade communication skills.	PO 2, PO 5, PO 7, PO 13
IV	18th Century British Literature (ENG-A-CC-4-8-TH/TU)	CO-9	9.1: Acquire knowledge of the changing patterns of art and literature with reference to changing ideological paradigms through the 18th century Enlightenment.	PO 9
			9.2: Explain the emerging trends of English literature in the 18th century.	PO 9, PO 10

			9.3: Interpret prescribed texts with reference to the socio-cultural background of the 18th century.	PO 3, PO 8, PO 9
			9.4: Compare and contrast literary forms emerging during the Augustan period with those of the Restoration period.	PO 7, PO 9, PO 10, PO 11
			9.5: Assess the literary characteristics of English works with reference to European Enlightenment.	PO 1, PO 7, PO 9, PO 11, PO 12
			9.6: Discover the influence of the great philosophers and thinkers of the 18th century on English literature.	PO 1, PO 3, PO 7, PO 10, PO 11
IV	British Romantic Literature (ENG-A-CC-4-9-TH/TU)	CO-10	10.1: Define the characteristics of the Romantic Period in England.	PO 9
			10.2: Determine the influence of French and German philosophers on the British Romantic Poets.	PO 9, PO 11
			10.3: Develop an understanding of the significance of nature in British Romantic literature.	PO 6, PO 9, PO 10, PO 11

			10.4: Compare and contrast between the early and the later phases of British Romantic literature.	PO 3, PO 10, PO 11, PO 12
			10.5: Critique the literary forms of the Romantic period with reference to their immediate socio-cultural and political backgrounds.	PO 1, PO 3, PO 6, PO 8, PO 11
			10.6: Explain the factors which contributed to an ideological shift leading to the emergence of Romantic literature in England.	PO 1, PO 2, PO 7, PO 8, PO 9, PO 10, PO 11
IV	19th Century British Literature (ENG-A-CC-4-10-TH/TU)	CO-11	11.1: Acquire knowledge of British imperialism and the Victorian period.	PO 9
			11.2: Interpret prescribed texts with reference to the socio-political background of the times.	PO 3, PO 8, PO 10, PO 11
			11.3: Classify the characteristics of the Victorian period as found in the literature of the times.	PO 7, PO 10, PO 11, PO 12
			11.4: Evaluate the role of the literary works in providing an estimate of the historical and political scenario of the times.	PO 1, PO 3, PO 8, PO 10, PO 11

			11.5: Assess the importance of Victorian novels in portraying the true picture of the society.	PO 1, PO 2, PO 3, PO 8, PO 10, PO 11
			11.6: Discover the links between the colonial times, the Victorian era and the representations found in English literature.	PO 1, PO 3, PO 7, PO 8, PO 9, PO 11
IV	Academic Writing and Composition (ENG-A-SEC-B-4-2-TH/TU)	CO-12	12.1: Acquire knowledge of academic writing and citations.	PO 2
			12.2: Organise a structured argument for an academic essay.	PO 2, PO 7
			12.3: Develop insights into critical appreciation of a literary piece.	PO 1, PO 2, PO 7, PO 12
			12.4: Classify citation formats according to formal academic manuals of citation.	PO 2, PO 7, PO 13
			12.5: Judge merits and demerits of a literary piece with reference to literary technicalities	PO 1, PO 2, PO 3, PO 7, PO 12
			12.6: Write academic papers with coherent points and proper bibliography.	PO 1, PO 2, PO 5, PO 7, PO 13

V	Women's Writings (ENG-A-CC-5-11-TH/TU)	CO-13	13.1: Recognize the different stages associated with women's writings.	PO 9
			13.2: Differentiate between women's literary expressions across cultures and nations.	PO 3, PO 9, PO 11
			13.3: Develop knowledge of the forms and techniques applied in women's writings.	PO 2, PO 7, PO 8, PO 9
			13.4: Analyse women's writing as a counter-discursive genre in patriarchy.	PO 1, PO 3, PO 7, PO 8, PO 11
			13.5: Interpret the images and metaphors used in women's writings and the reasons behind the same.	PO 2, PO 7, PO 8, PO 9, PO 10, PO 11, PO 12
			13.6: Discover the similarities and dissimilarities of the themes employed by women writers for expression of the self.	PO 1, PO 3, PO 7, PO 8, PO 10, PO 11
V	Early 20th Century British Literature (ENG-A-CC-5-12-TH/TU)	CO-14	14.1: Identify the new genres associated with British literature in the 20th century.	PO 9
			14.2: Determine the impact of the First World War on British literature.	PO 9, PO 11

			14.3: Develop an insight into Modernism and modernist forms of literature.	PO 3, PO 8, PO 11, PO 12
			14.4: Evaluate the importance of Shavian theatre in shaping public opinion in the early 20th century.	PO 1, PO 3, PO 7, PO 8, PO 11
			14.5: Critique 20th century British literatures with reference to the social and political backgrounds.	PO 1, PO 2, PO 3, PO 8, PO 10
			14.6: Explain the importance of psychoanalytical theory in the emergence of modernist literature.	PO 1, PO 2, PO 3, PO 7, PO 10, PO 11
V	Modern Indian Writing in English Translation (ENG-A-DSE-A-5-1-TH/TU)	CO-15	15.1: Identify the nuances of Indian literatures.	PO 9
			15.2: Explain the plurality of contexts which shape the expression of regional and linguistic conflicts in Indian literatures.	PO 2, PO 3, PO 4, PO 7
			15.3: Discover the process of translation as transcreation and the impact it has on regional literatures of India.	PO 2, PO 3, PO 7, PO 9, PO 11
			15.4: Differentiate between the expression of Indianness as found in the diverse works of the Indian writers prescribed in the syllabus.	PO 3, PO 4, PO 7, PO 8, PO 10, PO 12

			15.5: Compare the different forms of nationalism and assess the importance of writers like Rabindranath Tagore in shaping the nationalist discourse.	PO 1, PO 2, PO 3, PO 4, PO 7, PO 8
			15.6: Derive knowledge of regional Indian theatre and explain how it is different from the British traditions.	PO 1, PO 3, PO 7, PO 8, PO 11
V	Literary Types, Rhetoric and Prosody (ENG-A-DSE-B-5-1-TH/TU)	CO-16	16.1: Identify the origin and development of different literary types with reference to the sociocultural developments.	PO 9
			16.2: Categorize literary types such as tragedy, comedy and short story according to their features and respective social periods.	PO 3, PO 9, PO 11
			16.3: Classify the different components of rhetoric that constitute literature.	PO 2, PO 7, PO 12
			16.4: Analyse poetic metres with reference to prosody.	PO 2, PO 7, PO 12
			16.5: Explain the structural components associated with literary forms.	PO 2, PO 7, PO 12

			16.6: Produce a chronological sequence of the emergence of literary forms with reference to the social contexts that shaped them.	PO 1, PO 2, PO 3, PO 9, PO 8, PO 11
VI	Modern European Drama (ENG-A-CC-6-13-TH/TU)	CO-17	17.1: Detect the trends and techniques that characterize Modern European Drama.	PO 9
			17.2: Determine the impact of the social and political developments on Modern European theatre.	PO 3, PO 8, PO 9
			17.3: Discover the influence of great playwrights like Ibsen, Brecht and Beckett on European theatre.	PO 3, PO 7, PO 11
			17.4: Compare and contrast between the themes explored by Modern European theatre through the texts prescribed in the syllabus.	PO 1, PO 2, PO 3, PO 7, PO 10
			17.5: Interpret the impact of postmodernism on Modern European theatre.	PO 1, PO 2, PO 3, PO 8, PO 11, PO 12
			17.6: Create a canon of the famous writers who nourished and nurtured Modern European drama with reference to the socio-cultural contexts.	PO 1, PO 2, PO 3, PO 10, PO 8, PO 11

VI	Postcolonial Literatures (ENG-A-CC-6-14-TH/TU)	CO-18	18.1: Acquire knowledge of post colonialism and its impact on literature.	PO 9
			18.2: Organize the experience of post colonialism according to diverse historical realities.	PO 8, PO 9
			18.3: Discover different forms and genres associated with postcolonial literatures.	PO 10, PO 11, PO 12
			18.4: Classify the techniques associated with the expression of the postcolonial experience in literature.	PO 9, PO 11, PO 12
			18.5: Critique different forms of postcolonial literatures with reference to their socio-cultural contexts.	PO 1, PO 2, PO 3, PO 7, PO 8, PO 9
			18.6: Constitute a comprehensive canon of postcolonial literature according to the phases of its development.	PO 1, PO 2, PO 3, PO 8, PO 9, PO 10, PO 11
VI	Partition Literature (ENG-A-DSE-A-6-3-TH/TU)	CO-19	19.1: Acquire understanding of the Partition of India as an integral part of Indian history and independence.	PO 9
			19.2: Determine the impact of the Partition as a historical reality upon individual lives and the society.	PO 3, PO 4, PO 8

			19.3: Discover the multiplicity of voices that articulate the anguish of Partition in the Indian literatures.	PO 3, PO 4, PO 8, PO 11
			19.4: Compare the Partition narratives included in the syllabus on the basis of their regionalized and localized contexts.	PO 1, PO 3, PO 4, PO 8, PO 11
			19.5: Critique Partition literature with reference to political realities of the time.	PO 1, PO 3, PO 4, PO 8, PO 10, PO 12
			19.6: Create a map of human suffering associated with Partition as found in the alternative domains of historical discourse constituted by literature.	PO 1, PO 2, PO 3, PO 4, PO 8, PO 9, PO 11
VI	Autobiography (ENG-A-DSE-B-6-3-TH/TU)	CO-20	20.1: Identify the features of autobiography as a literary genre.	PO 9
			20.2: Determine different types of autobiography.	PO 9, PO 10
			20.3: Apply critical and theoretical perspectives to the reading of autobiography as a literary form.	PO 1, PO 3, PO 7, PO 9, PO 12
			20.4: Distinguish between the approaches adopted by men and women as authors/narrators while writing autobiography.	PO 1, PO 8, PO 10, PO 12

			20.5: Interpret the autobiographies prescribed in the syllabus with reference to their social motives and contexts.	PO 1, PO 3, PO 8, PO 9, PO 11
			20.6: Derive a comprehensive understanding of the eastern and western concepts of autobiography based on the cultural contrasts between the east and the west.	PO 1, PO 3, PO 7, PO 8, PO 9, PO 11, PO 12

ENGLISH GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the course in English as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Poetry and Short Story (GE1) (ENG-G-CC-1-1-TH/TU)	CO-1	1.1: Recognize different literary genres and acquire basic knowledge about some of the great writers.	PO 9, PO 10
			1.2: Explain poetry as a condensed form of literary expression.	PO 8, PO 12
			1.3: Discover the nuances of short story as a literary genre.	PO 7, PO 10, PO 12
			1.4: Distinguish between different types of poetry according to the ages of English literature.	PO 9, PO 11

			1.5: Interpret literary pieces with reference to their socio-cultural contexts.	PO 1, PO 3, PO 7, PO 8, PO 9, PO 11
			1.6: Explain using coherent sentences the aesthetics involved in poetry and short story.	PO 2, PO 12, PO 13
II	Essay, Drama and Novel (GE2) (ENG-G-CC-2-2-TH/TU)	CO-2	2.1: Identify essays, drama and novel as literary forms and trace their development over the years.	PO 9, PO 11
			2.2: Determine the role of drama in providing an alternative discourse to the dominant power hierarchies.	PO 3, PO 8, PO 11
			2.3: Relate the emergence of novel as a literary form with the socio-historical contexts.	PO 3, PO 7, PO 8, PO 9, PO 11
			2.4: Compare and contrast between essays written during different periods of English literature.	PO 3, PO 8, PO 9, PO 11
			2.5: Assess the impact of post colonialism on 20th century essay.	PO 1, PO 3, PO 8, PO 9, PO 11
			2.6: Derive an initiation into appreciation of literature through the process of active reading and participation.	PO 1, PO 2, PO 12, PO 13

III	Women's Writing and Women's Empowerment (GE3) (ENG-G-CC-3-3-TH/TU)	CO-3	3.1: Acquire knowledge about the socio-historical background of women's writing.	PO 8, PO 9
			3.2: Interpret women's writing as an alternative discourse to dominant patriarchal narratives.	PO 3, PO 8, PO 10
			3.3 Discover the origins of women's writing in India.	PO 8, PO 10, PO 11
			3.4: Compare different forms of women's writing as developing in the east and the west.	PO 1, PO 11, PO 12
			3.5: Assess the importance of autobiography as a literary genre in women's writing.	PO 1, PO 7, PO 10
			3.6: Discover poetry as nurtured and nourished by the women writers across nations and cultures.	PO 1, PO 3, PO 7, PO 8, PO 11
IV	Academic Writing (GE4) (ENG-G-CC-4-4-TH/TU)	CO-4	4.1: Recognize the technicalities associated with academic writing.	PO 2, PO 13
			4.2: Categorize different kinds of academic writing and citation processes.	PO 2, PO 13
			4.3: Organize structured arguments to write an academic essay	PO 1, PO 2, PO 13
			4.4: Differentiate between summary and paraphrase.	PO 2, PO 7, PO 13

			4.5: Assess standard academic writing with reference to content and formatting.	PO 1, PO 2, PO 7, PO 13
			4.6: Write substance with critical note for unseen passages.	PO 1, PO 2, PO 7, PO 12,

AECC 1: COMMUNICATIVE ENGLISH**COURSE OUTCOMES (CO)**

Upon completion of the Ability Enhancement Compulsory Course (AECC 1: Communicative English), the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Communicative English (AECC 1)	CO-1	1.1: Recall the basics of grammar and sentence construction.	PO 2
			1.2: Differentiate between types of sentences.	PO 2, PO 7
			1.3: Classify sentences as affirmative, negative, interrogative, or assertive.	PO 2, PO 7
			1.4: Illustrate degrees of comparison as applied in a sentence structure.	PO 2, PO 7, PO 13
			1.5: Interpret comprehension passages and identify true and false statements.	PO 2, PO 7, PO 13
			1.6: Revise sentence structures and elementary grammar.	PO 2, PO 7, PO 12, PO 13

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in English the student will be able to:

- PSO-1:** Acquire acquaintance with the background and different stages of English literature, authors, works and genres.
- PSO-2:** Categorize authors and works with reference to history, culture and society.
- PSO-3:** Relate texts with their socio-cultural and political contexts.
- PSO-4:** Compare and contrast the characteristics of different literary ages in English.
- PSO-5:** Critique literary works based on traditional and current theoretical approaches.
- PSO-6:** Produce logically coherent arguments in written and verbal presentations in English.
- PSO-7:** Progress to higher education as well as employment in sectors requiring skills in English and interpersonal communication.



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF HISTORY



PO/CO/PSO

Programme Outcomes (PO)

Course Outcomes (CO)

Programme Specific Outcomes (PSO)

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE. AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF HISTORY**PROGRAMME OUTCOMES (PO)**

Upon completion of the undergraduate course in History the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Engage critically with historical and contemporary developments and challenge/corroborate received opinions with original inputs.
PO 2	Effective Communication	Communicate complex theoretical ideas and arguments with clarity by involving historical knowledge.
PO 3	Social Interaction	Grasp the politics of social equations and the power of using History to transform societal stereotypes of class, caste, gender etc.
PO 4	Effective Citizenship	Appreciate the importance of the historical and cultural discourses in construction of identities which will instill a sense of heritage consciousness and belonging.
PO 5	Ethics	Be ethically committed to understand the nuances and varied subjectivities of any situation.
PO 6	Environment and Sustainability	Appraise the existence of humans as planetary beings by studying the history of the environment and strive towards the sustainability of the planet by developing a broader sense of History, including the non-human.

PO 7	Self-directed and Lifelong Learning	Develop a spirit of lifelong enquiry to explore new terrains of historical research by acquiring sound domain knowledge.
PO 8	Individual and Team Work	Effectively work individually or as a team-member with the experiences of organizing seminars, educational trips and other activities.

DEPARTMENT OF HISTORY

The Bhawanipur Education Society College

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in History as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	History of India from the Earliest Times to c.300 BCE (CC1)	CO-1	1.1: Recognise the sources and tools of historical reconstruction and summarise the notions of history in early India.	PO 5, PO 6
			1.2: Differentiate between the various phases of the Lithic cultures.	PO 7
			1.3: Discover the various aspects of Harappan Civilization from its origins to socioeconomic and cultural features to its decline.	PO 6, PO 7
			1.4: Interrogate the Aryan problem along with the describing the political, socioeconomic and religious aspects of the cultures in transition in north/central India and the Deccan.	PO 3, PO 4, PO 7

	Social Formations and Cultural Patterns of the Ancient World other than India (CC2)	CO-2	2.1: Develop the concept of human evolution and differentiate between phases of lithic cultures in early societies (prehistoric and protohistoric).	PO 7
			2.2: Explain the course of development of agriculture and animal husbandry.	PO 7
			2.3: Situate the Old Kingdom in Egypt in the broader context of Bronze Age Civilizations.	PO 7
			2.4: Recognise the importance of Nomadic groups in Central and West Asia and analyse the debate on the advent of iron.	PO 2, PO 7
			2.5: Locate the important aspects of slave society in ancient Greece and Rome.	PO 3, PO 4, PO 5, PO 7
			2.6: Describe the features of Polis in ancient Greece.	PO 7
II	History of India c. 300 BCE to c. 750 CE (CC3)	CO-3	3.1: Explain the expansion of agrarian economy, urban life, coinage, and social stratification till the fourth century CE.	PO 3, PO 4, PO 5, PO 7
			3.2: Discover the changing political formation during the Mauryan and post-Mauryan polities.	PO 2, PO 7

			3.3: Appraise the dynamics of agrarian, social, urban, and political aspects from 4th to mid-8th century CE in Gupta and post-Gupta Period.	PO 2, PO 3, PO 4, PO 5, PO 7
			3.4: Interrogate the historical development of brahminical religion, theistic cults, and other religious features.	PO 2, PO 6
			3.5: Survey the flourishing literature, art and architecture.	PO 7
	Social Formations and Cultural Patterns of the Medieval World other than India (CC4)	CO-4	4.1: Critically engage with the historiography of the Fall of the Roman empire.	PO 7
			4.2: Explain the social and religious developments like the Carolingian Renaissance, witchcraft, urbanization, universities, art and architecture, status of women etc.	PO 3, PO 4, PO 7
			4.3: Discover the historical debate on the origins and crisis of the feudal society.	PO 7
			4.4: Locate historically the development of religions like Judaism, Christianity, and Islam.	PO 3, PO 4, PO 5, PO 7

III	History of India CE 750-1206 (CC5)	CO-5	5.1: Critically engage with the concept of early medieval India and the different historiographical debates.	PO 2, PO 7
			5.2: Compare the political structures of the Sanskrit and Persianate trans regional worlds - Rashtrakutas, Palas, Pratiharas, Rajputs, Cholas, Arabs, Turks.	PO 2, PO 7
			5.3: Describe the agricultural expansion and the associated processes of proliferation of castes.	PO 3, PO 6, PO 7
			5.4: Highlight the different features of Inland and Overseas trade and forms of exchange and urban life.	PO 7
			5.5: Illustrate the historical development of religious, intellectual, artistic, linguistic, and cultural aspects of various regions.	PO 7
	Rise of the Modern West - I (CC6)	CO-6	6.1: Engage with the transition debate from feudalism to capitalism.	PO 2, PO 7
			6.2: Scrutinize the motives and processes of new world expeditions.	PO 6, PO 7
			6.3: Describe the importance of Renaissance its spread in Europe.	PO 7
			6.4: Compare the different aspects of Reformation as per the thinkers and geographical regions.	PO 7

			6.5: Trace the economic significance of the age and the various revolutions (commercial, price, agricultural).	PO 7
			6.6: Explain the importance of the emergent national monarchies and state systems in Europe.	PO 7
	History of India (c.1206-1526) (CC7)	CO-7	7.1: Recognise the sources of the history of Delhi Sultanate.	PO 5, PO 7
			7.2: Grasp the features of the Sultanate political structures, theories of kingship and authority, regional dynasties and their art and culture.	PO 2, PO 7
			7.3: Highlight the changes in the rural society, revenue system, Inland & Overseas trade.	PO 7
			7.4: Trace the historical development of Bhakti and Sufi philosophy and literatures and Sultanate architecture.	PO 7
	Archives and Museums (SECA1)	CO-8	8.1: Describe the development of archives and museums.	PO 7
			8.2: Familiarise with the formal techniques and traditions of preservation in India.	PO 5, PO 7
			8.3: Discover the process of exhibits in museums.	PO 7

			8.4: Judge the importance of archives and museums in society through education, communication, and outreach activities.	PO 7, PO 8
IV	Rise of the Modern West - II (CC8)	CO-9	9.1: Note the importance of Printing revolution and the revolution in war techniques.	PO 7
			9.2: Question the economic, social, and political dimensions of the 17th century crisis.	PO 7
			9.3: Appraise the English Revolution.	PO 7
			9.4: Describe the significance of the Scientific Revolution and the origins of Enlightenment.	PO 2, PO 7
			9.5: Trace the relationship between mercantilism, European economics, and the prelude to Industrial Revolution.	PO 1, PO 6, PO 7
			9.6: Describe the rise of parliamentary monarchy and the patterns of absolutism in Europe.	PO 1, PO 7

	History of India (c.1526-1605) (CC9)	CO-10	10.1: Discover the sources and historiography of Mughal history till Akbar.	PO 5, PO 7
			10.2: Reconstruct the situation of India during Babur, Humayun, and Sher Shah focusing on military tactics, technology, and administrative and revenue reforms.	PO 1, PO 2, PO 7
			10.3: Measure the significance of tactics, technology, administration and revolts during Akbar's rule.	PO 1, PO 2, PO 7
			10.4: Trace the expansion and integration of regions under Akbar.	PO 1, PO 7
			10.5: Explain the transformation of land rights, revenue, agricultural practices, and trade patterns till Akbar's rule.	PO 1, PO 6, PO 7
			10.6: Describe the development of cementing ideas of politics and religious tolerance.	PO 1, PO 3, PO 4, PO 7
	History of India (c.1605-1750s) (CC10)	CO-11	11.1: Discover the sources and literary traditions of the Mughals.	PO 1, PO 5, PO 7
			11.2: Trace the expansion of Mughal Empire during Jahangir and Shah Jahan along with the flourishing imperial culture and syncretistic traditions.	PO 1, PO 2, PO 7

			11.3: Critically engage with the various aspects of Aurangzeb's rule and the crises of the Mughal empire.	PO 1, PO 3, PO 4, PO 5, PO 7
			11.4: Appreciate the Mughal visual culture.	PO 1, PO 7
			11.5: Situate the patterns of various regional politics vis-a-vis Mughal decline in the 18th century.	PO 1, PO 2, PO 7
			11.6: Explain the development of different aspects of trade and commerce focusing on markets, coinage, urban development and Indian ocean commerce.	PO 1, PO 6, PO 7
	Art Appreciation: An Introduction to Indian Art (SECB2)	CO-12	12.1: Describe the features of rock art and Harappan art.	PO 7
			12.2: Appreciate early Indian Stupa, Cave and Temple Architecture, Sculpture and Numismatic iconographies.	PO 2, PO 5, PO 7, PO 8
			12.3: Distinguish between early medieval Temple forms and sculptures with a view on manuscript and mural painting.	PO 2, PO 7, PO 8
			12.4: Compare the features of various phases of Sultanate and Mughal architecture and painting.	PO 2, PO 7, PO 8

			12.5: Recognise and distinguish modern and contemporary Indian paintings, sculptures and folk art.	PO 1, PO 2, PO 7, PO 8
V	History of Modern Europe (c. 1780-1939) (CC11)	CO-13	13.1: Situate the origins and phases of the French Revolution and Napoleon consolidation in European history.	PO 1, PO 2, PO 7
			13.2: Explain the social, political and intellectual currents behind the revolutionary and radical movement till 1848.	PO 1, PO 7
			13.3: Appraise the processes of capitalist industrialisation & agriculture in various states.	PO 1, PO 6, PO 7
			13.4: Critically engage with the theories of nationalism, state unification and socialist revolutions and their impact in Europe before, during, and between the world wars.	PO 1, PO 7
			13.5: Explain the background and course of the first world war in context of the theories of imperialism.	PO 7
			13.6: Scrutinize the background and course of the Second World War highlighting the post-war condition in Europe, growth of Nazism and Fascism, and the Great Depression.	PO 1, PO 3, PO 4, PO 7

	History of India (c.1750s-1857) (CC12)	CO-14	14.1: Interpret the aspects of society, economy, polity of India in transition.	PO 1, PO 5, PO 7
			14.2: Delineate the processes of expansion and consolidation of colonial power in various regions of India.	PO 1, PO 7
			14.3: Interrogate the ideological apparatus and machinery of army, police, law and education of colonial state.	PO 7
			14.4: Trace the transformation of revenue systems and process of commercialisation of agriculture leading to famines and changes in rural society.	PO 1, PO 6, PO 7
			14.5: Describe the mechanics of de-industrialisation and drain of wealth in light of growth of modern industry.	PO 1, PO 7
			14.6: Situate the features of popular resistance from the Santhal Hul to Revolt of 1857.	PO 1, PO 2, PO 7
	History of Bengal (c. 1757-1905) (DSEA1)	CO-15	15.1: Summarise the political history of Bengal from the Nawabs to the British.	PO 1, PO 2, PO 7
			15.2: Locate the aspects of Administrative history of Colonial Bengal till 1833.	PO 7

			15.3: Describe the features of colonial economy in Bengal.	PO 1, PO 6, PO 7
			15.4: Recognise the features of different Hindu and Muslim reformist and revivalist movements and the implication of printing, education and role of Christian missionaries.	PO 1, PO 3, PO 4, PO 7
			15.5: Situate the women's question and social reform in broader context of nationalism.	PO 1, PO 2, PO 3, PO 4, PO 7
			15.6: Trace the different protest movements and revolts in the late 19th century.	PO 7
			15.7: Interrogate the process of Bengal partition of 1905 with a focus on the administrative aspect.	PO 7
	History of Modern East Asia - I – China (c. 1840-1949) (DSEB1)	CO-16	16.1: Trace the development of Chinese feudalism, imperialistic aggression into China, agrarian and popular movements and self-strengthening till early-20th century.	PO 1, PO 7
			16.2: Situate the growth and development of nationalism in China with reference to revolution of 1911 and May Fourth Movement of 1919.	PO 1, PO 7

			16.3: Describe the development of Communism and rise of Mao Tse Tung in China.	PO 1, PO 2, PO 6, PO 7
VI	History of India (c.1857-1964) (CC13)	CO-17	17.1: Appreciate the cultural changes social religious reform movements and debates around gender.	PO 2, PO 3, PO 4, PO 7
			17.2: Trace the trends of nationalism from late 19th century to 1919.	PO 1, PO 7
			17.3: Situate the importance of various phases of Gandhian nationalism after 1919, Left Wing movements and princely states.	PO 7
			17.4: Locate the significance of various groups and their relationship with nationalist movement.	PO 1, PO 3, PO 4, PO 7
			17.5: Compare the ideologies and practices of communalist groups.	PO 1, PO 3, PO 4, PO 5, PO 7
			17.6: Identify the processes towards independence and partition, highlighting the dynamics of popular movements and partition riots.	PO 1, PO 2, PO 3, PO 4, PO 7
			17.7: Describe the course of the emergence of an independent nation state and the Nehru era.	PO 2, PO 7

	History of World Politics (1945-1994) (CC14)	CO-18	18.1: Appraise the course of the Cold War.	PO 1, PO 7
			18.2: Identify the role of USA in world politics.	PO 1, PO 7
			18.3: Locate the role of USSR in world politics.	PO 1, PO 7
			18.4: Trace the manifestation of Cold War through the various crises.	PO 1, PO 6, PO 7
			18.5: Describe the ending of Cold War.	PO 7
			18.6: Identify the process of disintegration and decline of USSR and development of neoliberal globalization.	PO 1, PO 2, PO 7
			18.7: Identify the importance of China in world politics.	PO 1, PO 2, PO 7
			18.8: Recognise the phases of the West Asian Crisis and the Palestine-Israel conflict.	PO 1, PO 2, PO 7
			18.9: Explain the nature of decolonisation in Africa.	PO 6, PO 7
			18.10: Appraise the significance of the protest politics in mid- to late-20th century.	PO 1, PO 3, PO 4, PO 5, PO 7

	History of Bengal (c. 1905-1947) (DSEA3)	CO-19	19.1: Trace the aftermath of the partition of Bengal of 1905 and Swadeshi movement.	PO 7
			19.2: Compare the politics of the Muslim League and Hindu responses till 1930.	PO 1, PO 3, PO 4, PO 7
			19.3: Describe the significance of phases of political movements and parties in Bengal with focus on Gandhian Nationalism, Left politics, Krishak Praja Party and Muslim League.	PO 1, PO 7
			19.4: Grasp the importance of the Government of India Act 1935.	PO 7
			19.5: Delineate the features of peasant, labour, caste, and women's movements in Bengal.	PO 1, PO 3, PO 4, PO 7
			19.6: Situate Subhas Bose in context of Congress politics and beyond and describe the Quit India Movement, and postwar upsurges.	PO 1, PO 7
			19.7: Describe the importance of the riots and movements in the couple of years before partition culminating in the birth of West Bengal and East Pakistan.	PO 1, PO 2, PO 3, PO 4, PO 7

	History of Modern East Asia - II – Japan (c. 1868-1945) (DSEB3)	CO-20	20.1: Trace the transition of Japan from feudalism to capitalism - from Tokugawa Shogunate to Meiji Era.	PO 1, PO 7
			20.2: Describe the growth of Japan as an imperialistic power.	PO 1, PO 3, PO 4, PO 7
			20.3: Explain the situation of Japan before, during, and after the Second World War with reference to militarism and popular movements.	PO 1, PO 6, PO 7

HISTORY GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in History as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	History of India from Earliest times up to 300 CE (GE1)	CO-1	1.1: Recognise the sources and tools of historical reconstruction.	PO 5, PO 6
			1.2: Differentiate between various phases of lithic cultures.	PO 7
			1.3: Discover the various aspects of Harappan civilization.	PO 6, PO 7
			1.4: Explain the different features of the Vedic Age.	PO 3, PO 4, PO 7
			1.5: Describe the importance of the second urbanization.	PO 2, PO 6, PO 7

			1.6: Interrogate the Iranian and Macedonian invasion processes and significance.	PO 2, PO 7
			1.7: Locate the significance and development of Buddhism and Jainism.	PO 2, PO 7
			1.8: Discover the different aspects of the Mauryan Empire - from its origins to its decline.	PO 2, PO 7
			1.9: Trace the features of the Satavahana rule.	PO 2, PO 7
			1.10: Discuss the growth of Tamil language and literature in context of the polities of the far south.	PO 2, PO 3, PO 4, PO 7
			1.11: Describe the post-Mauryan polity, economy, society and culture.	PO 2, PO 7
II	History of India from c. 300 CE to 1206 CE (GE2)	CO-2	2.1: Situate the rise and the growth of the Gupta empire.	PO 2, PO 7
			2.2: Explain the importance of Harsha in the post-Gupta period.	PO 2, PO 7
			2.3: Describe the various processes in South Indian history.	PO 2, PO 6, PO 7
			2.4: Locate the category of early medieval in Indian history with a focus in polity, society and economy.	PO 2, PO 7

			2.5: Distinguish between the political structures of the Rashtrakutas, Palas and Pratiharas.	PO 2, PO 7
			2.6: Explain the significance of the Rajputs in Early medieval India.	PO 2, PO 6, PO 7
			2.7: Denote the importance of Arabs in Sindh region.	PO 2, PO 3, PO 4, PO 7
			2.8: Indicate the background and establishment of the Delhi Sultanate through the Turkish invasions.	PO 2, PO 3, PO 4, PO 7
III	History of India from 1206 to 1707 (GE3)	CO-3	3.1: Grasp the features of the Sultanate political consolidation.	PO 1, PO 2, PO 5, PO 7
			3.2: Trace the development of military, administrative and revenue reforms under Khiljis and Tughluqs.	PO 1, PO 2, PO 7
			3.3: Explain the historical development of Bhakti and Sufi Movements.	PO 1, PO 7
			3.4: Highlight the rise of various provincial kingdoms.	PO 2, PO 7
			3.5: Describe the rise of the Second Afghan State.	PO 2, PO 7
			3.6: Trace the development and consolidation of the Mughal State.	PO 1, PO 2, PO 3, PO 4, PO 7
			3.7: Determine the ways of transformation of administrative, revenue, religious structures from Akbar to Aurangzeb.	PO 1, PO 2, PO 3, PO 4, PO 7,

			3.8: Describe the aspects of society, economy and culture of the Mughals.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 7
			3.9: Trace the course of emergence of Maratha Power.	PO 2, PO 7
IV	History of India 1707-1950 (GE4)	CO-4	4.1: Interpret the various aspects of 18th century India.	PO 1, PO 2, PO 5, PO 7
			4.2: Locate the course of development of independent states and then colonial power.	PO 1, PO 7
			4.3: Trace the course of expansion and consolidation of colonial power till 1857.	PO 1, PO 2, PO 7
			4.4: Describe the different aspects of the revolt of 1857.	PO 1, PO 2, PO 7
			4.5: Describe the features of colonial economy.	PO 1, PO 6, PO 7
			4.6: Appreciate the cultural changes social religious reform movements and debates around gender.	PO 1, PO 2, PO 3, PO 4, PO 7
			4.7: Situate the importance of various phases of Gandhian nationalism after 1919, Left Wing movements and princely states.	PO 1, PO 7

			4.8: Identify the processes towards independence and partition, highlighting the dynamics of popular movements and partition riots.	PO 1, PO 2, PO 3, PO 4, PO 7
			4.9: Describe the course of the emergence of an independent nation state and the Nehru era.	PO 1, PO 2, PO 7

PROGRAM SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in History, the student will be able to:

PSO-1: Recognise the various methods of analysis with basic understanding of historiography.

PSO-2: Explain the relationship between historical texts, narratives, and the contemporary society.

PSO-3: Comprehend the socioeconomic and cultural development of societies through a coherent knowledge of their historical background.

PSO-4: Critique the historical timeline and perspectivise various current problems using its knowledge.

PSO-5: Interpret and interrogate texts and narratives to develop a hermeneutic approach to the study of History.

PSO-6: Produce research through the development of the skills of interweaving analytical and theoretical trajectories essential for the subject and reflect them in everyday life.



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

**DEPARTMENT OF
JOURNALISM & MASS COMMUNICATION**



PO/CO/PSO

Programme Outcomes (PO)

Course Outcomes (CO)

Programme Specific Outcomes (PSO)

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF JOURNALISM & MASS

COMMUNICATION (HONOURS)

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Journalism and Mass Communication the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Take informed actions upon identification of the assumptions that define human thinking and behaviour, determine how accurate and valid these assumptions are, and examine ideas and decisions (individual and collective) from various viewpoints.
PO 2	Effective Communication	Acquire speaking, reading and writing literacy and listening skills for both face-to-face and mediated communication in English and at least one Indian language, and discover the interconnected meaningfulness of the world by relating oneself with other people and their cultures, beliefs and ideas.
PO 3	Ethics	Recognize and appreciate the diversity of value systems, and respectfully compare them with others, recognize the moral implications of individual decisions and be accountable to them.
PO 4	Social Interaction	Initiate group connections, taking cognizance of other people's opinions, mediating arguments, and contribute to judicious decision-making in social settings.

PO 5	Environment and Sustainability	Recognize the importance of environmental concerns and issues of sustainable development.
PO 6	Self-directed and Lifelong Learning	Develop the aptitude for honing personalized and enduring learning skills in the context of socio-technical transformations in the broadest sense.
PO 7	Individual and Team Work	Demonstrate the ability to contribute effectively in team settings even in the pursuit of individual excellence in both personal and professional lives.

DEPARTMENT OF JOURNALISM & MASS COMMUNICATION HONOURS

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in Journalism and Mass Communication as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
1	Introduction to Journalism (JORA-CC-1-1-TH+P)	CO-1	1.1: Infer the meaning and concepts of news and its different attributes.	PO 2
			1.2: Summarize different forms of print and its evolution.	PO 6
			1.3: Execute the skills to write news using the various principles and formula of news language in sync with the factors affecting news treatment and sociology of news.	PO 2, PO 6

			1.4: Display the basic knowledge of computer usage in practical print journalism.	PO 6
			1.5: Write news report with suitable headlines and intros.	PO 2
			1.6: Compose a sample page on computer with hard and soft news stories.	PO 2
	History of Indian Journalism (JORA-CC-1-2-TH+TU)	CO-2	2.1: Outline the early history of Indian journalism.	PO 6
			2.2: Identify the pioneers of Indian nationalist journalism.	PO 6
			2.3: Summarize the role of Indian journalism in India's freedom struggle.	PO 6
			2.4: Outline the growth, development, challenges, prospects, and pioneers of journalism in post-independent India.	PO 6
2	Reporting and Editing (JORA-CC-2-3-TH+TU)	CO-3	3.1: Define the basic news concepts and principles.	PO 2, PO 4
			3.2: Summarize the principles of page making.	PO 2, PO 4
			3.3: Highlight the positions, qualities, duties and responsibilities of various news professionals.	PO 2, PO 4

			3.4: Infer the basic principles of writing headlines and editorials.	PO 2, PO 4
			3.5: Identify the various specializations of journalism.	PO 2, PO 4
			3.6: Identify the various specializations of journalistic and writing styles.	PO 2, PO 4
2	Media and Communication (JORA-CC-2-4-TH+P)	CO-4	4.1: Define communication, its processes, forms, and levels.	PO 1, PO 4
			4.2: Infer the role of media in a democracy.	PO 1, PO 4
			4.3: Identify different types of journalism, beats and ethics.	PO 2, PO 3
			4.4: Write various news articles.	PO 4
			4.5: Compose a tabloid journal.	PO 2, PO 7
3	Communication, Media, Society (JORA-CC-3-5-TH+TU)	CO-5	5.1: Define significant communication models.	PO 1, PO 2
			5.2: Define significant communication theories.	PO 1, PO 2
			5.3: Articulate views on media-society relation.	PO 1, PO 2
			5.4: Correlate media functioning with social reality.	PO 1, PO 2

	Media and Cultural Studies (JORA-CC-3-6-TH+TU)	CO-6	6.1: Define key concepts of media, culture, and society.	PO 1, PO 2, PO 6
			6.2: Define culture, its types, and its relation to socio-economic power structure.	PO 1, PO 2, PO 6
			6.3: Define the inter relation between communication and development.	PO 1, PO 2, PO 5
			6.4: Compare various ideas of cultural studies.	PO 1, PO 2, PO 5
	Introduction to Radio (JORA-CC-3-7-TH+P)	CO-7	7.1: Outline the historical development of AIR.	PO 6
			7.2: Summarize the structure and functioning of AIR.	PO 6
			7.3: Categorize the various types of radio programmes.	PO 6, PO 7
			7.4: Manage radio programme production.	PO 6, PO 7
	Radio Writings & Presentation (JORA-SEC-A-3-1-TH)	CO-8	8.1: Break down stages of radio programme production.	PO 6, PO 7
			8.2: Organize a radio newsroom setup.	PO 6, PO 7
4	Introduction to Television (JORA-CC-4-8-TH+P)	CO-9	9.1: Outline the historical development of Television.	PO 2, PO 6
			9.2: Categorize the various television programme formats and TV news techniques.	PO 6, PO 7

			9.3: Contrast between various types of television programmes.	PO 6, PO 7
			9.4: Manage television programme production.	PO 6, PO 7
			9.5: Manage Documentary Film production skills.	PO 6, PO 7
			9.6: Manage Feature Film production skills.	PO 6, PO 7
	Film Theories and Production (JORA-CC-4-9-TH+TU)	CC-10	10.1: Outline the history of Indian and global mainstream cinema.	PO 1, PO 6
			10.2: Outline an overview of renowned Indian filmmakers and various film genres.	PO 1, PO 6
			10.3: Break down stages of film production.	PO 6, PO 7
			10.4: Outline the history of Indian and global documentary film and identifying prominent international filmmakers.	PO 6
	Media Management, Press Laws (JORA-CC-4-10-TH+TU)	CC-11	11.1: Define key concepts of media management.	PO 5, PO 6
			11.2: Summarize the mechanism of media functioning in India.	PO 3
			11.3: Identify key issues related to press/media freedom in India.	PO 3, PO 6

			11.4: Identify the significant media laws in India.	PO 3, PO 6
	Feature Film Production (JORA-SEC-B-4-2)	CO-12	12.1: Define key concepts of feature film production.	PO 2, PO 7
			12.2: Display feature film production skills.	PO 2, PO 7
5	Introduction to New Media (JORA-CC-5-11-TH+P)	CC-13	13.1: Define key concepts and theories of new media.	PO 2, PO 7
			13.2: Outline the history, growth and development of web journalism.	PO 2, PO 7
			13.3: Assess the security and ethical challenges in online journalism.	PO 3
			13.4: Manage online content and platforms.	PO 2, PO 7
			13.5: Compose online stories, blogging and blog promotion.	PO 2, PO 7
	Development Communication (JORA-CC-5-12-TH+TU)	CC-14	14.1: Define key concepts related to development.	PO 1, PO 5
			14.2: Define key concepts of development communication, identify approaches, paradigms and models of development communication.	PO 1, PO 5
			14.3: Deconstruct the role of media in development.	PO 1, PO 5

			14.4: Reflect on efficacy of development communication programmes and government schemes in India.	PO 1, PO 5
	Media, Human Rights, Gender, Environment Studies (JORA-DSE-A-5-2-TH+TU)	CO-15	15.1: Summarize key concepts related to human rights.	PO 3, PO 6
			15.2: Summarize the structure and functioning of key human rights organizations.	PO 3, PO 6
			15.3: Assess the social reality of media exposure and gender construction.	PO 1, PO 3, PO 6
			15.4: Reflect on human rights institutions and issues and violations of human rights.	PO 3, PO 6
	Communication Research (JORA-DSE-B-5-2-TH+TU)	CO-16	16.1: Summarize the key concepts of communication research.	PO 1, PO 6
			16.2: Summarize various methods of media research.	PO 1, PO 6
			16.3: Compare different data collection methods.	PO 1, PO 6
			16.4: Infer data analysis techniques and ethical perspectives.	PO 1, PO 6
6	Advertising (JORA-CC-6-13-TH+P)	CO-17	17.1: Summarize key concepts of advertising.	PO 2, PO 6
			17.2: Explain practical aspects of advertising.	PO 2, PO 3, PO 6

			17.3: Appraise the functioning of ad agencies.	PO 2, PO 6
			17.4: Compose various types of advertisements.	PO 2, PO 6
	Public Relations (JORA-CC-6-14-TH+TU)	CO-18	18.1: Summarize the key concepts of Public Relations.	PO 4, PO 6
			18.2: Summarize key PR theories and principles.	PO 1, PO 4, PO 6
			18.3: Determine various tools of PR.	PO 4, PO 6
			18.4: Examine issues of PR and crisis.	PO 4, PO 6
	Dissertation with Presentation JORA-DSE-A-6-3-TH+TU	CO-19	19.5: Write a micro research project.	PO 1, PO 7
	Folk and Community Media (JORA-DSE-B-6-3-TH+TU)	CO-20	20.1: Summarize key concepts of culture and tradition.	PO 6
			20.2: Appraise impacts of Five-Year Plans in fulfilment of India's rural development.	PO 4
			20.3: Summarize the characteristics of community and folk media forms in West Bengal.	PO 4, PO 6
			20.4: Summarize the various forms of folk media in India and West Bengal.	PO 4, PO 6

JOURNALISM & MASS COMMUNICATION GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Journalism and Mass Communication as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
1	Basics of Journalism (Generic Elective 1)	CO-1	1.1: Summarize key concepts of news and duties, qualities and responsibilities of major news professionals.	PO 2
			1.2: Highlight the positions, qualities, duties and responsibilities of various news professionals. Summarize the structure and language of news writing.	PO 2
			1.3: Infer the key principles of news editing and photojournalism.	PO 6, PO 7
			1.4: Summarize the working of global news agencies. Identify different types of reporting.	PO 6, PO 7
2	Media Management (Generic Elective 2)	CO-2	2.1: Summarize the key concepts of media management.	PO 6
			2.2: Summarize the key factors of newspaper organization management. Infer the role of the circulation department of a newspaper.	PO 6

			2.3: Infer the role of the advertising department of a newspaper. Identify the different types of newspaper advertisement.	PO 6
			2.4: Outline the history of newspaper printing and public service broadcasting in India.	PO 6
3	Advertising and Public Relations (Generic Elective 3)	CO-3	3.1: Summarize key concepts of advertising. Identifying different advertisement types and mediums.	PO 6
			3.2: Summarize the structure and functioning of advertising agencies. Infer the basic principles of ad copy writing.	PO 6
			3.3: Summarize the key concepts of Public Relations. Determine various tools of PR.	PO 6
			3.4: Write news report with suitable headlines and intros. Compose a display advertisement.	PO 6
4	Press Laws and Indian Constitution (Generic Elective 4)	CO-4	4.1: Summarize the salient features of Indian Constitution.	PO 1, PO 6
			4.2: Summarize the significant national policies of India.	PO 1, PO 6
			4.3: Identify the significant media laws in India.	PO 3, PO 6
			4.4: Outline the growth, development, ethical challenges, prospects of journalism in post-independent India.	PO 3, PO 6

PROGRAM SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Journalism and Mass Communication the student will be able to:

PSO-1: Gain fundamental knowledge of communication theory and practice.

PSO-2: Relate the knowledge of theoretical foundations with practical application in different media forms such as newspaper, television, radio etc.

PSO-3: Solve practical concerns of actual working in different media organizations such as newspaper, television, radio etc.

PSO-4: Plan and practise the techniques of professional communication practices such as advertising and public relations.

PSO-5: Formulate means of effective and ethical communication practices contributing to social and national development.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF POLITICAL SCIENCE**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF POLITICAL SCIENCE (HONOURS)

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Political Science the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Applying knowledge of the political domain, concepts and the relevant context based on approaches and political understanding.
PO 2	Effective Communication	Develop theoretical understanding and becoming adept in communicating ideas and arguments with clarity.
PO 3	Effective Citizenship	Imbibing and inculcating the values of good citizenship through familiarization with the principles of constitution, public policies, administrative structures and departments resulting into the development of a politically active and socially conscious citizens.
PO 4	Social interaction	Familiarity with political thought and theory leading to appreciation of multiple perspectives and develop the sense of culture of the past and the present based on traditions, ideas and other cultural connotations. Develop individual and team work by functioning effectively as an individual or as a member in a group in order to carry out group activities.
PO 5	Ethics	Knowledge of political thought and theory imparts understanding of ethics and values leading to the development of moral consciousness.

PO 6	Environment and Sustainability	Finding sustainable solutions for environmental issues and related challenges and its impact on the political systems.
PO 7	Self-directed and Lifelong learning	Should be able to understand the politics of everyday and relate it with contemporary narratives and policies.

DEPARTMENT OF POLITICAL SCIENCE (HONOURS)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Political Science as an Honours subject, the student will be able to:

Semester	Course Code and Name	CO Number	Course Outcomes	Relevant POs
I	Understanding Political Theory: Concepts (PLS-A-CC-1-1-TH+TU)	CO-1	1.1: Explaining the concept of politics and different approaches to the study of Political Science 1.2: Outlining the origin, nature, functions and theories of state 1.3: Interpreting the concepts of law, liberty, equality, rights, justice, freedom, authoritarianism and citizenship 1.4: Classifying David Held's theories of democracy.	PO 2

	Understanding Political Theory: Approaches and Debates (PLS-A-CC-1-2-TH+TU)	CO-2	<p>2.1: Explaining the different approaches to the study of politics.</p> <p>2.2: Interpreting the Marxist approach to politics.</p> <p>2.3: Summarizing the major debates in Marxism.</p>	PO 2
II	Constitutional Government in India (PLS-A-CC-2-3-TH+TU)	CO-3	<p>3.1: Examining the different aspects of the Indian Constitution, Fundamental Rights and Fundamental Duties.</p> <p>3.2: Comparing and contrasting the concepts of Executive, Legislature both at the Union and State level and aspects of Centre –State relations.</p> <p>3.3 Analyzing the judiciary and amendment processes.</p>	PO 1, PO 3, PO 6
	Politics in India: Structures and Processes (PLS-A-CC-2-4-TH+TU)	CO-4	<p>4.1: Relationship between realities of politics and study of the structures involved in the study of politics in India.</p> <p>4.2: Inspecting the role of religion, language, caste, tribe in Indian politics.</p> <p>4.3: Examining the significance of the various movements in India- Women, Human Rights and Environmental.</p>	PO 1, PO 3, PO 6

III	Indian Political Thought I (PLS-A-CC-3-5-TH+TU)	CO-5	5.1: Illustrating the evolution of Indian Political Thought from ancient to the modern period. 5.2: Summarizing key features of the ancient political thought. 5.3: Explaining the political thought of medieval era. 5.4: Appraising the nationalist thoughts of Indian thinkers.	PO 5
	Comparative Government And Politics (PLS-A-CC-3-6-TH+TU)	CO-6	6.1: Examining the nature and scope of Comparative Politics. 6.3: Categorizing the approaches and models of comparison. 6.3: Comparing and contrasting the study of the executive, legislature and judiciary of UK USA, France, Russia, PRC, Bangladesh.	PO 3, PO 6
	Perspectives on International Relations (PLS-A-CC-3-7-TH+TU)	CO-7	7.1: Explaining the key features of International Relations theory. 7.2: Illustrating the impact of the issues like environment, development, terrorism and migration on the contemporary international structure. 7.3: Summarizing the important aspects of the India's foreign policy. 7.4: Interpreting India's bilateral relations with US and China.	PO 7

	Democratic Awareness Through Legal Literacy [PLS-A-SEC-3-A (1)- TH]	CO-8	<p>8.1: Appraising the laws relating to criminal jurisdiction and provisions relating to filing a FIR, IPC, laws relating to dowry, sexual harassment and violence against women.</p> <p>8.2: Assessing the laws relating to consumer rights.</p> <p>8.3: Criticizing the laws related to cybercrimes and anti-terrorist laws.</p>	PO 3, PO 7
IV	Indian Political Thought II (PLS-A-CC-4-8- TH+TU)	CO-9	<p>9.1: Explaining the political thought of MN Roy, Nehru, Bose, Savarkar and Jinnah.</p> <p>9.2: Interpreting the socialist ideas Narendra Deva, Ram Manohar Lohia and JP Narayan.</p> <p>9.3: Assessing the significance of the ideas of colonialism, nationalism and social justice.</p>	PO 5
	Global Politics Since 1945 (PLS-A-CC-4-9- TH+TU)	CO-10	<p>10.1: Outlining the phases of Cold War phases and understanding the post-Cold war era.</p> <p>10.2: Interpreting the developments in European politics with special reference to European Union and East European ethno nationalism.</p>	PO 6, PO 7

			<p>10.3: Illustrating the concepts of major institutions of global and regional governance.</p> <p>10.4: Interpreting the nuances of India's relations with her neighbours.</p> <p>10.5: Assessing the working of the UNO and its organs.</p>	
	<p>Western Political Thought and Theory I (PLS-A-CC-4-10-TH+TU)</p>	CO-11	<p>11.1: Explaining the features of Western Political Thought with a focus on Greek thinkers.</p> <p>11.2: Justifying the contributions of Roman Political Thought with emphasis on Roman Law.</p> <p>11.3: Interpreting the features of medieval political thought, Renaissance, Reformation.</p> <p>11.4: Criticizing the contributions of Machiavelli, Bodin, Hobbes, Locke, Rousseau.</p>	PO 5
	<p>Elementary Aspects Of Social Research [PLS-A-SEC-4-B(2)-TH]</p>	CO-12	<p>12.1: Explaining the fundamental issues and concepts in research methodology.</p> <p>12.2: Assessing research designs and sources and techniques of data collection.</p> <p>12.3: Examining the different modes, methods, techniques and uses of participatory fields research, survey method and aggregate data analysis.</p>	PO 1, PO 2, PO 7

V	Western Political Thought and Theory II (PLS-A-CC-5-11-TH+TU)	CO-13	13.1: Interpreting the contributions of Bentham, John Stuart Mill, Hegel and TH Green. 13.2: Criticizing the varieties of non-Marxist socialism.	PO 5
	Political Sociology (PLS-A-CC-5-12-TH+TU)	CO-14	14.1: Outlining the emergence of Political Sociology. 14.2 Explaining the nature, types of political culture, political socialization, political participation, political development and political communication. 14.3 Interpreting the social issues impacting the course of politics.	PO 6, PO 7
	Gender and Politics [PLS-A-DSE-5-A (1)-TH+TU]	CO-15	15.1: Identifying the interrelationship between gender and politics. 15.2: Developing the knowledge about the history of women's movements in India. 15.3: Identifying the concepts and different issues involved in the study of interrelationship between gender and politics.	PO 7
	Indian Foreign Policy in a Globalizing World [PLS-A-DSE –5-B (1)-TH+TU]	CO-16	16.1: Developing a comprehensive understanding of India's foreign policy from post-colonial state to an aspiring global power.	PO 1, PO 7

			<p>16.2: Constructing a critical thinking on India's relations with USA, USSR/Russia, China.</p> <p>16.3: Developing a critical insight into India's strategies in South Asia and prospects and opportunities of India in the multipolar world.</p>	
VI	Public Administration- Concepts and Perspectives (PLS-A-CC-6-13-TH+TU)	CO-17	<p>17.1: Explaining the nature, scope and evolution of Public Administration.</p> <p>17.2: Illustrating the major concepts in Public Administration.</p> <p>17.3: Interpreting the challenges in the discipline of Public Administration like New Public Administration, Comparative Public Administration.</p> <p>17.4: Comparing the Weberian and Marxian theory of Bureaucracy.</p>	PO 7
	Administration and Public Policy in India (PLS-A-CC-6-14-TH+TU)	CO-18	<p>18.1: Explaining the continuity and change in the Indian Administration.</p> <p>18.2: Comparing the different administrative organisations of Union and State Government.</p> <p>18.3: Classifying the institutions of local self-government in India.</p>	PO 7

	Understanding Global Politics [PLS-A-DSE- 6-A (4)-TH+TU]	CO-19	19.1: Developing the knowledge about the various nuances of the contemporary global political system. 19.2: Identifying the features of sovereign state system, challenges faced by sovereign states, role of transnational actors. 19.3: Developing an insight into the functioning of Bretton Woods system and WTO. 19.4: Constructing a critical insight of the impact of global inequalities, identity, culture, violence, war and conflict in international politics. 19.5: Identifying the trends of environmental politics and the role of civil society.	PO 1, PO 6, PO 7
	Human Rights in a Comparative Perspective [PLS-A-DSE-6-B (1)-TH+TU]	CO-20	20.1: Developing knowledge about human rights. 20.2: Constructing an insight into the rights of the national constitutions of South Africa and India. 20.3: Identifying the different issues like torture in USA and India, surveillance and censorship in China and India, terrorism and insecurity of minorities in USA and India.	PO 1, PO 3, PO 7

			<p>20.4: Identifying the structural violence with regards to caste and race in India and South Africa.</p> <p>20.5: Developing the knowledge about the gender and violence in the context of India and Pakistan and land questions in Australia and India.</p>	
--	--	--	--	--

POLITICAL SCIENCE GENERIC ELECTIVE

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in Political Science as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Introduction to Political Theory (PLS-G-CC-1-1-TH+TU)	CO-1	<p>1.1: Defining the nature and scope of political science.</p> <p>1.2: Listing the different approaches to the study of politics and theories of state.</p> <p>1.3: Defining the foundational concepts of law, rights, liberty, equality, nationalism, internationalism, democracy.</p> <p>1.4: Defining the Marxist approach to politics.</p>	PO 2

II	Comparative Government and Politics (PLS-G-CC-2-2-TH+TU)	CO-2	2.1: Defining diverse political systems 2.2: Listing the essential features of the constitution of USA, UK, PRC, Bangladesh, France, Switzerland.	PO 3, PO 7
III	Government And Politics in India (PLS-G-CC-3-3-TH+TU)	CO-3	3.1: Recalling the evolution of the constitution of India. 3.2: Defining the Fundamental Rights and Directive Principles enshrined in the Constitution of India. 3.3: Defining nature of Indian Federalism. 3.4: Defining the role, position and functioning of Union Executive, Union Legislature, State Executive, State Legislature and Judiciary. 3.5: Relating the different issues concerning the realities of politics and also knowledge about the varieties of social and political movements in India.	PO 3, PO 7
IV	International Relations (PLS-G-CC-4-4-TH+TU)	CO-4	4.1: Defining international relations as a field of study and the different approaches to the study. 4.2: Recalling the different phases of Cold War. 4.3: Relating the post-cold war situation and its impact on International Relations. 4.4: Listing the basic determinants of India's foreign policy and prospects and challenges for the emerging India.	PO 2, PO 7

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Political Science the student will be able to:

- PSO-1:** Gain insight into the basic premises of political theories processes and institutions.
- PSO-2:** Elucidate the relations between political functionaries, thinkers, ideas and narratives to create linkages with contemporary society.
- PSO-3:** Use the concepts of socio-political and cultural development of society with intra- national and international systems at work.
- PSO-4:** Compare and contrast the historical timeline of political events both by means of formal and informal relationships.
- PSO-5:** Appraise both current and historical political situations and the effects of identities, processes and institutions on the socio-political and economic systems.
- PSO-6:** Formulate arguments and develop ideas about contemporary political systems and its way of functioning leading to employability in sectors like public policy, administration and academics.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF SOCIOLOGY**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA

RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF SOCIOLOGY**PROGRAMME OUTCOMES (PO)**

Upon completion of the undergraduate course in Sociology the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Apply sociological knowledge in critically formulating, analysing and solving problems of society.
PO 2	Effective Communication	Communicate social ideas clearly and effectively by using sociological terminologies.
PO 3	Ethics	Develop themselves as ethical, sociologically sensitive and responsible citizens of society.
PO 4	Social Interaction	Identify and describe the underlying principles behind human interaction and social reality relevant to academia, industry and government.

PO 5	Environment and Sustainability	Understand and appreciate the role of Sociology in finding sustainable solutions for environmental issues and related challenges.
PO 6	Self Directed and Lifelong Learning	Develop among themselves the independent learning ability of new sociological ideas and inculcate the habit of lifelong learning and debunking social realities.
PO 7	Individual and teamwork	Develop individual and teamwork by functioning effectively as an individual or as a member of a group in field work- based research.
PO 8	Context Specific Understanding	Develop interest for context specific empathetic understanding to allow divergences to co-exist peacefully
PO 9	Sociological Imagination	Gain insight into sociological perspectives for in-depth understanding.

DEPARTMENT OF SOCIOLOGY**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Sociology as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	Introductory Sociology-I (SOC-A-CC-1- 1-TH&TU)	CO-1	1.1: Develop deep insight into Sociology as a discipline and interpret its role in society.	PO 6, PO 9
			1.2: Explain the development of Sociology and its relationship with science and common sense.	PO 6
			1.3: Grasp elementary knowledge of social institutions and memorize the basic concepts of social science.	PO 6
			1.4: Interpret sociology and personality development and explain how various ideas of culture and society exist.	PO 2, PO 4

			1.5: Compare Sociology with other social sciences (Social Anthropology, Psychology and History) as well as articulate the interrelation between the different social sciences.	PO 6
			1.6: Classify and compare the role of social institutions in relation to individuals and social interaction.	PO 4
			1.7: Classify social regulation and its impact by explaining the role of social institutions.	PO 4
			1.8: Debate the influence of social norms with regard to its adherence and non-adherence in everyday life.	PO 1, PO 6
			1.9: Trace social development and its consequent changes in the social reality by interpreting the dynamic nature of society.	PO 2, PO 4, PO 6

	Sociology of India-I (SOC-A-CC-1- 2-TH&TU)	CO-2	2.1: Classify the colonial, nationalist and subaltern perspectives of understanding Indian society by interpreting the distinct viewpoints of Indian society.	PO 8
			2.2: Discuss the role and impact of the caste system in India.	PO 6, PO 8
			2.3: Discuss the rural class structure with regard to the peasant society in India.	PO 6
			2.4: Classify the distinct characteristics of the tribal communities in India by focusing on its spatial distribution.	PO 5, PO 6
			2.5: Explain the Indian rural society by interpreting self-sufficient village economy.	PO 8
			2.6: Trace the types of kinship in India by explaining the family system.	PO 6, PO 8

			2.7: Compare the role of different religious values in Indian society.	PO 2, PO 8
II	Introductory Sociology- II (SOC-A-CC-2-3-TH&TU)	CO-3	3.1: Interpret the impact of different sociological perspectives in understanding society.	PO 9
			3.2: Compare and analyze the functionalist theories of Parsons and Merton towards critical evaluation of society.	PO 6
			3.3: Interpret the contribution and methodology of Max Weber in the development of Sociology.	PO 4, PO 6, PO 9
			3.4: Illustrate the Conflict theories of Dahrendorf and Coser and critically analyse the same.	PO 4, PO 6
			3.5: Trace the contribution and theory of Levi Strauss in structural analysis of society.	PO 4, PO 6

			3.6: Develop Feminism as a sociological perspective and critically discuss and debunk the accepted social reality.	PO 2, PO 6, PO 8, PO 9
	Sociology of India –II (SOC-A-CC-2-4-TH&TU)	CO-4	4.1: Grasp the dimensions of Hindu Society by focussing on Gandhi and Ambedkar’s view on Indian society.	PO 6, PO 8
			4.2: Explain the study of Indian society with special emphasis on Indology and Ethnography	PO 6, PO 8
			4.3: Explain the changes in the caste ridden society and upliftment of the Dalits.	PO 4, PO 6
			4.4: Demonstrate the importance of social movement with special reference to women, peasant, and racial groups.	PO 3, PO 4, PO 6, PO 9
			4.5: Compare the characteristic features of communalism and fundamentalism in India.	PO 3, PO 6, PO 8

			4.6: Interpret and compare the significance of nationalist and secular ideologies in understanding Indian societies.	PO 3, PO 6, PO 8, PO 9
III	Political Sociology (SOC-A-CC-3- 5-TH&TU)	CO-5	5.1: Debate over the importance of political affairs in India.	PO 2, PO 4, PO 6
			5.2: Demonstrate the importance of social control in regulating the commands of political authority in India.	PO 2, PO 4, PO 8
			5.3: Interpret the interrelationship between state and public administration in society.	PO 3, PO 7
			5.4: Compare the various types of roles played by different categories of power elites.	PO 1, PO 3, PO 7
			5.5: Classify the different types of political and administrative system.	PO 4, PO 8
			5.6: Trace the power dynamics in India across several social institution.	PO 1, PO 8

	Sociology of Religion (SOC-A-CC-3-6-TH&TU)	CO-6	6.1: Interpret the contributions of Weber, Durkheim and Marx in Sociology of Religion.	PO 6, PO 9
			6.2: Trace the importance of religion in our day-to-day lives and explain its influences.	PO 3, PO 6, PO 9
			6.3: Explain the different concepts of religion and religious beliefs.	PO 6, PO 8, PO 9
			6.4: Classify religion across temporal spatial dimensions.	PO 6
			6.5: Debate over religious fanaticism, secularism and different perspectives of religion.	PO 1, PO 6, PO 8, PO 9
			6.6: Explain the diversity in religious practices and different viewpoints of various religions.	PO 6, PO 8, PO 9

	Sociology of Gender and Sexuality (SOC-A-CC-3-7-TH&TU)	CO-7	7.1: Interpret the significance of sociological analysis of gender.	PO 6, PO 9, PO 8
			7.2: Compare the different dimensions of studying gender, sexuality and gender socialization.	PO 2, PO 3, PO 6, PO 8, PO 9
			7.3: Compare the dimensions of gender stratification.	PO 4, PO 9
			7.4: Explain the role of social institutions on gender discrimination.	PO 1, PO 6, PO 9
			7.5: Debate over the gender continuum and explain the various categories within gender identity.	PO 4, PO 6
			7.6: Classify the nature and forms of gender based violence.	PO 1, PO 2, PO 9
			7.7: Explain the discrimination on gender-based power relations.	PO 3, PO 4, PO 7

	Gender Sensitization (SOC-A-SEC- 3-A(2)-TH)	CO-8	8.1: Interpret concepts of gender and sexuality.	PO 6, PO 9
			8.2: Compare and classify the ideas on masculinity, femininity, gender dichotomy stereotypes and sex gender nexus.	PO 1, PO 4, PO 6, PO 9
			8.3: Recall views on gender hierarchy and critically deconstruct gender.	PO 4, PO 6, PO 9
			8.4: Explain the LGBT crisis and gender performativity.	PO 1, PO 4, PO 6, PO 9
			8.5: Debate on female infanticide and marital violence as contemporary gender issues.	PO 3, PO 4, PO 6
			8.6: Trace the different laws with regard to violence against women and other gender protective policies.	PO 3, PO 8, PO 9

			8.7: Discuss laws against women harassment at workplace.	PO 3, PO 8
IV	Economic Sociology (SOC-A-CC-4-8-TH&TU)	CO-9	9.1: Trace the conceptualization and Dimensions of economic sociology and its various dimensions.	PO 6, PO 8
			9.2: Explain the development of economic sociology and its sub-disciplines.	PO 6, PO 9
			9.3: Compare the different types of economic relationships and interactions.	PO 4, PO 9
			9.4: Classify different types of economic relationships across different societies.	PO 2, PO 4
			9.5: Compare the different economic ideals and ideologies.	PO 1, PO 3, PO 4
			9.6: Illustrate the modern economic systems and the relationship between globalization and development.	PO 5, PO 6, PO 8

	Population Studies (SOC-A-CC-4-9-TH&TU)	CO-10	10.1: Explain the relation between population and sociology.	PO 5, PO 9
			10.2: Compare and classify the different theoretical perspectives on population (Malthus, Marx and demographic transition).	PO 1, PO 8
			10.3: Classify the changes in population with reference to its social structure and its impact on population.	PO 5, PO 9
			10.4: Illustrate the different features and social indicators on fertility and its impact on family.	PO 5, PO 8
			10.5: Interpret the impact of advanced technologies on fertility and compare the different techniques of reproduction.	PO 2, PO 4, PO 8
			10.6: Recognize the significance of population mobility.	PO 3, PO 6, PO 8

			10.7: Interpret the impact of population on development and categorize its positive and negative factors.	PO 5, PO 6, PO 8
			10.8: Recall and interpret the different population measures as issued by Government of India.	PO 4, PO 5, PO 6
	Social Stratification (SOC-A-CC-4-10-TH&TU)	CO-11	11.1: Explain the concepts of social ranking and hierarchy.	PO 6, PO 8
			11.2: Compare the different theories of Marx, Weber and Parsons on social hierarchy.	PO 6, PO 8, PO 9
			11.3: Classify the different axes of stratification as aspects of social hierarchy.	PO 4, PO 9
			11.4: Explain the institutionalized practices of social movement and its consequences.	PO 3, PO 6, PO 8

	Theory and practice of Development [SOC-A-SEC-4-B(2)-TH]	CO-12	12.1: Define basic concepts of development and conceptualize its significance.	PO 6
			12.2: Discuss the ideas and theories on development, post-development and sustainability.	PO 2, PO 4, PO 5
			12.3: Interpret the relationship between public-partnership and economic growth and development.	PO 8
			12.4: Explain the relationship between social service, welfare and development.	PO 2, PO 4
			12.5: Interpret the contributions of development in GAD, NGO, CSR.	PO 8
			12.6: Explain the role of capability, dignity and wellbeing in development.	PO 3, PO 4, PO 9
			12.7: Explain roles of local governments and national policies in development and decentralization in India.	PO 2, PO 3, PO 5, PO 6

V	Sociological Thinker I (SOC-A-CC-5- 11-TH&TU)	CO-13	13.1: Explain the origin of the discipline of sociology and discuss the contributions of enlightenment and revolutions.	PO 6, PO 9
			13.2: Debate over the Sociological contributions of Montesquieu, Saint Simon, Auguste Comte.	PO 6, PO 9
			13.3: Discuss Marxian ideas of materialism and capitalism and his contribution to sociology.	PO 6, PO 9
			13.4: Interpret Weberian contribution in sociology.	PO 6, PO 9
			13.5: Discuss Durkheim and his theoretical contribution to Sociology.	PO 6, PO 9

	Research Methods-I (SOC-A-CC-5- 12-TH&TU)	CO-14	14.1: Explain the significance of research and its aims in sociology.	PO 6, PO 9
			14.2: Compare the interrelation between theory and research.	PO 3, PO 6, PO 8
			14.3: Discuss the importance of hypothesis and research design in social research.	PO 6, PO 9
			14.4: Interpret and compare the uses of different methodologies in social research.	PO 3, PO 6, PO 9
			14.5: Trace the different types of data for conducting research.	PO 1, PO 3, PO 4
			14.6: Clarify different ways of collecting and interpreting data.	PO 3, PO 4, PO 8
			14.7: Trace the qualitative and quantitative methods of data collection.	PO 1, PO 3, PO 8

			14.8: Discuss the techniques of writing research proposal.	PO 2, PO 3, PO 4
	Sociology of Work and Industry [SOC-A-DSE- 5-A(2)- TH&TU]	CO-15	15.1: Illustrate and discuss the working of an industrial society.	PO 2, PO 4, PO 8
			15.2: Explain the perspectives of sociology of work and post-industrial society.	PO 2, PO 4, PO 8
			15.3: Discuss the issues concerning Labour and explain the interrelationship between alienation and work.	PO 2, PO 3, PO 8
			15.4: Recognize the nature of Gender in industry and grasp the work culture through the lens of gender.	PO 1, PO 2, PO 3, PO 6, PO 7
			15.5: Classify the various sectors in industrial zones and their work culture in developing nations.	PO 2, PO 3, PO 8

			15.6: Articulate the vulnerable consequences in industries and identify the risks and susceptibility in the formal and informal work sectors.	PO 4
	Indian Sociological Traditions [SOC-A-DSE-5-B(1)-TH&TU]	CO-16	16.1: Discuss the sociological contributions of G.S. Ghurye on caste, race and civilization.	PO 6, PO 9
			16.2: Explain Radhakamal Mukerjee's perspectives on social ecology.	PO 9
			16.3: Interpret D.P. Mukherji's conceptualisation on tradition, modernity and middle class.	PO 9
			16.4: Discuss the contribution of Verrier Elwin's views on Indian tribes.	PO 6, PO 9
			16.5: Explain M.N. Srinivas' ideas on Social Change.	PO 9

			16.6: Demonstrate Irawati Karve's perspectives on Kinship.	PO 1, PO 9
			16.7: Interpret Leela Dube's views on gender.	PO 6, PO 9
VI	Sociological Thinkers-II (SOC-A-CC-6-13-TH&TU)	CO-17	17.1: Interpret and classify the different theories of post classical studies and their contribution to sociology.	PO 6, PO 9
			17.2: Explain Talcott Parson's contributions to sociology.	PO 6, PO 9
			17.3: Demonstrate Levi Strauss' perspectives on structuralism.	PO 6, PO 9
			17.4: Interpret the theoretical perspectives of Goffman and Mead in the study of symbolic interactionism.	PO 4, PO 6, PO 9
			17.5: Interpret the contributions of Berger and Luckmann about the social construction of reality.	PO 4, PO 6, PO 9

			17.6: Debate over the viewpoints of Frankfurt School in the study of critical sociology.	PO 3, PO 5, PO 6, PO 9
	Research Methods-II (SOC-A-CC-6- 14-TH&TU)	CO-18	18.1: Discuss and conceptualize the process and designs of social research.	PO 2, PO 3, PO 7, PO 8, PO 9
			18.2: Grasp the necessity, typologies and utilities of sampling.	PO 2, PO 3, PO 8
			18.3: Trace the importance of Field in social research.	PO 8, PO 9
			18.4: Explain the types of measurement and variables in research.	PO 2, PO 4, PO 8, PO 9
			18.5: Classify graphical representation and frequencies to understand the usage of statistics in research.	PO 1, PO 2, PO 6, PO 8
			18.6: Discuss central tendency and its significance in research.	PO 6, PO 8

			18.7: Explain standard deviation and dispersion in social research.	PO 2, PO 3, PO 4
			18.8: Explain the various stages of report, writing taking into account field study, bibliography, citation etc.	PO 6, PO 7, PO 8, PO 9
	Environmental Sociology [SOC-A-DSE- 6-A(3)- TH&TU]	CO-19	19.1: Explain the various perspectives necessary for the development of environmental sociology.	PO 3, PO 4, PO 5
			19.2: Debate and articulate the consequences of development related to environment.	PO 1, PO 5
			19.3: Discuss and conceptualise society and environment through different ideologies.	PO 5, PO 8, PO 9
			19.4: Illustrate and interpret the ideology of feminism through an ecological lens.	PO 2, PO 3, PO 5, PO 8

			19.5: Identify and summarize the different environmental movements in India.	PO 3, PO 5, PO 8
			19.6: Debate on the major environmental politics and it's effect on society.	PO 3, PO 5, PO 8
	Project: Field work and Dissertation [SOC-A-DSE-6-B(4)-TH&TU]	CO-20	20.1: Design a thesis by organizing and assembling field notes and interpret the relationship between knowledge and reality.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9

SOCIOLOGY GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Sociology as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	Introduction to Sociology (SOC-G- CC/GE-1-1- TH&TU)	CO-1	1.1: Explain the development and different aspects of Sociology as a discipline.	PO 6, PO 9
			1.2: Compare the relationship between Sociology and the concept of Common Sense.	PO 6, PO 9
			1.3: Discuss the relationship between Sociology vis a vis Anthropology, Psychology and History.	PO 6, PO 9
			1.4: Explain the basic concepts and various social institutions.	PO 6, PO 9

			1.5: Classify and discuss the different social transformations in society.	PO 6, PO 9
II	Sociology of India (SOC-G-CC/GE-2-2-TH&TU)	CO-2	2.1: Discuss different dimensions of India as a Plural Society and interpret the factors of national integration.	PO 3, PO 6
			2.2: Discuss the changes in society through the concept of caste and class.	PO 3, PO 4, PO 8
			2.3: Interpret the features and lifestyles of tribal communities in India.	PO 3, PO 4, PO 8
			2.4: Trace the significance of community living and discuss the structure of familial relationships.	PO 3, PO 4, PO 6
			2.5: Compare and illustrate various types of Social Movements.	PO 3, PO 6, PO 8
			2.6: Discuss the factors affecting inclusivity of Indian society and debate over the communal problems and the ideas of a secular state.	PO 1, PO 4, PO 6, PO 8

III	Sociological Theories (SOC-G-CC/GE-3-3-TH&TU)	CO-3	3.1: Interpret the history of Sociology as a discipline.	PO 8, PO 9
			3.2: Explain Marxist ideology and the emergence of capitalist mode of economy.	PO 6, PO 8, PO 9
			3.3: Discuss the various concepts introduced by Durkheim.	PO 8, PO 9
			3.4: Interpret Weberian concepts and its sociological significance.	PO 8, PO 9
IV	Methods of Sociological Enquiry (SOC-G-CC/GE-4-4-TH&TU)	CO-4	4.1: Illustrate concepts, variables, propositions and its utilities in social research.	PO 6, PO 9
			4.2: Discuss the importance of hypothesis and research design in social research.	PO 6, PO 9
			4.3: Classify population sampling for research.	PO 3, PO 8

			4.4: Interpret and exemplify the uses of different research methodologies in social research.	PO 3, PO 9
			4.5: Discuss and compare the relationship between theory and practice in social research.	PO 3, PO 8, PO 9
			4.6: Recognize the tools and techniques of data collection and analysis in social research.	PO 3, PO 8, PO 9

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Sociology the student will be able to:

PSO-1: Develop skills in social research methodologies and gain insight into its practical applications.

PSO-2: Acquire sociological understanding which will help in accommodating and building national integrity and diversities.

PSO-3: Develop “sociological imagination” to analyse everyday issues empathetically.

PSO-4: Gain insight into research methods to conduct dissertation and fieldwork.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF BENGALI**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF BENGALI
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Bengali the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Apply the knowledge of literature to everyday life and social crisis to arrive at a more holistic vision of the world around us.
PO 2	Effective Communication	Communicate the ideas clearly and effectively to the immediate community and larger social groups for solving problems and respecting the diversity of our cultural ethos.
PO 3	Social Interaction	Identify and describe the underlying principles of social theories through a clear grasp of literary knowledge.
PO 4	Effective Citizenship	Appreciate the importance of the historical and cultural discourses in construction of identities and biases to be conscious about equitable citizenship.
PO 5	Ethics	Understand the importance of moral and social responsibility realised through the literary interactions with the members of community.
PO 6	Environment and Sustainability	Understand and appreciate the role of literature in gaining insight about human dependence on environment and the importance of sustainable living for all.
PO 7	Self-Directed and Lifelong learning	Develop independent learning ability of new literary skills and social ideas and apply them practically.

PO 8	Self-Discipline	Discipline thought process and interpret given situation in a clear manner.
PO 9	Individual and Team work	Develop the ability to discuss and examine multiple opinions in a group and function effectively as the member of the group.

DEPARTMENT OF BENGALI (HONS.)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Bengali as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	BNG-A-CC-1-1-Th-Tu	CO-1	1.1: Interpret the various aspects of ancient Bengali language and Literature. 1.2: Recall the importance of Bengali texts of medieval age. 1.3: Summarize the importance of old Mangala Kavya Dhara and Romantic Pranayapkhyan Dhara.	PO 1, PO 6
	BNG-A-CC-1-2-Th-Tu	CO-2	2.1: Develop the dynamics of science of Bengali language. 2.2: Identify the important aspects of Bengali semantics. 2.3: Make use of the features of Bengali morphology.	PO 2, PO 4
II	BNG-A-CC-2-3-Th-Tu	CO-3	3.1: Outline the importance of poetry and drama of 19th Century. 3.2: Explain the argumentative situation in pre-modern bengaliNakśa.	PO 3, PO 6

			3.3: Classify the historical development of Bengali Prose style.	
	BNG-A-CC-2-4-Th-Tu	CO-4	4.1: Classify with the selective Bengali poetry from pre- medieval to modern era. 4.2: Illustrate the modern Bengali novel. 4.3: Discover the new drama narratives.	PO 1, PO 6
III	BNG-A-CC-3-5-Th-Tu	CO-5	5.1: Find the characteristic of modern Bengali verse. 5.2: Explain the importance of modern Bengali fiction. 5.3: Illustrate the historical developments of Bengali periodicals.	PO 3, PO 5
	BNG-A-CC-3-6-Th-Tu	CO-6	6.1: Construct the Idea of the accident Indian linguistics. 6.2: Apply the usage of ancient Bengali language. 6.3: Develop the idea of MIA and NIA.	PO 2, PO 4
	BNG-A-CC-3-7-Th-Tu	CO-7	7.1: Construct the concept of Bengali social novel. 7.2: Discover the various aspects of Bengali popular novel. 7.3: Critically engage with the development of Bengali short stories.	PO 1, PO 3
	BNG-A-SEC-A-3-1-Th	CO-8	8.1: Develop the knowledge on book publishing. 8.2: Make use of with the knowledge of DTP, MS Word. 8.3: Experiment with the path of proof reading.	PO 2, PO 4, PO 8

IV	BNG-A-CC-4-8-Th-Tu	CO-9	9.1: Appreciate with the texts of Vaisnava Padabali. 9.2: Grasp the importance of Chandimangal. 9.3: Situate the growth and development of Shakta Padabali.	PO 5, PO 6
	BNG-A-CC-4-9-Th-Tu	CO-10	10.1: Identify the basics of Bengali prosody. 10.2: Classify the source of Alamkara. 10.3: Critically engage with Indian poetics.	PO 4, PO 7
	BNG-A-CC-4-10-Th-Tu	CO-11	11.1: Distinguish contemporary Bengali essays. 11.2: Explain the importance of contemporary critical theories. 11.3: Analyse the motives of Bengali Patrasahitya.	PO 1, PO 4
	BNG-A-SEC-B-4-1-Th	CO-12	12.1: Make use of newspaper editing. 12.2: Experiment with the features of advertisement writing. 12.3: Critically engage with the process of research Methodology.	PO 2, PO 5, PO 8
V	BNG-A-CC-5-11-Th-Tu	CO-13	13.1: Compare the different aspects of genre of verse and drama. 13.2: Familiarise with the concepts of Bengali novel and short stories and their comparative analysis. 13.3: Critically engage with different discourse of Bengali Prabandhasahitya.	PO 1, PO 6

	BNG-A-CC-5-12-Th-Tu	CO-14	14.1: Evaluate the aspects of 19th century Bengali drama. 14.2: Criticize the importance of popular Bengali drama. 14.3: Trace the transformation of Bengali theatre.	PO 2, PO 4
	BNG-A-DSE-A-5-1-Th-Tu	CO-15	15.1: Compare the anthropological situation and cultural heritage of Bengalese. 15.2: Reconstruct the colonial impact from various social movements. 15.3: Measure the significance of Nationalism in 19th Century.	PO 1, PO 3, PO 6
	BNG-A-DSE-B-5-1-Th-Tu	CO-16	16.1: Discover the source of modern Bengali fairy tale. 16.2: Classify the various segment of nonsense literature. 16.3: Scrutinise the motives of modern Bengali detective stories.	PO 1, PO 2
VI	BNG-A-CC-6-13-Th-Tu	CO-17	17.1: Interrogate the essence of modern Bengali Patrakavya. 17.2: Discover the source of 19th century poetry. 17.3: Apprise the importance the modern Bengali verse.	PO 4, PO 6
	BNG-A-CC-6-14-Th-Tu	CO-18	18.1: Compare the different aspects of history of Sanskrit literature. 18.2: Measure the significant of English literature. 18.3: Explore the essence of Hindi literature.	PO 1, PO 3, PO 8

	BNG-A-DSE-A-6-3-Th-Tu	CO-19	19.1: Interpret the aspects of 20th Century Bengali detective stories. 19.2: Highlight the changes in the modern Bengali science fiction. 19.3: Explore the world of new era ghost stories.	PO 1, PO 2, PO 6
	DSE B-3BNG-A-DSE-B-6-3-Th-Tu	CO-20	20.1: Discover the essence of medieval biographical literature. 20.2: Trace the historical development of autobiography of 19th Century. 20.3: Summaries the individual experiences from the of 20 th century autobiographical writings.	PO 6, PO 7

BENGALI GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Bengali as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	BNG-G-CC- /GE1-1-TH-TU	CO -1	1.1: Develop the concept of 19th century's Bengali prose. 1.2: Describe the features of poetry and drama from 19th century. 1.3: Discover the various aspects of modern Bengali novel.	PO 2, PO 3, PO 6
II	BNG-G-CC- /GE2-2-TH-TU	CO-2	2.1: Familiarise with the ancient Indian linguistic. 2.2: Understand the basic of Bengali poetry. 2.3: Discover the source of alamkara.	PO 1, PO 2, PO 4
III	BNG-G-CC- /GE3-3-TH-TU	CO -3	3.1: Engage with the selective Bengali poetry from Vaishnava Padaboli. 3.2: Describe the modern Bengali verse. 3.3: Explain the importance of modern Bengali drama.	PO 1, PO 7
IV	BNG-G-CC- /GE4-4-TH-TU	CO-4	4.1: Develop the concept of modern Bengali novel. 4.2: Identify the modern Bengali short stories. 4.3: Interpreted the aspect of modern Bengali essay.	PO 3, PO 6, PO 7

FOR AECC-1 (BENGALI)

Upon completion of the undergraduate course in Bengali as an AECC, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	BNG-AECC-1-1-TH	CO-1	1.1: Critically engage with different discourse of Bengali Essay. 1.2: Discover the various aspects of Bengali short stories. 1.3: To make a basic interpretation of modern Bengali poetry. 1.4: Memories the various Bengali Terminology.	PO 2, PO 6

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Bengali the student will be able to:

PSO-1: Acquire knowledge of the language and basic grammatical structures.

PSO-2: Categorise texts and authors with reference to period and genre.

PSO-3: Demonstrate the various features of texts through critical and theoretical lenses.

PSO-4: Differentiate the characteristics of literary movements and trends in Bengali literature.

PSO-5: Critique literary works based on variable criticism and theory.

PSO-6: Produce well-argued papers and research which connect new and old perspective.

PSO-7: Study and apprise the impact of colonialism on the forms of Bengali language and literature.



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF EDUCATION



PO/CO/PSO

Programme Outcomes (PO)

Course Outcomes (CO)

Programme Specific Outcomes (PSO)

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF EDUCATION

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Education the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Apply newly gained information and abilities to investigate more difficult problems of education in the light of Philosophy, Psychology, Sociology, and Inclusion.
PO 2	Effective communication	Utilize theoretical and practical understanding of philosophical, psychological, sociological perspectives and concept of inclusion while expressing opinions and justifications in relation to education.
PO 3	Effective citizenship	Apply the knowledge of social inclusion, universal love, tolerance, and empathy in solving the persistent socio-cultural issues that the larger society is currently experiencing.
PO 4	Social interaction	Comprehend the link between the newer methods in the constantly evolving society and the educational changes which consequently help students to voice out their opinion for a better future.
PO 5	Ethics	Adopt a culture of value-based reasoning, weigh pros and cons while making decisions, and live a morally upright life.
PO 6	Environment and Sustainability	Recognize the environmental crisis of the present century, and look out for a viable and sustainable approach to beat all odds.
PO 7	Self-directed and Lifelong Learning	Participate in a continuous process of self-learning in a constantly evolving world along with technological developments and advancements.

DEPARTMENT OF EDUCATION**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Education as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Introduction to Education (CC-1/GE-1)	CO-1	1.1: Examine the concept on narrow and broader perspectives in education.	PO 7
			1.2: Describe and discuss the components of education with regard to its scope and aims which will have relevance in building a curriculum.	PO 6
			1.3: Propose an integrated vision of education based on the key concepts, 'learning throughout life' and the four pillars of learning, learning to know, learning to do, learning to be and learning to live together.	PO 1, PO 3
			1.4: Grasp the concepts of heredity and environment and explain why it is much needed while constructing a need-based specialised system of education.	PO 6
			1.5: Discover the importance of a teacher in the system of education for designing an effective network of curricular and co-curricular activities.	PO 1

			1.6: Classify the different agencies of education and discuss the types of educational institutions actively functioning as per the needs and convenience of the learner.	PO 2, PO 4
			1.7: Assess several educational organizations that have an impact on education.	PO 1
			1.8: Explain how student-centric classrooms work in educational institutions and illustrate how play based learning encourages imagination at its finest.	PO 2, PO 4
II	Psychological Foundation of Education (CC-2/GE-2)	CO-2	2.1: Demonstrate the purpose, scope and importance of Psychology in the field of education bringing into consideration the mental and physical development of the learners.	PO 7
			2.2: Classify the stages of human development and outline its significance in the field of education.	PO 2, PO 4
			2.3: Organize the stages of cognitive development and explain its bearing on education as propounded by Psychologist Jean Piaget.	PO 7
			2.4: Identify the psycho-social stages of development as stated by Psychoanalyst Erik Erickson and explain how an individual can be a product of the social environment.	PO 7

			2.5: Examine the concept and structure of the moral development theory as advocated by Kohlberg with regard to its different developmental stages.	PO 5, PO 7
			2.6: Demonstrate how culture plays a crucial role in the development of higher psychological functions in the light of the Social Development theory as propounded by Psychologist Lev Vygotsky.	PO 7
			2.7: Illustrate how observation of other's behaviour plays a leading role in learning as propounded by Cognitive Psychologist Albert Bandura in his Social Learning Theory.	PO 6, PO 7
			2.8: Relate and apply the concept and characteristics of learning in academics and daily life.	PO 7
			2.9: Justify how trial and error method is utilised to solve problems in newer situations as propounded by E.L Thorndike in the theory of Trial and Error.	PO 7
			2.10: Distinguish between Classical and Operant Conditioning and infer how reinforcement plays a crucial role in the process of learning.	PO 7
			2.11: Interpret the concept of perception and insight in the field of education as stated by Gestalt Psychologist Kohler through Insightful Learning theory.	PO 7

			2.12: Discuss the concept of memory and examine the process of memorization for effective learning.	PO 7
			2.13: Justify the probable reasons of forgetting and adopt the correct measures of memorization.	PO 7
			2.14: Define intelligence and justify the theories of intelligence as stated by Thorndike, Spearman, and Guilford in the field of education.	PO 7
			2.15: Explain the types and uses of intelligence tests and summarize its impact in curriculum formation.	PO 7
			2.16: Compare and contrast between Intelligence Quotient and Emotional Quotient and demonstrate how the concept of emotional intelligence is relevant in the field of education.	PO 7
III	Sociological Foundation of Education (CC-3/GE-3)	CO-3	3.1: Elucidate the relationship between Sociology and Education and assess the nature, relevance, and scope of Sociology in the field of education.	PO 7
			3.2: Identify the group types namely Primary, Secondary and Tertiary present in the society and compare the patterns of communication within such groups.	PO 2, PO 3, PO 4

			3.3: Discuss the concept of socialization and examine the role of family and school as one of the important informal and formal agencies of socialization.	PO 2, PO 3, PO 4
			3.4: Analyse the concept of social change and investigate the interrelation between social change and education.	PO 2, PO 3, PO 4
			3.5: Examine how social stratification and hierarchy leads to social change.	PO 2, PO 3, PO 4
			3.6: Illustrate the pattern of social mobility within various groups and communities.	PO 2, PO 3, PO 4
			3.7: Develop fresh perspectives and suggestions for ensuring social change and assess its impact in the desired social direction.	PO 2, PO 3, PO 4, PO 6
			3.8: Evaluate the concept of social communication and also identify the role of informal agencies of social communication in education.	PO 2, PO 3, PO 4, PO 6
			3.9: Discuss the meaning of Culture, Religion, and its interrelation with Education.	PO 2, PO 3, PO 4, PO 6
			3.10: Explain the meaning of Technology, Economy, and its interrelation with Education.	PO 2, PO 3, PO 4, PO 6

IV	Inclusive Education (CC-4/GE-4)	CO-4	4.1: Interpret the concept of inclusion and identify the elements of an inclusive society.	PO 6, PO 7
			4.2: Criticize the barriers of inclusion by deeply studying the core issues of society.	PO 3, PO 5, PO 6, PO 7
			4.3: Discuss and identify the concepts of and difference between Impairment, Disability and Handicap.	PO 6, PO 7
			4.4: Classify the different types of disabilities and their specific educational needs.	PO 6, PO 7
			4.5: Explain the concept of differently abled and summarize the general causes of disabilities.	PO 3, PO 5, PO 6, PO 7
			4.6: Examine the role of the school and society for building a barrier free environment to help the differently abled.	PO 3, PO 5, PO 6, PO 7
			4.7: Define the concept of socially disabled and identify such individuals present in society to ensure social inclusion.	PO 3, PO 5, PO 6, PO 7
			4.8: Differentiate between different socially disabled groups namely SC, ST, OBC. Also outline the role of education for mitigating social exclusion.	PO 3, PO 5, PO 6, PO 7
			4.9: Differentiate between Gender and Sexuality and propose solutions for social awareness.	PO 3, PO 5, PO 6, PO 7

			4.10: Explain the concept of social exclusion and indicate the causes of social exclusion.	PO 3, PO 5, PO 6, PO 7
			4.11: Organize the foundational ideas of social inclusion and plan how education may be used as a tool to combat social exclusion.	PO 3, PO 5, PO 6, PO 7
			4.12: Assess the various educational reforms for building an inclusive society.	PO 3, PO 5, PO 6, PO 7
			4.13: Identify and organize the necessary elements of an inclusive school.	PO 3, PO 5, PO 6, PO 7
			4.14: Justify the role of education in building a multicultural society.	PO 3, PO 5, PO 6, PO 7
			4.15: Explain the idea of peaceful coexistence and illustrate the role of education in ensuring a peaceful pluralistic society.	PO 3, PO 5, PO 6, PO 7
			4.16: Indicate the various informal agencies of education like mass media and demonstrate their importance for building an inclusive society.	PO 3, PO 5, PO 6, PO 7

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Education the student will be able to:

- PSO-1:** Comprehend the idea of Education arising from its philosophical viewpoint by stating its foundational bases to different perspectives in the field of education.
- PSO-2:** Enable the students to establish their own areas of interest and thinking by investigating the different research areas and recognizing the core issues by critically identifying the loopholes related to the existing system of education.
- PSO-3:** Acquire knowledge of the fundamental ideas in Psychology, including approaches to understanding human behaviour with a focus on how Psychology is applied in daily life.
- PSO-4:** Prepare the student to understand the Sociological linkages between Education and numerous social institutions.
- PSO-5:** Make fresh ideas and contributions in the realm of Education.
- PSO-6:** Inculcate the spirit of inclusivity, acceptance, and empathy in the field of education and in all aspects of life.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF HINDI**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF HINDI

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Hindi the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Identify and analyse current issues and trends in higher education and come-up with intellectual, organizational, and personal ideas and decisions from different perspectives.
PO 2	Effective Communication	Develop vocabulary and comprehension skills for communicating ideas and arguments with clarity.
PO 3	Ethics	Recognise human moral values by studying texts from diverse cultures, ethos, and eras.
PO 4	Social interaction	Develop the sense of the culture of the past and the present based on traditions, ideas and other cultural aspects delivered through literature.
PO 5	Environment and Sustainability	Identify the impact of environmental changes on man and how it is reflected through the different genres of literature.
PO 6	Self-directed and Lifelong Learning	Develop the ability to engage in independent and life-long learning with socio-technological changes.
PO 7	Effective Citizenship	Citizens are the real and precious asset of any nation who can change the present scenario of their nation by using their wisdom and knowledge for the nation, and by understanding their responsibilities towards the nation.

DEPARTMENT OF HINDI**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Hindi as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Hindi Sahitya Ka Itihas (GE / CC-1)	CO-1	1.1: Explain the origin of Hindi language and literature. 1.2: Describe the concept of history of literature. 1.3: Identify the characteristics according to which different kals (time) are divided. 1.4: Interpret the idea of kal Vibhajan aur Namkaran of Hindi Sahitya ka Itihas by different Itihaskar (historians). 1.5: Summarize the reason and significance of naming each kal mentioned in Hindi literature. 1.6: Indicate the features of Adikal, Bhaktikal, Ritikal and Adhunikkal, in context of socio - cultural and political conditions of that period. 1.7: Examine the role of eminent Hindi writers of each period. 1.8: Give examples for the reason of the emergence of Adhunikkal in Hindi literature.	PO 1, PO 3, PO 4, PO 5, PO 7

			<p>1.9: Justify the literary trends of Adhunikkal drawing insights from Samajik, Sanskritic evam Rajnitik Pristhabhumi. Also gain an overview of Hindi Gadya ki vibhinna-vidhao-Kahani, Upanayas and Natak ka udbhav evam vikas.</p> <p>1.10: Assess the knowledge about Bharatenduyugin Kavya, Dwivedi yugin Kavya.</p> <p>1.11: Produce the history of development of Hindi Drama, Stories and Novels.</p>	
II	Madhyayugin Hindi Kavita (GE / CC-2)	CO-2	<p>2.1: Compare the role played by the poets of Bhakti cult in literature and society.</p> <p>2.2: Justify the progressive nature of Sant Kabir and his writings.</p> <p>2.3: Describe the Krishna bhakti kavya of Surdas by relating it with his philosophy of life.</p> <p>2.4: Compare and contrast the Ram-Bhakti Kavya of Tulsidas vis a vis with the philosophy of Bhakti cult.</p> <p>2.5: Interpret the vision of Mira in context of her Krishna Bhakti .</p> <p>2. 6: Arrange the content and the skill of writings of Bihari in context of the socio-cultural condition of that period.</p>	PO 1, PO 2, PO 3, PO 7

III	Adhunik Hindi Kavita (GE / CC-3)	CO-3	<p>3.1: Define the fundamental knowledge of Modern Hindi Poetry.</p> <p>3.2: Analyse the valuable contributions of Bhartendu Harischandra and Maithilisharan Gupta in modern Hindi Poetry.</p> <p>3.3: Demonstrate the philosophy of life as well as poems of ‘Chhayawadi’ poets such as Jai Shankar Prasad and Suryakant Tripathi Nirala.</p> <p>3.4: Illustrate and examine the poems of Ageya in context with his experiences of life.</p> <p>3.5: Investigate the nature loving as well as progressive spirit of Nagarjun along with his skill of writing ‘Vyangya’ in literature.</p>	PO 1, PO 2, PO 3, PO 6, PO 7
IV	Hindi Gadya Sahitya (GE / CC-4)	CO-4	<p>4.1: Arrange the knowledge of Hindi ‘Gadya Ki Vividh Vidhaye’.</p> <p>4.2: Explain Short story, Essay, Novel, its definition, importance, concept, characteristics, history etc.</p> <p>4.3: Criticize the change in content and style of expression of eminent Hindi Kahani, Nibandh aur Upanyas.</p> <p>4.4: Identify the literary trends of Hindi short stories.</p> <p>4.5: Propose the philosophy of life as well as the literary contribution of Jai Shanker Prasad, Premchand, and Yashpal.</p>	PO 1, PO 2, PO 3, PO 4, PO 6, PO 7

			<p>4.6: Analyse the different skills of Hindi Essay writing.</p> <p>4.7: Illustrate and examine the different styles of essay writing put forth by eminent Hindi writers.</p> <p>4.8: Demonstrate various thoughts of eminent Hindi essay writers.</p> <p>4.9: Discuss and analyze the Hindi Essays like “Lobh Aur Priti” by Acharya Ram Chandra Shukla, and “Kutaj” by Hazari Prasad Dwivedi as well as the contribution of Jainendra to novel writing.</p> <p>4.10: Assess the philosophy of Jainendra about the empowerment of women through ‘Tyagpatra’ novel.</p>	
1	Anivarya Hindi (AECC - 1)	CO-5	<p>5.1: Develop the spirit of nationalism as well as nature consciousness in Prasad's poem 'Beeti Vibhavari Jaagri' and Nagarjun's 'Unko Pranam'.</p> <p>5.2: Indicate the dual nature of people in the modern present era.</p> <p>5.3: Discuss the nature of the revolt of Dushyant Kumar through his poem 'Ho Gayi Hai Peer Parvat Si'.</p> <p>5.4: Give examples of the importance of environmental protection through Sukhdev Prasad's essay.</p>	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7

			5.5: Compare the cultural spirit of Hazariprasad Dwivedi through his essay 'Nakhun kyu badhte Hai '.	
			5.6: Explain the character sketches of Mahadevi Verma.	
			5.7 Categorize the social consciousness of Premchand, Usha Priyamvada and Mannu Bhandari through their short stories.	
			5.8: Explain English terminologies with their Hindi definitions.	

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Hindi the student will be able to:

PSO-1: Discuss the relation between society and literature and analyze the role played by Hindi literature in the past and present.

PSO-2: Describe the strategy of converting worship into the movement of the struggle for cultural freedom.

PSO-3: Imbibe the philosophy of life inspired by the vision of eminent writers.

PSO-4: Develop in students, the knowledge about the importance and scope of the subject.

PSO-5: Explore and enrich one's knowledge by encouraging reading of literary works.

PSO-6: Promote the skill of writing official letters in functional Hindi.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF GEOGRAPHY**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF GEOGRAPHY

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Geography the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Adapt critical abilities in analysing of geographical concepts and issues.
PO 2	Effective communication	Improve an ability of communication of the acquired geographical knowledge to others in regional and global perspectives.
PO 3	Ethics	Build a sense of ethics in response to critical situations to face challenges in life and undertake leadership in teamwork.
PO 4	Social Interaction	Develop the ability to be interactive in social issues and problems with the acquired geographical knowledge.
PO 5	Environment and Sustainability	Appraise the Impact of environmental changes on human and how it can be explained at a global and regional perspective.
PO 6	Self-directed and Lifelong Learning	Create the habit of self-learning and to develop intuition among the students to face any kind of challenges in their lives.
PO 7	Individual and Team Work	Extend cooperation without losing the individuality as a person and as a member of a team in practical classes and in field work.

DEPARTMENT OF GEOGRAPHY**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Geography as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	Physical Geography (CC/GE 1)	CO-1	1.1: Build the concept of Earth's interior. Plate Tectonic Theory, Seismology, Fold and Fault and their classification.	PO 2
			1.2: Find the information on the concept and understanding of Weathering, Mass wasting. Process Geomorphology and resultant landforms. Theories of Slope and landform evolution.	PO 1, PO 6, PO 7
			1.3: Create ideas on the concept of hydrological Cycle and their controlling factors, Runoff, Ecological Flow, Watershed Management.	PO 1, PO 5
			1.4: Construct the concept of physical and chemical properties of Ocean water, waves, tides and marine resources.	PO 1, PO 5

II	Environmental Geography (CC/GE2)	CO-2	2.1: Inspect information on the concepts of Insolation and heat Budget, Atmospheric temperature, pressure. Indian monsoon, Cyclones and thunderstorm formation, Green House Effect, Ozone depletion and Koppen's Climatic Classification.	PO 2, PO 5
			2.2: Interpret the factors of soil formation, Climogenic soil processes, physical and chemical properties of soil, USDA Classification, Soil Erosion and management.	PO 5, PO 6
			2.3: Develop insight on the concept of Ecosystem and Biome, Plant types and Biodiversity.	PO 2, PO 3, PO 5
III	Human Geography (CC/GE3)	CO-3	3.1: Analyse the concept of sectors of the economy, Locational Theories of economic activities, Location of industries, Globalization.	PO 4
			3.2: Develop an insight on Human Societies, population and migration. Social organizations and their characteristics, language, religion, race; Social Issues.	PO 2, PO 3, PO 4
			3.3: Build the concept of cultural landscape, rural and urban settlements, cultural region and realm, Cultural diffusion and innovation.	PO 4, PO 6

IV	Cartography (CC/GE4)	CO-4	4.1: Interpret Map classification, Scales, Co-ordinate Systems, Map Projections and their understanding.	PO 1, PO 7
			4.2: Discuss the Topographical Maps and its different reference schemes, Thematic Mapping, Map making agencies and their principles.	PO 6, PO 7
			4.3: Appraise on the Basics of Remote Sensing, Concepts of FCC and Raster Image, Basic Concepts of GIS.	PO 2, PO 7
			4.4: Demonstrate the basics of Prismatic Compass and Dumpy Level.	PO 7

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Geography the student will be able to:

PSO-1: Analyse the relationship between human and environment.

PSO-2: Create an awareness about the different problems of the world from a geographical perspective.

PSO-3: Find the scope of application of theory into practice such as analysis and interpretation of data and their spatial correlations. Temporal variations determined and established over certain spaces.

PSO-4: Develop the application of the acquired knowledge in field-based problems.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF PSYCHOLOGY**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF PSYCHOLOGY
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Psychology the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Acquire comprehensive knowledge of different psychological constructs and processes those constructs in relation to understand and regulate human cognition and behaviour.
PO 2	Social Interaction	Perceive oneself in relation to the existing social structure and how social influences shape individual's behavior and apply that knowledge to understand the socio-psychological causes and motives of human behavior in group.
PO 3	Psychological Disorder Consciousness	Acquire knowledge about various psychological disorders along with the symptomatology and applying those knowledges to identify any existing or potential disorders.
PO 4	Environment and Sustainability	Apply different skills and knowledge of psychology to resolve day to day problems in order to promote an overall psychological wellbeing and psychosocial adjustment.
PO 5	Self-Directed and Lifelong Learning	Recognize the role of different psychological construct involved in human learning and how educators can utilize those factors to promote better learning, adjustment, motivation and achievement.

PO 6	Applicative Skill Development	Do practical application and assessment of different principles, measures and techniques of psychological constructs and quantitative analysis of variables in reference to evidence-based data.
PO 7	Effective Communication	Develop comprehensive understanding of the theoretical constructs and become adept in communicating ideas effectively.

DEPARTMENT OF PSYCHOLOGY**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Psychology as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Foundations of Psychology (GE1)	CO-1	<p>1.1: Generate a holistic idea about the origin, nature and methods of psychology with special emphasis on the development of Indian Psychology.</p> <p>1.2: Integrate ideas of different cognitive processes like perception, memory and learning and how it relates to human psyche.</p> <p>1.3: Focus on different biogenic and sociogenic motives that drive human behaviour as well as different types of emotions and its relation to human physiology.</p>	PO 1, PO 4, PO 5, PO 6, PO 7

			<p>1.4: Develop Knowledge about different theories and how these theories can be applied to understand personality and intelligence of an individual.</p> <p>1.5: Practical application of different psychological tests to intelligence and memory to understand the latent psychological constructs.</p>	
II	Introduction to Social Psychology (GE2)	CO-2	<p>2.1: Develop approaches towards understanding social behaviours with special emphasis on Indian society.</p> <p>2.2: Outline the concept, formation and change in human attitude.</p> <p>2.3: Explain interpersonal processes by throwing lights on interpersonal attraction, prosocial behaviours and aggression.</p> <p>2.4: Examin different aspects of social groups and their relation to individual behaviours.</p> <p>2.5. Practical understanding of group influence on individual behaviours.</p>	<p>PO 1, PO 2, PO 4, PO 6, PO 7</p>
III	Psychological Disorders (GE3)	CO-3	<p>3.1: Understand the criteria of abnormality and how it can be distinguished from normality, as well as classification of different psychological disorders.</p>	<p>PO 1, PO 3, PO 4, PO 6,</p>

			<p>3.2: Identify different factors contributing to the development, maintenance and prognosis of psychological disorders.</p> <p>3.3: Comprehend symptoms of different mental disorders and to identify such problems in surroundings.</p> <p>3.4: Apply different psychological therapeutic technique to resolve day to day problems in different spheres of life.</p> <p>3.5: Practical Assessment of stress and anxiety to understand their latent psychological constructs.</p>	PO 7
IV	Statistical Methods and Psychological Research (GE4)	CO-4	<p>4.1: Explain the representation of psychological data in terms of graphs.</p> <p>4.2: Describe different statistics along with computation.</p> <p>4.3: Introduce the concept of psychological test and its prominent characteristics.</p> <p>4.4: Examine the difference between qualitative and quantitative research methods.</p>	PO 1, PO 6, PO 7

			4.5: Practical verification of research information with evidence-based data and application of psychological test to measure personality construct.	
--	--	--	--	--

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Psychology the student will be able to:

- PSO-1:** Form a basic understanding about the complex psychological processes with elementary notion about major subfields of the discipline.
- PSO-2:** Learn the theoretical concepts and apply those principles and concepts in their lives with the goal of making them more content, integrated, and actualized.
- PSO-3:** Gain insights into psychological disorders along with their etiology and treatment.
- PSO-4:** Comprehend the functioning of society and its influence on understanding and regulating human behaviour.
- PSO-5:** Develop orientation towards behavioural research and quantitative and qualitative analysis.



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF FILM STUDIES



PO/CO/PSO

Programme Outcomes (PO)

Course Outcomes (CO)

Programme Specific Outcomes (PSO)

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF FILM STUDIES

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Film Studies the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Conceptual understanding of images as representation enables one to critically analyze one's interactions with contemporary reality.
PO 2	Effective Communication	Learning concepts and theories brings about clarity of thought and ideas, which provides a basic training in academic writings.
PO 3	Effective Citizenship	Understanding of subject positions and subjectivity as conceptual frameworks becomes instrumental in comprehending fundamental social relations such as between the State and the individual.
PO 4	Social Interaction	Filmmaking as a team exercise promotes essential social values such as cooperation, punctuality, maintaining cordial relationship throughout the cross-section of society.
PO 5	Ethics	Theoretical knowledge of documentary cinema along with practical training in documentary filmmaking ensure a grasp on empathy and ethical behavior.
PO 6	Environment and Sustainability	Individual films pertaining to environmental issues, along with ecocriticism as a theoretical paradigm provide a necessary framework think through environmental concerns and crises, and work toward sustainable resolution.
PO 7	Self-directed and Lifelong Learning	Aesthetic, technical, political understanding of images, representation and narratives provide the necessary impetus for functioning within a mediatized society, pertaining to production, circulation and consumption.

DEPARTMENT OF FILM STUDIES**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Film Studies as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Film Language & Cinema's Journey From Primitive to Narrative (GE1)	CO-1	1.1: Explanation of the illusion of movements and the early cinematic machines. 1.2: Understanding the basic concepts of Film Production and Distribution. 1.3: Understanding the key concepts of Film Form. 1.4: Introduction of the concept of Shots in cinema through mise-en-scene and composition. 1.5: Basic introduction to Cinematography. 1.6: Understanding the key concepts of editing. 1.7: Understanding the arts and aesthetics of Sound in cinema. 1.8: Manifestation of Cinema in the digital era. 1.9: Explaining the era of the Silent Cinema.	PO 1, PO 2, PO 4, PO 5, PO 7

			<p>1.10: Explanation of the Narrative Cinema in IMR.</p> <p>1.11: Elucidation of the Hollywood Studio Era.</p> <p>1.12: Understanding the basic concepts of Making a Continuity Film.</p>	
II	History: World Cinema (GE2)	CO-2	<p>2.1: Introduction to German Expressionism with reference to Robert Weine and Fritz Lang.</p> <p>2.2: Introduction to Soviet Cinema with Eisenstein, Kuleshov and Pudovkin</p> <p>2.3: Surrealism and Luis Bunuel.</p> <p>2.4: Introduction to American Silent comedy with reference to Charlie Chaplin.</p> <p>2.5: Introduction to post war film movements like French New Wave with reference to Godard and Truffaut.</p> <p>2.6: Introduction to Italian Neorealism along with Rossellini and De Sica.</p> <p>2.7: Introduction to Japanese Cinema with reference to Akira Kurosawa, Ozu, Mizoguchi.</p> <p>2.8: Making of a short fiction film of 3 minutes duration by a group of around 5 students. There will be no dialogue. Only background music & effect sound may be used.</p>	<p>PO 1, PO 2, PO 3, PO 4, PO 5, PO 7</p>

III	(GE 3)	CO-3	<p>3.1: Introduction to Early Indian Cinema from Hiralal Sen & D. G. Phalke.</p> <p>3.2: Introduction to Studio systems such as New Theatres, Prabhat Studio etc.</p> <p>3.3: Understanding post studio melodrama through popular films like Mother India, Parinda, Sholay, DDLJ etc.</p> <p>3.4: Introduction to auteur theory with reference to Satyajit Ray's Apu Trilogy and Ritwik Ghatak's Partition Trilogy.</p> <p>3.5: Introduction to Indian New Wave with reference to films such as Bhuvan Shome, Garam Hawa, Uski Roti etc.</p> <p>3.6: Understanding and creating a Photography Development of narrative with maximum 12 still photographs with only background music.</p>	PO 1, PO 2, PO 3, PO 4, PO 5, PO 7
IV	Documentary (GE4)	CO-4	<p>4.1: Understanding the basic concepts, ethics, and aesthetics of Documentary Films.</p> <p>4.2: Manifestation of Several Documentary films along with the directors from India and rest of the world.</p> <p>4.3: Analysis of Night and Fog, Rabindranath and Documentary series named Planet Earth.</p> <p>4.4: Understanding the key concepts of making a documentary film.</p>	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Film Studies the student will be able to:

PSO-1: Understand cinema as a language system.

PSO-2: Have an overview of film history including technological shifts, different movements and style, and important directors.

PSO-3: Gain a basic introduction to theoretical concepts such as montage, realism and melodrama.

PSO-4: Achieve an introductory training in various aspects of filmmaking.

PSO-5: Develop an aptitude towards analytical and critical thinking.

PSO-6: Form an understanding of the broader questions concerning humanities such as modernity, state, capital, subjectivity among others.

PSO-7: Develop an understanding of digital media apparatus and its role in the postindustrial societies.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

**DEPARTMENT OF
BACHELOR OF COMMERCE****PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF BACHELOR OF COMMERCE

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Commerce the student will be able to:

PO	Programme Outcomes	Description
PO 1	Acquiring Extensive Domain Knowledge	The learners will be provided with a holistic view of the course content to be covered in the curriculum so that they may develop knowledge on the domain perspectives and their applications.
PO 2	Inculcating critical thinking skills	Learners will be encouraged to apply their minds as opposed to learning by rote, thereby embracing the art of critical thinking. Their vision is sought to be enlarged so as to allow them to think laterally, think independently, think out of the box and enhance divergent thinking.
PO 3	Communication skills	The learners will gain an insight on developing positive communication skills. The course will acquaint them with different mass media channels – both traditional and social to communicate both internally and externally, within the organization and its different constituents and with the world at large.
PO 4	Developing social and interpersonal skills	Adequate amount of stress is also accorded in ensuring that the learners will develop the necessary social and interpersonal skills. Special attention will be provided in the area of corporate and commercial skills. Special attention will be provided in the area of corporate and commercial skills to build positive rapport and understanding of social phenomenon.

PO 5	Initialising effective citizenship	The programme will lead to fostering and demonstrating qualities of an informed, educated and empathetic citizen through voluntary participation in social development causes.
PO 6	Imbibing Environmental Consciousness	The institution takes pride in inculcating actions to ensure that all learners are imbibed with environmental consciousness , which would which will increase social responsibilities amongst them.
PO 7	Inculcating Ethical Values	The course aims to inculcate ethical values amongst the youth, in view of that, they grow up to be a good human being with high ethical values, along with being a good academically oriented educands.
PO 8	Instilling self-motivated pursuit of knowledge and life long learning	The interest in the course is sought to be sparked in the educand's mind so that they will be encouraged to self- motivate themselves and to engage in independent and lifelong learning in the broadest context of technological changes.
PO 9	Keeping abreast with the recent developments in relevant field of study	The learners will upgrade themselves to keep abreast with the latest developments in the fields of discipline that is relevant to them. This will not only help them in their employability quotients, but will also ensure a greater, in-depth understanding of the course content.
PO 10	Imparting analytical skills and encouraging innovative practices	The learners will be provided systematic support for the development of analytical skills which are essential requisites in the world beyond the sheltered life of the campus and are provided unstinted encouragement in the pursuit of innovative practices.
PO 11	Sustainability to achieve common good	Learners will be provided a thorough grinding about sustainability and practices that are aimed at ensuring that the scarce resources of the world are put to use effectively, efficiently and economically to achieve the greatest common good.
PO 12	Intellectual development and increasing employability	One of the objectives of the programme is to empower all learners with professionalism, by catering to their intellectual development. This would further enhance employability and productivity.

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
 A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
 RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF BACHELOR OF COMMERCE
THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in Commerce, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Communicative English (AECC 1.1 Chg)	CO-1	1.1: Identify and interpret syntax errors.	PO 1, PO 3
			1.2: Correct grammatical errors in sentences.	PO 1, PO 3
			1.3: Use knowledge of basic grammar rules.	PO 1, PO 3, PO 4, PO 9
			1.4: Classify sentences on the basis of function and structure.	PO 1, PO 9
			1.5: Transform sentences from/to functional or structural.	PO 3, PO 9
			1.6: Recall and comprehend further, the degrees of comparison.	PO 9
			1.7: Comprehend literature.	PO 3
			1.8: Recognize the tone of fictional/non fictional passages.	PO 12

			1.9: Develop an understanding of the central idea of passages.	PO 3
			1.10: Identify statements whether true or false to passages.	PO 12
	Microeconomics-I & Statistics (GE 1.1Chg)	CO-2	2.1: Define and interpret various concepts related to the theory of demand and supply.	PO 1
			2.2: Identify the factors which ensure the functioning of the law of demand, and independently analyse whether a demand function follows the law of demand or not.	PO 1, PO 2
			2.3: Have a conceptual understanding of elasticity and evaluate various types of elasticity of demand.	PO 1, PO 2, PO 10
			2.4: To develop a comprehensive understanding about how a consumer can allocate his income among different goods and services to maximize utility subject to his budget/income constraint.	PO 2, PO 8
			2.5: Visualize the impact of a change in the price of any commodity or income on the slope of the budget line and the subsequent shift or rotation.	PO 1
			2.6: Identify commodities across markets as Good/Bad, Normal/ Inferior (Giffen)/ Superior	PO 2, PO 8

			(Luxurious) Goods, Substitutes/ Complements and their subsequent changes in quantities demanded due to change in the price of the related good or income.	
			2.7: Exercise critical thinking skills to derive the Income-Consumption Curve and Price-Consumption Curve.	PO 10
			2.8: Classify the concepts related to the theory of production; the various stages of production, and the production function; TP, AP, MP- their inter-relationship; the long-run and short-run production function; the law of variable proportions; Concept of returns to scale, Concept of Isoquant and Iso-cost lines and the conditions of optimization.	PO 1, PO 2, PO 8, PO 10
			2.9: Identify and apply the various types and concepts of a firm's cost curves and subsequently derive the long run cost curves for the firm as well as for the industry.	PO 1, PO 2, PO 9
			2.10: Analyse and critically evaluate the producer's equilibrium.	PO 10, PO 12

			2.11: Develop a comprehensive understanding of the basic concepts of revenue, market - its classification and types based on various assumptions.	PO 1, PO 2, PO 8
			2.12: Differentiate between perfect and imperfect markets on the basis of assumptions.	PO 1, PO 2, PO 10
			2.13: Describe the functioning of the perfectly competitive market in short-run and long-run and the associated equilibrium output determination through the graphical and mathematical approach using derivatives considering the profit maximization goal of the firm subject to cost constraint and derive the short-run supply curve of the firm as well as the industry.	PO 10, PO 12
			2.14: Synthesize the knowledge and apply it to derive the producer surplus under a perfectly competitive market framework.	PO 1, PO 2, PO 10
			2.15: Critically assess and analyse the market stability by considering the impact of tax and subsidy through Stability Analysis.	PO 2, PO 12, PO 10
			2.16: Construct group frequency distribution from a given set of raw data.	PO 1, PO 2

			2.17: Convert the given observation/frequency distribution into appropriate graphical representation.	PO 8
			2.18: Explain the meaning of central tendency & dispersion.	PO 1
			2.19: Recall all the measures of central tendency & dispersion.	PO 2
			2.20: Extend the median formula to determine quartiles, deciles, and percentiles.	PO 8
			2.21: Determine median and mode graphically.	PO 10
			2.22: Explain the meaning of dispersion & recall all the measures of dispersion.	PO 1
			2.23: Compute SD and Variance using direct and shortcut method.	PO 2
			2.24: Compare the consistency/variability of two or more set of data using variance.	PO 9, PO 10
			2.25: Classify a given set of observation based on symmetricity and peakedness using the concepts and results of moments, skewness and kurtosis.	PO 1, PO 2, PO 9, PO 10, PO 12

			2.26: Estimate the unknown value of a variable corresponding to a known value of another variable using appropriate interpolation method.	PO 1
I	Business Laws (CC 1.1 Chg)	CO-3	3.1: Recall the various legal and regulatory rules relating to contracts in India.	PO 1, PO 2, PO 12
			3.2: Interpret the basics of business transactions.	PO 3
			3.3: Comprehend the legal environment prevailing in India to form and run a partnership business.	PO 4, PO 8
			3.4: Classify various negotiable instruments used in different business in India.	PO 5, PO 7, PO 11
			3.5: Illustrate on the laws to protect consumers from breach of ethics of business in India	PO 2, PO 8
I	Principles of Management (CC1.2 Chg)	CO-4	4.1: Construct an overall idea about various concepts and the different schools of management.	PO 1, PO 2
			4.2: Formulate different planning strategies and analyse them to interpret a defined outcome.	PO 1, PO 10
			4.3: Design and evaluate organization and allocation of a firm's resources in order to achieve the predetermined plan.	PO 2, PO 10

			4.4: Comprehend the significance of directing and leadership theories in management.	PO 1, PO 3, PO 7
			4.5: List the leadership theories and their respective founders.	PO 3, PO 4
			4.6: Summarize the continuous process of selecting, evaluating and developing a working relationship with current or future employees.	PO 12
			4.7: Exemplify the concepts of motivation, control & coordination.	PO 1, PO 2, PO 8
I	Financial Accounting – I (CC 1.1 Ch)	CO-5	5.1: Understand and recall the conceptual knowledge of financial accounting and apply the process of double entry system in recording and analysing business transactions.	PO 1, PO 2
			5.2: Apply the methods of charging and accounting for depreciation.	PO 1 PO 2, PO 9, PO 10
			5.3: Infer knowledge on Accounting Theory and Accounting Standards.	PO 1, PO 9
			5.4: Demonstrate the knowledge of preparation of financial statement for trading and non-trading organizations applying the concepts of double entry system and Accounting Standards.	PO 2, PO 10, PO 12
			5.5: Discuss the concept of Consignment and prepare various accounting treatment of Consignment.	PO 8, PO 9, PO 10

			5.6: Summarise and reconcile various ledgers through self and sectional balancing system.	PO 8, PO 9, PO 10
			5.7: Define the concepts of Insurance claim, differentiate between Loss of Stock and Loss of Profit policy.	PO 8, PO 9, PO 10, PO 12
			5.8: Explain the essence of average clause.	PO 8, PO 9, PO 10, PO 12
II	E-Commerce & Business Communication (GE 2.1 Chg)	CO-6	6.1: Memorise and reproduce the key concepts related to the regulation of the internet and e-commerce.	PO 1, PO 5, PO 7, PO 9
			6.2: Interpret and classify different ways of doing business in the electronic mode.	PO 2, PO 6, PO 9, PO 12
			6.3: Apply knowledge of e-commerce and internet regulation in different scenarios to solve real world challenges.	PO 1, PO 2, PO 4, PO 8
			6.4: Analyse and compare the various methods of digital transactions.	PO 2, PO 8, PO 9, PO 10
			6.5: Judge and verify the impact of software systems in conducting business electronically.	PO 1, PO 4, PO 8
			6.6: Assemble information and formulate a digital marketing campaign to expand business avenues.	PO 3, PO 9, PO 11, PO 12,

			6.7: Recall the basic concept of communication and summarise the meaning, importance, elements, principles, and process of Business Communication.	PO 1, PO 2, PO 4
			6.8: Discuss the barriers of communication and their remedial measures and infer the role of communication in conflict resolution.	PO 1, PO 2
			6.9: Discuss the different types of communication, understand their use, compare them, and evaluate the significance of each type of communication in context to a business organization.	PO 1, PO 3, PO 4
			6.10: Explain corporate communication and discuss communication network.	PO 1, PO 3, PO 4
			6.11: Discover the various tools of communication and judge their applicability.	PO 1, PO 2, PO 9
			6.12: Differentiate between various modern forms of communications.	PO 1, PO 4, PO 5, PO 9
			6.13: Construct notices with agenda circulars, resolutions, and minutes of a meeting.	PO 3, PO 4, PO 11, PO 12
			6.14: Construct official reports, CV, and different types of business letters.	PO 2, PO 3, PO 4, PO 5, PO 9

II	Company Law (CC 2.1 Chg)	CO-7	7.1: Acquire & interpret functional knowledge about the laws governing the world of trade, industry and commerce.	PO 1, PO 7
			7.2: Memorize the structure of companies prevalent in our country.	PO 1, PO 7
			7.3: Interpret the legal framework within which commercial activities must be restricted.	PO 3
			7.4: Explain the protection such laws provide and the penalties that have to be borne in case of their breach.	PO 3, PO 9
			7.5: List the legal principles and the fountainheads from which the specific commercial laws have evolved and become well versed about their general applicability.	PO 4, PO 10, PO 12
			7.6: Gain an insight into the classification of securities and their practical implications respectively.	PO 2, PO 8
			7.7: Compare the various proceedings for holding a meeting in the context of the legal structure and its general implications.	PO 6
II	Marketing Management & Human Resource Management (CC2.2 Chg)	CO-8	8.1: Define and interpret the nature, scope and importance of marketing, marketing mix and marketing environment and differentiate between selling and marketing mix.	PO 1

			8.2: Classify and evaluate the components of marketing environment (Economic, Demographic, Technological, Natural, Socio-Cultural and Legal).	PO 1
			8.3: Interpret and analyze the nature, importance of consumer behaviour.	PO 1, PO 2, PO 3,
			8.4: Discover the key concept of Stimulus-Response Model (SRM) that provides a better understanding of consumers' buying behaviour.	PO 1, PO 9
			8.5: Summarize & exemplify the concept along with the bases of market segmentation.	PO 1, PO 2
			8.6: Discriminate between product differentiation and market segmentation.	PO 1, PO 2
			8.7: Discover a new way of looking at a product from product planners perspective and classify the products broadly.	PO 1, PO 2,
			8.8: Compare and analyze the product mix of Companies in the market.	PO 1, PO 2, PO 9, PO 10
			8.9: Distinguish between various types of branding strategies employed in the market by various companies.	PO 1, PO 2, PO 9, PO 12
			8.10: Discuss the importance of packaging and labelling.	PO 1, PO 2

			8.11: Explore and memorize the concept of Product life-cycle and design new products or services by understanding and using the New Product Development Process.	PO 1, PO 2, PO 9, PO 10
			8.12: Identify and formulate different pricing strategies for different products after analyzing pricing policies of a company.	PO 2, PO 10, PO 12
			8.13: Explore various channels of distribution available to different businesses for their business growth.	PO 1, PO 2, PO 10
			8.14: Identify methods to reach out to customers.	PO 2, PO 10
			8.15: Design a distribution channel strategically for a business.	PO 2, PO 10
			8.16: Discuss the nature and importance of promotion. Differentiate between types of promotions and devise different promotional strategies for various types of products and services.	PO 1, PO 2
			8.17: Infer and discover the recent developments in the field of marketing and discuss the usage and impact of social marketing, online marketing, direct marketing, services marketing, green marketing and rural marketing.	PO 1

			8.18: Interpret the concept and importance of consumerism in marketing.	PO 2
			8.19: Devise the knowledge to understand and effectively contribute to the dynamics of human relations especially in the work place.	PO 1, PO 3, PO 4
			8.20: Analyse and design the future human resource requirements of the organization.	PO 4, PO 10, PO 12
			8.21: Demonstrate how the existing human resource capacity of the organization can be utilized to fulfil such requirements.	PO 4, PO 10, PO 12
			8.22: Understand the significance of recruitment and selection in detail.	PO 1, PO 7, PO 12
			8.23: Evaluate the legal and procedural inputs required to manage human relations in the enterprise.	PO 1, PO 7, PO 12
			8.24: Measure the effectiveness of human resource training methods and interpret their applicability.	PO 2, PO 8, PO 9
			8.25: Devise and measure different human resource appraisal techniques as well as their relevance.	PO 1, PO 2
			8.26: Classify systematic ways in order to evaluate jobs and their relative worth.	PO 9, PO 10

II	Cost and Management Accounting I (CC 2.1 Ch)	CO-9	9.1: Recognise the basics of cost and management accounting and its application.	PO 1
			9.2: Classify the place and role of cost accounting in modern economic environment along with the different costing methods and techniques.	PO 1
			9.3: Explain the concept, different types of materials, its accounting treatment; compare the concept of EOQ and memorize different methods of valuing material issue.	PO 1, PO 8
			9.4: Memorise the different concepts of labour and compare the different wage payment issues along with its impact on labour efficiency.	PO 2, PO 4,
			9.5: Differentiate as well as evaluate methods of bonus and total wage through different labour wage payment plans.	PO 9
			9.6: Interpret the various forms of overheads, and compare the different techniques of distribution.	PO 1
			9.7: Classify and judge the different types and methods of absorption.	PO 2
			9.8: Construct and design cost sheets using different costing models.	PO 9

			9.9: Recognize, infer and compare different cost accounting systems.	PO 2
			9.10: Compare and summarize profit and financial profit.	
			9.11: Infer the meaning of a contract and other terms used in contract costing.	PO 1, PO 2
			9.12: Examine in detail the usefulness and practical usage of job and batch costing.	PO 8, PO 9
			9.13: Explain and interpret various methods of costing available to different service industries and formulate costs with the help of the used methods.	PO 8, PO 9, PO 10, PO 12
			9.14: Measure and generate the cost accumulation procedure and profit for process costing.	PO 9, PO 10, PO 12
III	Information Technology & Its Application in Business (SEC 3.1 Chg)	CO-10	10.1: Comprehend the theory behind different types of business processes and management systems.	PO 1, PO 2
			10.2: Absorb the knowledge pertaining to the use of Database Management System, Data warehousing and Data Mining.	PO 1
			10.3: Relate to the theory behind computer networking and its application in today's world.	PO 1, PO 2

			10.4: Grasp the basic theory behind modern computer security and encryption mechanisms and learn different protocols.	PO 1, PO 9
			10.5: Be enlightened about IT ACT 2000 and modern cyber-crimes.	PO 1
			10.6: Create and modify text documents, perform different types of formatting and learn the basic idea behind mail merge.	PO 2, PO 3, PO 7, PO 10,
			10.7: Create, modify and format informative slides.	PO 2, PO 3, PO 7, PO 8, PO 10
			10.8: Able to apply critical functionality behind spreadsheets.	PO 2, PO 3, PO 7, PO 8, PO 10
			10.9: Create, access and modify databases through SQL.	PO 2, PO 3, PO 7, PO 8, PO 10
			10.10: Learn how to design simple web pages.	PO 2, PO 3, PO 7, PO 8, PO 10, PO 11, PO 12
III	Business Mathematics and Statistics (GE 3.3 Chg)	CO-11	11.1: Define a permutation and explain how to calculate one.	PO 1 , PO 2
			11.2: Calculate possible number of arrangements and selection of things under different condition.	PO 4 , PO 9

			11.3: Describe memberships of sets, including the empty set, using proper notation, and decide whether given items are members and determine the cardinality of a given set.	PO 1, PO 2
			11.4: Recognize when set theory is applicable to real-life situations, solve real-life problems, and communicate real-life problems and solutions to others.	PO 12
			11.5: Define a binomial coefficient.	PO 1
			11.6: Generalize the binomial theorem for any integral power in the expansion.	PO 4
			11.7: Express the logarithm of a product as a sum of logarithms.	PO 1
			11.8: Explain the concept of compound interest.	PO 1, PO 10
			11.9: Apply the concept of time value of money.	PO 11
			11.10: Calculate present value and future value.	PO 12
			11.11: Memorize and define correlation between variables.	PO 1, PO 7, PO 8
			11.12: Apply different measures of association for bivariate data.	PO 10, PO 12

			11.13: Define a simple regression model.	PO 1, PO 2, PO 4
			11.14: Assess the model with standard error.	PO 8, PO 9, PO 12
			11.15: Have knowledge on comparative social statistics.	PO 1, PO 2
			11.16: Analyse the growth of a population with methods of estimating and forecasting the same.	PO 5, PO 9, PO 12
			11.17: Explain time series with different structures.	PO 1, PO 2, PO 4
			11.18: Be able to plot time series data.	PO 9, PO 12
			11.19: Calculate probabilities by applying probability laws and theoretical results.	PO 1, PO 2, PO 12
III	Financial Accounting – II (CC 3.1 Ch)	CO-12	12.1: Comprehend the circumstances in partnership business with respect to P/S ratio, admission, retirement, death and learn the treatment of goodwill, revaluation of assets and liabilities, JLP through simple accounting problems.	PO 1, PO 2, PO 4
			12.2: Frame accounts for dissolution of the firm and deal with Piecemeal distribution.	PO 1, PO 2, PO 4
			12.3: Get acquainted with the concept of branches through various methods of branch accounting by preparing	PO 1, PO 2, PO 4, PO 10

			Branch Trading and P/L accounts and other relevant accounts and solve accounting treatment of independent branch.	
			12.4: Demonstrate the knowledge of hire purchase and installment payment system by keeping records of transaction and drafting books with HP Trading A/c, HP Debtors and General Trading A/c.	PO 1, PO 2, PO 4
			12.5: Understand the concept of departmental accounts and formulate the departmental trading, P/L account and Consolidated Trading a/c. Gaining knowledge of inter-departmental transfer of goods and calculate the amount of unrealised profit.	PO 1, PO 2, PO 3, PO 4, PO 10
			12.6: Develop the knowledge of maintaining investment ledger by drafting investment account of shares, right shares and preparing the valuation of Investment under FIFO and Average method.	PO 1, PO 2, PO 4, PO 10
			12.7: Discuss the accounting for the acquisition of business and profit/loss prior to incorporation and learn the concept of conversion of Partnership into Limited Company with and without the same set of books.	PO 1, PO 2, PO 4, PO 10

III	Indian Financial System (CC 3.2 Ch)	CO-13	13.1: Comprehend the knowledge and demonstrate Financial System & Components. To memorise and define the structure of Indian Financial Structure.	PO 1, PO 2 PO 9, P12
			13.2: Develop elementary knowledge on Money Market & Capital Market. To asses and analyse recent trends in both the markets.	PO 1, PO 2, PO 9, PO 12
			13.3: Conceptuate the role of Other Financial Institutions. Deeply analyse and learn the Credit Control and creation of RBI.	PO 1, PO 2, PO 9, PO 12
			13.4: Deeply analyse and learn the Financial Services. To gain detailed knowledge of SEBI regulations for Merchant banks and Credit rating.	PO 1, PO 2, PO 9, PO 12
			13.5: Learn the basic concept of Investors' Protections. Evaluating and Analyzing the Role of SEBI, Judiciary and Media in investors protection.	PO 1, PO 2, PO 7, PO 9, PO 12
IV	Microeconomics II and Indian Economics (GE 4.1 Chg)	CO-14	14.1: Develop knowledge on a specific form of market structure called Monopoly.	PO 1
			14.2: Identify the concept of Monopoly form of market structure with determination of market equilibrium.	PO 2

			14.3: Interpret the practical applicability of the market knowledge.	PO 3
			14.4: Classify and describe the markets of – Monopolistic Competition and Oligopoly.	PO 2
			14.5: Demonstrate different applicability of Monopolistically competitive and the Oligopoly Market with the application of Kinked demand models and Collusive and Non-Collusive concepts.	PO 3
			14.6: Relate and interpret practical application of the market with the latest developments in the field.	PO 4
			14.7: Define Marginal Productivity Theory of Distribution and, Theory of Wage.	PO 1
			14.8: Describe and identify demand curve and supply curve of labour, wage determination in an Imperfectly Competitive labour market: - case of collective bargaining.	PO 2
			14.9: Interpret the Ricardian Theory of Rent, Modern Theory of rent, Quasi Rent, Theory of Profit, and Theories of determination of Profit.	PO 6, PO 9,
			14.10: Explain the concepts and measures of development and underdevelopment.	PO 6

			14.11: Describe the concept of National Income: GDP, GNP, NNP, NDP, NI.	PO 3, PO 11
			14.12: Memorize the Sectoral distribution of National Income and occupational structure.	PO 2
			14.13: Describe the Structural change in Indian economy, and with the issues of service led growth.	PO 4, PO 5
			14.14: Interpret the problem of Poverty and Poverty alleviation measures.	PO 7
			14.15: Interpret the problem of unemployment and policy measures.	PO 8, PO 11
IV	Entrepreneurship Development and Business Ethics (CC4.1 Chg)	CO-15	15.1: Develop elementary knowledge of the meaning of entrepreneurship and its different classifications and identify the traits, skills, and attitudes necessary to be a successful entrepreneur.	PO 1, PO 4 PO 6
			15.2: Comprehend the meaning and importance of sustainable entrepreneurship and recognize the role of entrepreneurs' association and incubators and to describe the role of self-help groups towards entrepreneurial support.	PO 1, PO 4, PO 10, PO 12
			15.3: Memorise and define the sources of business idea and test of feasibility and express the meaning and nature of business plan.	PO 1, PO 2

			15.4: Gain knowledge about start-ups and critically evaluate the challenges faced by start-ups.	PO 1, PO 2, PO 10
			15.5: Develop the basic concepts and scope of ethics and estimate the benefits of corporate social responsibility in the context of globalized economic and social relations.	PO 1, PO 4
			15.6: Interpret the meaning, features, and significance of principles of business ethics and classify the basic idea, sources, and types of ethical dilemma.	PO 1, PO 7
			15.7: Describe the meaning and types of Ethics in Management and recognize the role and issues related to ethics in different areas of HRM, Marketing and Accounting & Finance.	PO 1, PO 7 PO 12
			15.8: Identify the meaning, role, and impact of corporate culture and corporate code of ethics and to analyse the Globalization and cross culture issues in ethics.	PO 1, PO 3, PO 4, PO 9
			15.9: Classify the concept, scope, benefits, and limitations of Corporate Governance and learn the concept of Corporate Governance and business ethics.	PO 1, PO 7

IV	Taxation 1 (CC 4.1 Ch)	CO-16	16.1: Recognise the importance of taxation and different types of taxation.	PO 1
			16.2: Identify various technical terms related to Income Tax.	PO 1, PO 2
			16.3: Apply rate of tax on the total income of an individual assessee.	PO 2, PO 9
			16.4: Analyse difference between Tax Planning, Tax Avoidance, Tax Evasion and Tax Management.	PO 4, PO 7
			16.5: Comprehend the provisions of determination of residential status of various person.	PO 1, PO 2
			16.6: Apply that knowledge in ascertaining the residential status of the person.	PO 2
			16.7: Examine the scope of total income depending on assessee's residential status.	PO 2, PO 9, PO 11
			16.8 Determine the various provision relating to income on which tax is not payable.	PO 1, PO 4
			16.9: Comprehend the meaning of agricultural income and its impact on tax computation of an assessee.	PO 1, PO 2
			16.10: Determine the provision relating to tax treatment of various components of the salary income.	PO 1, PO 4, PO 9

			16.11: Comprehend the knowledge in ascertaining the taxable salary income of an employee.	PO 1
			16.12: Apprehend the provision relating to computation of income from house property.	PO 2, PO 3, PO 8
			16.13: Apply the knowledge in ascertaining the income from house property.	PO 2
			16.14: Comprehend the provision relating to computation of business / professional income.	PO 1
			16.15: Exercise the knowledge in ascertaining the business or professional income.	PO 2, PO 9
			16.16: Analyse the requirement of various compliance like maintenance of books of account, tax audit, etc.	PO 4, PO 7
			16.17: Grasp the provision relating to capital assets and its different types.	PO 1
			16.18: Analyse the provision relating to computation of capital gain in case of transfer of capital assets.	PO 4
			16.19: Employ the knowledge in ascertaining capital gains.	PO 8, PO 9

			16.20: Apprehend the provision relating to computation of other income.	PO 1, PO 2
			16.21: Practice the knowledge in ascertaining the income under the head income from other sources.	PO 7, PO 8
			16.22: Recognize the different provisions relating to clubbing of income.	PO 1, PO 3, PO 4
			16.23: Utilize that knowledge in ascertaining the total income of a person.	PO 8, PO 9
			16.24: Recognize relationship between different sources of income / heads of income.	PO 2
			16.25: Analyse carry forward of losses to next assessment year.	PO 8
			16.26: Execute that knowledge in ascertaining the total income of a person.	PO 8, PO 9
			16.27: Comprehend the learning of various deductions available from the gross total income so that tax liability of the person shall be reduced.	PO 1, PO 2
			16.28: Implement that knowledge in ascertaining the total income of a person and tax on it.	PO 5, PO 7, PO 8, PO 9

			16.29: Acknowledge the conditions for claiming the rebate from tax liability of an assessee.	PO 1, PO 7
			16.30: Examine and analyse ascertaining tax liability on total income of the assessee.	PO 10, PO 11
IV	Cost and Management Accounting -II (CC 4.2 Ch)	CO-17	17.1: Comprehend the meaning of joint product and by-product and understand the difference between the two.	PO 1, PO 2
			17.2: Solve accounting problems associated with the apportionment of joint cost and treatment and accounting for by-products and decisions relating to further processing.	PO 5, PO 7
			17.3: Recognise the problems associated with traditional costing.	PO 1, PO 3
			17.4: Analyzing cost under ABC Costing after understanding the concept of Activity Based Costing-meaning, advantages, disadvantages.	PO 1, PO 7, PO 10
			17.5: Explain the concept of budget, budgetary control- meaning, objectives, advantages & disadvantages.	PO 1, PO 3
			17.6: Review types of budgets on different bases- time, condition, function, flexibility.	PO 2, PO 3, PO 6

			17.7: Learn the preparation of different functional budgets – concepts, cash budget, flexible budget.	PO 2, PO 4, PO 11
			17.8: Comprehend the meaning and objectives of standard costing and identify the significance of standard costing as a tool for cost reduction.	PO 1
			17.9: Enumerate the differences between standard costs and estimated cost, standard costing and budgetary control, standard costing, and marginal costing.	PO 2
			17.10: Interpret and Examine different kinds of variances with special reference to material variance, labour variance and overhead variance.	PO 1, PO 3, PO 11
			17.11: Evaluate the computation of all cost and revenue variances.	PO 2, PO 6, PO 7
			17.12: Summarize the concept of CVP Analysis – meaning, assumptions in CVP Analysis, and its uses.	PO 1, PO 5
			17.13: Explain and Employ the concept of Break-Even Analysis, Break-Even point, and Margin of Safety through solving problems on the same.	PO 2, PO 5, PO 10

			17.14: Illustrate the Cost Volume Profit Relationship through Graphical Representation.	PO 6, PO 11
			17.15: Prepare the Cost Statement under Marginal Costing and Absorption Costing after understanding the concept of marginal costing and absorption costing.	PO 1, PO 2, PO 7
			17.16: Infer and illustrate different techniques under Marginal Costing.	PO 4, PO 7
			17.17: List the stages and determine the factors in the short-term decision-making process of a Product or a product mix.	PO 2, PO 7, PO 11
			17.18: Explain the reasons for 'Make' or 'Buy' a product.	PO 2, PO 6
			17.19: Appraise on closing down or suspending the activity and choosing among different alternatives through simple problems.	PO 7
V	Auditing and Assurance (CC 5.1 Cg)	CO-18	18.1: Recall the meaning of accounting and explain the relationship between accounting and auditing.	PO 1, PO 12
			18.2: Define auditing, discuss the basic concepts of auditing, and appraise the learners regarding the responsibilities of auditors with respect to error and fraud.	PO 1, PO 2, PO 5

			18.3: Classify and compare the various types of audits.	PO 1, PO 5, PO 9, PO 12
			18.4: Explain the standards of auditing, its concept, and purpose.	PO 1, PO 5, PO 9, PO 12
			18.5: Discuss and differentiate between the various audit procedures and techniques and be able to differentiate between them.	PO 5, PO 10, PO 11, PO 12
			18.6: Design audits of educational institutions, hospitals, and hotels.	PO 5, PO 10, PO 11, PO 12
			18.7: Discuss the concept of audit risk and its types.	PO 1, PO 2, PO 12
			18.8: Differentiate between the concepts of internal control, internal check, and internal audit.	PO 1, PO 2, PO 12
			18.9: Formulate the steps for vouching of different items of receipts and payments.	PO 1, PO 4, PO 9, PO 10, PO 12,
			18.10: Discuss the meaning of verification and valuation, and compare these concepts with the concept of vouching.	PO 1, PO 4, PO 9, PO 10, PO 12,

			18.11: Design measurement for valuation and verification of different items of assets and liabilities.	PO 1, PO 4, PO 9, PO 10, PO 12,
			18.12: Explain the various significant aspects of a company audit.	PO 1, PO 5, PO 6, PO 12
			18.13: Explain and demonstrate various concepts relating to audit certificates and different audit reports.	PO 1, PO 8, PO 12
			18.14: Develop concepts of cost audit, management audit, tax audit, social audit, propriety audit, performance audit, and environmental audit.	PO 1, PO 9, PO 10, PO 12
V	Taxation II (CC5.2 Ch)	CO-19	19.1: Recall application of ascertainment of taxable income and computation of tax liability.	PO 1, PO 2
			19.2: Exemplify the basic and practical knowledge about the provisions for filing and assessment of return.	PO 2, PO 8, PO 9
			19.3: Compute the total tax interest and fee payable under Income Tax Act.	PO 2, PO 8, PO 9
			19.4: Discuss relevant terminologies under current indirect tax regime.	PO 1, PO 8, PO 9, PO 12
			19.5: Define the concept of Input and Output Tax and application of Input tax credit mechanism.	PO 2, PO 8, PO 9, PO 12

			19.6: Summarize the Composition Scheme.	PO 2, PO 8, PO 9, PO 12
			19.7: Interpret the concept of Customs duty with respect to the provisions of Customs Act 1962.	PO 1, PO 2, PO 8, PO 9
V	Economics II and Advanced Business Mathematics (DSE 5.1 A)	CO-20	20.1: Recall the basic concepts of macroeconomics with emphasis on the various concepts of national income accounting along with their measurement methods.	PO 1, PO 9
			20.2: Analyse and interpret the equilibrium output and income by using the concepts of consumption, investment and saving.	PO 1, PO 2, PO 8, PO 10, PO 11
			20.3: Apply the same conceptual framework in money market and commodity market under varying monetary and fiscal policy interventions.	PO 1, PO 8, PO 10, PO 11
			20.4: Develop the conceptual understanding of the theories of demand for and supply of money-types and measurements.	PO 1, PO 2, PO 10, PO 12
			20.5: Gain insight into the various macroeconomics variables viz. Inflation and Unemployment: concepts and classification.	PO 1, PO 9, PO 12
			20.6: State domain and range of a given standard function.	PO 1, PO 2, PO 9, PO 10

			20.7: Evaluate the limits of any given function using appropriate method.	PO 1, PO 2, PO 8, PO 9, PO 10, PO 12
			20.8: Test the continuity/discontinuity of a function at a given point using the concept of limit.	PO 1, PO 2, PO 8, PO 9, PO 10, PO 12
			20.9: Explain chain rule, product rule and quotient rule of differentiation and applying them in finding derivatives.	PO 1, PO 2, PO 8, PO 9
			20.10: Explain the meaning of integration and its relationship with differentiation.	PO 1, PO 2, PO 8, PO 9
			20.11: Apply the concepts of maxima/minima in solving various word problems (marginal cost /marginal revenue etc.) and calculate area using integration.	PO 1, PO 2, PO 8, PO 9, PO 10, PO 12
			20.12: Define matrix.	PO 1
			20.13: Recall the properties of adjoint and inverse of a matrix.	PO 1, PO 2, PO 8
			20.14: Apply the concept of inverse of a matrix in solving system of simultaneous equations.	PO 1, PO 2, PO 8
			20.15: Recall all the properties of determinants and apply them correctly in proving identities.	PO 1, PO 2, PO 8, PO 10

			20.16: Solve the system of simultaneous equations using determinants methods/ Cramer's Rule.	PO 1, PO 2, PO 8, PO 10
V	Corporate Accounting (DSE 5.2 A)	CO-21	21.1: Recall the concepts of issue of shares, debentures, and forfeiture of shares.	PO 1, PO 2, PO 8, PO 9, PO 10
			21.2: Explain the provisions of buy back of shares and redemption of preference shares.	PO 1, PO 2, PO 8, PO 9, PO 10
			21.3: Discuss the draft of Financial Statement of Companies following the provisions of Schedule III as per Companies Act, 2013.	PO 8, PO 9, PO 10, PO 12
			21.4: Demonstrate the provisions of redemption of debentures.	PO 9, PO 10, PO 11, PO 12
			21.5: Explain and evaluate different methods of valuation of shares and goodwill.	PO 9, PO 10, PO 11, PO 12
			21.6: Compare the provision of amalgamation in the nature of merger and purchase as well as learn about internal reconstruction.	PO 10, PO 11, PO 12

V	Consumer Behaviour and Sales Management (DSE 5.1)	CO-22	22.1: Define the major influences on consumer behaviour.	PO 1, PO 2
			22.2: Discriminate between different consumer behaviour influences and their relationships.	PO 4, PO 9
			22.3: Explain and evaluate the relevance of consumer behaviour theories and concepts of marketing decisions.	PO 2, PO 10
			22.4: Demonstrate and exemplify the social and ethical implications of marketing actions on consumer.	PO 4, PO 6, PO 7
			22.5: List the key factors in establishing and maintaining high morale in the sales force.	PO 1, PO 8, PO 11
			22.6: Develop an effective sales compensation plan.	PO 8, PO 9, PO 10, PO 12
			22.7: Evaluate the performance of a salesperson.	PO 8, PO 12
			22.8: Analyse sales and devise sales management strategies in relation to current legal and ethical standards of practice.	PO 2, PO 9, PO 10

V	Product & Pricing Management and Marketing Communication (DSE 5.2)	CO-23	23.1: Discuss the product marketing decisions based on product life cycle and product portfolio structure.	PO 1, PO 3, PO 9
			23.2: Demonstrate the importance of demographic, cultural and institutional factors in shaping the global marketing environment.	PO 8, PO 9, PO 10
			23.3: Explain the primary factors to consider in pricing.	PO 1, PO 9
			23.4: Classify elements of a brand and explain how the brand-building process contributes to success of products or services.	PO 2, PO 8, PO 9, PO 10
			23.5: Illustrate the different ways in which prices affect the values of an organization's products or services.	PO 2, PO 8, PO 9
			23.6: List the elements of communication process and their applicability in the organisation.	PO 1, PO 3, PO 4
			23.7: Discuss the significance of all elements of communication mix with emphasis on advertising.	PO 2, PO 3, PO 4, PO 10
			23.8: Analyse and evaluate the advertising process and its effectiveness.	PO 3, PO 4, PO 10

			23.9: Exemplify the legal and ethical aspects of advertising.	PO 7
			23.10: Demonstrate the sales promotion techniques and interpret the role of sales force.	PO 3, PO 4, PO 9, PO 10, PO 11
V	Public Finance and Taxation (DSE 5.1.T)	CO-24	24.1: Recall and interpret the basic theories of Public Expenditure and revenue.	PO 1
			24.2: Compare between public expenditure and private expenditure.	PO 1, PO 2
			24.3: Apply the principle of optimal taxation in analyzing various governments tax policies.	PO 4
			24.4: Comprehend and classify the role of administrative, political, and economic constraints in public finance reforms.	PO 4, PO 5
			24.5: Analyse strategy development, strategy execution, and budgeting processes in public sector organizations.	PO 9, PO 10
			24.6: Compare the federal finances and state finances of India to evaluate the issue of Public Debt.	PO 12

V	Taxation Law and Practices (DSE 5.2.T)	CO-25	25.1: Recall and interpret basic concepts of Residential Status, Incidence of Tax, Income which do not form part of Total Income.	PO 1, PO 8, PO 9
			25.2: Interpret the provisions and compute the taxable income under various heads of income & ascertain taxable income with reference to pertinent taxation provisions.	PO 8, PO 9, PO 10
			25.3: Evaluate the income of the other person included in the assessee's total income along with deduction from gross total income.	PO 8, PO 9, PO 10, PO 12
			25.4: Interpret Relief u/s 89, Double Taxation Relief, Business Restructuring.	PO 9, PO 10, PO 12
			25.5: Verify Computation of Total Income and Tax payable.	PO 9, PO 10, PO 12
V	E-Business Fundamentals of Computer (DSE 5.1 e-B)	CO-26	26.1: Define the basics of computer terminologies.	PO 1
			26.2: Recall the concepts of input and output devices of computers and how they work.	PO 1
			26.3: Explain and demonstrate how computers are net worked, along with the protocols that govern internet and application communication.	PO 2, PO 8

			26.4: Discuss and judge the applications of the various multimedia essentials.	PO 3, PO 9
V	E-Business Database Management & System Analysis and Design (DSE 5.2 e-B)	CO-27	27.1: Summarize the fundamental elements of relational database management systems.	PO 1, PO 2
			27.2: Interpret and infer the concepts of DBMS and System Development.	PO 2, PO 8, PO 10
			27.3: Familiarize with and classify basic database storage structures and access techniques like file and page organizations, indexing methods.	PO 1, PO 8, PO 9
			27.4: Summarize the principles, concepts and practice System Analysis and Design process.	PO 2, PO 9
			27.5: Demonstrate the processes of constructing different types of information systems.	PO 2, PO 8, PO 10
			27.6: Select and evaluate object-oriented concepts to capture business requirement.	PO 2, PO 9, PO 10
			27.7: Design and develop Information Systems in real world business environment.	PO 2, PO 11, PO 12

VI	Computerised Accounting System and E-filing of Tax Return (SEC 6.1 Chg)	CO-28	28.1: Recognise the different forms of income tax return.	PO 1, PO 2
			28.2: Make use of the online filling of various forms and Returns.	PO 1, PO 2, PO 10, PO 12
			28.3: Understand the process of online payment of tax.	PO 1, PO 2, PO 12
			28.4: Apprehend the process of view Form 26AS.	PO 1, PO 2, PO 10, PO 12
			28.5: Make use of online tax calculator.	PO 1, PO 2
			28.6: Understand the process of online filing of Form 10E.	PO 1, PO 2, PO 10, PO 12
			28.7: Understand the process of Accounting as per current practices.	PO 1, PO 2, PO 12
			28.8: Make use of readymade accounting reports with better accuracy and less time.	PO 10
			28.9: Develop an insight regarding management of resources.	PO 1, PO 2, PO 12

VI	Project Work (Written) Project Report (CC 6.1 Ch)	CO-29	29.1: Instill among the students the basic knowledge and spirit of entrepreneurship.	PO 1
			29.2: Encouraged to undertake independent research projects which can add value to society.	PO 1
			29.3: Give a thorough understanding of different financial aspects in the current scenario.	PO 2
			29.4: Develop oral communication skills of the students.	PO 3
			29.5: Encourage students to understand the practical aspects of trade, industry and commerce.	PO 3
VI	Financial Reporting and Financial Statement Analysis (DSE 6.1 A)	CO-30	30.1: Define Holding Company and Subsidiary Company.	PO 1
			30.2: Prepare & present consolidated balance sheet of a holding company.	PO 12
			30.3: Comprehend the use and the applicability of Ind AS in India.	PO 6
			30.4: Apply Ind AS in preparation and presentation of Financial Statements.	PO 12
			30.5: Apply Ind As, with additional disclosure when necessary.	PO 10

			30.6: Comprehend the financing of the general expansion of business firms.	PO 9
			30.7: Prepare and present a fund flow statement.	PO 10
			30.8: Analyse and interpret Fund Flow Statement using sources and application of funds.	PO 12
			30.9: Define Cash Flow Statement as per AS 3.	PO 1, PO 2
			30.10: Identify the various elements of cash and cash equivalents.	PO 4, PO 8
			30.11: Prepare & present a cash flow statement both by direct method and indirect method.	PO 12
			30.12: Comprehend the performance of the business and identify the areas of underperformance.	PO 2
			30.13: Gain an insight into vertical and & horizontal common-size analysis on financial statements.	PO 10
			30.14: Prepare & present common-size, comparative statements and to evaluate trend analysis.	PO 4
			30.15: Gain an insight into the concept of ratios and major types of accounting ratios.	PO 1, PO 2, PO 8

			30.16: Analyse the importance of ratios in judging any company.	PO 4, PO 10
			30.17: Relate quantitative data and financial statements to decode a good company.	PO 10, PO 12
			30.18: Evaluate financial performance with previous performance, competitors, industry average and economy.	PO 5, PO 12
VI	Financial Management (DSE 6.2A)	CO-31	31.1: Understand the role of finance in business and the importance of Finance Management.	PO 1
			31.2: Recognise the time value of money and the techniques to calculate the future and present value of money.	PO 2
			31.3: Identify the different sources of raising finance and evaluate the cost of capital for different sources of finance.	PO 1, PO 2, PO 8, PO 9
			31.4: Analyze how a business can lever its position to maximize returns.	PO 2, PO 5, PO 6, PO 10
			31.5: Evaluate the different ways in which a firm can decide the debt-equity mix in its capital structure to optimize the value of firm.	PO 2, PO 5, PO 6, PO 10

			31.6: Estimate the Working Capital needs, the operating or working capital cycle.	PO 1, PO 2, PO 8, PO 9, PO 10
			31.7: Evaluate the different policies and strategies of working capital financing.	PO 1, PO 2, PO 8, PO 9, PO 10
			31.8: Apply the discounted and non-discounted techniques of capital expenditure decisions.	PO 1, PO 2, PO 8, PO 9, PO 10
			31.9: Apply Walter's Model and Gordon's Model for dividend decisions.	PO 1, PO 2, PO 8, PO 9, PO 10
VI	Retail Management and Marketing of Services (DSE 6.1 M)	CO-32	32.1: Understand the concept of retailing and identifying the importance and functions of retailing.	PO 1, PO 2
			32.2: Identify the factors determining the growth of retailing in India and analyzing the impact of retail in the nation's economy.	PO 1, PO 10
			32.3: Acquire knowledge about the various types of retail and analyzing the product factors and location factors of retail format.	PO 2, PO 10
			32.4: Develop basic understanding of price factors of retail format and identifying the various factors affecting retail pricing.	PO 1, PO 3, PO 7

			32.5: Identify the needs and objectives of promotional mix in Retailing. Develop and understanding of the basic concept of customer relationship management.	PO 3
			32.6: Build the concept framework of services and the functions and nature thereof. Identifying the various types of services. Develop an understanding of service customers. Analyze the impact of service marketing in the economy of a country.	PO 4, PO 12
			32.7: Identify the different issues in the context of services marketing Develop strategies to minimize the impact of such issues.	PO 1, PO 2, PO 8
			32.8: Develop the conceptual framework of managing services quality. Acquire knowledge about the concept and importance of relationship marketing. Explore the various aspects of service communication mix. Gain insights regarding formulation of communication strategies	PO 3, PO 4 PO 8

			<p>32.9: Attain knowledge of consumer behavior and its dynamics.</p> <p>Get equipped with basic knowledge regarding service communications and its impact on consumer behavior.</p>	PO 3, PO 4
			<p>Develop the skill of understanding how consumers act and react in a market.</p> <p>Analyze the decision making process of a consumer and the related ethical issues.</p>	
			<p>32.10: Analyze the mechanism of services marketing in profit making organisations: Travel & tourism, Financial services and It services.</p> <p>Analyze the mechanism of services marketing in non-profit making organisations: Health care services and Educational services.</p>	PO 6, PO 9
VI	Rural and International Marketing (DSE 6.2 M)	CO-33	<p>33.1: Understand the concept of rural marketing and focusing on various differences between the rural and urban markets.</p>	PO 1, PO 2
			<p>33.2: Identify and analyzing the characteristics, attitude, behavior and buying patterns of the rural consumers.</p>	PO 1, PO 10

			33.3: Acquire knowledge about the various rural marketing strategies and thus analyzing the concepts of segmentation, product planning, packaging, branding and pricing decisions.	PO 2, PO 10
			33.4: Develop basic understanding of promotion, logistics and distribution in rural markets.	PO 1, PO 3, PO 7
			33.5: Understand the concept of Agricultural Marketing: Pricing, Government's role, Cooperative Marketing, also analyzing the basic problems in agricultural marketing.	PO 3
			33.6: Understand the concept of International Marketing and analyzing the strategy to market entry.	PO 4, PO 12
			33.7: Identify the different aspects of product Planning for International Marketing. Understanding the concepts of product categorisation, labeling, packaging, quality and after sales services.	PO 1, PO 2, PO 8
			33.8: Understand the concept of International Pricing and the factors affecting international pricing.	PO 3, PO 4 PO 8

			33.9: Build the concept about Promotional Tools and Distribution Channels for International Markets. Develop concepts on Foreign Sales Agents.	PO 3, PO 4
			33.10: Analyze and understanding the various import and export Policies and Practices in India.	PO 6, PO 9
VI	Indirect Tax Law and Practice (DSE6.1T)	CO-34	34.1: Remember and understand the basic concept of Indirect Taxes.	PO 1
			34.2: Connect with the genesis of goods and services tax (GST), decipher the constitutional amendment carried out to install GST in India and comprehend the composition and working of GST council.	PO 1, PO 2
			34.3: Understand the meaning of supply under GST law, differentiate between intra-state and inter-state supply, comprehend rules related to the place and time of supply and compute the value of supply.	PO 1, PO 2
			34.4: Comprehend the utilization of input tax credit, and the reverse charge mechanism of paying GST and to know the procedure for claiming refund under GST law.	PO 1, PO 2, PO 10

			34.5: Develop an idea about procedure of registration, Composition scheme, Levy and collection of Tax (under CGST, SGST, IGST, UGST).	PO 1, PO 2
			34.6: Determine the concept and procedure of filling of Returns, Payment of Tax, etc.	PO 1, PO 2, PO 12
			34.7: Understand and analyze the role of customs duty in international trade.	PO 1, PO 2
			34.8: Evaluate the procedure, valuation and computation of customs duty.	PO 2, PO 10, PO 12
VI	Tax Procedure and Planning (DSE 6.2T)	CO-35	35.1: Gather knowledge on assessment of income.	PO 1, PO 2, PO 12
			35.2: Understand the provisions relating to interest, fees, etc.	PO 1, PO 2
			35.3: Be able to know the concepts of tax law and able identify the difference between tax evasion and tax planning.	PO 1, PO 2, PO 10
			35.4: Get an idea about fundamentals of tax planning under different situations.	PO 1, PO 2, PO 10

			35.5: Apply various approaches and ways to minimize corporate tax liability within legal framework while taking advantage of deductions, exemptions, rebates and concessions provided under Income Tax Act.	PO 1, PO 2, PO 10, PO 12
			35.6: Gain the knowledge of tax planning with regard to location and nature of business.	PO 1, PO 2, PO 10, PO 12
			35.7: Learn tax planning concepts and apply the same to Corporate Business Enterprise.	PO 1, PO 2, PO 10, PO 12
			35.8: Familiarise about the tax planning incentives and export promotion.	PO 1, PO 2, PO 10
			35.9: Evaluate various management decisions from tax point of view.	PO 1, PO 2, PO 10
			35.10: Analyze tax issues relating to business restructuring practices.	PO 1, PO 2, PO 10, PO 12
			35.11: Understand the basic concepts of Transfer Pricing, Arms Length Pricing and relief from double taxation of income.	PO 1, PO 2, PO 10, PO 12

VI	Internet & WWW and Functional e-Business System (DSE-6.1 e-B)	CO-36	36.1: Demonstrate how the Internet works and what are the different layers of TCP/IP and how a message is transmitted from sender to receiver using various internet protocols. Establish working structure of internet in the organisation.	PO 1, PO 2
			36.2: Be well versed with the different technological advancements taking place in our day-to-day life. They will be able to use E-commerce incorporate it in their business with various available tools.	PO 1, PO 2
			36.3: Evaluate how businesses can use intranets and extranets to manage information in their organisation.	PO 2, PO 12
			36.4: Comprehend security related issues and will be able to identify some of the factors driving the need for network security.	PO 1, PO 2
			36.5: Demonstrate working of E-commerce with reference to direct marketing. This will also help to determine the effectiveness of market research with context of a business unit.	PO 1, PO 2

			36.6: Apply the concepts of strategic management and its nature in competitive and institutional landscape.	PO 2, PO 12
			36.7: Design their own business web sites with various available tools and increase the working boundary of their business unit.	PO 2, PO 12
			36.8: Prepare various E-payment modes available. They will be able to do online fund transfer and use it to conduct their E-commerce business effectively and efficiently.	PO 2, PO 12
			36.9: Do branding of products and identify various marketing strategies required to run their business successfully.	PO 2, PO 12
			36.10: Establish their own online business and provide services to the customers.	PO 2, PO 12
			36.11: Use their mobiles for business and use it to increase their business profits. They will be able to create their own apps.	PO 2, PO 12
VI	E-BUSINESS APPLICATION (Practical) (DSE 6.2 e-B)	CO-37	37.1: Analyse different object-oriented languages and comprehend the different facets of programming language which is ushering in a tectonic shift in the world and the ways they are impacting businesses.	PO 2, PO 3, PO 7, PO 8, PO 10, PO 11, PO 12

			37.2: Be well versed with the different technological advancements that are now finding place in the commercial environment and will acquire the ability to use them for enhancing the overall effectiveness of the enterprise.	PO 2, PO 3, PO 7, PO 8, PO 10, PO 11, PO 12
			37.3: Apply knowledge about website designing and create new modern websites for the benefit of the society as a whole.	PO 2, PO 3, PO 7, PO 8, PO 10, PO 11, PO 12
			37.4: Analyse different object-oriented languages and comprehend the different facets of programming language which is ushering in a tectonic shift in the world and the ways they are impacting businesses.	PO 2, PO 3, PO 7, PO 8, PO 10, PO 11, PO 12

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Commerce the student will be able to:

PSO-1: Practical Implementation and Testing Skills as the students will be ready for employment in functional areas like accounting, taxation, banking, insurance and corporate law.

- PSO-2:** Professional and Industry Skills Ability to work in teams with enhanced communication and inter-personal skills, to impart knowledge through the contemporary knowledge in the field of accountancy and finance in dynamic and challenging global environment. The knowledge of soft skills and critical decision making will help them work as businessmen, entrepreneur, managers, consultant etc.
- PSO-3:** Successful Career in competitive market: Students will be able to demonstrate progressive learning in various disciplines of commerce, business, accounting, economics, finance, auditing and marketing etc. They will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF PHYSICS**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF PHYSICS (HONS)
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Physics the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Select, design and apply appropriate experimental techniques with computational tools to solve problems of physics.
PO 2	Effective Communication	Communicate scientific ideas of physics clearly and effectively by involving technical language through report writing, documentation and effective presentation.
PO 3	Ethics	Formulate ethical principles and responsibilities of a physics graduate to serve the society.
PO 4	Social Interaction	Apply contextual knowledge to assess societal, health, safety and cultural issues relevant to practices, academia, industry and government guided by physics.
PO 5	Environment and Sustainability	Understand and appreciate the role of physics in finding sustainable solutions for environmental issues and related challenges.
PO 6	Self-directed and Lifelong Learning	Engage in independent and lifelong learning in broadest contexts of science and technological development and successfully compete at national and international level competitive examinations using knowledge of physics.

PO 7	Individual and team work	Perform effectively as an individual and as a leader in diverse team, in multidisciplinary setting.
PO 8	Future Employability	Enhance and adopt new skills for future employability in teaching and research through seminar, internship and collaboration.
PO 9	Competency	Successfully compete at national and international level competitive examination.

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in Physics as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Mathematical Physics I (CC-1)	CO-1 TH	1.1: Explain and illustrate the knowledge of Convergence of infinite series, First Order and Second Order Differential equations, Calculus of functions of more than one variable.	PO 1, PO 4, PO 6
		CO-1 PR	1.2: Define and reproduce the knowledge of Vector Algebra and Vector calculus, recapitulation of Vector algebra, Vector differentiation, Vector integration.	PO 1, PO 6, PO 7
			1.3: Explain the basics of Matrices.	PO 1, PO 6, PO 8
			1.4: Demonstrate plotting graphs with Gnuplot, Introduction to programming in python, the python iterables data type.	PO 1, PO 7, PO 8, PO 9

	Mechanics (CC-2)	CO-2 TH	2.1: Interpret the concepts of Fundamentals of Dynamics, Review of Newtons Laws, Dynamics of systems of particles, Variable mass system, motion of rocket.	PO 1, PO 6
			2.2: Explain the concepts of Work and Energy, Work Kinetic Energy Theorem, Qualitative study of one-dimensional motion, Energy of a system of particles.	PO 1, PO 6, PO 7
			2.3: Formulate and explain the knowledge of Gravitation and Central Force Motion, Differential equation for the path, Gravitational potential energy, Potential and field due to spherical shell and solid sphere.	PO 1, PO 9
			2.4: Reproduce and explain the concepts of Non-Inertial Systems, Rotational Dynamics, The Rigid Body, Relation between Angular momentum and Angular Velocity, Moment of Inertia Tensor.	PO 1, PO 7, PO 9
			2.5: Summarize and prepare equation of motion for rotation about a fixed axis, Fluid Motion, Kinematics of Moving Fluids.	PO 1, PO 7

		CO-2 PR	<p>2.6: Demonstrate and show the followings:</p> <ul style="list-style-type: none"> (a) The determination of the Moment of Inertia of a metallic cylinder / rectangular bar about an axis passing through the C.G. and to determine the Modulus of Rigidity of the suspension wire. (b) Demonstrate the determination of the Moment of Inertia of a Flywheel. (c) The determination of the Young's modulus, modulus of rigidity and Poisson ratio of the material of a wire by Searle's dynamic method. (d) The determination of the value of "g" using Bar Pendulum. (e) The determination of the height of a building (or a suitable vertical height) using sextant. (f) The determination of Young's modulus of the material of a beam by the method of flexure. 	PO 1, PO 2, PO 4, PO 7, PO 8, PO 9
II	Electricity and Magnetism (CC-3)	CO-3 TH	<p>3.1: Solve and explain dirac delta function and its properties, Coulombs law, Divergence, Curl of the Electrostatic Field, Dielectric properties of matter, Method of Images, Magnetic properties of matter, Electro-magnetic induction, Electrical circuits.</p>	PO 1, PO 3, PO 4, PO 8

		CO-3 PR	<p>3.2: Appraise, illustrate and show the followings:</p> <ul style="list-style-type: none"> (a) The determination of an unknown Low Resistance using Potentiometer. (b) The determination of an unknown Low Resistance using Carey Foster's Bridge. (c) The study of response curve of a Series LCR circuit. (d) The study of the ac characteristics of a series RC Circuit. Study as a low/high pass filter. (e) The study of mutual inductance between two coils. (f) The determination of the horizontal component of the Earth's magnetic field. 	PO 1, PO 2, PO 6, PO 7, PO 8, PO 9
	Waves and Optics (CC-4)	CO-4 TH	4.1: Interpret and reproduce Oscillations, Superposition of Harmonic Oscillations, Wave motion, Superposition of Harmonic waves, Interference, Interferometers, Diffraction.	PO 1, PO 2, PO 4, PO 5, PO 6, PO 9
		CO-4 PR	<p>4.2: Validate and demonstrate the followings:</p> <ul style="list-style-type: none"> (a) The determination of the frequency of an electric tuning fork by Melde's experiment and verify $\lambda^2 - T$ law. 	PO 1, PO 2, PO 4, PO 5, PO 6, PO 8

			<p>(b) The determination of the variation of refractive index of the material of a prism with wavelengths and hence the Cauchy constants using mercury/helium source.</p> <p>(c) The determination of wavelength of sodium light using Fresnel Biprism.</p> <p>(d) The determination of wavelength of sodium light/radius of plano convex lens using Newton's Rings.</p> <p>(e) The determination of the thickness of a thin paper by measuring the width of the interference fringes produced by a wedge-shaped Film.</p> <p>(f) The Measurement of the spacing between the adjacent slits in a grating by measuring $\sin\theta$ vs λ graph of a certain order of grating spectra.</p>	
III	Mathematical Physics II (CC-5)	CO-5 TH	5.1: State and interpret Fourier Series, Complex representation of Fourier series, Frobenius Method and Special Functions, Some Special Integrals, Integral Transforms, Introduction to probability, Partial Differential Equations.	PO 1, PO 3, PO 4, PO 5, PO 7, PO 8

		CO-5 PR	5.2: Validate and demonstrate, Introduction to numpy and scipy, the numpy array, Using numpy for matrix operators (the 2D numpy array, Scientific Applications – Interpolation) Numerical Integration, (for both functions and equi-spaced data), Solution of ODE, Curve fitting, Introduction to matplotlib. (Using the pyplot submodule)	PO 1, PO 6, PO 7, PO 8, PO 9
	Thermal Physics (CC-6)	CO-6 TH	6.1: Interpret and explain Introduction to Thermodynamics, Zeroth and First Law and Second Law of Thermodynamics, Carnot's Theorem, Entropy, Thermodynamic Potentials, Kinetic Theory of Gases.	PO 1, PO 2, PO 3, PO 5, PO 7, PO 8
		CO-6 PR	6.2: Demonstrate the followings: (a) The determination of the coefficient of thermal expansion of a metallic rod using an optical lever. (b) Calibration of a thermocouple by direct measurement of the thermo-emf using potentiometer and the constants. (c) The determination of the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charlton's disc method.	PO 1, PO 2, PO 3, PO 5, PO 7

			<p>(d) The determination of the boiling point of a liquid using Platinum Resistance Thermometer (PRT).</p> <p>(e) The determination of temperature Coefficient of Resistance using Carey Foster bridge.</p>	
	Modern Physics (CC-7)	CO-7 TH	7.1: Define and explain basic properties of Radiation and its nature, Blackbody Radiation, Planck's quantum hypothesis, Heisenberg uncertainty principle (Statement With illustrations).	PO 1, PO 2, PO 5, PO 8, PO 9
			7.2: Solve and explain the knowledge of Basics of Quantum Mechanics, Schrödinger equation as a first principle, one dimensional systems, Simultaneous measurements.	PO 1, PO 4, PO 5, PO 6, PO 9
			7.3: Differentiate and show Nuclear Structure, Size and structure of atomic nucleus, nature of nuclear force, NZ graph, Nuclear Models.	PO 1, PO 2, PO 4, PO 6, PO 8
			7.4: Explain Interaction with and within nucleus Radioactivity, Fission and Fusion, Lasers.	PO 1, PO 2, PO 4, PO 5, PO 6, PO 8, PO 9

		CO-7 PR	<p>7.5: Judge and demonstrate the followings:</p> <ul style="list-style-type: none"> (a) Measurement of Planck constant using LED. (b) Verification of Stefan's law of radiation by the measurement of voltage and current of a torch bulb glowing it beyond draper point. (c) Determination of e/m of electrons by using bar magnet. (d) To study the photoelectric effect: variation of photocurrent versus intensity and wavelength of light. (e) To show the tunneling effect in tunnel diode using I-V characteristics. 	PO 1, PO 2, PO 4, PO 5, PO 6, PO 8, PO 9
	Scientific Writing (SEC-A-1)	CO-8 TH	<p>8.1: Illustrate introduction to LATEX, Document classes, Page Layout, List structures, Representation of mathematical equations, Customization of fonts, Writing tables, Figures.</p>	PO 1, PO 2, PO 3, PO 5, PO 6, PO 7, PO 9
IV	Mathematical Physics III (CC-8)	CO-9 TH	<p>9.1: Employ and reproduce Complex Analysis, Variational calculus in Physics, Special theory of Relativity, Tensors Covariant and Contra variant vectors, Relativity in Four Vector Notation.</p>	PO 1, PO 3, PO 6, PO 7, PO 8, PO 9

		CO-9 PR	<p>9.2: Critique the followings:</p> <ul style="list-style-type: none"> (a) Exploring Gaussian Integrals and the delta function. (b) Solution of Differential Equation. (c) Special functions. (d) Solution of some basic PDEs. (e) Fourier Series. 	PO 1, PO 3, PO 7, PO 8, PO 9
	Analog Electronics (CC-9)	CO-10 TH	10.1: Show and explain Circuits and Network, Semiconductor Diodes and application, Bipolar Junction transistors and biasing, Field Effect transistors, Regulated power supply, Amplifiers.	PO 1, PO 2, PO 4, PO 7, PO 8
			10.2: Reveal and estimate the concepts of Feedback amplifiers and OPAMP, Application of OPAMP, Multivibrator, Oscillators.	PO 1, PO 2, PO 5, PO 7, PO 8
		CO-10 PR	<p>10.3: Judge and demonstrate the followings:</p> <ul style="list-style-type: none"> (a) To study the reverse characteristics of Zener diodes and study the load and line regulation. (b) To study the static characteristics of BJT in CE Configuration. (c) To design and study the frequency response of the BJT amplifier in CE mode. 	PO 1, PO 4, PO 5, PO 8

			<p>(d) Construction of a series regulated power supply from an unregulated power supply.</p> <p>(e) To study OPAMP: inverting amplifier, non-inverting amplifier, adder, subtractor, comparator, Schmitt trigger, Integrator, differentiator, relaxation oscillator.</p> <p>(f) To design a Wien bridge oscillator for a given frequency using an op-amp.</p>	
	Quantum Mechanics (CC-10)	CO-11 TH	11.1: Memorize and summarize Wave Packet description, Quantum mechanics of simple harmonic oscillator, hydrogen-like atoms, Generalized Angular Momenta and Spin Spectra of Hydrogen atom and its fine structure, Atoms in Electric & Magnetic Fields, Many electron atoms.	PO 1, PO 3, PO 4, PO 6, PO 8, PO 9
		CO-11 PR	11.2: Solve and explain the followings: <p>(a) Finding eigenstates solving transcendental equation.</p> <p>(b) Use of shooting algorithm.</p> <p>(c) Time Evaluation of Wave Packet.</p>	PO 1, PO 3, PO 6, PO 9
	Electrical circuits and Network skill (SEC-B-2)	CO-12 TH	12.1: Memorize and relate the fundamentals of DC generator, Transformer, AC motor, Measurements and faults.	PO 1, PO 2, PO 4, PO 5, PO 7, PO 9

V	Electromagnetic Theory (CC-11)	CO-13 TH	13.1: Produce and summarize Fundamentals of Maxwell Equations, EM Wave Propagation in Unbounded Media, EM Wave in Bounded Media, Polarization, Polarization in uniaxial crystals, Rotatory polarization.	PO 1, PO 2, PO 5, PO 6, PO 8
		CO-13 PR	13.2: Relate and explain the followings: (a) To determine Brewster's angle for air-glass interface using a prism. (b) To study Fresnel's law by the reflection on the surface of a prism. (c) To verify the Malus law using a pair of polaroids. (d) To study the specific rotation of an optically active solution using a polarimeter. (e) To determine dispersive power and resolving power of a plane diffraction grating.	PO 1, PO 3, PO 5, PO 6, PO 8
	Statistical Physics (CC-12)	CO-14 TH	14.1: Produce and interpret the knowledge of Classical Statistical Mechanics, Systems of identical particles, Bose-Einstein statistics, Radiation: classical and quantum aspects, Fermi-Dirac statistics.	PO 1, PO 3, PO 4, PO 7, PO 8, PO 9

		CO-14 PR	14.2: Reproduce and prepare the knowledge of: (a) Study of Random Numbers and Time series. (b) Applications of Random Numbers. (c) Scaling and plots, exponents and parameters.	PO 1, PO 3, PO 4, PO 6, PO 7, PO 8, PO 9
	Laser and Fiber optics (DSE-A1)	CO-15 TH	15.1: Illustrate and interpret Einstein coefficients and Rate equations, Basic properties of laser, Resonator, Transient effect, Basic Laser Systems, Practical properties and uses of laser, Fiber optics, Holography, Introductory Nonlinear Optics.	PO 1, PO 2, PO 4, PO 5, PO 7, PO 9
	Nuclear and Particle Physics (DSE-B1)	CO-16 TH	16.1: Classify and explain the concept of nuclear models and radioactivity, Nuclear Reactions, Interaction of Nuclear Radiation with matter, Detector for Nuclear Radiations, Particle Accelerators, Particle Physics.	PO 1, PO 2, PO 3, PO 5, PO 6, PO 8
VI	Digital Systems and Applications (CC-13)	CO-17 TH	17.1: Relate and summarize Integrated Circuits, Number System, Digital Circuits, Implementation of different circuits, Data processing circuits, Sequential Circuits, Registers and Counters, Computer Organization, Data Conversion.	PO 1, PO 2, PO 4, PO 6, PO 7, PO 9

		CO-17 PR	<p>17.2: Interpret and demonstrate the followings:</p> <ul style="list-style-type: none"> (a) To design OR & AND logic with diode and resistor. Basic logic gates with Transistors. To verify the logic by any type of universal gate NAND/NOR. (b) Construction of half adder and full adder. (c) Construction of SR, D, JK FF circuits using NAND gates. (d) Construction of 4-bit shift registers (serial & parallel) using D type FF IC 7476. (e) Construction of 4×1 Multiplexer using basic gates and IC 74151. 	PO 1, PO 5, PO 6, PO 8
	Solid State Physics (CC-14)	CO-18 TH	18.1: Evaluate and illustrate Crystal Structure, Elementary Lattice Dynamics, Magnetic Properties of Matter, Dielectric Properties of Materials, Drude's theory, Elementary band theory, Superconductivity.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 8, PO 9
		CO-18 PR	<p>18.2: Classify and explain the followings:</p> <ul style="list-style-type: none"> (a) To study BH hysteresis of ferromagnetic material. (b) To determine dielectric constant of different materials (solid and liquid) using fixed frequency alternating source. 	PO 1, PO 3, PO 5, PO 6, PO 9

			<p>(c) Measurement of variation of resistivity in a semiconductor and investigation of intrinsic band gap using linear four probe.</p> <p>(d) Measurement of hall voltage by four probe method.</p> <p>(e) To study temperature coefficient of a semiconductor (NTC thermistor) and construction of temperature controller with comparator and relay switch.</p> <p>(f) Measurement of magnetic susceptibility of solids.</p>	
	Nanomaterials and Applications (DSE- A2)	CO-19 TH	19.1: Employ and summarize the knowledge of Nanoscale System, Synthesis of Nanostructure Materials, Characterization, Optical Properties, Electron Transport, Applications.	PO 1, PO 2, PO 3, PO 4, PO 6, PO 7, PO 9
	Communication Electronics (DSE-B 2)	CO-20 TH	20.1: Prepare and discuss Basics of Electronic communication, Analog Modulation, Analog Pulse Modulation, Digital Pulse Modulation, Introduction to Communication and Navigation systems.	PO 1, PO 3, PO 4, PO 6, PO 8, PO 9

PHYSICS GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Physics as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Mechanics (CC-1/GE-1)	CO-1 TH	1.1: Explain and illustrate Mathematical Methods, Vector Algebra, Vector Analysis, Ordinary Differential Equations, Introduction to Newtonian Mechanics.	PO 4, PO 6
			1.2: Demonstrate Rotational Motion, Central force and Gravitation, Oscillations.	PO 1, PO 7, PO 9
			1.3: Explain and illustrate Elasticity, Hooke's law, elastic moduli, relation between elastic Constants, Torsional pendulum, Bending of beams, Cantilever.	PO 1, PO 8
			1.4: Define and reproduce Surface Tension, Molecular theory of surface tension, surface energy, comparison between surface tension and surface energy.	PO 1, PO 6, PO 7
		CO-1 PR	1.5: Demonstrate and show the followings: (a) Determination of Moment of inertia of cylinder/bar about axis by measuring the time period, of the cradle and with body of known moment of Inertia.	PO 2, PO 4, PO 8, PO 9

			<p>(b) Determination of young's modulus of a metal bar of rectangular cross section by the method of flexure.</p> <p>(c) Determination of rigidity modulus of wire by measuring the time period of torsional oscillation of a metal cylinder attached to it.</p> <p>(d) Determination of Moment of Inertia of a flywheel.</p> <p>(e) Determination of gravitational acceleration, g using bar pendulum.</p>	
II	Electricity and Magnetism (CC-2/GE2)	CO-2 TH	2.1: Interpret the concepts of Essential Vector Analysis, Vector Algebra, Gradient, divergence and Curl of Vector. Gauss' divergence theorem and Stoke's theorem.	PO 1, PO 3, PO 8
			2.2: Explain the concepts of Electrostatics, Coulombs law, Electric dipole moment, Torque on a dipole, Electric fields inside matter, Electric Polarization, divergence of the electrostatic field, flux, Gauss's theorem of electrostatics, Curl of the Electrostatic field, Energy per unit volume in electrostatic field.	PO 1, PO 2, PO 7
			2.3: Formulate and explain the knowledge of Magnetism, Biot-Savart's law, Lorentz force law, Divergence of the magnetic field, Magnetic vector	PO 1, PO 9

			potential, Curl of the magnetic field. Ampere's circuital law, Magnetic fields inside matter, Magnetic susceptibility and Permeability.	
			2.4: Reproduce and explain Faraday's laws of electromagnetic induction, Lenz's law, self and mutual inductance, L of single coil, M of two coils.	PO 1, PO 7, PO 9
			2.5: Summarize and prepare Electrodynamics, Maxwell's Equations, Displacement current, Poynting vector.	PO 1, PO 7
		CO-2 PR	2.6: Demonstrate and show the followings: (a) Determination of unknown resistance by Carey Foster method. (b) Measurement of a current flowing through a register using potentiometer. (c) Determination of the horizontal components of earth's magnetic field. (d) Conversion of an ammeter to a voltmeter. (e) Conversion of a voltmeter to an Ammeter.	PO 1, PO 4, PO 7, PO 9

III	Thermal Physics and Statistical Mechanics (CC-3/GE3)	CO-3 TH	5.1: State and interpret Laws of Thermodynamics, Zeroth Law, First law of Thermodynamics, internal energy, conversion of heat into work, Various thermo dynamical processes, Applications of First Law, General relation between C_p and C_v , Reversible and irreversible processes. Second law and Entropy, Carnot's cycle & Carnot's theorem, Third law of thermodynamics, Thermo dynamical Potentials, Enthalpy, Gibbs, Helmholtz and Internal Energy functions.	PO 1, PO 4, PO 5, PO 7
			5.2: Validate and demonstrate Kinetic Theory of Gases, Derivation of Maxwell's law of distribution of velocities, Transport Phenomena, Viscosity, Conduction and Diffusion, Law of equipartition of energy.	PO 1, PO 6, PO 7, PO 9
			5.3: Interpret and explain Theory of Radiation, Blackbody radiation, Derivation of Planck's law, Deduction of Wien's distribution law, Rayleigh-Jeans law, Stefan Boltzmann law and Wien's displacement law from Planck's law, Statistical Mechanics, Maxwell-Boltzmann distribution law, Fermi-Dirac distribution law, Bose-Einstein distribution law.	PO 1, PO 3, PO 5, PO 7

		CO-3 PR	<p>5.4: Demonstrate the followings:</p> <ul style="list-style-type: none"> (a) Determination of unknown resistance by Carey Foster method. (b) Measurement of a current flowing through a register using potentiometer. (c) Determination of the horizontal components of earth's magnetic field. (d) Conversion of an ammeter to a voltmeter. (e) Conversion of a voltmeter to an Ammeter. 	PO 2, PO 4, PO 8, PO 9
IV	Waves and Optics (CC-4/GE 4)	CO-4 TH	4.1: Employ and reproduce Acoustics, Review of SHM, damped & forced vibrations, amplitude and velocity resonance, Superposition of Two Collinear Harmonic oscillations and Two Perpendicular Harmonic Oscillations, Vibrations in String, plucked and struck strings.	PO 1, PO 3, PO 7, PO 9
			4.2: Critique Introduction to wave Optics, Huygens Principle, Interference, Division of amplitude and division of wave front, Lloyd's Mirror and Fresnel's Biprism, Newton's Rings, Diffraction, Fraunhofer and Fresnel Diffraction, Polarization, Optical activity.	PO 1, PO 3, PO 8, PO 9

		CO-4 PR	<p>4.3 Judge and demonstrate the followings:</p> <ul style="list-style-type: none"> (a) Determination of the focal length of a concave lens by auxiliary lens method. (b) Determination of the frequency of a tuning fork with the help of sonometer. (c) Determination of radius of curvature of plano convex lens/ wavelength of a monochromatic or quasi monochromatic light using Newtons ring. (d) Measurement of thickness of a paper from a wedge-shaped film. (e) Measurement of specific rotation of active solution (e.g., sugar solution) using polarimeter. 	<p>PO 1, PO 2, PO 4, PO 5, PO 9</p>
--	--	--------------------	--	--

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Physics the student will be able to:

PSO-1: Acquire fundamental and advanced level knowledge to apply in field of nuclear and particle physics particularly plasma and fusion reactor, nuclear accelerator and radiation physics together with their applications in different research institutes.

PSO-2: Gain advanced level knowledge for analyzation and creation in field of electronics particularly optical fiber communication, nanoelectronics, VLSI design, optoelectronics, control systems, microprocessor and microcontrollers together with their applications in interdisciplinary areas of science.

PSO-3: Understand the application of modern mathematical methods in developing computational logic and algorithms.

- PSO-4:** Interpret fundamental and advanced level knowledge in field of material science particularly thin film physics, laser and photonics, fundamentals of micro and nano fabrication together with their applications in materials processing for advanced applications in different leading research institutes.
- PSO-5:** Develop themselves to have basic knowledge of physics and to equip themselves to handle the apparatus used in our daily life and to be prepared for a variety of career options in the field of physics.
- PSO-6:** Familiarize with the emerging areas of physics and their applications in various areas of physical sciences. To expose the students to use different processes used in the industry according to the present requirement. They will develop their skill in practical work, experiments and laboratory use of physics and to work independently and to collaborate effectively in team work.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF CHEMISTRY**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF CHEMISTRY
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Chemistry the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Critically apply theories, methodologies and knowledge to identify and analyze current issues and trends related to chemistry and come up with intellectual and personal ideas and decisions from different perspectives.
PO 2	Effective Communication	Communicate scientific ideas clearly and effectively by involving chemistry-oriented languages through effective independent both writing and oral communication skills.
PO 3	Ethics	Apply ethical principles like safe handling of chemicals etc. and commit to professional ethics, responsibilities and norms of scientific practice.
PO 4	Social Interaction	Identify and describe the underlying principles behind varied chemical techniques relevant to academia, industry and government to inculcate scientific temperament in the inside as well as outside the scientific community.
PO 5	Environment and Sustainability	Find out sustainable solutions to far- reaching challenges, including energy provision involving green chemistry, Environmental protection, Food and water safety, Global healthcare and explore the resources to learn more about chemistry's role in sustainability.

PO 6	Self-directed and Lifelong Learning	Recognize the need for and ability to engage independently and life-long learning in the broadest context of technological changes.
PO 7	Individual and Teamwork	Develop individual and team work by functioning effectively as an individual or as a member in a group in practical classes.
PO 8	Laboratory Skills and Instrumentation	Employ scientific thinking and inquiry in the performance, design, interpretation and documentation of laboratory experiments at a level suitable to succeed at an entry-level position in the chemical industry or a chemistry graduate program. Also able to explain theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses. Again to apply the programming concept of C++ to various scientific investigations, problem solving and interpretation of chemistry related software.

DEPARTMENT OF CHEMISTRY (HONS)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Chemistry as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Inorganic Chemistry-1 (CEMA-CC-1-1-TH)	CO-1	1.1: Gain the knowledge of different quantum numbers and orbitals, filling of electrons in an atom. 1.2: Discuss different theories to define acid and base and their relative strength. Building the concept of Acid-Base equilibrium, neutralization, pH, buffer and acid base indicator.	PO 1, PO 2, PO 4, PO 7, PO 8

			1.3: Demonstrate the balancing redox reaction, elementary idea of standard redox potential with different influencing factors. Concept of redox titration and redox potential diagram.	
	Inorganic Chemistry-1 (CEMA-CC-1-1-P)	CO-1	1.4: Interpret the hands on difference between primary and secondary standard substance and titration indicator, estimation of analyte through redox reaction of single and mixture components.	
	Organic Chemistry-1A (CEMA-CC-1-1-TH)	CO-1	<p>1.5: Apply the concept of hybridization to determine the shape of different organic molecules.</p> <p>1.6: Discuss on different electronic displacement phenomenon like inductive effect, resonance effect, electromeric effect etc.</p> <p>1.7: Describe the basic idea about Molecular Orbital Theory and Huckel's rules for aromaticity and their applications.</p> <p>1.8: Explain the different physical properties like BDE and bond energy, bond angles, m.p. & b.p., dipole moment etc.</p>	PO 1, PO 2, PO 4, PO 7, PO 8

			1.9: Describe the mechanistic classification such as ionic, radical and pericyclic reaction. Explain the concepts of nucleophiles, electrophiles, electronegativity etc.	
	Organic Chemistry-O (1A) (CEMA-CC-1-1-P)	CO-1	1.10: Demonstrate the hand-on skill to determine the nature of the organic compounds on the basis of acid-base treatment.	
	Physical Chemistry-1 (CEMA-CC-1-2-TH)	CO-2	2.1: Describe the effect of pressure and temperature on the collisions of gaseous molecules. 2.2: Explain the distribution of velocities and kinetic energies among the gaseous molecules. 2.3: Recognize average, root mean square, and most probable velocities. 2.4: Identify the deviations of gases from ideal behavior.	PO 1, PO 2, PO 7, PO 8
	Physical Chemistry-1 (CEMA-CC-1-2-P)	CO-2	2.5: Derive van der Waals equation.	

	Organic Chemistry-1B (CEMA-CC-1-2-TH)	CO-2	<p>2.6: Execute the basic idea of three dimensional arrangements of the molecules, their stereo chemical features.</p> <p>2.7: Discuss on the idea of stereoisomerism (enantiomerism, diastereoisomerism) and the basic idea of resolution and racemization.</p>	PO 1, PO 2, PO 7, PO 8
	Organic Chemistry- O (1B) (CEMA-CC-1-2-P)	CO-2	2.8: Develop the skill of laboratory training to use melting point and boiling point apparatuses.	
II	Organic Chemistry-2 (CEMA-CC-2-3-TH)	CO-3	<p>3.1: Describe the advanced idea of stereochemistry leads to axial chirality, topicity, prochirality etc. and the conformational analysis of the molecules.</p> <p>3.2: Discuss on the reaction thermodynamics, acid-base equilibria and tautomerism.</p> <p>3.3: Develop the basic concept of reaction kinetics includes kinetic isotope effect and KCP vs TCP.</p> <p>3.4: Apply the concept of nucleophilic substitution (S_N1, S_N2) along with NGP and S_Ni to explain different reaction mechanisms.</p>	PO 1, PO 2, PO 4, PO 6, PO 7, PO 8

			3.5: Justify and describe the Stereochemical and regiochemical outcome of elimination (E1, E2, E1CB) reactions.	
	Organic Chemistry-2 (CEMA-CC-2-3-P)	CO-3	3.6: Demonstrate the basic skill of organic synthesis through the preparation methodology.	
	Inorganic Chemistry-2 (CEMA-CC-2-4-TH)	CO-4	<p>4.1: Develop the concept of covalent bonding using Fazan's rule, valence bond theory, hybridization, Bent's rule. Explain the VSEPR theory for determination of geometry and shape of molecule.</p> <p>4.2: Understand the Molecular Orbital Theory with LCAO, MOT diagram and orbital interaction of homonuclear diatomics and heteronuclear molecules.</p> <p>4.3: Infer the concept of Metallic bond using VB and band theories, semiconductor and insulator.</p>	PO 1, PO 2, PO 7, PO 8

			<p>4.4: Classify the nuclide based on nuclear stability and NBE. To build the concept of nuclear quantum number, magic number, artificial radioactivity, principle of determination of age of rocks and radiocarbon dating.</p> <p>4.5: Apply the concept for the determination of oxidant and reductant using iodo/iodimetric method.</p>	
	Inorganic Chemistry-2 (CEMA-CC-2-4-P)	CO-4	4.6: Enable the realistic application of iodo/iodimetric method for determination of metal content in some selective samples.	
III	Physical Chemistry-2 (CEMA-CC-3-5-TH)	CO-5	<p>5.1: Describe the knowledge of laws of thermodynamics.</p> <p>5.2: Discuss the concept of heat and work, enthalpy, internal energy, entropy, free energy, work functions.</p> <p>5.3: Demonstrate elementary idea of chemical and thermodynamic equilibrium and Le Chatelier's principle.</p> <p>5.4: Discuss of Conductance and its measurement, Ionic equilibrium and degree of ionization.</p>	PO 1, PO 2, PO 4, PO 7, PO 8

			5.5: Express the knowledge of Nernst equation, electrode potentials, and cell thermodynamics.	
	Physical Chemistry-2 (CEMA-CC-3-5-P)	CO-5	5.6: Analyze the ionization constant of weak acid and strength of unknown acid conductometrically. 5.7: Demonstrate the determination of solubility product potentiometrically. 5.8: Examine the heat of neutralization of a strong acid by a strong base.	
	Inorganic Chemistry-3 (CEMA-CC-3-6-TH)	CO-6	6.1: Discuss different general periodic property across the modern IUPAC Periodic Table. 6.2: Explain the details of the chemistry of s and p block elements with respect to hydride, halide, oxide, oxyacid and other important compounds. 6.3: Illustrate the difference of organic and inorganic polymer and discuss the synthesis, structure and application of some selected inorganic polymer. 6.4: Compare and discuss of the double and complex salt in light of Werner's Theory and	PO 1, PO 2, PO 7, PO 8

			geometrical and optical isomerism in square planar and octahedral complexes.	
	Inorganic Chemistry-3 (CEMA-CC-3-6-P)	CO-6	6.5: Understand the principle and apply the concept for determination of analyze using complexometric titration method, chromatographic and gravimetric method for separation and estimation of inorganic metal ions respectively.	
	Organic Chemistry-3 (CEMA-CC-3-7-TH)	CO-7	<p>7.1: Develop the idea of electrophilic addition to olefinic and acetylenic carbon-carbon bonds, regioselectivity of addition, functionalization, and downstream exploitation of unsaturated compounds.</p> <p>7.2: Discuss the details of functionalizing the ubiquitous benzene ring, attack of electrophiles and nucleophiles, substituents' directing ability, accessing highly functionalized aryl targets.</p> <p>7.3: Investigate the synthetic potential of the carbonyl group, its electrophilic and nucleophilic</p>	PO 1, PO 2, PO 4 PO 7, PO 8

			<p>character, formation of carbon-carbon bonds utilizing aldol and related reactions.</p> <p>7.4: Explain the reversal of polarity, construction of carbon-carbon bonds using nucleophilic carbon reagents.</p> <p>7.5: Design the synthesis of different organic compounds using Grignard reagents.</p>	
	<p>Organic Chemistry-3 (CEMA-CC-3-7-P)</p>	CO-7	<p>7.6: Develop analytical and laboratory skills.</p> <p>7.7: Interpret the results and identify errors associated with a chemical analysis based on the analytical technique and nature of the sample and evaluate experimental data.</p>	
	<p>Analytical Clinical Biochemistry (CEMA-SEC-A2)</p>	CO-8	<p>8.1: Develop the Basic ideas about structures of biopolymers and their function in the human body.</p> <p>8.2: Define the different enzyme catalysis in various biological processes & also kinetics of enzyme catalysis.</p> <p>8.3: Demonstrate the estimation techniques and tests of constituents of human urine and blood samples.</p>	<p>PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8</p>

			8.4: Develop the pathological concept and laboratory skill of how to estimate urine and blood samples.	
IV	Organic Chemistry-4 (CEMA-CC-4-8-TH)	CO-9	<p>9.1: Describe the Chemistry of nitrogen compounds such as amines, nitro & diazo compounds, exploration into the realm of carbon-nitrogen bond, synthetic potential of organic nitrogen compounds, and their importance.</p> <p>9.2: Utilize the concept of rearrangement reactions in organic chemistry and their importance in organic synthesis.</p> <p>9.3: Develop the skill for the art of synthesis in organic chemistry, retro synthetic analysis, concept of disconnection and synthons, analysis and forward synthesis plans, the concept of protecting groups, basics of stereoselective synthesis.</p> <p>9.4: Discuss on the Spectroscopic techniques as a characterization and identification tool in organic chemistry – UV, IR and ^1HNMR spectroscopy.</p>	PO 1, PO 2, PO 4, PO 7, PO 8

	Organic Chemistry-4 (CEMA-CC-4-8-P)	CO-9	9.5: Investigate the advantages and disadvantages of a variety of qualitative analysis methods to identify various organic functional groups.	
	Physical Chemistry-3 (CEMA-CC-4-9-TH)	CO-10	10.1: Discuss the Colligative properties and Phase equilibrium. 10.2: Explain the properties of Ideal solutions and Raoult's law with derivation. 10.3: Identify phase, component and degrees of freedom in the light of phase rule and phase diagram. 10.4: Utilize the concepts of Quantum mechanics, Wave function, Schrodinger time-independent equation, elementary concepts of operators and eigenfunctions. 10.5: Express the knowledge of Crystal structure of solid, Laws of crystallography. 10.6: State the Bragg's law and Specific heat of solid.	PO 1, PO 2, PO 4, PO 6 PO 7, PO 8
	Physical Chemistry-3 (CEMA-CC-4-9-P)	CO-10	10.7: Differentiate between pH-metric titration and potentiometric titration.	

			10.8: Determine the partition coefficient, Phase diagram etc.	
	Inorganic Chemistry-4 (CEMA-CC-4-10-TH)	CO-11	<p>11.1: Explain the elementary of Crystal Field Theory and to explain the magnetic property and color property of transition metal complexes.</p> <p>11.2: Compare the 3d, 4d, 5d elements in terms of electronic configuration, oxidation state, redox property and coordination chemistry.</p> <p>11.3: Explain the general physical and chemical property of lanthanides and actinides.</p> <p>11.4: Discuss the theory of kinetics and mechanism of substitution reaction in square planar and octahedral complexes.</p>	PO 1, PO 2, PO 5, PO 7, PO 8
	Inorganic Chemistry-4 (CEMA-CC-4-10-P)	CO-11	11.5: Experiment of the synthesis of different inorganic complexes using different procedures and interpret the results of such experiments.	
	Pharmaceuticals Chemistry (CEMA-SEC-B3)	CO-12	<p>12.1: Develop the concept of medicinal chemistry and the history of drug discovery leads to structure-activity relationship.</p> <p>12.2: Develop the basic idea about the Retrosynthetic analysis and forward synthesis of drugs of different kinds.</p>	PO 1, PO 2, PO 3, PO 4, PO 6, PO 7, PO 8

			<p>12.3: Describe the Fermentation techniques for common commercial products.</p> <p>12.4: Execute the basic hands-on laboratory skill of organic synthesis through the preparation of drug molecules.</p>	
V	Physical Chemistry – 4 (CEMA-CC-5-11-TH)	CO-13	<p>13.1: Describe the knowledge of Simple Harmonic Oscillator, angular momentum, Hydrogen atom and Hydrogen-like ions and LCAO method.</p> <p>13.2: Express the concept of Statistical Thermodynamics, Configuration, Equilibrium configuration.</p> <p>13.3: Explain Boltzmann distribution, partition function and adiabatic demagnetization.</p> <p>13.4: Analyze Numerical Analysis, Roots of equation, Quadratic formula, Iterative methods, Numerical differentiation and Numerical integration.</p>	PO 1, PO 2, PO 4, PO 5, PO 7, PO 8
	Physical Chemistry – 4 (CEMA-CC-5-11-P)	CO-13	<p>13.5: Operate Computer programming (Using FORTRAN) based on numerical methods.</p> <p>13.6: Calculate roots of equations, numerical differentiation and numerical integration.</p>	

	<p align="center">Organic Chemistry-5 (CEMA-CC-5-12-TH)</p>	<p>CO-14</p>	<p>14.1: Develop the concept of synthesis, reactions and importance of polynuclear hydrocarbons and heterocyclic compounds containing one heteroatom.</p> <p>14.2: Illustrate the conformational analysis of cyclohexane ring systems and case studies regarding substitution, elimination, rearrangement and oxidation reactions of cyclohexyl substrates.</p> <p>14.3: Develop the self-confidence about the FMO analysis and synthetic importance of the three fundamental pericyclic processes.</p> <p>14.4: Describe the glycochemistry - reactions and stereochemistry of monosaccharides up to hexoses.</p> <p>14.5: Classify Proteins and peptides – amino acids and describe their chemistry, formation of peptide bonds, structural hierarchy of proteins and their functions.</p>	<p>PO 1, PO 2, PO 4, PO 6, PO 7, PO 8</p>
--	--	---------------------	--	--

	Organic Chemistry-5 (CEMA-CC-5-12-P)	CO-14	<p>14.6: Design the hands-on training to set the column for chromatographic separations.</p> <p>14.7: Develop the analytical skill to interpret the unknown IR, ¹HNMR spectra of organic compounds.</p> <p>14.8: Discuss on the structural elucidation of organic compounds by IR, ¹HNMR spectral data.</p>	
	Applications of Computers In Chemistry (DSE-A2-TH)	CO-15	<p>15.1: Explain the knowledge of Computer Programming Basics (FORTRAN).</p> <p>15.2: Express the concepts of Spreadsheet Software (MS Excel), SOLVER functions, excel Goal Seek function, discussion of Statistical analysis.</p>	PO 1, PO 2, PO 4, PO 6, PO 7, PO 8
	Applications of Computers in Chemistry (DSE-A2-P)	CO-15	<p>15.3: Interpret graphs using a spreadsheet, acid-base titration curve using excel Goal Seek function.</p> <p>15.4: Develop knowledge of SOLVER and LINEST functions.</p>	

	Inorganic Materials of Industrial Importance (DSE-B1-TH)	CO-16	<p>16.1: Summarize the various structures of silicates, the properties of glass and quartz.</p> <p>16.2: Illustrate the several types of fertilizers and to interpret the N-P-K analysis of a fertilizer product.</p> <p>16.3: Discuss the composition, properties, and applications of Low alloy, high speed steel alloy, stainless steel, and commercial quality steels.</p> <p>16.4: Explain the principles and mechanisms of catalysis applications and homogeneous and heterogeneous catalysis.</p>	PO 1, PO 2, PO 4, PO 5, PO 6, PO 7, PO 8
	(DSE-B1-P)	CO-16	<p>16.5: Differentiate the fertilizers on the basis of different properties.</p> <p>16.6: Determine the % of metal in alloy and study the composition of cement.</p>	
VI	Inorganic Chemistry-5 (CEMA-CC-6-13-TH)	CO-17	<p>17.1: Explain the basic theoretical principle in analysis of cation and anion in qualitative analysis.</p> <p>17.2: Explain the role of metal ions in the active site structure of metallo-protein for transport of ion, oxygen and hydrolytic behavior.</p>	PO 1, PO 2, PO 4, PO 5, PO 6, PO 7,

			<p>17.3: Classify organometallic compound and summarize 18-electron rule and illustrate 18-electron rule to metal carbonyl, nitrosyl and cyanides to explain the structure and bonding.</p> <p>17.4: Evaluate the acid and basic radical determination.</p> <p>17.5: Understand the beneficial and toxic effect of metals in biological system.</p> <p>17.6: Gain the knowledge of catalyst characteristics, mechanism of catalytic reactions, and, design of catalytic reactors.</p>	PO 8
	Inorganic Chemistry-5 (CEMA-CC-6-13-P)	CO-17	17.7: Identify basic and acid radicals through chemical tests from a given mixture qualitatively.	
	Physical Chemistry-5 (CEMA-CC-6-14-TH)	CO-18	<p>18.1: Express the knowledge of spectroscopy in the microwave, rotational spectra of rigid diatomic molecules.</p> <p>18.2: Interpret common photochemical and photophysical methods, and able to execute these experimentally.</p> <p>18.3: Relate the idea of surface and colloid chemistry from a physical-chemical perspective.</p>	PO 1, PO 2, PO 4, PO 6, PO 7, PO 8

			18.4: Discuss on basic adsorption models, permanent dipole moments of some polar molecules in a non-polar solvent based on Debye's theory and the Guggenheim approximation.	
	Physical Chemistry-5 (CEMA-CC-6-14-P)	CO-18	18.5: Examine the molar extinction coefficient of a fluorophore spectrophotometrically. 18.6: Determine the surface tension of an unknown liquid.	
	Green Chemistry (CEMA-DSE-A3)	CO-19	19.1: Describe how to reduce waste material and by-products. 19.2: Develop to design the synthetic process where a minimum amount of waste material to be formed. 19.3: Differentiate the less hazards, less polluting materials. 19.4: Describe the alternative source of energy, use of green solvents e.g., water, super conducting water and carbon dioxide, ionic liquids, PEG.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8
	Green Chemistry (CEMA-DSE-A3P)	CO-19	19.5: Develop the basic skill of organic green synthesis through the preparation methodology in green chemistry context.	

	Dissertation (DSE-B4)	CO-20	20.1: Understand and communicate research concepts and contexts clearly and effectively both in writing and orally. 20.2: Identify and investigate research problems. 20.3: Conduct research projects in an ethical fashion. 20.4: Apply critical knowledge from research studies.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8
--	----------------------------------	--------------	---	---

CHEMISTRY GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Chemistry as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Kinetic Theory of Gases and Real Gases (CEMG-CC-1/ GE-1-TH)	CO-1	1.1: Gain the basics of ideal and real gases, knowledge of kinetic energy and its variation of temperature and pressure.	PO 1, PO 2, PO 4, PO 7, PO 8
	Liquids	CO-1	1.2: Discuss the concepts of diffusion and Viscosity of liquids. 1.3: Justify knowledge of Poiseuille's equation with derivation.	
	Chemical Kinetics	CO-1	1.4: Discuss the Rate law, order and molecularity, role of temperature on kinetics, Homogeneous catalysis.	

	Atomic Structure	CO-1	<p>1.5: Basic idea and different refinement model of extranuclear structure of atom.</p> <p>1.6: Gain the knowledge of different quantum numbers and orbitals, filling of electrons in an atom.</p>	
	Chemical Periodicity	CO-1	1.7: Discuss different general periodic property (Atomic and ionic radii, ionization potential, electron affinity, and electronegativity) across the modern IUPAC Periodic Table.	
	Acids and bases	CO-1	1.8: Discuss different theories to define acid and base and their relative strength.	
	Fundamentals of Organic chemistry	CO-1	<p>1.9: Apply the concept of hybridization to determine the shape of different organic molecules.</p> <p>1.10: Discuss on different electronic displacement phenomenon like inductive effect, resonance effect, electromeric effect etc.</p>	
	Stereochemistry	CO-1	<p>1.11: Execute the basic idea of three dimensional arrangements of the molecules, their stereo chemical features.</p> <p>1.12: Discuss on the idea of stereoisomerism (enantiomerism, diastereoisomerism).</p>	

	Nucleophilic substitution and elimination reaction	CO-1	1.13: Apply the concept of nucleophilic substitution (SN1, SN2) along with NGP to explain different reaction mechanisms.	
	(CC-1/GE-1 P)	CO-1	1.14: Demonstrate the hands on skill for quantitative estimation of different analyte using redox titration.	
II	Chemical Thermodynamics (CEMG-CC-2/ GE-2 TH)	CO-2	2.1: Gain the knowledge of laws of thermodynamics, concept of heat and work, enthalpy, internal energy, entropy, free energy, work functions, and spontaneity of the reaction.	PO 1, PO 2, PO 4, PO 6, PO 7, PO 8
	Chemical Equilibrium	CO-2	2.2: Demonstrate elementary idea of chemical and thermodynamic equilibrium and Le Chatelier's principle.	
	Solutions	CO-2	2.3: Gain the idea on properties of Ideal solutions and Raoult's law with derivation.	
	Phase Equilibria	CO-2	2.4: Explain phase, component and degrees of freedom in the light of phase rule and phase diagram.	
	Solids	CO-2	2.5: Gain the knowledge of Crystal structure of solid, Laws of crystallography, Miller indices.	

	Aliphatic Hydrocarbons	CO-2	2.6: Apply the concept of different reactions like hydrogenation, elimination reactions and addition reactions to prepare different aliphatic hydrocarbons.	
	Error analysis and Computer Applications	CO-2	2.7: Gain the knowledge of accuracy and error analysis for different chemical reactions. 2.8: Gain the concept of different components of computers and computer languages.	
	Redox reactions	CO-2	2.9: Demonstrate the balancing redox reaction, elementary idea of standard redox potential with different influencing factors. 2.10: Discuss the redox titration and its applications.	
	(CC-2/GE-2 P)	CO-2	2.11: Develop the laboratory skill to estimate the viscosity of liquid and also kinetics of different reactions.	
III	Chemical Bonding and Molecular Structure (CEMG-CC-3/GE-3 TH)	CO-3	3.1: Explain the quantitative and qualitative concept of ionic bonding in inorganic solid and its application in determining physical and chemical properties. 3.2: Describe different theories of covalent bonding (VBT, VSEPR, MOT) in covalent inorganic molecules.	PO 1, PO 2, PO 4, PO 7, PO 8

	Comparative Study of P-block Elements	CO-3	3.3: Compare p-block elements and their important compounds in terms of electronic configuration, modification of pure elements, common oxidation states and inert pair effect.	
	Transition Elements (3d series)	CO-3	3.4: Compare transition metal elements and lanthanides in terms of electronic configuration, variable valency, colour, complex forming ability, magnetic and catalytic properties.	
	Coordination Chemistry	CO-3	3.5: Illustrate Werner's coordination theory, and Valence Bond Theory (VBT) in explaining bonding and isomerisation in coordination compounds.	
	Electrochemistry 1. Ionic equilibria 2. Conductance 3. Electromotive force	CO-3	3.6: Demonstrate elementary ideas of ionic equilibrium. 3.7: Discuss of Conductance and its measurement, Ionic equilibrium and degree of ionization. 3.8: Relate the knowledge of Nernst equation, electrode potentials, and cell thermodynamics.	
	Aromatic hydrocarbons & Aryl halides	CO-3	3.9: Discuss the details of functionalization of the benzene ring to prepare nitrobenzene, halobenzene and alkyl & acyl substituted benzene compounds.	

	Organometallic compounds	CO-3	3.10: Design the synthesis of different organic compounds using Grignard reagents.	
	(CC-3/GE-3 P)	CO-3	3.11: Gain the knowledge of qualitative analysis to identify inorganic basic and acid radicals through chemical tests from a given mixture.	
IV	Alcohols, Phenols and Ethers (CEMG-CC-4/GE-4 TH)	CO-4	4.1: Develop the concept of preparations of different organic compounds like alcohol, phenol and ethers.	PO 1, PO 2, PO 4, PO 6, PO 7, PO 8
	Carbonyl Compounds	CO-4	4.2: Investigate the synthetic potential of the carbonyl group, its electrophilic and nucleophilic character, formation of carbon-carbon bonds utilizing aldol and related reactions.	
	Carboxylic acids and their derivatives	CO-4	4.3: Gain the knowledge of synthesis of different carboxylic acids and their derivatives (both aliphatic and aromatic).	
	Amines and Diazonium salts	CO-4	4.4: Describe the Chemistry of nitrogen compounds such as amines & diazo compounds, exploration into the realm of carbon-nitrogen bond, synthetic potential of organo nitrogen compounds, and their importance.	
	Amino acids and carbohydrates	CO-4	4.5: Describe the concept of biomolecules such as amino acids and carbohydrates their synthesis and reactions.	

	Crystal field theory	CO-4	4.6: Explain the elementary of crystal field theory in octahedral and tetrahedral coordination complexes.
	Quantum Chemistry & Spectroscopy	CO-4	4.7: Define the concepts of Quantum mechanics, Wave function, Schrodinger time-independent equation, elementary concepts of operators and eigenfunctions, understanding of particle in a box problem.
	(CC-4/GE 4 P)	CO-4	4.8: Gain the knowledge of qualitative analysis to identify single solid organic compounds.

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Chemistry the student will be able to:

- PSO-1:** Gain the knowledge in the fundamentals and applications of current scientific theories involved in Inorganic, Organic and Physical Chemistry.
- PSO-2:** Explain, integrate and apply relevant knowledge in emerging and varied areas of chemistry for higher studies (including different interdisciplinary fields such as environmental and materials sciences, biochemistry, nanoscience, green chemistry etc.), research and industry and to be acquainted with state of the art techniques and technologies.
- PSO-3:** Develop leadership and managerial skills promoting the need for lifelong learning as required for competent professionals.
- PSO-4:** Develop a neat experimental hand in conformity with good laboratory practices including safety measures.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF MATHEMATICS**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF MATHEMATICS
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Mathematics the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Apply mathematical knowledge in formulating, analysing and solving problems of Physical and Social Sciences.
PO 2	Effective Communication	Communicate scientific ideas clearly and effectively by involving mathematical language.
PO 3	Ethics	Develop themselves as responsible individuals by involving themselves in teamwork required for successful completion of projects and laboratory works.
PO 4	Social Interaction	Identify and describe the underlying principles behind varied mathematical techniques relevant to academia, industry and government.
PO 5	Environment and Sustainability	Understand and appreciate the role of mathematics in finding sustainable solutions for environmental issues and related challenges.
PO 6	Self-directed and Lifelong Learning	Develop among themselves the independent learning ability of new mathematical ideas and inculcate the habit of lifelong learning.
PO 7	Individual and Teamwork	Develop individual and teamwork by functioning effectively as an individual or as a member in a group in Practical classes.
PO 8	Interdisciplinary Knowledge	Develop natural skill and tendency to appreciate and acquire interdisciplinary scientific knowledge.

DEPARTMENT OF MATHEMATICS (HONS.)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Mathematics as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Calculus, Geometry & Vector Analysis (Core Course-1)	CO-1	1.1: Illustrate the knowledge of hyperbolic functions, higher order derivatives.	PO 1, PO 2, PO 4
			1.2: Evaluate curve tracing, reduction formulae, parametrizing curve, area under a curve, area and volume of surface of revolution.	PO 8
			1.3: Memorize and use the knowledge of rotation of axes and second-degree equations, classification of conics, tangent and normal, polar equations, plane and straight lines in 3D, spheres, cylindrical surfaces, central conicoid, paraboloids, plane sections of conicoids, generating lines, classification of quadrics.	PO 1, PO 5, PO 6
			1.4: Explain basics of vector analysis including vector product, vector equations and applications, vector functions, limits, continuity, differentiation and integration of vector functions.	PO 1, PO 4, PO 5

	Algebra (Core Course-2)	CO-2	2.1: Demonstrate the concepts of complex numbers, theory of equations, linear difference equations, inequalities.	PO 1, PO 6
			2.2: Reproduce relation, mapping, integers, well-ordering property of positive integers, principles of mathematical induction.	PO 1, PO 2, PO 6
			2.3: Apply the knowledge of matrices.	PO 1, PO 2
			2.4: Explain systems of linear equations, row reduction and echelon forms, vector equations.	PO 1, PO 2
II	Real Analysis (Core Course-3)	CO-3	3.1: Illustrate the knowledge of the properties of real numbers, topology of \mathbb{R} , convergence of sequences and series, intervals, neighbourhood of a point, interior point, open set, Bolzano-Weierstrass theorem.	PO 1
			3.2: Demonstrate the concepts of Real sequence, Bounded sequence, Convergence and non-convergence, Examples and illustrate the knowledge of boundedness of convergent sequence, Uniqueness of limit, Algebra of limits.	PO 3
			3.3: Explain Subsequence, Subsequential limits, \limsup as the L.U.B. and \liminf as the G.L.B of a set containing all the subsequential limits.	PO 4

			3.4: Illustrate Infinite series, convergence and non-convergence of infinite series, Cauchy criterion, tests for convergence: comparison test, limit comparison test, ratio test, Cauchy's n-th root test, Kummer's test and Gauss test.	PO 8
	Group Theory-I (Core Course-4)	CO-4	4.1: Explain the basics of groups, subgroups, cosets, cyclic groups, quotient groups and normal subgroups, order of an element, order of a group.	PO 1, PO 2, PO 3
			4.2: Employ the knowledge of Cayley's theorem, homomorphisms and isomorphisms.	PO 1, PO 2, PO 3, PO 6
III	Theory of Real Functions (Core Course-5)	CO-5	5.1: Demonstrate limit, continuity of real functions, neighbourhood properties of continuous functions, uniform continuity.	PO 1, PO 2, PO 4, PO 5
			5.2: Reproduce the knowledge of differentiability of real functions, Darboux theorem, Rolle's theorem, mean value theorems of Lagrange and Cauchy, L' Hospital's rule.	PO 1, PO 2, PO 3, PO 5
	Ring Theory & Linear Algebra-I (Core Course-6)	CO-6	6.1: Show the basic properties of rings and subrings including ideals, factor rings, homomorphisms and isomorphisms, ideal, ideal generated by a subset of a ring, factor rings, operations on ideals, prime and maximal ideals.	PO 1, PO 2, PO 4, PO 5

			6.2: Illustrate the fundamentals of vector spaces, bases, quotient spaces, linear transformations, eigenvalues and eigenvectors, Cayley-Hamilton theorem.	PO 1, PO 2, PO 3, PO 6
	ODE & Multivariate Calculus-I (Core Course-7)	CO-7	7.1: Interpret the knowledge of ordinary differential equations, linear differential equations of second order, Wronskian, planar linear autonomous systems.	PO 1, PO 2, PO 3, PO 4
			7.2: Categorize the knowledge of basic topology of \mathbb{R}^n along with limit, continuity, derivatives and differentiability of functions from \mathbb{R}^n to \mathbb{R}^m .	PO 1, PO 2, PO 3, PO 4
			7.3: Assess extrema of functions of two variables, Lagrange multipliers and constrained optimization problems.	PO 1, PO 2, PO 3, PO 6
	C Programming Language (Skill Enhancement Course-A)	CO-8	8.1: Demonstrate the fundamentals of C that include operation and expressions, decision making and branching, control statements, arrays, user-defined and library functions (stdio.h, math. h, string. h, stdlib. h, time. h etc.).	PO 1, PO 2, PO 4, PO 8

IV	Riemann Integration & Series of Functions (Core Course-8)	CO-9	9.1: Reproduce Riemann integral, Fundamental theorem of Integral Calculus, First Mean Value theorem of Integral Calculus.	PO 1, PO 2, PO 3, PO 6
			9.2: Recall necessary and sufficient condition for convergence of improper integral in both cases, use comparison and M-test and classify absolute and non-absolute convergence and inter-relations.	PO 1, PO 8
			9.3: Illustrate statements of Abel's and Dirichlet's test for convergence on the integral of a product intervals sum of whose lengths is arbitrary small.	PO 1, PO 8
	PDE & Multivariate Calculus-II (Core Course-9)	CO-10	10.1: Produce the knowledge of partial differential equations, derivation of heat equation, wave equation and Laplace equation, Cauchy problem, initial and boundary value problems.	PO 1, PO 2, PO 3, PO 4
			10.2: Use the knowledge semi-infinite string with a fixed end, semi-infinite string with a free end. interpret Equations with non-homogeneous boundary conditions, non-homogeneous wave equation, method of separation of variables, the vibrating string problem, solving the heat conduction problem.	PO 1, PO 2, PO 3, PO 6

			10.3: Interpret the knowledge of multiple integral, vector field, divergence, curl, line integrals, Green's theorem, surface integrals, Stoke's theorem, divergence theorem.	PO 1, PO 2, PO 3, PO 6
	Mechanics (Core Course-10)	CO-11	11.1: Reproduce the knowledge of coplanar forces, arbitrary force system in space, equilibrium in the presence of sliding friction force.	PO 1, PO 2, PO 6, PO 8
			11.2: Demonstrate virtual work, stability of equilibrium, conservative force field, energy test of stability, condition of stability of a perfectly rough heavy body lying on a fixed body, Rocking stones.	PO 1, PO 2, PO 6, PO 8
			11.3: Demonstrate kinematics of a particle, Newton laws of motion and gravitation, problems in particle dynamics, planar motion of a particle, motion of a particle in three dimensions, evaluate linear momentum principle, angular momentum principle, energy principle.	PO 1, PO 2, PO 6, PO 8
	Skill Enhancement Course-B (Mathematical Logic)	CO-12	12.1: Comprehend the fundamentals of Propositional Logic, semantics, truth tables, tautology, logical consequence, consistency, maximal consistency, Leindenbaum lemma.	PO 1, PO 2, PO 3, PO 8

			12.2: Employ propositional logic, theory for propositional calculus, derivation, proof, theorem, deduction theorem, conjunctive and disjunctive normal forms, semantics, truth tables, tautology, adequate set of connectives, applications to switching circuits, logical consequence, consistency, maximal consistency, Leindenbaum lemma, soundness and completeness theorems, algebraic semantics.	PO 1, PO 2, PO 4, PO 6
			12.3: Demonstrate the fundamentals of Predicate Logic, Deduction theorem, equivalence theorem, replacement theorem, choice rule, Prenex normal form, soundness theorem, completeness theorem, compactness theorem.	PO 1, PO 2, PO 4, PO 6
V	Core Course-11 (Probability & Statistics)	CO-13	13.1: Understand fundamentals of Probability and Statistics that include probability axioms, conditional probability, probability mass/density functions.	PO 1, PO 3, PO 4, PO 6
			13.2: Develop skill to evaluate Mathematical expectation, moments, distributions, joint cumulative distribution function, joint probability density functions, moments, covariance, correlation, regression, bivariate normal distribution, Markov and Chebyshev's inequality, convergence, weak law of large numbers and strong law of large numbers, central limit theorem.	PO 2, PO 3, PO 4, PO 8

			13.3: Understand fundamentals of sampling distributions, estimation of parameters, maximum likelihood method, statistical hypothesis, bivariate frequency distribution.	PO 1, PO 2, PO 3, PO 6
	Group Theory-II & Linear Algebra-II (Core Course-12)	CO-14	14.1: Relate and apply the knowledge of automorphism, direct products of groups, fundamental theorem of finite Abelian groups, External direct product and its properties, converse of Lagrange's theorem for finite Abelian group.	PO 1, PO 2, PO 3, PO 6
			14.2: Illustrate and apply the knowledge of Inner product spaces, Gram-Schmidt orthonormalization process, orthogonal complements, bilinear and quadratic forms, dual spaces, dual basis, double dual, diagonalizability, Cayley-Hamilton theorem and canonical forms.	PO 1, PO 2, PO 3, PO 8
	Advanced Algebra (Discipline Specific Elective- A)	CO-15	15.1: Understand group actions, Cayley's Theorem, Sylow's Theorem, simplicity of A_n , Cauchy's theorem, Simplicity of A_n .	PO 1, PO 2, PO 3, PO 6
			15.2: Interpret and analyse groups acting on themselves by conjugation, class equation and consequences, conjugacy in S_n , p-groups, Sylow's theorems and consequences, Cauchy's theorem.	PO 1, PO 2, PO 3, PO 6

			15.3: Interpret and analyse knowledge of rings including polynomial rings, factorization in integral domain, Gauss lemma, irreducibility criteria and Eisenstein's criterion, ring embedding and regular rings.	PO 1, PO 2, PO 3, PO 6
	Linear Programming & Game Theory (Discipline Specific Elective-B)	CO-16	16.1: Understand the definition and formation of LPP, hyperplane and convex set, simplex method, two phase method, duality, transportation & assignment problem.	PO 1, PO 3, PO 8
			16.2: Define Hyperplane, Convex set, Cone, extreme points, convex hull and convex polyhedron, supporting and separating hyperplane.	PO 1, PO 2, PO 3, PO 8
			16.3: Interpret and analyse the knowledge of fundamental notions on Game Theory, Optimal strategy and value of the game, Necessary and sufficient condition for a given strategy to be optimal in a game.	PO 1, PO 2, PO 3, PO 8
VI	Metric Space & Complex Analysis (Core Course-13)	CO-17	17.1: Interpret the knowledge of limits, continuity, derivatives, differentiability, analyticity of functions of complex variables, Cantor's intersection theorem.	PO 2, PO 4, PO 5, PO 8
			17.2: Understand the basic concepts of Power series, analytic functions represented by power series.	PO 1, PO 2, PO 4, PO 6

			17.3: Interpret Contours, evaluate complex integration along a contour and its examples, upper bounds for moduli of contour integrals, Cauchy-Goursat theorem (statement only) and its consequences, Cauchy integral formula.	PO 2, PO 4, PO 5, PO 6
			17.4: Understand the fundamental notions of metric spaces including continuity, completeness, compactness and Banach fixed point theorem.	PO 2, PO 4, PO 5, PO 6
	Numerical Methods (Core Course-14)	CO-18	18.1: Interpret the knowledge of errors and operators, representation of real numbers, Machine Numbers - floating point and fixed point.	PO 1, PO 3, PO 4, PO 5
			18.2: Evaluate using interpolation, numerical differentiation and integration.	PO 1, PO 2, PO 3, PO 5
			18.3: Understand Transcendental and polynomial equations. Evaluate root by Bisection method, Secant method, Regula-falsi method, fixed point iteration, Newton-Raphson method, Condition of convergence (if any), Order of convergence, Rate of convergence of these methods.	PO 1, PO 2, PO 3, PO 4

			18.4: Measure using the knowledge of solutions of nonlinear equations, systems of linear equations, eigenvalue problems and numerical solutions of ODE.	PO 1, PO 2, PO 3, PO 4
	Mathematical Modelling (Discipline Specific Elective- A)	CO-19	19.1: Interpret the knowledge of Power series solution, Laplace transform, Inverse Laplace transform.	PO 1, PO 2, PO 3, PO 5
			19.2: Develop skill to apply mathematics to solve real-life problems, Monte Carlo simulation modelling: simulating deterministic behaviour, Generating random numbers.	PO 1, PO 2, PO 3, PO 6
	Point Set Topology (Discipline Specific Elective-B)	CO-20	20.1: Reproduce basics of Topological space and subspace, their finite product and related notion on continuity.	PO 1, PO 2, PO 4
			20.2: Interpret Continuous functions, open maps, closed maps, homeomorphisms, topological invariants, metric topology, isometry and metric invariants.	PO 1, PO 2
			20.3: Analyse the knowledge of countability axioms, separation axioms.	PO 1, PO 2, PO 8

			20.4: Demonstrate the knowledge of connectedness and compactness. compact sets in \mathbb{R} , Heine-Borel Theorem for \mathbb{R}_n , real valued continuous function on connected and compact spaces.	PO 1, PO 2, PO 8
--	--	--	--	---------------------------------

MATHEMATICS GENERIC ELECTIVE

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in Mathematics as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	CC1/GE1	CO-1	1.1: Illustrate Complex Numbers: De Moivre's Theorem and its applications, Exponential, Sine, Cosine and Logarithm of a complex number.	PO 1, PO 6
			1.2: Demonstrate Fundamental Theorem of Algebra, Polynomials with real coefficients, the n-th degree polynomial equation has exactly n roots, Nature of roots of an equation (surd or complex roots occur in pairs), Statement of Descarte's rule of signs and its applications.	PO 1, PO 6
			1.3: Illustrate Rolle's Theorem and its direct applications, Relation between roots and coefficients, symmetric functions of roots, transformations of equations, Cardan's method of solution of a cubic equation.	PO 1, PO 6

			1.4: Evaluate Rank of a matrix: Determination of rank either by considering minors or by sweep-out process, Consistency and solution of a system of linear equations with not more than 3 variables by matrix method.	PO 1, PO 7
			1.5: Illustrate Real-valued functions defined on an interval, limit of a function, Derivative - its geometrical and physical interpretation.	PO 1, PO 6
			1.6: Demonstrate functions of two and three variables. Knowledge and use of chain rule. Euler's Theorem on homogeneous function of two and three variables.	PO 1, PO 8
II	CC2/GE2	CO-2	2.1: Illustrate Sequence of real numbers: Definition of bounds of a sequence, and monotone sequence, limit of a sequence, Infinite series of constant term, Convergence and Divergence.	PO 1, PO 6
			2.2: Demonstrate the concepts of Real-Valued functions defined on an interval, Mean value theorems of Lagrange and Cauchy, Indeterminate Forms: L'Hospital's Rule.	PO 1, PO 6
			2.3: Demonstrate Maxima and minima of functions of not more than three variables, Lagrange's Method of undetermined multipliers.	PO 1, PO 6

			2.4: Demonstrate evolution of curvature of plane curves, Rectilinear Asymptotes, Envelope of family of straight lines and of curves, singular points.	PO 1
			2.5: Evaluate Linear homogeneous equations with constant coefficients, non-homogeneous equations, method of variation of parameters, Cauchy-Euler equation, Simultaneous Differential equations, Simple eigenvalue problem.	PO 1, PO 5, PO 8
			2.6: Demonstrate addition of Vectors, multiplication of a Vector by a Scalar, Collinear and Coplanar Vectors, Scalar and Vector products of two and three vectors, simple applications to problems of Geometry, vector equation of plane and straight line, volume of Tetrahedron.	PO 1, PO 2, PO 8
			2.7: Use the concepts of Mathematical Induction, congruences, application of congruences, congruence classes, Boolean algebra.	PO 1, PO 2, PO 8
III	CC3/GE3	CO-3	3.1: Evaluate integrals, reduction formulae, Improper Integrals: Statements of (i) μ -test (ii) Comparison test (Limit from excluded), use of Beta and Gamma functions.	PO 1, PO 6
			3.2: Illustrate various numerical methods like Interpolation, Numerical Integration and Numerical Equation.	PO 1, PO 5

			3.3: Use the concepts of Linear Programming problems, Reduction of a feasible solution to a B.F.S, Standard form of an L.P.P., Solution by graphical method, Concept of Duality, Duality Theory, dual of the dual is the primal, Relation between the objective values of dual and the primal problems, Dual problems with at most one unrestricted variable, one constraint of equality, Transportation and Assignment problem and their optimal solutions.	PO 1, PO 5, PO 8
IV	CC4/GE4	CO-4	4.1: Use the knowledge of Group Theory, Ring, Field, Sub-ring, Sub-field, Vector space over a Field.	PO 1, PO 6
			4.2: Use the concepts of Computer Science and Programming, Computer Generation, Computer Anatomy Different Components of a computer system, Operating System, Hardware and Software, Introduction of Programming Language: Machine language, Assembly language and High level language, Compiler and interpreter.	PO 2, PO 4, PO 7
			4.3: Introduce Elements of probability Theory: Random experiment, Outcome, Event, Mutually Exclusive Events, Equally likely and Exhaustive Events, Bayes' Theorem, Axiomatic approach to problems, Random Variable and its Expectation, Theorems on mathematical expectation, Joint distribution of two random variables.	PO 1, PO 3

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Mathematics the student will be able to:

- PSO-1:** Solve problems of Physical Sciences, Economics and Business Studies by applying knowledge of simulation from Mathematical Modelling.
- PSO-2:** Formulate applied problems in modern mathematical language.
- PSO-3:** Demonstrate the application of modern mathematics in developing computational logic and algorithms.
- PSO-4:** Illustrate the role of Logic in developing as an individual and making a positive impact on society.
- PSO-5:** Contribute to the field of Pure and Applied Mathematics.
- PSO-6:** Get equipped for various competitive examinations where mathematical reasoning plays important roles.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF COMPUTER SCIENCE**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME OUTCOME (PO)

Upon completion of the undergraduate course in Computer Science the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Apply mathematical and scientific reasoning to a variety of problems identified based on assumptions that formulate, analyze and compare alternative solutions and check out the degree to which these assumptions are precise. Acquire inquisitive attitude and skill to enable creating an original discovery or design related to their subject.
PO 2	Effective Communication	Communicate scientific ideas clearly and effectively by using English and Mathematical/Algorithmic terms.
PO 3	Ethics	Develop themselves as a responsible individual by involving themselves in team work required for successful completion of laboratory works.
PO 4	Social Interaction	Identify and describe the underlying principles behind varied computational techniques relevant to academia, industry and society.
PO 5	Environmental and Sustainability	Understand and appreciate the role of computer science in finding sustainable solutions for environmental issues and its related challenges.
PO 6	Self-Directed and Lifelong Learning	Develop among themselves the independent learning ability of new ideas and inculcate the habit of lifelong learning.
PO 7	Individual and team work	Develop individual and team work by functioning effectively as an individual or as a group member in projects and practical classes.

DEPARTMENT OF COMPUTER SCIENCE(HONS.)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Computer Science as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Digital Logic (CMS-A-CC-1-1-TH)	CO-1	1.1: Get an insight about the various Number Systems used in Computer Science.	PO 1, PO 6
			1.2: Interpret the building blocks of digital circuits, and use them to develop bigger combinational and sequential circuits.	
	Digital Circuits (CMS-A-CC-1-1-P)		1.3: Get an idea about how to make basic digital circuits by hand.	PO 2, PO 3, PO 4, PO 7
	Programming Fundamentals using C (CMS-A-CC-1-2-TH)	CO-2	2.1: Gain knowledge on the theoretical background of the C programming language.	PO 1, PO 6
	Programming in C (CMS-A-CC-1-2-P)		2.2: Develop the ability to write programs in C language.	PO 2, PO 3, PO 4, PO 7

II	Data Structure (CMS-A-CC-2-3-TH)	CO-3	3.1: Develop an understanding about the various data structures and its applications.	PO 1, PO 6
	Data Structure using C (CMS-A-CC-2-3-P)		3.2: Acquire skill of algorithm writing techniques and use them to express the ideas behind the programs.	
		CO-4	3.3: Learn how to implement the various Data Structures in C.	PO 2, PO 3, PO 4, PO 7
	Basic Electronic Devices and Circuits (CMS-A-CC-2-4-TH)		4.1: Gain knowledge on the theoretical background that enables the proper functioning of basic electronic devices.	PO 1, PO 6
III	Basic Electronic Devices and Circuits (CMS-A-CC-2-4-P)	CO-5	4.2: Gain insight of the various electronic technologies available that are integral to the design of computer circuits.	
			4.3: Develop the ability to design electronic circuits by hand.	PO 2, PO 3, PO 4, PO 7
	Computer Organization and Architecture (CMS-A-CC-3-5-TH)	CO-5	5.1: Interpret the various components of a digital computer, and learn how they are integrated to create a Computer System.	PO 1, PO 6
	Computer Organization Lab (CMS-A-CC-3-5-P)		5.2: Get the information on how to make advanced digital circuits by hand.	PO 2, PO 3, PO 4, PO 7

	Computational Mathematics (CMS-A-CC-3-6-TH)	CO-6	6.1: Formulate and solve computational problems using the fundamental laws of Discrete Mathematics.	PO 1, PO 6
			6.2: Identify how to model real life problems by studying the structural properties of a Graph.	
			6.3: Use the concept of Numerical Methods to solve different real-life problems.	
	Computational Mathematics Lab (CMS-A-CC-3-6-P)		6.4: Translate theoretical knowledge to implement Numerical Algorithms in C Programming.	PO 2, PO 3, PO 4, PO 7
	Operating Systems (CMS-A-CC-3-7-TH)	CO-7	7.1: Gain a deep insight of the design issues and working of an Operating System.	PO 1, PO 6
	Operating Systems Lab (CMS-A-CC-3-7-P)		7.2: Acquire knowledge of writing programs using shell scripting.	PO 2, PO 3, PO 4, PO 7
	Computer Graphics (CMS-A-SEC-A-3-1-TH)	CO-8	8.1: Learn about the various display devices and the mathematical algorithms used to develop Graphics based applications.	PO 1, PO 6
	IoT(Internet of Things) (CMS-A-SEC-A-3-2-TH)	CO-9	9.1: Gain an insight of the basic building blocks of IOT devices and see how they're interconnected to create real life systems.	PO 1, PO 6

IV	Data Communication, Networking and Internet Technology (CMS-A-CC-4-8-TH)	CO-10	10.1: Develop a deep understanding of Computer Networks, the various protocols in use today and the existing architectures used to create a network.	PO 1, PO 6
			10.2: Acquire knowledge about the fundamentals of data communication.	
	Computer Networking and Web-Design Lab (CMS-A-CC-4 -8-P)		10.3: Design web-pages using HTML and CSS.	PO 2, PO 3, PO 4, PO 7
			10.4: Make web-pages more dynamic using JavaScript. 10.5: Get information about the fundamentals of working with networking cables and other networking hardware devices.	
	Introduction to Algorithms and its Applications (CMS-A-CC-4 -9-TH)	CO-11	11.1: Develop the skill of writing efficient algorithms. 11.2: Compare and contrast two or more algorithms by looking at their running time complexity and space requirements. 11.3: Gain information about the working of different graph algorithms.	PO 1, PO 6
	Algorithm Lab (CMS-A-CC-4 -9-P)		11.4: Implement Graph Algorithms using C Programming.	PO 2, PO 3, PO 4, PO 7

	Microprocessor & its Applications (CMS-A-CC-4-10-P)	CO-12	12.1: Comprehend the architecture of the 8085 microprocessor, acquire the ability to interface it with various IO devices and develop problem solving skills related to 8085 microprocessors.	PO 1, PO 6
	Programming with Microprocessor 8085 (CMS-A-CC-4-10-P)		12.2: Grasp the knowledge of the architecture of the 8086 microprocessor.	
			12.3: Implementation of theoretical knowledge using 8085 microprocessor architecture.	PO 2, PO 3, PO 4, PO 7
	Information Security (CMS-A-SEC-B-4-1-TH)	CO-13	13.1: Grasp the mathematical foundation of cryptography.	PO 1, PO 6
			13.2: Acquire knowledge about the different cryptography ciphers and algorithms.	
			13.3: Develop a deep understanding of the principles of network security.	
			13.4: Get information about the different Cyber Laws in India.	
	E-Commerce (CMS-A-SEC-B-4-2-TH)	CO-14	14.1: Grasp the basic building blocks of E-Commerce Systems.	PO 1, PO 6
			14.2: Get information about the different cryptography ciphers and algorithms.	

V	Database Management System (DBMS) (CMS-A-CC-5-11-TH)	CO-15	15.1: Design a good database for any automated system. 15.2: Visualize structured organization and access mechanisms of stored data. 15.3: Comprehend the usage of standard database packages and development of online systems.	PO 1, PO 6
	RDBMS Lab using My SQL and PHP (CMS-A-CC-5-11-P)		15.4: Gain an insight on how the database works and how to perform any kind of database-related application including the use of MySQL. 15.5: Use PHP scripting language to develop dynamic and interactive webpage design and connection with the database. 15.6: Translate theoretical concept for making a full-fledged website by using PHP, MySQL and other web-based scripting language which are already taught in the CC8 course.	PO 2, PO 3, PO 4, PO 7
	Object Oriented Programming (OOPs) (CMS-A-CC-5-12-TH)	CO-16	16.1: Comprehend the Fundamentals of Object Oriented Programming with Java. 16.2: Compare Object Oriented Programming Paradigm with its predecessor – Procedural Oriented Programming.	PO 1, PO 6

			16.3: Firmly grasp the advanced concepts of Java Programming – Multithreading, Swing, AWT, and JDBC.	
	OOPs Lab using JAVA (CMS-A-CC-5-12-P)		16.4: Solve coding problems using JAVA. 16.5: Acquire knowledge for designing GUIs using Swing and AWT. 16.6: Develop Desktop Apps by connecting GUIs made with AWT/Swing and Databases using JDBC.	PO 2, PO 3, PO 4, PO 7
	Data Mining & its Applications (CMS-A-DSE-A-2-TH)	CO-17	17.1: Acquire a comprehensive knowledge regarding the trending data science related concepts. 17.2: Get idea about data-mining problems. 17.3: Gain insight of data warehousing.	PO 1, PO 6
	Data Mining Lab (CMS-A-DSE-A-2-P)		17.4: Prepare processed data from raw information repositories. 17.5: Grasp the real-life implementation of the Machine-Learning based problems. 17.6: Perform implementations using Python programming language, some necessary packages such as Pandas, numpy, scikit-learn and other recent packages. 17.7: Excel in Artificial Intelligence and Machine Learning based industries in their career.	PO 2, PO 3, PO 4, PO 7

	Programming using Python (CMS-A-DSE-B-2-TH)	CO-18	18.1: Grasp the basic syntax of the Python Programming Language. 18.2: Grasp about the inbuilt data structures present in python – lists, strings, tuples, dictionaries and sets. 18.3: Gain idea about the differences between Python and the other OOP languages. 18.4: Develop a deep understanding of the principles of OOP in Python.	PO 1, PO 6
	Programming in Python Lab (CMS-A-DSE-B-2-P)		18.5: Learn how to write code in Python. 18.6: Learn to implement Graph algorithms in Python.	PO 2, PO 3, PO 4, PO 7
VI	Software Engineering (CMS-A-CC-6-13-TH)	CO-19	19.1: Grasp the build process of software development. 19.2: Gain knowledge on analysing any existing system for automation. 19.3: Get information and idea about maintenance requirements of any active software system.	PO 1, PO 6
	Project Documentation (CMS-A-CC-6-13-P)		19.4: Grasp the concepts required to make a SRS document.	PO 2, PO 3, PO 4, PO 7
	Theory of Computation (CMS-A-CC-6-14-TH)	CO-20	20.1: Comprehend the building blocks of different types of Automata, and the role it plays in modern computers.	PO 1, PO 6

			<p>20.2: Grasp the different types of Formal Languages and how to represent them using Grammars, Regular Expressions and Automata.</p> <p>20.3: Learn about the working principle of a Turing Machine and the different types of problems that exist in the fields of Computer Science.</p>	
	Project Presentation (CMS-A-CC-6 -14-P)		<p>20.4: Make use of the experiences accumulated during the entire course and implement a real-life project.</p>	PO 2, PO 3, PO 4, PO 7
	Multimedia and its Applications (CMS-A-DSE -A-4-TH)	CO-21	<p>21.1: Acquire sound knowledge in various areas like audio-video editing, graphic designing, web designing, VFX, creating 2-D and 3-D animation and multimedia programming.</p> <p>21.2: Prepare different forms of engaging and creative content across platforms.</p>	PO 1, PO 6
	Multimedia and its Applications Lab (CMS-A-DSE-A-4-P)		<p>21.3: Use different forms of multimedia.</p> <p>21.4: Address implementations of the multimedia-based problems.</p>	PO 2, PO 3, PO 4, PO 7

	Introduction to Computational Intelligence (CMS-A-DSE-B-3-TH)	CO-22	22.1: Gain knowledge about traditional Artificial Intelligence concepts. 22.2: Comprehend concepts of Neural Networks along with mathematical backgrounds. 22.3: Gain insight on subset of AI, i.e Fuzzy logic.	PO 1, PO 6
	Computational Intelligence Lab (CMS-A-DSE-B-3-P)		22.4: Use declarative programming languages such as Prolog. 22.5: Acquire concepts of recursive programming.	PO 2, PO 3, PO 4, PO 7
	Advance Java (CMS-A-DSE-B-4-TH)	CO-23	23.1: Write web applications using Servlets and JSP. 23.2: Develop a deep understanding of the Design Patterns and Collection Framework. 23.3: Perform Client-Side Validation using JavaScript and add dynamic content to web pages using JQuery. 23.4: Acquire the understanding of the Spring Framework and AOP.	PO 1, PO 6
	Advance Java Lab (CMS-A-DSE-B-4-P)		23.5: Development of real-life web-based applications using JAVA. 23.6: Write code using JavaScript, JQuery. 23.7: Make applications using the Spring Framework.	PO 2, PO 3, PO 4, PO 7

COMPUTER SCIENCE GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Computer Science as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Computer Fundamentals and Digital Logic Design (CMS-G-CC-1-1-TH)	CO-1	1.1: Get insight about the various Number Systems used in Computer Science. 1.2: Interpret the building blocks of digital circuits, and use them to develop bigger combinational and sequential circuits.	PO 1, PO 6
	Word Processing, Spreadsheet, Presentation and Web design by HTML (CMS-G-CC-1-1-P)		1.3: Get idea about how to make basic documents, slides and spreadsheets. 1.4: Design web-pages using HTML and CSS.	PO 2, PO 3, PO 4, PO 7
II	Algorithm & Data Structure (CMS-G-CC-2-2-TH)	CO-2	2.1: Develop an understanding of writing Algorithms. 2.2: Develop an understanding about the various data structures and its applications. 2.3: Acquire skill of algorithm writing techniques and use them to express the ideas behind the programs.	PO 1, PO 6

	Programming with C (CMS-G-CC-2-2-P)		2.4: Develop the ability to write programs in C language.	PO 2, PO 3, PO 4, PO 7
III	Computer Organization and Architecture (CMS-G-CC-3-3-TH)	CO-3	3.1: Interpret the various components of a digital computer, and learn how they are integrated to create a Computer System.	PO 1, PO 6
	Programming using Python (CMS-G-CC-3-3-P)		3.2: Learn how to write code in Python. 3.3: Learn to implement Graph algorithms in Python.	PO 2, PO 3, PO 4, PO 7
IV	Operating Systems (CMS-G-CC-4-4-TH)	CO-4	4.1: Gain a deep insight of the design issues and working of an Operating System.	PO 1, PO 6
	Shell Programming (CMS-G-CC-4-4-P)		4.2: Acquire knowledge of writing programs using shell scripting.	PO 2, PO 3, PO 4, PO 7

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Computer Science the student will be able to:

PSO-1: Training in designing digital and analogue circuits, coding in assembly-level language and adequate knowledge gain for handling computer hardware.

PSO-2: Expertise in multiple programming language, multimedia, animation, web designing & development, networking, database systems, and acquiring knowledge in other domain-based and skill-based technologies.

PSO-3: Understanding of efficient data storage and management, extraction of hidden information, developing a deep understanding of modern artificial intelligence and machine learning based systems and pursue career in Data Science.

PSO-4: Identification of real-world problems and designing efficient algorithms for attaining solutions.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF ECONOMICS**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF ECONOMICS

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Economics the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Understand the basic theories and their applications, apply economic analysis to current events, comprehend and critically evaluate different government policies. Engage in rational, objective and independent thinking so as to identify, define and logically evaluate ideas; solve problems systematically and detect inconsistencies in arguments.
PO 2	Effective Communication	Communicate effectively in written, oral and graphical form about specific economic issues. Clearly, succinctly and successfully deliver, receive and disseminate knowledge/ concepts.
PO 3	Ethics	Develop themselves as a responsible individual by involving themselves in team work required for successful completion of laboratory related works.
PO 4	Social Interaction	Take a normative i.e. a value-based approach to various social conditions and situations, such that scientific objectivity and research finds a social acceptability. Identify and describe the underlying principles behind varied economic and statistical techniques relevant to academia, industry and government.

PO 5	Environment and Sustainability	Understand and appreciate the role of economics in finding sustainable solutions for environmental issues and related challenges. Access to scientific information that is a prerequisite for increased environmental awareness and knowledge of sustainable development.
PO 6	Self-directed and Lifelong Learning	Develop among themselves the independent learning ability of new economic ideas and inculcate the habit of lifelong learning. Have a curious and open mind, willing to attend to and/or accept new or differentiated ideas.
PO 7	Individual and team work	Develop individual and team work by functioning effectively as an individual or as a member in a group in various academic presentations. Acquire the ability to engage in independent and life-long learning in the broad context of socio-economic changes.

DEPARTMENT OF ECONOMICS**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Economics as subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Core Course-1 (Introductory Microeconomics)	CO-1	1.1: Acquire knowledge to think in an economic way. 1.2: Gather information of markets and welfare. 1.3: Acquire information of markets and adjustments.	PO 1, PO 2, PO 4, PO 6

			<p>1.4: Understand market sensitivity and elasticity.</p> <p>1.5: Analyze the economic role of government intervention with respect to markets.</p> <p>1.6: Understand the knowledge of utilitarian approach.</p>	
	Core Course-2 (Mathematical Economics)	CO-2	<p>2.1: Understand the various concepts and tools of mathematics applicable to economic analysis.</p> <p>2.2: Analyze and interpret the concept of single variable functions and how to functionally establish basic economic principles and laws.</p> <p>2.3: Acquire knowledge on optimization and its economic applications.</p> <p>2.4: Interpret the concepts of integral calculus and their economic application.</p> <p>2.5: Impart knowledge on matrix algebra and how to empirically interpret microeconomic and macroeconomic principles.</p>	PO 1, PO 2, PO 4, PO 6

			2.6: Acquire knowledge on concepts of game theory and its application in economic theory.	
II	Core Course-3 (Introductory Macroeconomics)	CO-3	<p>3.1: Gather information about the basic concepts of National Income Accounting.</p> <p>3.2: Acquire knowledge on the determination of the basic macroeconomic indicators in a closed economy simple Keynesian model.</p> <p>3.3: Develop ideas about Classical macroeconomics and policy making.</p> <p>3.4: Acquire knowledge on the macroeconomic foundations.</p>	PO 1, PO 2, PO 3 PO 4, PO 6
	Core Course-4 (Mathematical Methods in Economics II)	CO-4	<p>4.1: Analyze and interpret the concept of multivariable functions and how to functionally establish basic economic principles and laws.</p> <p>4.2: Acquire knowledge on the methods of analyzing and interpreting economic theories and concepts with the help of mathematical techniques like multivariable optimization.</p> <p>4.3: Develop quantitative analytical skills in difference equations necessary for future research.</p>	PO 1, PO 2, PO 4, PO 6

			4.4: Develop quantitative analytical skills in differential equations necessary for future research.	
III	Core Course-5 (Intermediate Microeconomics I)	CO-5	5.1: Remember and interpret the concepts of theories of consumer behaviour and applications. 5.2: Acquire knowledge on the concepts and applications of the theories of production and costs. 5.3: Develop the ability to understand different market structures and to focus on perfectly competitive market and consequences of government intervention. 5.4: Acquire knowledge on the factor markets in the presence of perfect competition.	PO 1, PO 2, PO 4, PO 6
	Core Course-6 (Intermediate Macroeconomics-I)	CO-6	6.1: Gain advanced knowledge on the determination of the basic macroeconomic indicators in a demand-constrained economy. 6.2: Interpret the complete modeling of an underemployed economy. 6.3: Develop the ability to distinguish between the modeling of an underemployed economy and a full-employed economy.	PO 1, PO 2, PO 4, PO 6

			<p>6.4: Understand the fundamental concepts of money supply and its control.</p> <p>6.5: Understand the concepts, measurements and modeling of inflation and unemployment.</p>	
	Core Course-7 (Statistical Methods for Economics)	CO-7	<p>7.1: Understand the basics of statistics and its application in economics.</p> <p>7.2: Understand and apply the knowledge of different measures of descriptive statistics.</p> <p>7.3: Understand and interpret the basic elements of probability.</p> <p>7.4: Understand probability distributions of discrete and continuous random variable and its application.</p> <p>7.5: Acquire knowledge of different methods of sampling and its applications.</p> <p>7.6: Critically analyze the basic concepts of estimation and statistical inference.</p>	PO 1, PO 2, PO 4, PO 6
	Skill Enhancement Course-A (1. Data Analysis)	CO-8	<p>8.1.1: Learn about collection and representation of data, using statistical software for data management.</p> <p>8.1.2: Gain information on various official data sources in India and their collection methodologies.</p>	PO 1, PO 2, PO 4, PO 6, PO 7

	(2. Rural Development)		<p>8.2.1: Understand the various concepts of rural development, agricultural development and rural non-farm sector.</p> <p>8.2.2: Acquire knowledge and analyze the role of panchayats in rural development.</p> <p>8.2.3: Acquire knowledge and analyze the role of rural credit and self-help groups for promoting rural development.</p> <p>8.2.4: Critically evaluate various government programs on rural development.</p>	
IV	Core Course-8 (Intermediate Microeconomics-II)	CO-9	<p>9.1: Develop the ability to understand different aspects of imperfect market structure and to focus on monopoly, monopolistic competition and oligopoly.</p> <p>9.2: Acquire knowledge and obtain clear and comprehensive understanding of the basic concepts of input markets under imperfect competition.</p> <p>9.3: Learn the basic concepts of underlying theories of general equilibrium, efficiency and welfare.</p>	PO 1, PO 2, PO 4, PO 6
	Core Course-9 (Intermediate Macroeconomics II)	CO-10	<p>10.1: Understand the fundamental laws in New Classical and New Keynesian macroeconomic models, and hence know advanced theories emerging in these two realms.</p>	PO 1, PO 2, PO 4, PO 6

			<p>10.2: Learn the behaviour and dependence of consumption and demand for money, primarily on income.</p> <p>10.3: Acquire knowledge on the theories of economic growth and hence devise policies to promote long term growth.</p>	
	Core Course-10 (Introductory Econometrics)	CO-11	<p>11.1: Understand the compatibility between econometric theory and statistical analysis.</p> <p>11.2: Acquire knowledge on the application of statistical tools (Two Variable Classical Regression model) in theoretical economic models.</p> <p>11.3: Acquire knowledge on the application of statistical tools (Multiple Variable Classical Regression model) in theoretical economic models.</p> <p>11.4: Acquire knowledge on empirical analysis of economic models using statistical inference.</p> <p>11.5: Acquire knowledge on the problems faced in the application of statistical tools in economic analysis.</p> <p>11.6: Gather information on the problems of incorrect model specification and its analysis.</p>	PO 1, PO 2, PO 4, PO 6

	Skill Enhancement Course-B (1. Research Methodology)	CO-12	12.1.1: Acquire knowledge on how to conduct research – both theoretical and empirical. 12.1.2: Acquire knowledge on how to write a research paper.	PO 1, PO 2, PO 4, PO 6, PO 7
	(2. Managerial Economics)		12.2.1: Interpret the concepts of estimation of cost and cost-volume-profit analysis. 12.2.2: Understand the factors governing price and methods of price forecasting. 12.2.3: Acquire knowledge on the needs and steps of traditional and modern methods of capital budgeting. 12.2.4: Gather information on the cost of capital and retained earnings. 12.2.5: Gather information on the concepts of inventory management.	
V	Core Course-11 (International Economics)	CO-13	13.1: Obtain clear and comprehensive understanding of the basic concepts of the absolute and comparative advantage of trade. 13.2: Acquire knowledge on the building blocks of trade theory. 13.3: Learn the basic concepts underlying H-O theorem, Stolper-Samuelson theorem, Rybczynski theorem, Factor price equalization theorem and Leontief Paradox.	PO 1, PO 2, PO 3, PO 4, PO 6

			<p>13.4: Acquire knowledge on the application of Neo-classical trade models for developing countries.</p> <p>13.5: Develop the ability to distinguish between the partial equilibrium analysis of tariff in small country and large country.</p> <p>13.6: Understand the concept of the determination of equilibrium income in an open economy, the adjustment of demand and supply of foreign exchange and the effects of devaluation.</p>	
	Core Course-12 (Indian Economy)	CO-14	<p>14.1: Gather information on the development policies undertaken in India since 1947.</p> <p>14.2: Analyse the structure, characteristics and growth trends of population and human development in India .</p> <p>14.3: Acquire knowledge on important macroeconomic parameters in India.</p> <p>14.4: Understand various reform measures introduced under the New Economic Policy 1991.</p>	PO 1, PO 2, PO 3, PO 4, PO 6, PO 7
	Discipline Specific Elective- A (1. Applied Econometrics)	CO-15	<p>15.1.1: Get information on the use of econometric models in empirical research.</p> <p>15.1.2: Acquire awareness on regression diagnostics and specification.</p>	PO 1, PO 2, PO 4,

			15.1.3: Acquire knowledge on the use of statistical tool for cross section analysis, time series analysis and panel data analysis.	PO 6, PO 7
	(2.Economic History of India)		15.2.1: Procure information on the impact of the British rule in pre-independent India. 15.2.2: Gain knowledge on different aspects of economic policies taken by the British in India.	
	Discipline Specific Elective- B (1.Comparative Economic Development)	CO-16	16.1.1: Procure knowledge on different strategies undertaken for development. 16.1.2: Attain awareness about the development experience of different regions across the world like Latin America, Africa etc.	PO 1, PO 2, PO 4, PO 6
	(2. Financial Economics)		16.2.1: Gain information on investment theory and optimal portfolio management and analysis. 16.2.2: Gain knowledge on financial instruments like options and derivatives. 16.2.3: Acquire knowledge on corporate finance.	

VI	Core Course-13 (Public Economics)	CO-17	<p>17.1: Acquire knowledge on the role of government in a market economy.</p> <p>17.2: Obtain information on public goods and their importance in contemporary economies.</p> <p>17.3: Gain actualities on taxation, its policies and impacts.</p> <p>17.4: Attain facts and data on all aspects of fiscal income expenditure structure.</p>	PO 1, PO 2, PO 4, PO 6
	Core Course-14 (Development Economics)	CO-18	<p>18.1: Gather information on the concepts of growth and development.</p> <p>18.2: Analyse inequality and development and the different measures of inequality.</p> <p>18.3: Analyse and evaluate surplus labour and disguised unemployment and also transformation of the society.</p> <p>18.4: Obtain information and observe different aspects of demography and different models of population growth and economic development.</p> <p>18.5: Gain insight to distinguish between balanced and unbalanced growth theories and on the selection of techniques of production.</p> <p>18.6: Get information on political institutions and determinants of democracy.</p>	PO 1, PO 2, PO 4, PO 5, PO 6, PO 7

	Discipline Specific Elective- A (1. Money and Financial Markets)	CO-19	19.1.1: Gain an overview of the money and banking sector. 19.1.2: Acquire knowledge on financial institutions, markets, instruments and innovations. 19.1.3: Gain insight into the cost of funds. 19.1.4: Acquire knowledge on the banking systems in economies with special reference to India. 19.1.5: Understand and interpret the functions of central banks and its role in monetary policy with special reference to India.	PO 1, PO 2, PO 4, PO 6, PO 7
	(2. Issues in Indian Economy)		19.2.1: Acquire knowledge on the trends of growth and structural changes in national income. 19.2.2: Acquire knowledge on different macroeconomic policies and their impacts. 19.2.3: Acquire knowledge on policies and performance of the agrarian structure of the country. 19.2.4: Acquire knowledge on the policies and performance of the industrial sector of India. 19.2.5: Acquire knowledge on trends and performance in different sectors of the economy.	

	Discipline Specific Elective-B (1. Environmental Economics)	CO-20	20.1.1: Acquire knowledge on the interlinkages between the economy and the environment. 20.1.2: Acquire knowledge on the presence of externalities and how it leads to market failure. 20.1.3: Acquire knowledge on the design and implementation of different environmental policies. 20.1.4: Acquire knowledge on how to tackle different international environmental problems. 20.1.5: Acquire knowledge on the valuation of environmental costs and benefits.	PO 1, PO 2, PO 4, PO 5, PO 6, PO 7
	(2. Issues in Development Economics)		20.2.1: Acquire knowledge on the issues of demography and economic development. 20.2.2: Acquire knowledge on the contractual relationship between land labour and credit markets. 20.2.3: Acquire knowledge about individual and collective behaviour in social environments. 20.2.4: Acquire information and analyse about issues relating to environment and sustainable development. 20.2.5: Understand the concept of globalization from a historical perspective and the study of India in this context.	

PROGRAMME SPECIFIC OUTCOME (PSO)

Upon completion of the undergraduate course in Economics the student will be able to:

PSO 1: Acquire valuable knowledge on the basic tenets of Economics that affect the socio-economic lives of every citizen of any nation.

PSO 2: Increase employability prospects - both at the corporate and/or academic levels.

PSO 3: Acquire knowledge to undertake research in the future.

PSO 4: Equipped to undertake multi-disciplinary courses and projects in the future.

PSO 5: Possess essential knowledge required to innovate and design effective solutions in various contemporary and emerging areas of Economics.

PSO 6: Engage and succeed in academic/ professional careers through teamwork, leadership and managerial skills, ethical behaviour, effective communication and the understanding of life-long learning.

PSO 7: Develop analytical abilities through interactive and participative learning.

PSO 8: Utilize information and communication technology (ICT) and its multifaceted dimensions for innovating ideas and acquiring new ideas in emerging varied areas of economics.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF ELECTRONICS**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF ELECTRONICS
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Electronics the student will acquire:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Apply knowledge of the fundamentals of Electronics with focus on Physics to theoretical principles for practical situations.
PO 2	Effective Communication	Become good and well-trained communicators to serve the society by dispelling biased and superstitious beliefs through their learning.
PO 3	Ethics	Become responsible and sincere citizens since this subject inculcates scientific temper.
PO 4	Social Interaction	Co-ordinate with one another and find impetus to perform well as a team which will inculcate sustainable social behaviour in the long run.
PO 5	Environment and Sustainability	Understand and appreciate the role of underlying physical principles in finding sustainable solutions for environmental issues and related challenges.
PO 6	Self-directed and Lifelong Learning	Find ample encouragement to pursue higher studies in the subject, conduct research work and sustain the future based on lifelong research learning.
PO 7	Individual and Teamwork	Develop individual and team work by functioning effectively as an individual or as a group member to uphold social behaviour.

DEPARTMENT OF ELECTRONICS (HONOURS SUBJECTS)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Electronics as an Honours subject, the student will acquire:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	Basic Circuit Theory and Network Analysis (ELT-A-CC-1-01)	CO-1	1.1: Knowledge and insight of physical laws and theorems as driving concepts in real circuits in both dc and ac domains. 1.2: Knowledge of physical laws and theorems applied to real circuits in both dc and ac domains.	PO 1, PO 4, PO 5, PO 7
	Mathematics Foundation for Electronics (ELT-A-CC-1-02)	CO-2	2.1: Concepts of mathematical foundations and various algebraic tools to solve complicated differential equations governing real systems. 2.2: Programmatic approach to solve the algebraic problems, matrices and higher order differential equations.	PO 1, PO 2, PO 4, PO 6, PO 7
II	Applied Physics (ELT-A-CC-2-03)	CO-3	3.1: Knowledge and insight of various physical processes governing the structures of materials. 3.2: Knowledge of optical, mechanical, electrical and thermal properties of matter and materials.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6 PO 7

			3.3: Interpretation of the knowledge of variety of material properties as hands-on experiments.	
	C Programming and Data Structures (ELT-A-CC-2-04:)	CO-4	<p>4.1: Knowledge of basic foundation and pedagogic interpretation of programming in C.</p> <p>4.2: Insight and solve the problems modelled as mathematical systems in a logical programmatic approach using C.</p>	PO 1, PO 2, PO 3, PO 4, PO 6, PO 7
III	Semiconductor Devices (ELT-A-CC-3-05)	CO-5	<p>5.1: Interpretation of the operational principles of electronic devices to understand their usefulness and viability.</p> <p>5.2: Exemplification of the semiconductor devices in different usages according to necessity as hands-on experiments.</p>	PO 1, PO 4, PO 5, PO 6, PO 7
	Electronic Circuits (ELT-A-CC-3-06)	CO-6	<p>6.1: Fundamental concepts about the electronic circuits and their functionalities involving device operation.</p> <p>6.2: Design and interpretation of electronic circuits and their functionalities involving device operation. Experimentation facilitates to better understand the working principles of the devices.</p>	PO 1, PO 4, PO 5, PO 6, PO 7

	Electromagnetics (ELT-A-CC-3-07)	CO-7	<p>7.1: The basic foundation of electromagnetic (EM) theory and its pervasive importance.</p> <p>7.2: Better visualization of electric and magnetic fields and their mathematical manipulations which are the central concepts in EM theory by means of simulation.</p>	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7
	Circuit Modeling using PSPICE (SEC-1: ELT-A-SEC-3-A-2)	CO-8	8.1: Knowledge of electric and electronics circuit design and development using coding knowledge.	PO 1, PO 5, PO 6
IV	Operational Amplifiers and Applications (ELT-A-CC-4-08)	CO-9	<p>9.1: Insight and interpretation of the fundamental analog electronic devices which make up larger electronic equipment.</p> <p>9.2: The related practical knowledge to exemplify electronic circuits through hands-on experimentation.</p>	PO 1, PO 4, PO 5, PO 6, PO 7
	Digital Electronics and VHDL (ELT-A-CC-4-09)	CO-10	<p>10.1: The knowledge of fundamental digital electronic devices which make up larger electronic equipment and the language to generate simulation of the related circuits.</p> <p>10.2: Practical knowledge to exemplify electronic circuits through execution of the hardware and language simulation in laboratory.</p>	PO 1, PO 2, PO 5, PO 6 PO 7

	Signals and Systems (ELT-A-CC-4-10)	CO-11	11.1: Understanding, classification and interpretation of signals and how systems are built based on different signals. 11.2: Mathematical coding knowledge to interpret signals and checking their properties through simulation software.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7
	Programming with Matlab/Scilab (SEC-2: ELT-A-SEC-4-B-2)	CO-12	12.1: Appreciation of simulation software through programming with Matlab/Scilab.	PO 1, PO 5, PO 6
V	Electronic Instrumentation (ELT-A-CC-5-11)	CO-13	13.1: Understanding, classification and conceptual insight of electrical and electronic measurement and how they are standardized. 13.2: Related experimentation to appreciate the standards of instrumentation.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7
	Microprocessors and Microcontrollers (ELT-A-CC-5-12)	CO-14	14.1: Concepts of microprocessors and microcontrollers and realization of how systems are automated. 14.2: Coding knowledge in microprocessors and microcontrollers.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7
	Control Systems (DSE-1: ELT-A-DSE-5-A-2)	CO-15	15.1: Insight of concepts and pedagogic foundation of electronic control systems. 15.2: Hardware and software experimentation to appreciate electronic control of various systems.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7

	Power Electronics (DSE-2: ELT-A-DSE-5-B-)	CO-16	16.1: Interpretation of the underlying principles behind power electronics which can be derived from semiconductor devices. 16.2: The essence of how power electronics govern manufacturing through related hands-on practical classes.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7
VI	Communication Electronics (ELT-A-CC-6-13)	CO-17	17.1: The knowledge of how electronics dominate the domain of communication both analog and digital. 17.2: Organization of related hands-on experimentation gives essence of the intricacies of electronic principles applied to analog and digital communication.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7
	Photonics (ELT-A-CC-6-14)	CO-18	18.1: Conceptual interpretation and insight of light propagation through guided/unguided media for optical communication. 18.2: Understanding and conduct experiments in dark room to explore the beauty of light and its various useful properties.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7

	Basic VLSI Design (DSE-3: ELT-A-DSE-6-A-1)	CO-19	19.1: Conceptual and pedagogic insight of the state-of-the-art language by which modern semiconductor devices are designed and analysed. 19.2: Knowledge of simulation of designs incorporating the standard semiconductor devices to assess their behaviour in reality.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7
	Transmission Lines, Antenna and Microwave Devices (DSE-4: ELT-A-DSE-6-B-2)	CO-20	20.1: Pedagogic conceptual framework of sender/receiver systems as applied in wired and wireless communication sectors. 20.2: Knowledge of simulations based on discrete systems operating together as a single system driving contemporary communication sector.	PO 1, PO 4, PO 5, PO 6, PO 7

ELECTRONICS GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Electronics as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Network Analysis and Analog Electronics (CC1/GE1)	CO-1	1.1: Knowledge and insight of physical laws and theorems as driving concepts in real circuits in both dc and ac domains. 1.2: Knowledge of physical laws and theorems applied to real circuits in both dc and ac domains.	PO 1, PO 4, PO 5, PO 7

II	Linear and Digital Integrated Circuits (CC2/GE2)	CO-2	<p>2.1: The fundamental knowledge of linear and digital electronic devices which make up larger electronic equipment and the language to generate simulation of the related circuit.</p> <p>2.2: The related practical knowledge to exemplify electronic circuits through execution of the hardware and language simulation in laboratory</p>	PO 1, PO 2, PO 5, PO 6 PO 7
III	Communication Electronics (CC3/GE3)	CO-3	<p>3.1: The knowledge of how electronics dominate the domain of communication both analog and digital.</p> <p>3.2: Knowledge of organization of related hands-on experimentation giving essence of the intricacies of electronic principles applied to analog and digital communication.</p>	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7
IV	Microprocessors and Microcontrollers (CC4/GE4)	CO-4	<p>4.1: Concepts of microprocessors and microcontrollers and realization of how systems are automated.</p> <p>4.2: Coding knowledge in microprocessors and microcontrollers.</p>	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Electronics the student will be able to:

- PSO-1:** Learn the fundamentals of Electronics theory and practice and apply them to troubleshoot specific situations ranging from domestic problems to professional ones.
- PSO-2:** Appreciate the theoretical foundations related to different paradigms such as electromagnetism, quantum mechanics, communication and semiconductor devices, etc. and how they are applied in real life.
- PSO-3:** Learn the practicalities and techniques of professional communication practices in colleges, symposiums, national and international conferences and seminars and become a world citizen.
- PSO-4:** Become deserving and qualified to join premier higher academic institutes and industries for a sustainable future.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF STATISTICS**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF STATISTICS
PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Statistics the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Well versed in scientific, rational, objective and independent thinking so as to identify, define and logically evaluate statistical methods to solve problems systematically and detect inconsistencies in analysis.
PO 2	Effective communication	Able to work in a multi-disciplinary environment i.e. to clearly and successfully deliver, receive and disseminate fundamental statistical concepts - oral, written or otherwise to non-experts of the field.
PO 3	Effective citizenship	Apply the knowledge of Statistics to understand complete enumeration of population using sampling techniques to assess census and different socio-economic issues.
PO 4	Social interaction	Able to handle collective views, mediate disagreements by statistical techniques to achieve effective conclusion relevant to academics, industry and social life.
PO 5	Ethics	Recognize a value based approach to various social conditions and situations, understand the moral dimensions of the decisions.
PO 6	Environment and Sustainability	Understand the role of statistical methods and models to handle the environmental issues and related challenges.

PO 7	Self-directed and lifelong learning	Develop a curious, logical and open mind, willing to accept and initiate new and innovative ideas, which will motivate the students to continue the process of learning even after the completion of this course.
PO 8	Spirit of Research and Innovation	Develop a scientific gesture that would inculcate a spirit of research and enquiry to develop new models and methods.

STATISTICS GENERIC SUBJECTS

COURSE OUTCOMES (CO)

Upon completion of the undergraduate course in Statistics as a Generic subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
I	Descriptive Statistics (CC-1/GE-1)	CO-1	1.1: Define different types of data, discuss the methods to collect information and compilation of data (qualitative & quantitative) and present data in diagrammatic, graphical and tabular form.	PO 1, PO 3
			1.2: Presentation of data in tabular, diagrammatic & graphical form.	PO 1, PO 6
			1.3: Recall & classify the Measures of central tendency based on raw data as well as grouped data arranged in the form of frequency distribution.	PO 1, PO 2
			1.4: Define the idea of scatteredness (variability) in a data set or in grouped data and to state different measures with their properties.	PO 1, PO 2

			1.5: Discuss the shape of frequency distribution by measures of skewness and kurtosis.	PO 1, PO 2
			1.6: Define & discuss Concept of bivariate data with the help of scatter diagram and its interpretation and explain the idea with correlation coefficient between two variables and rank correlation.	PO 1, PO 2, PO 6
			1.7: Explain the average relationship between two variables as regression equations.	PO 1, PO 6, PO 7
			1.8: Recognize the idea of correlation and regression using three variables with the concept of multiple and partial correlation.	PO 1, PO 2, PO 6, PO 8
II	Elementary Probability Theory (CC-2/GE-2)	CO-2	2.1: Demonstrate the idea of random experiment and its outcomes as elementary events, mutually exclusive and exhaustive along with algebra of events.	PO 1, PO 2, PO 7
			2.2: State the probability of any event following classical, Statistical and Axiomatic definition.	PO 1, PO 4
			2.3: Define conditional probability, laws of addition and multiplication of probability and identify the independence of events.	PO 1, PO 7

			2.4: Explain the concept of total probability and Bayes' Theorem.	PO 1, PO 6, PO 7
			2.5: Discuss the idea of random variables both discrete and continuous and its probability distribution with the concept of p.m.f, p.d.f. and c.d.f.	PO 1, PO 7, PO 8
			2.6: Illustrate any random variable with its properties: Expectation, variance, moments.	PO 1, PO 6, PO 7, PO 8
			2.7: Identify some standard probability distributions: Binomial, Poisson, Geometric, Negative Binomial, Uniform, Normal, Exponential with their characteristics.	PO 1, PO 8 PO 6, PO 7
			2.8: Formulate different ways to approximate the population dist. in the long run(WLLN & central limit theorem).	PO 7, PO 8
III	Statistical Inference (CC-3/GE-3)	CO-3	3.1: Discuss the idea of population, sample, parameter, statistic and the use of sampling to know the population.	PO 1, PO 2, PO 7
			3.2 Recognize the concept of population distribution and sampling distribution with the formation of chi-square, t and F distribution.	PO 1, PO 7, PO 8

			3.3: Explain the concept of statistical inference by the methods of estimation: point and interval estimation.	PO 1, PO 6, PO 7, PO 8
			3.4 Assimilate the concept of statistical inference, Formulation of Null & Alternative hypothesis, Judge the conjectures by Neyman –Pearson lemma the intuitive approach of testing of hypotheses (exact & large sample) on parameters of different dist.	PO 1, PO 2, PO 3, PO 4, PO 7, PO 8
			3.5: Apply the testing procedures and methods of finding confidence interval of the unknown parameters of Binomial, Poisson and Normal distribution.	PO 1, PO 3, PO 6, PO 8
			3.6: Explain the idea of non parametric tests such as median test used in socio-economic data.	PO 1, PO 3, PO 4, PO 5, PO 8
			3.7: Analyze the total variance into several parts of any data set i.e. one way and two way classified data.	PO 1, PO 4, PO 5, PO 6, PO 8
			3.8: Describe & design the layout of collected data after performing experiments & analyze the conclusion of the experiment with the specific layout of CRD, RBD.	PO 1, PO 2, PO 5, PO 6, PO 8

IV	Applications of Statistics (CC-4/GE-4)	CO-4	4.1 Explain the concept of Sampling technique: SRSWR, SRSWOR to estimate population mean & variance.	PO 1, PO 2, PO 3, PO 5, PO 7
			4.2 Operate SRSWR/SRSWOR in Stratified sampling to estimate population mean & variance and determination of sample size per strata.	PO 1, PO 2, PO 3, PO 4, PO 5,
			4.3 Discuss the idea of Index Number with the knowledge of measures of price level: wholesale index, Consumer price index, purchasing power of money & Utilize this for smooth running of the Govt.	PO 1, PO 2, PO 3, PO 4, PO 5
			4.4 Discuss concept of Time series and distinguish different patterns of fluctuations over time in a data series & demonstrate methods of future forecasting.	PO 1, PO 4, PO 5, PO 7, PO 8
			4.5 Formulate the idea of Vital Statistics, Description & implementation of different measures of Mortality, Fertility & Population growth of a country indicating the real development.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Statistics the student will be able to:

- PSO-1:** Acquire valuable knowledge on analysis of data based on different socio-economic structure, biological, agricultural, medicinal, anthropological and various other types of investigations.
- PSO-2:** Develop analytical skill of applying statistical methods on various fields for running effective administration.
- PSO-3:** Understand application of statistical methods as a most useful aid of research work in every discipline.
- PSO-4:** Undertake multi-disciplinary courses such as data science, Actuarial studies, MS(QE) and project work in the future.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF BUSINESS ADMINISTRATION**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF BUSINESS ADMINISTRATION

PROGRAMME OUTCOMES (PO)

Upon completion of the undergraduate course in Business Administration the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Use reflective thinking techniques to identify and analyze problems, develop viable alternatives, and make effective decisions.
PO 2	Effective Communication	Apply management skills in the corporate sector and use cutting-edge corporate communication.
PO 3	Social Interaction	Develop comprehensive professional skills for business administration.
PO 4	Effective Citizenship	Identify and analyze ethical conflicts and social responsibility issues involving different stakeholders.
PO 5	Ethics	Develop viable alternatives and make effective decisions relating to ethical practices in business and social responsibility.
PO 6	Environmental and Sustainability	Understand the motivational factors and processes for integrating environmental and natural resource management, sustainability issues with strategies, operations management, and global surveillance of organizations.
PO 7	Self-Directed and Lifelong Learning	Use own intuition, creative abilities, and self-expression through deliberations on applying creative practices in management.

PO 8	Financial Acumen	Understand financial tools and techniques for making business enterprises sustainably profitable and instill awareness about the fundamentals of taxation and law.
PO 9	Analytical Skills	Apply managerial skills to analyze business analogy along with corporate strategies and disseminate the same skills to the peer group.
PO 10	Familiarity with Recent Developments in the Field of Management	Apply modern practices and research methodologies to diverse texts to evolve new approaches and interpretations.

DEPARTMENT OF BUSINESS ADMINISTRATION**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)**

Upon completion of the undergraduate course in Business Administration as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
Semester I				
I	Business Communication (BBAA101AE1)	CO-1	1.1: Define business communication and its applications. 1.2: List advantages & limitations of business communication. 1.3: Classify different types of business communications.	PO 1, PO 2, PO 3

			<p>1.4: Demonstrate different types of tools used in business communication.</p> <p>1.5: Prepare notice, circular, business letters, minutes, and agenda of meetings.</p>	
I	Principles of Management & Organisational Behaviour (BBAA102C1)	CO-2	<p>2.1: Memorize various forms of business ownership models.</p> <p>2.2: List the advantages and disadvantages of business ownership models.</p> <p>2.3: Classify various classical, neoclassical, and modern theories of management.</p> <p>2.4: Explain planning, organizing, control, coordination, and communication.</p> <p>2.5: Discuss the organizational structure.</p> <p>2.6: Define and demonstrate organizational perception, personality, group dynamics, organizational culture, and work place behaviour.</p>	PO 1, PO 3, PO 7
I	Business Accounting (BBAA103C2)	CO-3	<p>3.1: Define business accounting.</p> <p>3.2: Interpret the importance and use of business accounting.</p> <p>3.3: Explain GAAP and fair value accounting principal.</p> <p>3.4: Discuss and illustrate the accounting equation and debit & credit rule.</p> <p>3.5: Gain an insight into techniques of business accounting and learn how to prepare the financial statement as per Company Act, 2013.</p>	PO 1, PO 8, PO 9

			<p>3.6: Gain knowledge of various techniques of financial statement analysis and its preparation.</p> <p>3.7: Prepare journal and ledger.</p> <p>3.8: Prepare cashbook (double and triple column).</p> <p>3.9: Classify and prepare subsidiary books of accounts.</p> <p>3.10: Prepare trial balance.</p> <p>3.11: Prepare bank reconciliation statement.</p> <p>3.12: Define international financial reporting standards (IFRS).</p> <p>3.13: Memorize standards issued by ICAI.</p> <p>3.14: Explain and illustrate procedures of change in depreciation methods.</p> <p>3.15: Memorize and explain the financial statement of company.</p> <p>3.16: List the objectives of the financial statement.</p> <p>3.17: Explain and evaluate annual reports, cash flow.</p> <p>3.18: Memorize and define financial statement analysis.</p> <p>3.19: Classify the techniques of financial statement analysis.</p> <p>3.20: Prepare and illustrate financial ratio analysis.</p>	
--	--	--	--	--

I	Entrepreneurship Development (BBAA104GE1)	CO-4	<p>4.1: Define entrepreneurship along with the role of creativity and innovation.</p> <p>4.2: Explain and evaluate John Kao's model.</p> <p>4.3: Exemplify idea generation, opportunities and evaluation.</p> <p>4.4: Illustrate team and various strategies of team and leadership.</p> <p>4.5: Identify the dynamics of the family business, emerging issues in start-ups in India.</p> <p>4.6: Summarise innovation, creativity, creative team.</p> <p>4.7: Memorize the concept of family business.</p> <p>4.8: Summarise the concept of conflict and conflict resolution.</p> <p>4.9: Explain the sources of financing for entrepreneurs' business.</p> <p>4.10: Discuss the emerging issues in start-up of India.</p>	PO 1, PO 4, PO 7
Semester II				
II	Environmental Studies (BBAA101AE12)	CO-5	<p>5.1: Explain the concept of ecology and ecosystem.</p> <p>5.2: Discuss the concept of sustainability and sustainable development.</p> <p>5.3: Classify various types of natural resources and their usage.</p>	

			<p>5.4: Gain an insight into biodiversity, conservation of natural resources, and various types of environmental pollution and its impact.</p> <p>5.5: Gain knowledge and apply environmental policies and practices.</p> <p>5.6: Apply field experience on various environmental issues.</p> <p>5.7: Define ecology and ecosystem.</p> <p>5.8: Explain the structure & function of ecosystem.</p> <p>5.9: Discuss energy flow, food chain, food webs and concept of population community.</p> <p>5.10: Classify ecological succession.</p> <p>5.11: Explain renewable and non- renewable resources.</p> <p>5.12: Define land resources and its usage.</p> <p>5.13: Elucidate deforestation.</p> <p>5.14: Memorize and define energy resources.</p> <p>5.15: Define and explain biodiversity.</p> <p>5.16: Discuss threats to biodiversity, conservation of biodiversity.</p> <p>5.17: Identify biogeographic zones in India.</p> <p>5.18: Explain and compare ecosystem and biodiversity services.</p>	
--	--	--	---	--

			<p>5.19: Define and memorize environmental population.</p> <p>5.20: Explain the concept of hazardous waste and human health risk.</p> <p>5.21: Explain solid waste management concept.</p> <p>5.22: Discuss climate change, global warming, layer depletion, acid rain.</p> <p>5.23: Elucidate their impact on the human community.</p> <p>5.24: Discuss Environment Protection Act.</p>	
II	Statistics for Business Decisions (BBAA202C3)	CO-6	<p>6.1: Define statistics.</p> <p>6.2: Explain its importance and scope in business decision making.</p> <p>6.3: Memorize and compare the concept of primary and secondary data and its collection methods.</p> <p>6.4: Prepare data tabulation, graphs, and charts.</p> <p>6.5: Illustrate and evaluate frequency distribution.</p> <p>6.6: Describe the characteristics of measures of central tendency.</p> <p>6.7: Illustrate the various methods of central tendency.</p> <p>6.8: Generate real-life examples using various central tendency methods.</p>	PO 1, PO 7, PO 9

			<p>6.9: Simplify the concept of measures of dispersion.</p> <p>6.10: Prepare and illustrate methods under measures of dispersion.</p> <p>6.11: Generate real-life examples using measures of dispersion.</p> <p>6.12: Interpret the concept of correlation analysis.</p> <p>6.13: List the usage, types of correlation analysis.</p> <p>6.14: Illustrate various types of correlation analysis.</p> <p>6.15: Compare and evaluate correlation and regression.</p> <p>6.16: Memorize the concept of time series.</p> <p>6.17: Explain the significance, utility and components of the time series.</p> <p>6.18: Classify, prepare and illustrate examples with time series models.</p> <p>6.19: Recall and integrate the concept of index number.</p> <p>6.20: Prepare and solve numerical examples of index number.</p> <p>6.21: Explain the concept of probability.</p> <p>6.22: Test the various theorems of probability.</p> <p>6.23: Summarize the concept of probability distribution.</p>	
--	--	--	---	--

			6.24: Illustrate various probability distribution techniques.	
II	Managerial Economics (BBAA203C4)	CO-7	<p>7.1: Define the concept of demand, supply, and market equilibrium.</p> <p>7.2: Demonstrate and develop examples with types of demand elasticity.</p> <p>7.3: Analyze the concept of demand elasticity and its relationship with pricing decisions.</p> <p>7.4: Elaborate and evaluate the theories of consumer behaviour.</p> <p>7.5: Explain the concept of producer and optimal choice.</p> <p>7.6: Evaluate optimizing behaviour in short run and production curves.</p> <p>7.7: Evaluate law of diminishing marginal productivity.</p> <p>7.8: Apply the concept of cost elasticity to determine plant size.</p> <p>7.9: Explain and evaluate the concept of minimum efficient scale in transportation industry.</p> <p>7.10: Discuss and apply the traditional and modern theories of cost.</p> <p>7.11: Discuss and explain the various market conditions.</p>	PO 1, PO 7, PO 9

			<p>7.12: Evaluate the role of advertisement in various market conditions.</p> <p>7.13: Discuss and memorize the concept of factor market.</p>	
II	Business Ethics (BBAA204GE2)	CO-8	<p>8.1: Explain the concept of business ethics.</p> <p>8.2: Discuss its related factors.</p> <p>8.3: Exemplify the provisions for CSR and its use as per Company Act, 2013.</p> <p>8.4: Interpret corporate governance & its changing scenario in India.</p> <p>8.5: Explain the concept of corporate social responsibility.</p> <p>8.6: Classify the types of corporate social responsibility.</p> <p>8.7: Explain the concept of profit maximization and corporate social responsibility.</p> <p>8.8: Establish relationship between corporate social responsibility and stakeholder theory.</p> <p>8.9: Discuss and evaluate the CSR Act 2013.</p> <p>8.10: Evaluate CSR reporting standards.</p> <p>8.11: Discuss the concept of corporate governance.</p> <p>8.12: Explain the need and role of corporate governance.</p>	PO 3, PO 5

			<p>8.13: Evaluate SEBI clause 49.</p> <p>8.14: Discuss the role of auditors in enhancing corporate governance.</p> <p>8.15: Evaluate the duties and responsibilities of auditor in this regard.</p> <p>8.16: Demonstrate the idea of whistle blowing.</p>	
Semester III				
III	Human Resource Management (BBAA301C5)	CO-9	<p>9.1: Explain the concept, functions, roles of human resource management.</p> <p>9.2: Classify knowledge, skill, ability and competencies of Human Resource Management.</p> <p>9.3: Evaluate changing environment of HRM.</p> <p>9.4: Define human resource planning, human resource information system.</p> <p>9.5: Classify usage of job analysis, methods of job analysis.</p> <p>9.6: Compare between job description with job specification.</p> <p>9.7: Design and apply human resource planning.</p> <p>9.8: Comprehend human resource development.</p> <p>9.9: Explain the concept of recruitment, selection and orientation.</p>	

			<p>9.10: Design selection process and orientation process.</p> <p>9.11: Explain the concept of training.</p> <p>9.12: Classify various methods of training.</p> <p>9.13: Apply performance appraisal methods.</p> <p>9.14: Develop measures for compensation and job evaluation.</p> <p>9.15: Discuss the reason for wage differentials and incentives.</p> <p>9.16: Design a pay structure.</p> <p>9.17: Describe industrial relations.</p> <p>9.18: Explain trade union rules, types, functions.</p> <p>9.19: Identify the problems of industrial dispute.</p> <p>9.20: Define collective bargaining.</p> <p>9.21: Explain and classify the types, process, problems of collective bargaining.</p> <p>9.22: Discuss briefly the concept of social security, health, retirement and other benefits of stock option plan.</p>	
III	Marketing Management (BBAA302C6)	CO-10	<p>10.1: Define marketing management.</p> <p>10.2: Explain nature, scope and importance of marketing. Discuss the Evolution of marketing concept.</p> <p>10.3: Elucidate product and production concept, selling and marketing concept.</p>	PO 1, PO 7, PO 10

			<p>10.4: Illustrate marketing environment.</p> <p>10.5: Compare and evaluate economic, political, legal, socio cultural and technological environment.</p> <p>10.6: Explain and apply the concept of BCG matrix.</p> <p>10.7: Comprehend the concept of STP.</p> <p>10.8: Classify various levels of BCG.</p> <p>10.9: Differentiate segmentation, targeting and positioning.</p> <p>10.10: Explain the concept of product and pricing decision.</p> <p>10.11: Classify products and compare product line decisions and product mix decisions.</p> <p>10.12: Memorize the stages of product life cycle (PLC).</p> <p>10.13: Use PLC marketing strategies.</p> <p>10.14: Explain the concept of branding.</p> <p>10.15: Classify packaging and labelling.</p> <p>10.16: Apply new product development.</p> <p>10.17: Explore the determinants of price.</p> <p>10.18: Apply various pricing methods.</p> <p>10.19: Define the concept of promotion mix.</p> <p>10.20: Discuss various factors of promotion mix.</p> <p>10.21: Classify promotional tools.</p>	
--	--	--	--	--

			10.22: Explain publicity and personal selling. 10.23: Classify the types of intermediaries. 10.24: Explain and apply the concept of marketing of services.	
	Management Accounting (BBAA303C7)	CO-11	11.1: Interpret nature and scope of management accounting. 11.2: Compare management accounting with cost and financial accounting. 11.3: Discuss the meaning, scope, objectives and importance of cost accounting. 11.4: Explain and classify the terms – various types of cost, costing, cost control, and cost reduction. 11.5: Prepare cost sheet. 11.6: Explain the overhead allocation. 11.7: Classify the types of overhead allocations. 11.8: Compare overhead apportionment and overhead absorption. 11.9: Apply overhead allocation techniques. 11.10: Explain the concept of CVP analysis. 11.11: Classify the important terminology under CVP analysis. 11.12: Use CVP analysis in real life situations. 11.13: Explain the concept of make or buy.	PO 1, PO 8, PO 9

			<p>11.14: Apply make or buy technique in problem solving.</p> <p>11.15: Define budget and budgetary control.</p> <p>11.16: Classify the types of budgets.</p> <p>11.17: Evaluate the steps in budgetary control process.</p> <p>11.18: Preparation of fixed and flexible budget statement.</p> <p>11.19: Explain the concept of divisional performance measurement.</p> <p>11.20: Apply various divisional performance measurement techniques.</p> <p>11.21: Explain the concept of responsibility accounting.</p> <p>11.22: Classify cost centre, profit centre and investment centre.</p> <p>11.23: Preparation of responsibility accounting statement.</p> <p>11.24: Classify standard costing and variance analysis.</p> <p>11.25: Discuss the advantages, disadvantages and application of standard costing.</p> <p>11.26: Explain target costing, life cycle costing, quality costing and activity-based costing.</p> <p>11.27: Apply standard costing methods.</p>	
--	--	--	---	--

III	Production and Operations Management (BBAA304GE3)	CO-12	<p>12.1: Define and explain production and operation function.</p> <p>12.2: Apply various techniques for planning and quality control.</p> <p>12.3: Define and memorize maintenance management.</p> <p>12.4: Classify the needs of maintenance management and its application.</p> <p>12.5: Define and explain forecasting.</p> <p>12.6: Classify the needs, importance and limitation of forecasting.</p> <p>12.7: Explain qualitative and quantitative forecasting methods.</p> <p>12.8: Apply statistical tools for forecasting.</p> <p>12.9: Explain process selection with its types and application.</p> <p>12.10: Apply process selection techniques.</p> <p>12.11: Evaluate the limitations of process selection techniques.</p> <p>12.12: Define layout decision.</p> <p>12.13: Explain layout planning process with its importance and limitations.</p> <p>12.14: Classify various types of layout planning.</p> <p>12.15: Apply location evaluation methods.</p> <p>12.16: Explain capacity planning and its types.</p>	PO 1, PO 9
------------	--	--------------	--	-------------------

			<p>12.17: Apply decision tree analysis in capacity planning.</p> <p>12.18: Exemplify aggregate planning.</p> <p>12.19: Classify the nature, types, methods of aggregate planning.</p> <p>12.20: Apply techniques of aggregate planning.</p> <p>12.21: Explain statistical quality control and control chart.</p> <p>12.22: Apply elementary queuing theory.</p>	
III	Information Technology for Business (BBAA305SE1)	CO-13	<p>13.1: Define and apply the concept of worksheets and workbooks.</p> <p>13.2: Using formulae and functions.</p> <p>13.3: Create printing and protecting worksheet.</p> <p>13.4: Implement file level security and protecting data within the worksheet.</p> <p>13.5: Prepare charts and graphics.</p> <p>13.6: Apply data using pivot tables perform what-if analysis.</p> <p>13.7: Create bookmarks, captions and cross referencing, adding hyperlinks, adding sources and adding sources and compiling and bibliography.</p> <p>13.8: Creating and editing main document and data source, sorting and filtering merged documents.</p> <p>13.9: Prepare power-point presentation.</p>	PO 1, PO 9

			<p>13.10: Use and apply animation schemes, custom animation and sound file formats in presentation.</p> <p>13.11: Prepare final presentation and use all the effects.</p> <p>13.12: Interpret database development.</p> <p>13.13: Classify data types, changing table design, assigning field.</p> <p>13.14: Properties, setting primary keys, using field validation and record validation rules, indexing, working with multiple tables, relationships & integrity rules, join properties.</p> <p>13.15: Use operators & expressions.</p> <p>13.16: Create simple & advance criteria.</p> <p>13.17: Use and create working with data on forms and working with reports.</p>	
Semester IV				
IV	Business Research (BBAA401C8)	CO-14	<p>14.1: Elucidate marketing research.</p> <p>14.2: Explain the role and process of marketing research in decision making.</p> <p>14.3: Apply marketing research in decision making.</p> <p>14.4: Classify research design.</p> <p>14.5: Discuss the advantages and disadvantages of secondary data.</p>	PO 1, PO 9

			<p>14.6: Identify criteria for evaluating secondary sources.</p> <p>14.7: Apply secondary sources of data in Indian context.</p> <p>14.8: Define and classify primary data.</p> <p>14.9: Compare qualitative and quantitative research.</p> <p>14.10: Differentiate between interval and ratio data.</p> <p>14.11: Apply likert scale to prepare questionnaire.</p> <p>14.12: Explain sampling technique for research design.</p> <p>14.13: Classify types of sampling.</p> <p>14.14: Use and apply sampling distribution in problem solving.</p> <p>14.15: Define estimation.</p> <p>14.16: Classify the types of estimation.</p> <p>14.17: Apply method of maximum likelihood and the method of moments.</p> <p>14.18: Interval estimates of the mean and proportion from large samples.</p> <p>14.19: Explain the concept of hypothesis testing.</p> <p>14.20: Apply various techniques for hypothesis testing.</p> <p>14.21: Apply factor analysis and discriminant analysis.</p>	
--	--	--	---	--

IV	Macroeconomics (BBAA402C9)	CO-15	<p>15.1: Explain the principles of macroeconomics and linkages between macroeconomic variables.</p> <p>15.2: Apply classical theory of income and employment.</p> <p>15.3: Evaluate the effect of fiscal and monetary policy.</p> <p>15.4: Elucidate keynesian theory of income and employment.</p> <p>15.5: Explain and apply ISLM model</p> <p>15.6: Recognise and critique function of money.</p> <p>15.7: Determine the supply and demand of money.</p> <p>15.8: Explain 'H' theory of money multiplier.</p> <p>15.9: Examine the concept of inflation.</p> <p>15.10: Elucidate Phillips curve.</p> <p>15.11: Explain the idea of balance of payment account.</p> <p>15.12: Discuss monetary and fiscal policy in open economy.</p> <p>15.13: Exemplify Mundell Fleming model.</p> <p>15.14: Apply systems of exchange rates fixed-adjusted peg flexible.</p> <p>15.15: Role of monetary authority in these cases.</p>	
-----------	---------------------------------------	--------------	--	--

IV	Financial Management (BBAA403C10)	CO-16	16.1: Explain the role of financial management in business firms. 16.2: Differentiate concept of profit maximization with wealth maximization. 16.3: Explain and apply the concept of time value of money. 16.4: Interpret the concept of risk. 16.5: Apply various techniques of long - term investment decisions. 16.6: Define the concept and measurement of cost of capital. 16.7: Elucidate the concept of capital structure. 16.8: Classify various approaches of capital structure. 16.9: Use various capital structure approach in decision making. 16.10: Elucidate leverage. 16.11: Classify various types of leverage. 16.12: Apply leverage analysis techniques in decision making. 16.13: Define working capital management. 16.14: Classify the components of working capital. 16.15: Apply techniques of working capital.	PO 1, PO 8, PO 9
IV	Tax Planning (BBAA404GE4)	CO-17	17.1: Define Income tax and components of income tax.	PO 1, PO 8, PO 9

			17.2: Explain the concept of tax evasion and tax avoidance. 17.3: Prepare and calculate five heads of income 17.4: Submission of income tax return, advance tax, and tax deducted at source.	
IV	Summer Internship / E-Commerce (BBAA405SE2)	CO-18	18.1: Preparation of the project report. 18.2: Apply various statistical tools and methods for data analysis.	PO 1, PO 9, PO 10
Semester V				
V	Quantitative Techniques for Management (BBAA501C11)	CO-19	19.1: Gain knowledge of quantitative skills to make business decisions. 19.2: Use of statistical tools for forecasting & estimation of techniques. 19.3: Construction & application of mathematical models in business decision-making scenarios. 19.4: Classify various types of linear programming. 19.5: Formulate L.P. Problems. 19.6: Construct transportation problems. 19.7: Execute N.W. Corner rule, least cost method, VAM, and modified distribution model.	

			<p>19.8: Explain the concept of network analysis.</p> <p>19.9: Construct network diagram.</p> <p>19.10: Apply critical path, PERT, and project time crashing.</p> <p>19.11: Elucidate decision theory.</p> <p>19.12: Classify the use and importance of decision theory.</p> <p>19.13: Prepare pay off table, opportunity loss table</p> <p>19.14: Use Markov analysis.</p> <p>19.15: Apply limiting probabilities and chapman Kolmogorov equation.</p> <p>19.16: Explain game theory.</p> <p>19.17: Interpret pay off matrix.</p> <p>19.18: Utilize play off matrix in problem-solving.</p> <p>19.19: Execute monte carlo simulation.</p>	
V	Legal aspects of Business (BBAA502C12)	CO-20	<p>20.1: Elucidate contract.</p> <p>20.2: Classify the types of contracts, offer and acceptance, and consideration.</p> <p>20.3: Explain quasi-contract, and special contract.</p> <p>20.4: Differentiate contract of indemnity and guarantee, bailment and pledge.</p>	PO 1, PO 5, PO 7

			<p>20.5: Define the term sale and agreement to sell.</p> <p>20.6: Explain implied conditions and warranties.</p> <p>20.7: Discuss sales by new owners and rights of unpaid sellers.</p> <p>20.8: Define the negotiable instrument act.</p> <p>20.9: Explain the types of promissory notes.</p> <p>20.10: Define companies act.</p> <p>20.11: Classify various types of companies.</p> <p>20.12: Elucidate incorporation, MOM, AOA, and prospectus.</p> <p>20.13: Explain the process of issue of shares and bonus shares, right issue, and sweat equity.</p> <p>20.14: Examine the role of the director of a company.</p> <p>20.15: Elucidate the Limited Liability Partnership Act, 2008.</p> <p>20.16: Explore the nature, formation, partner and their relations, and extend of limitation of liability under the act.</p> <p>20.17: Define consumer protection act.</p> <p>20.18: Review its objectives and mechanism.</p> <p>20.19: Analyze the rights of a consumer.</p>	
--	--	--	--	--

			<p>20.20: Discuss the right to information act and classify its features and coverage of the act.</p> <p>20.21: Explain the terms: information, right, and record.</p> <p>20.22: Interpret public authority and its obligations.</p>	
V	Strategic Corporate Finance (BBAA503DSE 1A)	CO-21	<p>21.1: Elucidate the concept of strategic corporate finance.</p> <p>21.2: Clarify the significance of strategic corporate finance.</p> <p>21.3: Segregate different types of financial strategies of shareholders' wealth maximization.</p> <p>21.4: Compare strategy with planning, corporate value addition and economic value additions, traditional costing vs strategic costing.</p> <p>21.5: Discuss different types of strategic costing and their relevance.</p> <p>21.6: Explain the process and types of management buyouts.</p> <p>21.7: Discuss the financial strategies adopted in management buyouts.</p> <p>21.8: Describe VIMBO process.</p> <p>21.9: Compare management buy-in and buyout.</p> <p>21.10: Define real assets.</p>	PO 1, PO 4, PO 7

			<p>21.11: Elucidate the process of valuing real assets.</p> <p>21.12: Discuss various approaches of valuing real assets.</p> <p>21.13: Describe the concept of option.</p> <p>21.14: Segregate financial options and real option.</p> <p>21.15: Discuss various types of real options.</p> <p>21.16: Exemplify the black Scholes model and decision tree analysis.</p> <p>21.17: Elucidate bankruptcy.</p> <p>21.18: Explain factors leading to bankruptcy.</p> <p>21.19: Review the symptoms and predictions of bankruptcy.</p> <p>21.20: Examine the process of recognition of distressed firms and liquidation of firms.</p> <p>21.21: Simplify the concept of company disposal.</p> <p>21.22: Illustrate the concept of fundraising.</p> <p>21.23: Discuss the determinants and factors affecting the capital structure.</p> <p>21.24: Review cost of capital and cost savings strategy.</p> <p>21.25: Explain the overview of a company valuation.</p> <p>21.26: Exemplify valuation principles and practice.</p>	
--	--	--	--	--

			<p>21.27: Describe strategic issues and the link between valuation and strategic finance.</p> <p>21.28: Elucidate the concept of strategic risk management.</p> <p>21.29: Explain value-based management.</p>	
V	Consumer Behaviour (BBAA503DSE 2A)	CO-22	<p>22.1: Memorize the nature, scope and application of consumer behaviour.</p> <p>22.2: Discuss the importance of consumer behaviour in making decisions.</p> <p>22.3: Describe the characteristics and role of consumer behaviour.</p> <p>22.4: Examine industrial buying behaviour, market segmentation, VALS 2 segmentation profile.</p> <p>22.5: Clarify the concept of consumer needs and motivation.</p> <p>22.6: Elucidate theories of motivation.</p> <p>22.7: Demonstrate the concept of personality.</p> <p>22.8: Elaborate the importance, and types of personality.</p> <p>22.9: Explain self-confidence.</p> <p>22.10: Describe the learning theories of consumer behaviour.</p> <p>22.11: Memorize and explain group dynamics.</p> <p>22.12: Interpret the factors affecting the influence of reference group.</p>	PO 1, PO 4, PO 7

			22.13: Discuss the determinants of social class 22.14: Elucidate the concepts of culture and sub- culture. 22.15: Explain diffusion of innovation. 22.16: Enumerate the steps in the consumer decision-making process. 22.17: Exemplify various consumer decision-making models. 22.18: Apply the consumer decision-making models in real life situations.	
V	HRD: System and Strategies (BBAA503DSE 3A)	CO-23	23.1: Define the concept of HRD 23.2 Clarify the origin, need and relationship between HRM and HRD 23.3: Examine the role of HRD as a total system. 23.4 Enumerate activity areas of HRD 23.5: Describe the process of HRD 23.6: Design and develop an effective HRD program. 23.7: Implement and evaluate HRD programs. 23.8: Describe the concept of HRD interventions. 23.9: Elucidate the role of staffing for HRD 23.10: Examine HRD application. 23.11: Describe career management and development.	PO 3, PO 7

			23.12: Conduct career counselling. 23.13: Implement HR scorecard. 23.14: Integrate HRD with technology.	
V	Investment Analysis and Portfolio Management (BBAA504DSE 1B)	CO-24	24.1: Elucidate the basic concept of risk and return. 24.2: Categorize the types of risks. 24.3: Evaluate the relationship between risk and return. 24.4: Evaluate the techniques for bond valuation. 24.5: Demonstrate various techniques for bond valuation. 24.6: Illustrate fundamental analysis. 24.7: Classify various techniques for fundamental analysis. 24.8: Apply EIC framework for fundamental analysis. 24.9: Evaluate EIC framework with real-life case study. 24.10: Describe the concept of share valuation. 24.11: Clarify various share valuation techniques. 24.12: Apply various share valuation techniques. 24.13: Define portfolio management. 24.14: Interpret the importance of portfolio management.	PO 1, PO 8, PO 9

			24.15: Exemplify portfolio risk and return. 24.16: Describe market model. 24.17: Implement portfolio modeling in investors decision making. 24.18: Discuss the concept of CAPM. 24.19: Clarify the concept and relationship between CML and SML. 24.20: CAPM in investors decision making. 24.21: Elucidate mutual fund. 24.22: Describe the types of mutual funds and features of mutual funds. 24.23: Interpret how mutual funds diversify the risk. 24.24: Calculate NAV. 24.25: Evaluate the performance of mutual funds based on sharpe ratio, treynor ratio, jenson alpha, beta etc.	
V	Advertising and Brand Management (BBAA504DSE 2B)	CO-25	25.1: Explain AIDA model with its application. 25.2: Describe advertising spiral. 25.3: Discuss the social and economic aspects of advertising. 25.4: Differentiate between central route and peripheral route. 25.5: Discuss rational and emotional approaches in advertising. 25.6: Review the principles of advertising layout.	PO 1, PO 4, PO 7

			<p>25.7: Clarify the factors influencing media planning.</p> <p>25.8: Compare broadcast and non-broadcast media.</p> <p>25.9: Explain the techniques of sales promotion.</p> <p>25.10: Reframe the steps in the strategic brand management process.</p> <p>25.11: Elucidate the concept of brand evolutions.</p> <p>25.12: Review the concepts of brand building and brand positioning.</p> <p>25.13: Demonstrate the concept of brand equity with examples.</p>	
V	Aspect of Industrial Relations (BBAA504DES 3B)	CO-26	<p>26.1: Define and explain the concept and aspects of Industrial relations.</p> <p>26.2: Classify the relationship between workers, employees, and Govt.</p> <p>26.3: Enumerate the workers' participation in management.</p> <p>26.4: Discuss objectives of collective bargaining.</p> <p>26.5: Elucidate the grievance procedure.</p> <p>26.6: Describe Trade Union Act 1926.</p> <p>26.7: Clarify Industrial Employment Act 1946.</p> <p>26.8: Discuss Industrial Dispute Act 1947.</p> <p>26.9: Explain Payment of Wages Act 1936.</p> <p>26.10: Elucidate Payment Gratuity Act 1972.</p>	PO 3, PO 5, PO 7

			26.11: Interpret Minimum Wages Act 1948. 26.12: Discuss Payment of Bonus Act 1965. 26.12: Exemplify the Provident Fund and Miscellaneous Provisions Act 1952. 26.13: Differentiate Employees' Pension Scheme and Employees State Insurance Act 1948.	
Semester VI				
VI	Business Policy and Strategy (BBAA601C13)	CO-27	27.1: Explain the strategic management process. 27.2: Compare vision and mission statement. 27.3: Discuss Porter's Five Forces Model. 27.4: Explain the concept of SWOT analysis with a real-life example. 27.5: Apply the PESTEL framework in a real-life scenario. 27.6: Enumerate the differences between licensing and franchising. 27.7: Explain & apply mergers and acquisitions. 27.8: Discuss the concept of banker's code. 27.9: Explain and apply BCG matrix. 27.10: Discuss Balanced Scorecard. 27.11: Explain the concept of strategic control. 27.12: Discuss and apply the life cycle portfolio matrix.	PO 1, PO 3, PO 7

VI	Financial Institutions and Markets (BBAA602C14)	CO-28	<p>28.1: Comprehend the concept and structure of the Indian financial system.</p> <p>28.2: Discuss the major reforms in Indian financial system.</p> <p>28.3: Describe the regulations of banks, NBFCs and FIs in India.</p> <p>28.4: Enumerate the role of RBI as central bank.</p> <p>28.5: Exemplify the concept of core banking, RTGS and internet banking.</p> <p>28.6: Compare Bank and NBFC.</p> <p>28.7: Elucidate financial markets in India.</p> <p>28.8: Classify the Indian financial market.</p> <p>28.9: Describe capital market and money market.</p> <p>28.10: Interpret the various services offered by Indian financial markets.</p> <p>28.11: Define the concept, role, and types of Indian stock market.</p> <p>28.12: Elucidate the concept and fund-raising process in international markets.</p> <p>28.13: Segregate bull market and bear market.</p> <p>28.14: Enumerate the factor affecting the movement of share market.</p> <p>28.15: Comprehend the concept of DMAT system.</p> <p>28.16: Elucidate the concept of dematerialization of securities.</p>	PO 1, PO 8, PO 9
-----------	--	--------------	--	-----------------------------

			28.17: Apply the algorithm of trading. 28.18: Explain trading and settlement process. 28.19: Define the concept of the money market in India. 28.20: Classify the instruments traded in the money market. 28.21: Discuss the Indian debt market. 28.22: Segregate the various instruments traded in bond market.	
	Investment Banking and Financial Services (BBAA603SE1 C)	CO-29	29.1: Explain the concept and structure of the Indian financial system. 29.2: Describe the major reforms in the Indian Financial system. 29.3: Define the merchant banking concept. 29.4: Discuss SEBI guidelines for merchant bankers. 29.5: Describe the procedure of the public issue of shares in India. 29.6: Clarify the regulations relating to brokers, sub-brokers, and underwriters. 29.7: Explain the investor's protection mechanism of SEBI in the India capital market. 29.8: Interpret the role, obligations, and regulations regarding lead managers. 29.9: Summarize the procedure of the public issue of shares in India.	PO 1, PO 8, PO 9

			<p>29.10: Discuss the regulations relating to brokers, sub-brokers, and underwriters.</p> <p>29.11: Clarify the investor's protection mechanism of SEBI in the Indian capital market.</p> <p>29.12: Describe the lease financing system.</p> <p>29.13: Comprehend the types and process of lease financing.</p> <p>29.14: Prepare lease agreement.</p> <p>29.15: Calculate lease rental.</p> <p>29.16: Elucidate the concept of hire purchase.</p> <p>29.17: Differentiate between lease and hire purchase.</p> <p>29.18: Evaluate lease and hire purchase.</p> <p>29.19: Define and memorize the concept of Factoring.</p> <p>29.20: Explain the process and parties related to factoring.</p> <p>29.21: Distinguish factoring with forfaiting.</p> <p>29.22: Exemplify the housing finance service.</p> <p>29.23: Discuss the raising problems of housing finance in India.</p> <p>29.24: Compare floating and fixed rate of loans.</p> <p>29.25: Define the concept of venture capital.</p> <p>29.26: Describe the importance, types, advantages and limitations of VC.</p>	
--	--	--	--	--

			<p>29.27: Demonstrate the process of the venture Capital.</p> <p>29.28: Discuss the fundraising process through VC.</p> <p>29.29: Explain the concept, classifications, and principles of Insurance.</p> <p>29.30: Discuss the regulatory norms of Insurance.</p> <p>29.31: Classify in details various types of Insurance products available in India.</p> <p>29.32: Define credit rating.</p> <p>29.33: Explain the process, advantages and use of credit rating.</p> <p>29.34: Discuss the regulatory norms of credit rating in India.</p> <p>29.35: Enumerate the role of credit rating agencies in India.</p>	
VI	Marketing of Services (BBAA603SE2 C)	CO-30	<p>30.1: Describe the role of services in accelerating an economy.</p> <p>30.2: Elucidate the characteristics of services.</p> <p>30.3: Interpret the concept of sequential analysis.</p> <p>30.4: Comprehend the concept of service blueprint.</p> <p>30.5: State the prerequisites of service positioning.</p> <p>30.6: Discuss the concept of value chain analysis.</p>	PO 1, PO 3

			<p>30.7: Enumerate few examples of innovation in services.</p> <p>30.8: Examine the service quality model.</p> <p>30.9: Describe the emerging trends in the service industry with regard to the banking sector.</p>	
VI	Performance and Compensation Management (BBAA603DSE 3C)	CO-31	<p>31.1: Define the concept, philosophy and history of performance appraisal.</p> <p>31.2: Differentiate between performance appraisal and performance development.</p> <p>31.3: Distinguish between feedback and counselling.</p> <p>31.4: Describe the concept of performance management.</p> <p>31.5: Apply reward system in performance management.</p> <p>31.6: Discuss the international aspects of PMS.</p> <p>31.7: Exemplify the trends and ethical perspective of performance appraisal.</p> <p>31.8: Elucidate job evaluation.</p> <p>31.9: List out various methods of job evaluation.</p>	PO 1, PO 9, PO 10

			<p>31.10: Discuss the factors for wage determinations.</p> <p>31.11: Summarize the incentive practice in India.</p> <p>31.12: Develop an effective incentive plan.</p> <p>31.13: Apply for various benefits in preparation of incentive plan.</p> <p>31.14: Comprehend minimum wage, fair wage and a living wage.</p> <p>31.15: Evaluate the methods of regulation of wages.</p> <p>31.16: Exemplify the application of national wage policy in payment of wages.</p>	
VI	Research Project (BBAA604DSE 1/2/3/4)	CO-32	<p>32.1: Develop various kinds of research, objectives of doing research, research process, research designs, and sampling.</p> <p>32.2: Apply subjective knowledge to conduct research.</p> <p>32.3: Conduct real life experiment in different industries.</p>	PO 1, PO 8, PO 9, PO 10

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the undergraduate course in Business Administration the student will be able to:

PSO1: This course would encourage students to start their own business ventures. They can apply small business accounting and finance concepts and practices, in the new venture.

- PSO 2:** This course would provide explicit theoretical bases and an implicit practical understanding of a subject. It also gives them the opportunity to do a summer internship project through which students can get corporate exposure as well as know how to write dissertation for research work.
- PSO 3:** This course would provide transferable skills, which comprise the various abilities that would be useful across a range of different jobs and industries.
- PSO 4:** This course would provide practical skills, which enable the students to combine concepts and theories, and put them into practice.
- PSO 5:** This course would provide intellectual skills, like critical, analytical, synthesizing, and problem-solving capabilities. Students can develop these skills by learning and thinking critically, applying basic principles, and forming structured arguments.
- PSO 6:** This course would provide a solid foundation to pursue professional careers and take up higher level courses such as MBA, M.Phil, Ph.D. as well as other research work.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF ENGLISH (M.A.)**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

DEPARTMENT OF ENGLISH (M.A.)

PROGRAMME OUTCOMES (PO)

Upon completion of the postgraduate course in English the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical thinking	Applying theory-based analysis to explore new terrains and challenge or corroborate received opinions with original inputs in the form of cogently argued written presentations.
PO 2	Effective Communication	Command over language and presentation skills in order to communicate cogently and effectively as well as understand the mechanisms of communication.
PO 3	Social Interaction	The texts represent multiple perspectives and various cultures leading to multi-cultural sensitivity and openness to divergent views and orientations.
PO 4	Effective Citizenship	Appreciating the processes of identity formation with additional focus on linguistic proficiency in English as second language and its impact on activism and equitable citizenship.
PO 5	Ethics	Literature instils ethical values through writings which uphold the consequences of moral choices.
PO 6	Environment and Sustainability	Acquaintance with the relation between man and nature and the impact of human activities on the environment and the psychological costs/benefits thereof, as represented repeatedly in literary texts.
PO 7	Self Directed and Lifelong Learning	Applying theory and tools of research methodology to explore new terrains and challenge or corroborate received opinions with original inputs in academia as well as in life.

PO 8	Socio-linguistic Awareness	Awareness of linguistic structures, processes of language acquisition and the socio-cultural dynamics in the development of language and the reflection of power relations and social constructs in the development of discourses.
PO 9	Literary Sensibility	In-depth knowledge of styles, genres and critical idioms leading to awareness of literary trends.
PO 10	In-depth Domain Knowledge with Interdisciplinary Perspectives	Exposure to developments in history, philosophy and politics and its reflection in literature.

DEPARTMENT OF ENGLISH (M.A.)**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE****COURSE OUTCOMES (CO)****Notification No. CSR/100 /18**

Upon completion of the postgraduate course in English, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	British Literature from Geoffrey Chaucer to the Beginning of English Civil War (CCI)	CO-1	1.1: Acquire in-depth knowledge of the literature, history and intellectual climate from 15 th to 17 th century.	PO 9, PO 10
			1.2: Differentiate between literary styles and genres and provide illustrative examples.	PO 9, PO 10
			1.3: Demonstrate the evolving ethical frameworks of the different stages of history and relate their ramifications for succeeding ages.	PO 3, PO 5, PO 10

			1.4: Appraise the links between the spirit of discovery and the early stage of globalised commerce and colonisation.	PO 1, PO 3, PO 5, PO 6, PO 8, PO 10
			1.5: Critique the dominant, white discourses about culture, civilisation and ethics from the perspective of a decolonised nation.	PO 1, PO 3, PO 5, PO 6, PO 7, PO 8, PO 10
			1.6: Derive insights from interdisciplinary and multicultural perspectives which may be used to conduct further research and make oral and written presentations or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Elizabethan and Jacobean Drama (CCII)	CO-2	2.1: Acquire detailed information regarding Elizabethan and Jacobean drama.	PO 9
			2.2: Locate the texts within the socio-cultural milieu and value systems and discuss specific texts by different playwrights of the period.	PO 9, PO 10
			2.3: Demonstrate critical insights into the chosen plays through the lens of varied critical approaches.	PO 8, PO 9, PO 10
			2.4: Compare and contrast the texts with reference to the intellectual currents and linguistic traditions of the	PO 3, PO 8, PO 9, PO 10

			Renaissance and the transition from the Elizabethan to the Jacobean spirit.	
			2.5: Weigh the comparative merits and biases of the performance history of the plays with reference to literary criticism, stage and film productions.	PO 1, PO 3, PO 5, PO 7, PO 8, PO 9, PO 10
			2.6: Write original research based papers related to Renaissance Humanism and adventurism and its global impact or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	British Literature from the English Civil War to the French Revolution (CCIII)	CO-3	3.1: List the writers and their works belonging to this age and correlate them with the socio-cultural climate of the times.	PO 9, PO 10
			3.2: Classify the chosen texts according to specific genres and their development in socio-cultural contexts.	PO 9, PO 10
			3.3: Delineate the emergence of the novel as a genre and proliferation of print culture.	PO 8, PO 9, PO 10
			3.4: Demonstrate the impact of the emergence of the middle class as a political force and the imbrication of revolutionary politics and literary revolutions.	PO 3, PO 5, PO 8, PO 9, PO 10

			3.5: Compare Materialism and Imagination as facets of the dialectics of Enlightenment.	PO 1, PO 3, PO 5, PO 6
			3.6: Appraise the texts in the light of rationalism and revolutionary spirit.	PO 1, PO 3, PO 7, PO 8, PO 10
			3.7: Judge the impact of the European Enlightenment on far flung countries like India in this period of colonial expansion.	PO 1, PO 3, PO 5, PO 6, PO 7, PO 8, PO 10
			3.8: Undertake textual evaluation and present cogent arguments based on insights gained from critical and theoretical interpretations or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4 PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	(British Literature from the French Revolution to the End of the Victorian Age) (CCIV)	CO-4	4.1: Underline the spirit of the age along with authors and their works.	PO 9, PO 10
			4.2: Illustrate the transitions in literature and culture in England initiated by political and industrial revolutions.	PO 5, PO 6, PO 9, PO 10
			4.3: Demonstrate the reflection of philosophical shifts spanning the Romantic age and the Victorian age.	PO 3, PO 5, PO 6, PO 8 PO 9, PO 10
			4.4: Differentiate between the responses of the writers of the Romantic age and the Victorian age with reference to issues involving ethical principles, crisis of faith and darker undercurrents in social and intellectual life.	PO 3, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10

			4.5: Critique the texts from a variety of critical perspectives including the new critical approaches such as Feminist, Historicist, Postcolonial and Eco-critical.	PO 1, PO 3, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
			4.6: Undertake textual analysis and research to present cogent arguments based on insights gained from the study of this course or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Introduction to Linguistics and Structure of Modern English (CC V)	CO-5	5.1: Identify the basic concepts and issues of linguistics.	PO 8
			5.2: Chart the structure and the usage of modern English.	PO 2, PO 8
			5.3: Generalize and classify the structures of different grammatical constituents of English.	PO 2, PO 8
			5.4: Distinguish the structures of modern English enabling better social interaction and encouraging critical thinking.	PO 2, PO 4, PO 8, PO 10
			5.5: Compare and contrast human and animal language for greater socio-linguistic awareness.	PO 8, PO 10

			5.6: Interpret various schools of Linguistics leading to an interdisciplinary education.	PO 1, PO 7, PO 8, PO 10
			5.7: Synthesize greater semantic knowledge enabling better written and communicative proficiency or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 4, PO 8, PO 10
Addendum M.A. English Semester I Revised Syllabus December 2022				
I	CCIV	CO-4	4.1: Underline the spirit of the age along with authors and their works.	PO9, PO10
			4.2: Illustrate the transitions in literature and culture in England initiated by political and industrial revolutions.	PO5, PO6, PO9, PO10
			4.3: Demonstrate the reflection of philosophical shifts during the Romantic age.	PO3, PO5, PO6, PO8, PO9, PO10
			4.4: Differentiate between the responses of the writers of the Romantic age and the Age of Reason with reference to issues involving ethical principles, and darker undercurrents in social and intellectual life.	PO3, PO5, PO6, PO7, PO8, PO9, PO10

			4.5: Critique the texts from a variety of critical perspectives including the new critical approaches such as Feminist, Historicist, Postcolonial and Eco-critical.	PO1, PO3, PO5, PO6, PO7, PO8, PO9, PO10
			4.6: Undertake textual analyses and research to present cogent arguments based on insights gained from the study of this course or develop pedagogical tools for dissemination of domain knowledge.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10
I	CCV	CO-5	5.1: Recall the spirit of the Age along with important authors and their works.	PO9, PO10
			5.2: Identify the transitions in literature and culture initiated by the Victorian Age in terms of ideological shifts.	PO3, PO9, PO10
			5.3: Interpret literary works with reference to their immediate political and social contexts.	PO1, PO3, PO5
			5.4: Classify popular texts belonging to this era according to the major themes of the times.	PO1, PO3, PO5, PO8
			5.5: Evaluate the literary merits of the texts prescribed from a variety of critical perspectives.	PO1, PO8, PO9, PO10
			5.6: Develop structured arguments linking factors associated with literary representations especially during the Victorian Age.	PO1, PO2, PO3, PO8, PO9, PO10

II	British Literature from End of the Victorian Age to 1945- Poetry and Novel (CC VI)	CO-6	6.1: Acquire an over-all impression about socio-cultural history of the Modern period post World War I and its reflection in literary genres.	PO 10
			6.2: Chart and estimate the conventions of Modern literature and language usage particularly with regard to the novel and poetry.	PO 8, PO 9, PO 10
			6.3: Demonstrate the role of bourgeois ideology and conflicting social issues and agenda in constructing contrapuntal representations.	PO 1, PO 3, PO 4, PO 7
			6.4: Relate psychoanalytical theories and their reflections in literary pieces.	PO 1, PO 7, PO 10
			6.5: Compare and contrast the texts with reference to style, ideology and genre.	PO 8, PO 9, PO 10
			6.6: Critique the texts in the light of inter-disciplinary insights and theoretical practices.	PO 1, PO 7, PO 8, PO 10
			6.7: Synthesize and present complex ideas in writing and in verbal presentations or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10

	British Literature from End of the Victorian Age to 1945- Drama, Short Fiction and Non-Fiction (CC VII)	CO-7	7.1: Acquire holistic concept of Modern literature with respect to prose, drama and the emergence of short story as a modern genre.	PO 10
			7.2: Chart, determine and differentiate between the traditional and modern forms in literature.	PO 9, PO 10
			7.3: Relate the emergence of new genres, literary language criticism and theory to the socio-political changes of the early 20th Century.	PO 3, PO 9, PO 10
			7.4: Outline the impact of political and economic ideologies on literary forms, audience and readers.	PO 1, PO 4, PO 10
			7.5: Appraise the texts and comment on the dynamics of literary representation in modern British drama, short fiction and non-fiction.	PO 1, PO 3, PO 8, PO 9
			7.6: Produce original research based on textual reading through the lens of theory, criticism and inter-disciplinary approaches.	PO 1, PO 2, PO 7, PO 10
			7.7: Communicate research insights with cogent arguments or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10

	British Literature from 1946 to the Present- Poetry and Novel (CC VIII)	CO-8	8.1: Acquire a sense of the shift from modernism to post-modernism and the critical conventions in English poetry and fiction in the post 1945 period as well as the formal innovations of 20 th century literature.	PO 5, PO 9, PO 10
			8.2: Illustrate the reflection in literary texts of psycho-social and philosophical transformations which took place in the twentieth century.	PO 3, PO 4, PO 5, PO 9, PO 10
			8.3: Apply literary knowledge to understand the nihilistic mood following the Second World War.	PO 3, PO 9, PO 10
			8.4: Distinguish between trends of Modernism and Post-Modernism.	PO 1, PO 9, PO 10
			8.5: Appraise the developments as reflected in the works of the poets and novelists from 1945 to present.	PO 1, PO 8, PO 9, PO 10
			8.6: Synthesize theoretical and critical insights to present cogent arguments based on original research or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 7, PO 8, PO 9, PO 10

	English Language Teaching I (CC IX)	CO-9	9.1: Define the differences between language acquisition and language learning.	PO 2
			9.2: Illustrate with examples theoretical concepts basic to the development of LSRW and different types of grammar, vocabulary and study skills.	PO 2, PO 8
			9.3: Illustrate with examples major theories of second language acquisition and understand the significance of learner errors.	PO 3, PO 8
			9.4: Demonstrate a comprehensive understanding of the components of English Language Teaching (ELT).	PO 2, PO 7, PO 8
			9.5: Infer the psychological and linguistic influences on ELT, namely behaviourism, cognitivism and humanism.	PO 2, PO 8, PO 10
			9.6: Planning and designing curriculum with attention to the role of syllabus design in second language acquisition or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 4, PO 7, PO 8, PO 9
			9.7: Compare and contrast major theories of second language acquisition and assess the significance of learner errors.	PO 2, PO 4, PO 7, PO 8

	Indian Literature I (DSE III)	CO-10	10.1: Mark the impact of colonial education and trace the growth and development of Indian Writing in English with reference to noted Indo-Anglian writers.	PO 9, PO 10
			10.2: Identify the authors and works which are hallmarks in the growth of Indian literature before Independence.	PO 9, PO 10
			10.3: Interpret the translated texts as well as texts written in English by Indian authors and be able to gauge the politics of language reflected on literature.	PO 4, PO 9, PO 10
			10.4: Demonstrate the reflection of polyphonic images of the Indian society represented through the literary discourse.	PO 3, PO 4, PO 7, PO 9, PO 10
			10.5: Illustrate the cultural diversity of India while assessing if there is any essential, identifiable 'Indianness'.	PO 1, PO 3, PO 4, PO 5, PO 8, PO 10
			10.6: Appraise the texts to discern ambivalent attitudes towards colonialism which developed since the latter half of the nineteenth century.	PO 1, PO 3, PO 4, PO 5, PO 7, PO 8, PO 10

			10.7: Explain and present cogently, with original inputs on post/colonial and ecocritical issues leading to diversified research or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
III	British Literature from 1946 to the Present- Drama, Non-Fiction and Short Fiction (CC X)	CO-11	11.1: Acquire a sense of the extent to which the plays, short stories and non-fiction epitomize the variety of concerns that the British, as well as the world has faced in the 20 th century.	PO 9, PO 10
			11.2: Categorize the new narrative modes such as realism and fantasy as evident in the short stories and drama.	PO 9, PO 10
			11.3: Demonstrate the evolutions as well as disruptions in the social and intellectual climate of the time and the paradigm shift in the quotidian as well as the highly philosophical issues which concerned this age through a reading of the texts.	PO 3, PO 8, PO 9, PO 10
			11.4: Appraise the discourses around issues such as migration, travel, and their link with culture and civilisation through non-fictional texts which deliberate upon these matters.	PO 1, PO 3, PO 5, PO 6, PO 8, PO 10

			11.5: Develop an awareness of the art and craft of the forms included as well as the politics of representation reflected in the texts.	PO 1, PO 2, PO 3, PO 8, PO 9, PO 10
			11.6: Assess the theoretical possibilities of the selected texts and critique received attitudes and norms.	PO 1, PO 3, PO 5, PO 7, PO 8, PO 9, PO 10
			11.7: Produce cogently argued research based papers and presentations addressing literary forms as well as social issues or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Literary Criticism I (CC XI)	CO-12	12.1: Acquire familiarity with classical criticism and the connection between classical and early modern/neo-classical criticism through the study of canonical texts	PO 9
			12.2: Explain the connection between Classical aesthetics and English literary forms.	PO 9
			12.3: Demonstrate the impact of the history, philosophy and culture on the critical writings and their relation to succeeding ages on literature.	PO 5, PO 9, PO 10
			12.4: Relate the texts in other papers to the critical discourses which may inform them.	PO 7, PO 9, PO 10

			12.5: Assess texts on the basis of the evolution of aesthetic values in Europe.	PO 2, PO 7, PO 8, PO 9, PO 10
			12.6: Produce in-depth research and present analytical and original writing or papers on related topics.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Modern European Literature (DSE IV)	CO-13	13.1: Acquire knowledge of a varied and wide-ranging selection of works related to Modern European Literature.	PO 10
			13.2: Classify this selection of iconic and experimental pieces of literature, chosen from different parts of Europe, according to their socio-cultural background.	PO 10
			13.3: Interpret other canonical literatures.	PO 1, PO 3
			13.4: Differentiate between the modernist experiments in poetic form, theatrical representation and fictional prose writings.	PO 1, PO 3, PO 9, P10
			13.5: Critique different literary pieces as part of the larger picture of modernism in literature.	PO 1, PO 3, PO 6, PO 9, PO 10
			13.6: Develop the critical acumen to understand society, culture and literature.	PO 1, PO 3, PO 5, PO 6, PO 9, PO 10

	Indian Literature II (DSE VI)	CO-14	14.1: Recognise and appreciate the distinct postcolonial consciousness of post-independence writing through representative texts.	PO 9, PO 10
			14.2: Interpret the texts and the diverse viewpoints which challenge uniform representations of the nation and nationalism.	PO 3, PO 4, PO 10
			14.3: Discover manifestations of postcolonial anxieties in the context of the politics of globalisation.	PO 3, PO 4, PO 5, PO 8, PO 10
			14.4: Illustrate the contemporary relevance of the texts enabling them to 'read' narrative codes according to individual lenses of class, caste, gender, sexuality.	PO 1, PO 3, PO 7, PO 8
			14.5: Discriminate between ways of identifying with the nation with reference to sub nationalisms and non-normative identities.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 10
			14.6: Originate further research and present analytical and original writing or papers on related topics or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Colonialism and Postcolonialism (DSE VII)	CO-15	15.1: Acquire theoretical grounding in Postcolonial theories and underline the social, political and cultural orientation of texts.	PO 9, PO 10

			15.2: Extrapolate the politics of the production, distribution and the reception of literary texts by relating text and theory.	PO 9, PO 4, PO 10
			15.3: Demonstrate the agendas which lay behind the colonial project and the resultant issues.	PO 3, PO 4, PO 5, PO 8, PO 9, PO 10
			15.4: Illustrate the impact of cultural and political subjugation on postcolonial subjects and the resultant discourses and counter-discourses as manifested in the texts and theories.	PO 3, PO 4, PO 5, PO 7, PO 8, PO 10
			15.5: Critique the politics of the production, distribution and reception of literary texts and develop a different perspective for the act of 'reading'.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 10
			15.6: Formulate further research, present analytical and original writing or papers on related topics or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	American Literature of the Twentieth Century (DSE VIII)	CO-16	16.1: Recall and describe the developments in the history of American literature in the 20 th century with reference to relevant texts and authors.	PO 9, PO 10
			16.2: Outline the ascendance of America in the twentieth century and the socio-economic dynamics of the new world order.	PO 10

			16.3: Explain the effect of the two great wars and socio-racial issues on the trajectory of American Literature through selected texts.	PO 4, PO 5, PO 10
			16.4: Interpret the texts with reference to political and cultural histories.	PO 4, PO 5, PO 6, PO 8, PO 10
			16.5: Illustrate American modernity with reference to the urban culture of America as well as the issues of race and ethnicity.	PO 1, PO 3, PO 4, PO 5, PO 8, PO 10
			16.6: Critique the literary and philosophical ideas that shaped American modernity and the 'American Dream'.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7, PO 10
			16.7: Conduct further research and present analytical and original writing or papers on related topics or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
IV	Literary Criticism II (CC XII)	CO-17	17.1: Recognise the ways in which ideas originating from the rest of Europe have influenced the English literary criticism and practices in the nineteenth and twentieth centuries.	PO 9
			17.2: Estimate and illustrate the impact of important works which laid the foundations of various approaches to literature and criticism.	PO 9, PO 10

			17.3: Relate critical insights to the dynamics between various disciplines and literature.	PO 7, PO 8, PO 9, PO 10
			17.4: Compare and contrast the zeitgeist of each era as changes occur from the nineteenth to the twentieth century.	PO 5, PO 7, PO 8, PO 9, PO 10
			17.5: Appraise the relation between literary criticism and literature.	PO 1, PO 7, PO 8, PO 9, PO 10
			17.6: Plan further research and present analytical and original writing or papers on related topics or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 5, PO 7, PO 8, PO 9, PO 10
	Literary Theory (CC XIII)	CO-18	18.1: Acquire familiarity with iconic essays by proponents of specific schools of thoughts.	P10
			18.2: Discuss the essays as reference points to discuss implications for literary and cultural theories.	PO 8, PO 10
			18.3: Demonstrate the operations of issues related to race, gender, ideology, history, identity, language and human psyche in the construction of discourses as highlighted by the leading thinkers.	PO 1, PO 3, PO 4, PO 7, PO 8, PO 10
			18.4: Classify and uncover the politics of the texts in the context of the globalised world of capitalism and late capitalism.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 7, PO 8, PO 10

			18.5: Critique the politics informing the theoretical discourses.	PO 1, PO 3, PO 4, PO 5, PO 7, PO 8, PO 10
			18.6: Write well argued academic papers using theoretical lenses, or carry out further research either corroborating or destabilizing the current approach to texts and ideas or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Essay (CC XIV)	CO-19	19.1: Recall the major textual, critical, theoretical elements of the entire programme.	PO 9, PO 10
			19.2: Illustrate the given topics with reference to the relevant parts of the syllabus.	PO 2, PO 9, PO 10
			19.3: Organise a structured theoretical argument.	PO 2, PO 3, PO 4, PO 7, PO 8, PO 9, PO 10
			19.4: Relate issues of contemporary social relevance with the literary canon.	PO 1, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 10
			19.5: Critique historical and political issues and exhibit higher order skills such as critical thoughts and ideas.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10

			19.6: Write essays which testify to their crafting and critical skills.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10
	Modernism and Postmodernism (DSE XII)	CO-20	20.1: Acquire familiarity with the concurrences and divergences between modernism and postmodernism.	PO 9, PO 10
			20.2: Interpret the narrative and the stylistic tropes recurring across the texts/genres.	PO 8, PO 9
			20.3: Relate the texts and their stylistic developments to the socio-cultural contexts of modernism and postmodernism.	PO 8, PO 9, PO 10
			20.4: Compare the traits of European and American expressions of modernism and postmodernism.	PO 1, PO 3, PO 8, PO 9, PO 10
			20.5: Critique the ideological underpinnings and the disappearance of grand narratives.	PO 1, PO 3, PO 4, PO 5, PO 7, PO 8, PO 9, PO 10
			20.6: Formulate independent research and present theoretically and critically informed papers or develop pedagogical tools for dissemination of domain knowledge.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10

GENERIC ELECTIVE**COURSE OUTCOMES (CO)**

As part of the postgraduate course in English, the students also studies Generic Elective papers in History (Semester III and IV), upon the completion of which the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant PO s
III	Colonial Bengal: Politics, Society and Culture (GE5)	CO-1	1.1: Assess the reasons which led to the decline of the old aristocracy and the rise of the new aristocracy in Bengal.	PO 1, PO 5, PO 7,
			1.2: Analyse the impact of the social reforms and its consequences in Bengal.	PO 1, PO 9, PO 10,
			1.3: Discuss the role of emergence of nationalism and other forms of organised political activities in Bengal and India.	PO 1, PO 7
			1.4: Evaluate the impact of colonial rule with respect to workers, peasants' and youth movements.	PO 1, PO 10
			1.5: Critique the dominant, white discourses about culture, civilisation and ethics from the perspective of a decolonised nation.	PO 1, PO 3, PO 7, PO 9, PO 10
			1.6: Analyse the impact of colonial rule on the nationalist discourses of science, art, literature and public health.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9, PO 10

IV	Histories of Women and Gender (GE8)	CO-2	2.1: Delineate the various strands of feminism and its development to women's history.	PO 1, PO 3, PO 5
			2.2: Analysing gender as a category of historical analysis.	PO 1, PO 9
			2.3: Studying the shifts of women's history since 1990s and Third World Feminist Writing.	PO 1, PO 8, PO 10
			2.4: Assessing the impact of social reforms in Bengal.	PO 1, PO 7, P10
			2.5: Studying biographies and lives of pioneering women in Bengal especially related to law and medicine.	PO 3, PO 8, PO 9, PO 10
			2.6: Compose assignments focusing on the nature of women's movements in Bengal.	PO 1, PO 3, PO 5, PO 7, PO 8, PO 9, PO 10

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the postgraduate course in English the student will be able to:

PSO-1: Recall and identify the background and different stages of English literature, authors, works and genres with literary insight.

PSO-2: Determine the characteristics of literary works with reference to socio-cultural backgrounds.

PSO-3: Demonstrate the salient features of literary trends with reference to sociological contexts and theoretical interventions.

- PSO-4:** Compare and contrast the characteristics of different literary currents and movements in literatures in English with reference to a wide range of texts, criticism and theory.
- PSO-5:** Critique literary works based on traditional and current theoretical approaches.
- PSO-6:** Formulate and communicate cogent and researched arguments in written and verbal presentations in English along with pedagogical skills required for teaching at various levels.
- PSO-7** Employability in fields requiring English language and interpersonal communication skills such as but not limited to teaching and research, language training, publishing, journalism, content development, advertising, human resource management and public relations.

**THE BHAWANIPUR EDUCATION SOCIETY COLLEGE**

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

DEPARTMENT OF MASTERS OF COMMERCE**PO/CO/PSO****Programme Outcomes (PO)****Course Outcomes (CO)****Programme Specific Outcomes (PSO)**

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE
A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

POSTGRADUATE DEPARTMENT OF COMMERCE

PROGRAMME OUTCOMES (PO)

Upon completion of the postgraduate course in Commerce the student will be able to:

PO	Programme Outcomes	Description
PO 1	Acquiring Extensive Domain Knowledge	The learners will be provided with a holistic view of the course content to be covered in the curriculum so that they may develop knowledge on the domain perspectives and their applications.
PO 2	Inculcating critical thinking skills	Learners will be encouraged to apply their minds as opposed to learning by rote, thereby embracing the art of critical thinking. Their vision is sought to be enlarged so as to allow them to think laterally, think independently, think out of the box and enhance divergent thinking.
PO 3	Instilling self-motivated pursuit of knowledge	The interest in the course is sought to be sparked in the educand's mind so that they may be encouraged to self- motivate themselves and to attain self-realisation and self-enrichment.
PO 4	Keeping abreast with the recent developments in relevant field of study	The learners will upgrade themselves to keep abreast with the latest developments in the fields of discipline that is relevant to them. This will not only help them in their employability quotients, but will also ensure a greater, in-depth understanding of the course content.
PO 5	Developing social and interpersonal skills	Adequate amount of stress is also accorded in ensuring that the learners will develop the necessary social and interpersonal skills. Special attention will be provided in the area of corporate and commercial skills. Special attention will be provided in the area of corporate and commercial skills to build positive rapport and understanding of social phenomenon.

PO 6	Imparting analytical skills and encouraging innovative practices	The learners will be provided systematic support for the development of analytical skills which are essential requisites in the world beyond the sheltered life of the campus and are provided unstinted encouragement in the pursuit of innovative practices.
PO 7	Imbibing Environmental Consciousness and ethical values	The institution takes pride in inculcating actions to ensure that all learners are imbibed with necessary environmental consciousness and the requisite ethical values so that the youth may make a smooth transition from merely being good academically-oriented educand to being a good human being.
PO 8	Sustainability to achieve common good	Learners will be provided a thorough grinding about sustainability and practices that are aimed at ensuring that the scarce resources of the world are put to use effectively, efficiently and economically to achieve the greatest common good .
PO 9	Intellectual development and increasing employability	One of the objectives of the programme is to empower all learners with professionalism, by catering to their intellectual development . This would further enhance employability and productivity .
PO 10	Communication skills	The learners will gain an insight on developing positive communication skills . The course will acquaint them with different mass media channels – both traditional and social to communicate both internally and externally, within the organization and its different constituents and with the world at large.
PO 11	Initialising effective citizenship	The programme will lead to fostering and demonstrating qualities of an informed, educated and empathetic citizen through voluntary participation in social development causes.

POSTGRADUATE DEPARTMENT OF COMMERCE
THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

COURSE OUTCOMES (CO)

Upon completion of the postgraduate course in Commerce as an Honours subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
I	Organisational Behaviour and Human Resource Management (CC-101)	CO-1	1.1: Acquire a conceptual knowledge of Organisational behaviour; recognise the importance of Organisational Behaviour in day-to-day life.	PO 1, PO 10, PO 11
			1.2: Explain the concepts & definitions of organization behaviour.	
			1.3: Classify the concepts of Organisational behaviour according to definitions given in different eras.	
			1.4: Acquire an insight of the methods and concepts of personality, values, attitudes, perception and learning.	PO 1, PO 6
			1.5: Acquire knowledge on groups in organisation - foundations of group behaviour.	
			1.6: Compare between informal and formal groups-clarify group creativity.	PO 1, PO 6
			1.7: Critically evaluate reasons for group decision making.	

			<p>1.8: Demonstrate the knowledge of Group dynamics- power and politics.</p> <p>1.9: Identify and compare reasons for organizational conflicts and outline resolutions.</p> <p>1.10: Integrate the above knowledge on group dynamics and conflicts as well as evaluate organizational culture.</p>	PO 1, PO 6, PO 8
			1.11: Gain an insight on the concept of HRM.	PO 1
			<p>1.12: Summarise and infer the knowledge on Human Resource Planning (HRP).</p> <p>1.13: Explain Basic Concept of Socialisation & Orientation.</p> <p>1.14: Compare between job design and job analysis as well as differentiate between Recruitment and Selection.</p>	PO 1, PO 6, PO 8, PO 10
			1.15: Solve problems on Placement.	PO 1, PO 6, PO 8, PO 10
			<p>1.16: Gain an insight on performance management.</p> <p>1.17: Compare basic concept of training and development.</p>	PO 1, PO 6, PO 8, PO 11
			1.18: Use the above concept of performance management, differentiate between various performance appraisal methods, barriers to effective performance appraisal.	

			<p>1.19: Identify the components of Compensation management.</p> <p>1.20: Compare the process of compensation, incentives, and benefits.</p> <p>1.21: Outline the meaning of job evaluation.</p>	PO 1, PO 6
	Macro Economics and Business Environment (CC-102)	CO-2	2.1: Recognise the concept of Measurement of GNP/National Income-it's accounting.	PO 1
			<p>2.2: Interpret the features of open and closed economy using knowledge from the prior unit.</p> <p>2.3: Application of cases of Open and Closed Economies.</p> <p>2.4: Solve problems on Multiplier theory-Keynesian Approach.</p>	PO 1, PO 6, PO 9
			2.5: Analyze how factors are determined using the various aspects of Closed Economy- Commodity market and Money market equilibrium -IS-LM approach.	PO 1, PO 6
			2.6: Analyse the various concepts and measures related to Open Economy, to Short-run-aspects- IS-LM model.	PO 1, PO 6
			2.7: Recognize the concepts of Inflation.	PO 1
			2.8: Solve related problems and draw conclusions.	

			2.9: Solve problems on Investment, Present value and Internal rate of return criteria.	PO 1, PO 6
			2.10: Evaluate, and solve problems on Neo-classical growth theory- Solow model.	
			2.11: Evaluate and analyse the problem of National Income -its composition and trends.	PO 1, PO 2, PO 6, PO 9
			2.12: Organise previous chapter's knowledge, organise from Government Policies towards FDI and FII.	PO 1, PO 2, PO 6, PO 9
	Statistics for Business Decisions (CC – 103)	CO-3	3.1: Define the meaning of probability, recall different definitions of probability, total probability theorem, conditional probability, compound probability, Independent events and Bayes' theorem on conditional probability.	PO 1
			3.2: Solve problems on random variable, probability distribution; expectation, variance and moments of a random variable; Binomial, Poisson, Normal and Exponential distributions and their properties and Joint distribution of two random variables (discrete only).	PO 1, PO 2, PO 6, PO 9

			3.3: Solve practical problems on basic concept of sampling, sampling and non-sampling errors, selecting random sample, Random and non-random sampling techniques, Sampling distributions (statement only); and Sample size decisions.	PO 1, PO 2, PO 6, PO 9
			3.4: Solve problems on concept of point and interval estimation; Properties of a good estimator; methods of estimation (Moments method, Maximum likelihood method, Least squares method).	PO 1, PO 9
			3.5: Solve problems on concepts of hypothesis testing; Small sample and large sample parametric tests; Tests based on Z, t, Chi-square and F statistic; Confidence intervals and Non-parametric tests.	PO 1, PO 6
			3.6: Analyse of one-way classified data; two-way classified data with one observation per cell.	PO 1, PO 2, PO 6
			3.7: Solve problems on multiple linear regression model; Multiple and partial correlations; Problems on regression.	PO 1, PO 6

			<p>3.8: Gain an insight on components of time series and Decomposition method.</p> <p>3.9: Solve problems on Exponential smoothing models; Basic concept of Box-Jenkins methodology (ARIMA models).</p> <p>3.10: Discuss important issues related to forecasting.</p>	PO 1, PO 2, PO 3, PO 4, PO 6
	Direct Tax (CC-104)	CO-4	4.1: Recall the provisions of deductions U/S 10AA.	PO 1, PO 2
			4.2: Gain an insight on the provisions of Profits and Gains from Business or Profession.	PO 1, PO 2
			4.3: Illustrate the computation of income from Business or Profession with respect to pertinent provisions.	PO 1, PO 6
			4.4: Describe the scope of income chargeable under this head.	PO 1, PO 6
			4.5: Identify capital asset types, valuation of Capital Gain and interpret the provisions of business restructuring.	
			4.6: Interpret the provision and identify and thereafter compute income chargeable to tax under the head Income from Other Sources.	PO 1, PO 2, PO 6, PO 9

			4.7: Define the concept of deemed dividend.	PO 1
			4.8: Evaluate the deductions from Gross total income with reference to pertinent provisions of Income Tax Act.	PO 1, PO 2
			4.9: Discuss the provisions relevant for taxation of dividend with special emphasis on inter corporate dividend.	PO 1
			4.10: Interpret the provisions applicable to Limited Liability Partnership along with the application of Alternate Minimum Tax.	PO 1, PO 2
			4.11: Compare the amount of tax to be paid by the Companies including the application of Minimum Alternate tax.	PO 1, PO 2, PO 6
	International Business (GE – 105)	CO-5	5.1: Describe the meaning and recall the conceptual knowledge on domestic business and international business composition.	PO 1, PO 2, PO 4
			5.2: Differentiate between Domestic Business and international business.	
			5.3: Interpret trends in International Business, Change in Compositional significance of Trade and Foreign Direct Investment (FDI) under Globalization.	

			<p>5.4: Describe meaning, functions, structure of FDI learnt in above unit.</p> <p>5.5: Compare between Direct and Indirect quotes, Demand and Supply of Foreign Exchange.</p> <p>5.6: Interpret and summarize changes and its impact.</p> <p>5.7: Solve problems on different Exchange Rate Regimes and their Mechanisms.</p> <p>5.8: Solve problems on Risk Management: Spot Covering and Forward Covering, Speculation in Spot and Forward Markets, Forward Premium and Discount.</p>	<p>PO 1, PO 4, PO 7</p>
			<p>5.9: Gain an insight on the concept of Balance of Payments: Definition and Composition.</p> <p>5.10: Compare Equilibrium and Fundamental Disequilibrium.</p>	<p>PO 1, PO 2, PO 4</p>
			<p>5.11: Gain an insight on the basic concept & Major Vehicles of FDI - their Inherent Disadvantages in Host Countries - their Advantages (Dunning's OLI Framework) - their Cost Advantage (rigorous proof required) through transfer of their knowledge-based Assets.</p> <p>5.12: Interpret conditions of Host Country Welfare Gains from Multinational Investment vis-a-vis autarkic situation (rigorous derivation required).</p>	<p>PO 1, PO 2, PO 3, PO 4</p>

		5.13: Grasp the meaning of Regional Economic Integration & International Economic Institutions.	PO 1, PO 4
		5.14: Gain knowledge on concept of Global Strategic Management.	PO 1, PO 4, PO 9
		5.15: Recall theory of Global Competitiveness Alignment- use information to Map competitiveness shifts.	
		5.16: Compare Porter's Diamond Model of Competitive Advantage with the 10-P Model of Global Strategic Management.	PO 1, PO 4
		5.17: Recognise Strategy in international business-motivation and pressures in internationalization.	PO 2, PO 4, PO 9
		5.18: Summarise the information on the global firm as a value chain, Internationalization strategies.	
		5.19: Interpret organization of international business - structure, control systems, and culture.	
		5.20: Recognise entry objectives; scale of entry; timing of entry; entry modes— trading, contractual and investment modes.	PO 1, PO 4
		5.21: Recognise Global manufacturing; Global marketing management; Global human resource management.	PO 2, PO 4, PO 9
		5.22: Summarise how to manage global projects.	

II	Marketing Management (CC-201)	CO-6	6.1: Recall the conceptual knowledge of Consumer and Societal orientation, Customer Relationships Consumerism and Rural marketing.	PO 1, PO 4
			6.2: Summarize and classify Market Segmentation and Product Differentiation: Marketing Environment; Adopting Competitive Strategies.	PO 1, PO 4, PO 10
			6.3: Compare between Marketing Mix of Product and Service; Product Mix Decisions; New Product Development Process, Product life cycle.	PO 1, PO 2, PO 4, PO 10
			6.4: Infer Brand Management decisions.	
			6.5: Demonstrate the knowledge on Price; Resale Price Maintenance.	
			6.6: Summarise factors to consider while setting price, compare different Pricing strategies.	PO 1, PO 2, PO 4
			6.7: Summarise New Product Adoption Process.	PO 1, PO 2, PO 10
			6.8: Differentiate between different Market Diffusion Stages.	
			6.9: Identify factors influencing Individual Buying Behaviour.	
			6.10: Recall the Nature and Importance of Marketing Channels.	

			<p>6.11: Analyse Channel Management Decisions; Nature and Importance of Marketing Logistics.</p> <p>6.12: Summarise Logistics Functions; Sales Promotion; Public Relation; Advertising and Publicity.</p>	
	Managerial Economics (CC202)	CO-7	<p>7.1: Gain an insight into Scarcity and Choice, Interpret Production Possibility Curve.</p> <p>7.2: Apply Economic theory in Managerial Decision Making - Incremental Reasoning, Opportunity Cost Principle and Discounting.</p>	PO 1, PO 2, PO 6
			<p>7.3: Evaluate Total, Average and Marginal - Optimization Methods.</p> <p>7.4: Summarise Consumer Theory - Choice under Uncertainty, Elasticity concepts and Applications, Demand Estimation and Forecasting.</p>	PO 2, PO 6
			<p>7.5: Interpret Short-run and Long-run Aspects of production and costs.</p>	PO 1, PO 2
			<p>7.6: Interpret the perfect Competition, Monopoly and Discrimination, Monopolistic Competition as well as Oligopoly.</p>	PO 2, PO 6, PO 9
			<p>7.7: Interpret Risk and uncertainties in managerial decision making.</p>	PO 1, PO 2, PO 9

			7.8: Identify Sales Maximization with and without Profit Constraint.	PO 1, PO 2, PO 6
			7.9: Compare and analyse Williamson and Marris Models.	PO 2, PO 6
			7.10: Evaluating Satisfying Behaviour: Cyert and March.	
			7.11: Find factor pricing Impact under different market conditions.	
	Operations Research (CC 203)	CO-8.	7.12: Critically evaluate Conflicts of efficiency and equity.	PO 1, PO 6
			7.13: Validate correction of external diseconomies through Government policies.	
			8.1: Identify and formulate Linear Programming Problem using real life issues.	PO 1, PO 2, PO 6
			8.2: Solve the Linear Programming Problem.	
			8.3: Solve Transportation problems and Assignment Models.	PO 2, PO 6
			8.4: Critically organise real business problems relating to Transportation and Assignment related issues.	
			8.5: Recognise appropriate simulation models, experimenting them with the applications in business problems.	PO 1, PO 2

			8.6: Differentiate between uncertainty, risk and certainty, finding optimal decision under different decision & environmental conditions.	PO 1, PO 2, PO 9
			8.7: Identify and recognise capital equipment replacement, designing group replacement decision.	PO 1, PO 2, PO 6
			8.8: Identify different queuing models.	PO 2, PO 6
			8.9: Interpret results of different single server as well as multi-server queuing models.	
			8.10: Describe CPM and PERT network analysis. 8.11: Compare and contrast network analysis under certain and uncertain project durations; check for project time-cost trade-off. 8.12: Recognise deterministic and probabilistic inventory models. 8.13: Solve sequencing problems.	PO 1, PO 6
	Indirect Tax and Corporate Tax planning (CC 204)	CO-9	9.1: Acquire the theoretical knowledge of GST and its evolution in India. 9.2: Interpret the GST Law, Valuation of Supply. 9.3: Comprehend the process of Input tax credit and GST valuation. 9.4: Formulate tax planning, tax management and payment of tax.	PO 2, PO 6, PO 9

			9.5: Comprehend various provisions of Customs Act and recall various types of Customs Duties, classification.	PO 2, PO 6, PO 9
			9.6: Measure the valuation of goods to be imported and exported.	PO 2
			9.7: Formulate the tax planning under five different heads of income under Income tax Act.	PO 2, PO 6
			9.8: Generate the tax planning with respect to deductions under Chapter VI A, Financial Management decisions i.e Capital Structure, Dividend Policy, Bonus Shares, Buyback of shares) and business restricting with the aid of pertinent provisions of Income Tax Act.	
	Accounting Theory (CC205)	CO-10	<p>10.1: Describe the Concept of theory and accounting theory; the need for accounting theory.</p> <p>10.2: Compare different approaches to accounting theory.</p> <p>10.3: Illustrate accounting concepts, conventions, principles; Generally Accepted Accounting Principles (GAAP); accounting standards.</p> <p>10.4: Describe problems of standard setting and setting procedures for Indian and International accounting standards.</p>	PO 1, PO 6, PO 9

			<p>10.5: Gain an insight on valuation of fixed assets, current assets and Liabilities.</p> <p>10.6: Comprehend the liabilities, measurement of liabilities, valuation of liabilities.</p> <p>10.7: Recall accounting for depreciation, recall meaning and causes of depreciation, comparing methods.</p> <p>10.8: Interpret, critically evaluate IAS16 - property, plant and equipment, disposal of fixed assets, amortisation, and impairments.</p>	PO 2, PO 6
			<p>10.9: Recognise accounting concept of capital.</p> <p>10.10: Interpretation of capital.</p> <p>10.11: Compare capital vs. income, consumption of capital, maintenance of capital, evaluating the efficiency of business capital.</p> <p>10.12: Solve problems on Fair value accounting.</p>	PO 2, PO 6

			<p>10.13: Gain an insight on concepts and objectives of financial reporting.</p> <p>10.14: Interpret international financial reporting qualities.</p> <p>10.15: Solve problems on true blood report and stamp report.</p> <p>10.16: Solve problems on segment reporting and interim reporting.</p> <p>10.17: Identify needs and problems, social reporting harmonisation in reporting - need, problem and measures.</p>	PO 2, PO 6
			<p>10.18: Define the standardization, International Financial reporting standards issued by the IASB; the structure of IFRS; Process of IFRS standard setting.</p> <p>10.19: Solve Problems in understanding and application of IFRS.</p> <p>10.20: Critically evaluate IFRS adoption or convergence in different countries, relative view of Ind-AS, IFRSs and IASs.</p> <p>10.21: Solve problems on Human Resource Accounting interpret conceptual framework of Balance Scorecard.</p>	PO 2, PO 6

			10.22: Solve problems on Economic value added, Cost benefit analysis, Social, Environmental, Intellectual capital, Forensic accounting and reporting.	PO 1, PO 2, PO 6
III	Strategic Financial Management and Business Valuation (CC301)	CO-11	11.1: Summarize Concepts and Importance of Strategic Financial Management, Strategic Financial Decision Making.	PO 1, PO 2
			11.2: Classify different Financial Policy and Strategic Management.	
			11.3: Gain an insight in Complex Capital Budgeting Decisions. 11.4: Solve problems on Capital Rationing, Risk Analysis in Capital Budgeting, and Inflation Impact on Capital Budgeting Decisions.	PO 2, PO 6, PO 9
			11.5: Solve problems on Lease Financing, Leveraged Lease, Hire Purchase Financing.	
			11.6: Recall Significance of cost of capital, Weighted Average Cost of Capital. 11.7: Solve problems on Marginal Cost of Capital, Divisional and Project Cost of Capital. 11.8: Critically evaluate by giving decisions.	PO 3, PO 6

			<p>11.9: Recall Dividend Decisions Modigliani and Miller Dividend Irrelevance Theory.</p> <p>11.10: Recall Theories of Capital Structure.</p> <p>11.11: Solve Modigliani and Miller Approach.</p> <p>11.12: Compare Effect of Bankruptcy Costs, Agency Costs and other Imperfections.</p> <p>11.13: Solve problems on Donaldson's Pecking Order Theory, Signaling or Asymmetric Information Theory, Leverage: Operating, Financial and Combined.</p>	<p>PO 1, PO 2,</p> <p>PO 6</p>
			<p>11.14: Gain an insight into Working Capital Management Decisions.</p> <p>11.15: Solve problems and formulate on investing on Receivables Management, Inventory Management, Cash Management- Baumol's Model, Beranek Model and Miller-Orr Model.</p>	<p>PO 1, PO 2,</p> <p>PO 6</p>
			<p>11.16: Use previous concepts to solve problems of Project Financing Decisions.</p> <p>11.17: Solve problems on Infrastructure Project Financing.</p> <p>11.18: Analyse and decide investment of different Start-up Financing.</p>	<p>PO 2, PO 3,</p> <p>PO 6</p>

			11.19: Recapitulate Discounted Cash Flow Valuation: Free Cash Flow Techniques, Terminal Valuation.	PO 2, PO 6
			11.20: Gain an insight into Growth Estimation, Time series models, Impact of Leverage on Risk. 11.21: Gain an insight into Earning Multiples, Book Value Multiples, Revenue Multiples.	PO 2, PO 6
			11.22: Solve problems on Earning Multiples, Book Value Multiples, Revenue Multiples.	PO 2, PO 6
			11.23: Gain an insight into Valuation (Special Cases): Start-up Firms, Financial Service Firms, Distressed Firms and Private Firms.	PO 1, PO 2, PO 6
			11.24: Summarise the concept and then solve problems on Acquisitions, Takeovers and Corporate Restructuring. 11.25: Compare and solve problems on different Valuation of Synergy, Valuation of Control, LBO Valuation, Divestitures, Takeover Defences.	PO 1, PO 2, PO 6, PO 9
			11.26: Analyse Case Studies: Latest Indian Corporate Restructuring Cases and Cross-Border Acquisitions & Takeover Cases.	PO 2, PO 3, PO 6

	Information Systems and Computer Applications (CC-302)	CO-12	<p>12.1: Describe concept, properties, and types; information concept, qualities, types of Information System levels; Information Systems environment - the business environment, the organisation.</p> <p>12.2: Gain insight into their information system architecture, information systems applications; computer based information system (CBIS) - operating elements and types.</p>	PO 1, PO 2
			<p>12.3: Interpret Transaction Processing systems and Management Information and Reporting System;</p> <p>12.4: Describe and differentiate between Executive Information system; Decision Support Systems (DSS) including group DSS; Executive Support System; Strategic Information System.</p> <p>12.5: Expert Systems and Artificial Intelligence.</p>	PO 1, PO 2, PO 3
			<p>12.6: Describe the Information System Development Life Cycle Model - tools and techniques.</p> <p>12.7: Define System Development processes.</p> <p>12.8: Describe the process of Reengineering work, Organizational impact of reengineering, Information Technology and Business Process Redesign.</p>	PO 2, PO 3

			12.9: Identify Management Challenges in Business Process Redesign; Enterprise Resource planning (ERP) - the need for integrated management information for value chain management, business modelling for ERP.	PO 2, PO 3, PO 9
			12.10: Implement Implementation of ERP. 12.11: Critically evaluate information systems using cost-benefit analysis; Information system audit; Information Technology Act; Information security policy; Nature and Types of Computer Crimes; Ethical and social issues relating to information system; Ethics for an information society. 12.12: Summarize introduction and working with word processor. 12.13: Creative presentation with power point, sound effect and animation.	PO 1, PO 2
			12.14: Work with accounting software. 12.15: Use analytical tools and preparation of financial reports. 12.16: Summarise Introduction and working with excel.	PO 1, PO 2, PO 3

			<p>12.17: Use analytical tools and prepare financial reports.</p> <p>12.18: Gain an insight into various business processes - Accounting, Finance, Sale, Purchase etc.; Business process automation - benefits and risks.</p> <p>12.19: Explain mapping systems - Entity Diagrams, Data Flow Diagrams, Systems Flow diagrams, Decision Trees/Tables.</p>	PO 1, PO 8, PO 10
			<p>12.20: Summarise and discuss the latest devices/technologies - i5, Bluetooth, Wi-Fi, Touchpad, Ultra-mobile PC etc.</p> <p>12.21: Recall materials on information processing and delivery channels and their role in businesses.</p>	
			<p>12.22: Compare relationship between organisations, information systems and business processes; IT as a business enabler and driver - Enterprise Systems, Supply Chain Management, Customer Relationship Management & Knowledge Management.</p>	PO 1
			<p>12.23: Describe key types of application controls and their need, Virtualization, Grid computing and Cloud delivery model.</p>	PO 1, PO 4

			12.24: Apply statistical and Basic financial analysis with Spreadsheet Application; Developing a business application (using MS-Access/ Visual Basic) with adequate Laboratory sessions.	PO 1, PO 4
	Financial Markets and Financial Engineering	CO-13	13.1: Describe savings, investments and finance in global and Indian financial system, financial system and economic development, financial markets structure in Indian and global perspectives.	PO 1, PO 4
			13.2: Define money market and banks, money market and the economy, money market instruments.	PO 1, PO 2, PO 4
			13.3: Describe equity market: primary and secondary market, long term debt market. Indian capital markets with global capital markets— capital markets reforms—capital market regulations and role of SEBI. 13.4: Compare Indian capital markets with global capital markets— capital markets reforms—capital market regulations and role of SEBI.	PO 1, PO 2
			13.5: Solve numerical problems on issue of securities: public issues (IPO s and FPO s, fresh issue of securities & offer for sale), rights issue, bonus issue, private placement (preferential	PO 1, PO 2, PO 4

			allotment, qualified institutional placement & institutional placement programme), ADRs, GDRs.	
			13.6: Solve problems on Secondary Capital Market Operations.	
			13.7: Gaining an insight on SEBI (LODR) Regulations, 2015—various intermediaries: stock brokers, sub-brokers, depositories: NSDL & CDSL, depository participants, registrar and transfer agents, custodians, clearing corporation/house, FPIs, etc. —demat account and freezing of demat account —de-materialization and re-materialization process of securities.	PO 1, PO 4
			13.8: Describe the scope of Financial Engineering; Tools of Financial Engineering.	PO 1
			13.9: Solve numerical problems on Forward Contracts on Currencies. 13.10: Solve numerical problems on Futures Contracts.	PO 1, PO 2, PO 4
			13.11: Describe origin of Swap Contracts-Forms of Swap Contracts-Interest Rate Swaps - Pricing of Interest Rate Swaps-Asset Swaps Forward Swaps-Swaptions-Currency swaps-Commodity swaps Over-the-counter Interest Rate Derivatives.	PO 1, PO 2

			13.12: Describe Commodity Derivatives, Trading Strategies in Commodity Futures Markets; International Commodity Market; Regulatory Framework.	PO 1, PO 4
	Business Ethics and Corporate Governance	CO-14	14.1: Describe ethics, business ethics, ethics versus law, morality, economics, religion; the relationship between business ethics, corporate governance and business leadership; human moral development—masculine and feminine perspectives; levels of ethical analysis; concept of corporate integrity; characteristics of ethically driven business enterprises.	PO 1, PO 2, PO 6
			14.2: Conceptualize stakeholder and stakeholder salience; Stakeholder Theory of the Firm-various forms; Corporate Social Responsibility (CSR), its need and significance, Carroll's CSR Pyramid; strategic CSR, traditional and contemporary approach; corporate citizenship and sustainable development, stakeholder thinking in a global context.	
			14.3: Compare Ethical reasoning approaches—the teleological approach, the deontological approach, the virtue ethics approach, the systems development approach, ethical universalism, ethical relativism and ethical pluralism.	PO 1, PO 7

			14.4: Recognise concept of ethical risk and need for business ethics management; components of business ethics management; different approaches to managing business ethics.	PO 1, PO 2, PO 7
			14.5: Recollect Governance-Public Governance System-Corporate Governance System Definitions of Corporate Governance- Emergence of the Corporate Sector and Need for Corporate Governance- Governance and Management-Good Corporate Governance.	
			14.6: Definition of Agency Theory-Concepts and Core Principles-Problems or Criticisms, Mechanism to Reduce Agency Cost; Stakeholder Theory-Concept and Core Principles-Criticisms.	PO 2, PO 7
			14.7: Identify Some Recent Examples - Factors Responsible for Such Mis-governance - Lessons from them-Global Initiatives and Reforms (Some Examples).	PO 1, PO 4
			14.8: Interpret legal and regulatory framework of Corporate Governance: Principal provisions of the Company's Act, 2013 with respect to improve	PO 1, PO 4

			quality of Corporate Governance, Audit Committee and its role as per the Company's Act 2013, SEBI LODR regulations 2015 (with latest amendment).	
III	Corporate Financial Accounting and Reporting (DSE. 305A)	CO-15	15.1: Recognise disclosures in Company Accounts.	PO 4
			15.2: Solve problems on valuation of corporate securities and business.	PO 1, PO 4
			15.3: Interpret Indian Accounting Standards and IFRS.	PO 1, PO 4
			15.4: Interpret and solve problems on ASs and Ind ASs – a Comparative Study, Ind AS and IFRS – Important Carve-outs.	PO 1
			15.5: Solve problems on Segment Reporting.	PO 1, PO 6
			15.6: Solving problems on Issues regarding Impairment of Assets.	PO 1, PO 4
			15.7: Solve problems on consolidated Financial Statements of Group Companies.	PO 1, PO 4 PO 1, PO 4
			15.8: Conceptualise a group, purposes of consolidated financial statements, consolidation procedures, consolidation with two or more subsidiaries, consolidation with foreign subsidiaries, consolidated profit and loss account, balance sheet and cash flow statement,	PO 1, PO 2

			treatment of investment in associates in consolidated financial statements, treatment of investments in joint ventures in consolidated financial statements.	
			15.9: Solve problems for Corporate Restructuring.	PO 4, PO 6
			15.10: Solve problems for Liquidation of Companies.	PO 1, PO 4, PO 6
			15.11: Accounting and Reporting of Financial Instruments.	PO 1, PO 2, PO 6
			15.12: Recall meaning, Recognition, De-recognition and Offset, Compound Financial Instruments, Measurement of Financial Instruments, Hedge Accounting, Disclosures.	PO 1, PO 2, PO 6
			15.13: Solve Financial Reporting by Mutual Funds, NBFCs, Merchant Bankers, Stock and Commodity Market Intermediaries.	PO 1, PO 4
			15.14: Identify emerging Issues in Financial Accounting and Reporting.	PO 1, PO 6
			15.15: Solve problems on Value Added Statements, Business Responsibility Reporting, Sustainability Reporting, Global Reporting Initiatives, Integrated Reporting.	PO 1

	Security Analysis and Portfolio Management (DSE.306A)	CO-16	16.1: Describe Primary market, secondary market, Regulation of financial markets – SEBI guidelines relating to public issue, pricing of issues, appointment of merchant bankers and underwriting of issues – Stock market indices (concept and calculation).	PO 2, PO 4
			16.2: Analysis Fundamental analysis: Economic analysis – Industry analysis – Company analysis (including forecasting future performance) – Methods of equity valuation – Bond analysis and valuation.	PO 1, PO 6
			16.3: Solve problems on Charting techniques (trends, moving average, relative strength, point and figure analysis etc.) – Dow theory – Key technical indicators – Technical Analysis and Behavioural Finance.	PO 2, PO 6
			16.4: Solve problems on Portfolio Analysis, estimate risk and return of individual securities, risk and return.	PO 1, PO 6
			16.5: Summarise types of security risk – Systematic risk vs. unsystematic risk – Concept of portfolio and portfolio diversification – Portfolio management process – Implications of diversification	PO 1, PO 6, PO 9

			for investors – Diversification strategies – Portfolio risk and return – Markowitz risk-return optimization principle.	
			16.6: Solve problems on Markowitz (mean-variance) efficient frontier and optimal portfolio.	PO 1, PO 2, PO 6
			16.7: Introduction of a risk-free security in portfolio – Market portfolio – Capital market line (CML), Security market line (SML) – Criticisms of capital asset pricing model – Arbitrage pricing theory (APT) – Fame-French Multi Factor Model. 16.8: Calculate portfolio performance measures – Portfolio revision – Portfolio insurance – Mechanics of international diversification.	PO 1, PO 2, PO 6
III	Integrated Marketing Communication Paper Code: (DSE.305 C)	CO-17	17.1: Identify the importance of integrated marketing communication process of designing the messages with adequate examples, importance of choosing the appropriate media. 17.2: Differentiate between traditional and non-traditional media.	PO 1, PO 10

			<p>17.3: Derive the reason to choose proper media in rural markets.</p> <p>17.4: Describe with examples marketing communication mix to achieve the communications and behavioral objectives of the IMC campaign plan.</p>	PO 2, PO 7, PO 10
			<p>17.5: Recall the importance and relevance of advertising budget and the various approaches used.</p> <p>17.6: Describe the roles and responsibilities of advertising agencies and its compensation procedures, the importance of Client-Agency Relationship.</p>	PO 1, PO 2, PO 7
			17.7: Discuss the importance of Consumer Sales Promotion.	PO 1, PO 7
	Sales and Distribution Management Paper Code: (DSE.306 C)	CO-18	18.1: Rephrase Reading materials on evolution, setting sales objectives.	PO 1, PO 2, PO 7
			18.2: Identify sales territory, designing sales territory.	PO 1, PO 2, PO 7
			18.3: Summarise sales quota based on the division of territory, personnel.	PO 2, PO 7

			18.4: Implementing sales force management, Recruitment and selection, sales for compensation.	PO 1, PO 7
			18.5: Evaluative sales force performance.	PO 1, PO 7, PO 8
IV	Strategic Management (CC-401)	CO-19	19.1: Describe the macro environment, industries and sectors, sources of competition- Porter's five forces framework, strategic groups, organisational fields.	PO 1, PO 2
			19.2: Summarise Critical success factors, the Strategic importance of resources, competences and core competences, Value Chain, Building blocks of Competitive advantage.	
			19.3: Interpret Competitive positioning and business level strategy, Generic business level strategy, Competitive positioning for superior performance. 19.4: Interpret significance of strategic leadership, Level 5 leadership pyramid- Jim Collins, strategy as planned emergence, strategy development routes, the role of vision, mission and values in managing the strategic process.	PO 1, PO 2, PO 7

			19.5: Compare Product oriented vs Customer oriented vision statements, strategic innovation, the innovation process, types of innovation and industry.	
			19.6: Recall Corporate level strategy types of diversification, strategic outsourcing, stability strategy.	PO 1, PO 4
			19.7: Define nature of strategy implementation and barriers to strategy implementation, implementing strategy through organisational design.	
	Strategic Cost and Management Accounting (CC-402)	CO-20	20.1: Recognise the role of Strategic Cost and Management Accounting in a Globalized Competitive Environment.	PO 1, PO 6
			20.2: Solving problems on Activity Based Costing System and Activity Based Cost Management, Target Costing, Life Cycle Costing, Quality Costing. 20.3: Solve problems on return on Investment, Residual Income, different Value-Added Concepts like Economic Value Added, Market Value Added, Cash Value Added etc., and Balanced Scorecard.	PO 1, PO 4

			<p>20.4: Analyse problems on transfer Pricing, responsibility Accounting and Reporting, Cost Analysis for Decision Making.</p> <p>20.5: Solve and analyse Budgetary Control System: fixed and flexible budget, functional budget, master budget, zero based budgeting—performance budgeting.</p>	PO 1, PO 4, PO 6
	Assurance Services (CC-403)	CO-21	<p>21.1: Explain the concept of Audit and Audit Evidence Philosophy of Audit, Extended Meaning of Audit, Auditing as a Social Science, Social Objected of Audit, Audit Evidence, Sources, Relevance and Reliability, Sufficiency and Appropriateness, Methods of Obtaining Audit Evidences.</p> <p>21.2: Recognise Procedures of Issuing Standards, Structure of the Standards Issued by the AASB, Role of IAASB.</p>	PO 1, PO 2
			<p>21.3: Identify Auditor's Report and Auditor's Independence, types of Auditor's Reports.</p> <p>21.4: Interpret Internal Control System and Risk Assessment Internal Check and Internal Audit, Evaluation of Internal Control System, Internal Control Checklist, Internal Control Questionnaire, Tests of Internal Control.</p>	PO 1, PO 2, PO 4

			21.5: Compare relationship between Internal Auditor and Statutory Auditor, Professional Scepticism, Concept of Audit Risk-Application of Concept of Materiality- Relationship between Audit Risk and Materiality.	
			21.6: Describe with examples Cost audit, Management Audit, Green (Environmental) Audit.	
			21.7: Identify and define audit in Computerized Environment, Professional ethics, Audit of Government organisations.	
	Business Research Methods (GE. 404)	CO-22	22.1: Identify with the basics of research, ethics in research as well as show the importance of research in business decision making and research process.	PO 1, PO 2, PO 6
			22.2: Identify the importance of various types of research and develop a sufficiently coherent research design. 22.3: Interpreting and applying the four levels of measurement in scaling. 22.4: Application of ANOVA, Multivariate analysis, ARCH, GARCH models.	PO 1, PO 2, PO 6, PO 8, PO 9

	Financial Analysis (DSE 405 A)	CO-23	23.1: Recall meaning and objective of financial analysis – Origin of financial analysis – Demand for and supply of financial statement information – Sources of financial information – Traditional versus New approach to financial analysis.	PO 1, PO 2 PO 6
			23.2: Solve problems on Tools and Techniques of Financial Statement Analysis: Horizontal or trend analysis – Vertical analysis or common size statements – Use of accounting ratios and other statistical measures for analysis.	PO 1, PO 2
			23.3: Solve and analyse problems on Profitability and Cash Flow Analysis.	PO 1, PO 2, PO 4, PO 6
			23.4: Solve problems on Liquidity and Solvency Analysis.	
			23.5: Solve problems on random walk and efficient capital market, random walk.	
	International Finance Paper Code: (DSE 406 A)	CO-24	23.6: Recall reasons of business distress.	
			23.7: Recall credit and Equity Risk Analysis.	
			24.1: Interpret Exchange Rate Quotations, Exchange Rate Exposure, Exchange Rate Volatility, Volatility Clustering, Transaction Exchange Risk, Forward Contracts, Arbitrage and Trading.	PO 1, PO 2, PO 4, PO 6

			<p>24.2: Solve problems on Interest Rate Parity, Hedging Transaction Risk in the Money Market, Biasedness Hypothesis, Purchasing Power Parity and Real Exchange Rates, MacPPP Standard.</p> <p>24.3: Solve problems on Contract and Price Quotes, Risk Management.</p>	
			<p>24.4: Recall Currency Swaps: Features, Market Quotations, Borrowing advantages, Counter-Party Risk, Swaps as a series of Forward Contracts, Hedging.</p> <p>24.5: Summarize Foreign Investment and Working Capital Management.</p> <p>24.6: Outline International Tax Equity and Tax Neutrality Tax Havens, Double Taxation, Relief from Double Taxation, Tax Treaties.</p>	PO 1, PO 2
	Consumer Behaviour and Marketing Research (DSE 405 C)	CO-25	<p>25.1: Conceptualise importance of stimulus response model.</p> <p>25.2: Define opinion leadership, innovation, diffusion, adoption.</p> <p>25.3: Outline buying decision process, role of involvement, consumer behaviour models.</p> <p>25.4: Define organizational Behaviour family buying behaviour.</p>	PO 1, PO 2, PO 7, PO 9

			<p>25.5: Recognise and implement scope of Marketing Research.</p> <p>25.6: Compare and contrast Qualitative Vs Quantitative Research.</p> <p>25.7: Identifying sources of Information and Marketing Information System.</p>	
IV	Product Management and Marketing Services (DSE. 406C)	CO-26	<p>26.1: Describe Product and Product management - its types. Consumer, Industrial & Service; Product Line & Mix Decisions: Concept of Product Line & Mix, Bases, Examples of Product Line, Dimensions, Product Line Vs Product Mix.</p> <p>26.2: Classification of products; viz. Consumer & Industrial: Convenience Goods, Shopping Goods, Specialty Goods, Impulse Goods, Emergency Goods.</p> <p>26.3: Summarize Brand Building Process, Branding Techniques & Decisions.</p> <p>26.4: Recognise Branding Decisions- Brand Positioning, Brand Name, Brand Sponsorship, Brand Development, discussion of different branding techniques.</p> <p>26.5: Summarise Brand Positioning, its importance, strategies, examples, types, characteristics; Brand Relaunch: Meaning, Need for relaunch, Components of successful Brand prelaunch.</p>	PO 1, PO 2, PO 7

			<p>26.6: Analysing competitors and their marketing strategy, Competitive position, challenges for leader and challenger, its different strategies.</p> <p>26.7: Recognising growth of Service Industry; Importance; Service as Independent Product and Product Support; Types; Characteristics of a Service, service marketing mix, service quality.</p>	
--	--	--	--	--

PROGRAMME SPECIFIC OUTCOME (PSO)

Upon completion of the postgraduate course in Commerce the student will be able to:

PSO-1: To inculcate advanced knowledge of business and the techniques of managing the business with special focus on finance, taxation, economics and marketing.

PSO-2: To foster students with the theoretical knowledge and skill sets to meet the challenges of the industry.

PSO-3: To create awareness in application-oriented research through research methodology for business decisions.



THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA
RECOGNISED UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956

ENVIRONMENTAL STUDIES



PO/CO/PSO

Programme Outcomes (PO)

Course Outcomes (CO)

Programme Specific Outcomes (PSO)

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

A MINORITY RUN COLLEGE AFFILIATED TO THE UNIVERSITY OF CALCUTTA

RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT, 1956

B.A./B.Sc./B. Com**ENVIRONMENTAL STUDIES****AECC 2****PROGRAMME OUTCOMES (PO)**

Upon completion of the paper in Environmental Studies, the student will be able to:

PO	Programme Outcomes	Description
PO 1	Critical Thinking	Select, design, and apply appropriate techniques to save environmental resources
PO 2	Ethics	Formulate principles and shoulder responsibilities to protect the environment and spread awareness of related issues.
PO 3	Social Interaction	Apply knowledge of environmental policies and legislation to protect human rights and that of wildlife.
PO 4	Environment and Sustainability	Understand and appreciate one's role in finding sustainable solutions to environmental issues and related challenges.
PO 5	Individual and Teamwork	Perform in an effective way as an individual, a member of society, and as a team, for the conservation of the environment.

COURSE OUTCOMES (CO)

Upon completion of the paper on Environmental Studies as a subject, the student will be able to:

Semester	Course Name and Code	CO Number	Course Outcomes	Relevant POs
II	Environmental Studies (AECC 2)	CO-1	1.1: Recall major environmental issues. 1.2: Interpret concepts of sustainability and sustainable development.	PO 1, PO 4
		CO-2	2.1: Interpret concepts of ecology and ecosystem, its structure, and function. 2.2: Identify characteristic features of the forest, grassland, desert, and aquatic ecosystems.	PO 1, PO 2
		CO-3	3.1: Identify renewable and non-renewable resources. 3.2: Discuss: - (a) deforestation- its causes, consequences, and remedial measures. (b) water-its use, over-exploitation, and conflicts over water (international and state) (c) energy-its generation, alternative sources, and its growing needs.	PO 1, PO 2, PO 4

		CO-4	4.1: Examine the importance of biological diversity. 4.2: Classify biogeographic zones. 4.3: Understand the importance of Biodiversity, its values, and the In-situ and Ex-situ conservation of biodiversity. 4.4: Identify India as a mega-biodiversity nation.	PO 1, PO 2, PO 3
		CO-5	5.1: Describe Environmental pollution-its concepts and types and assess measures to fight hazards and improve human health. 5.2: Recognize causes, effects, and control of air, water, soil, noise, and marine pollution.	PO 2, PO 3
		CO-6	6.1: Gain an insight into the environmental policies and practices. 6.2: Summarize international agreements; Montreal Protocol, Kyoto Protocol, Convention of Biological Diversity (CBD)	PO 2, PO 3, PO 4
		CO-7	7.1: Compare case studies on resettlement and rehabilitation	PO 3, PO 5

			<p>7.2: Sketch Human population growth, and its impact on the environment, human health, and welfare.</p> <p>7.3: Interpret Environmental movements like Bishnoi, Chipko, Silent valley, and Big dam movements.</p> <p>7.4: Articulate Environmental ethics and take part in environmental education and public awareness.</p> <p>7.5: Develop a project on any one environmental issue or study and analyze the ecosystems.</p>	
--	--	--	--	--

PROGRAMME SPECIFIC OUTCOMES (PSO)

Upon completion of the paper in Environmental Studies (AECC 2) the student will be able to:

- PSO-1:** Acquire the knowledge of physical as well as socio-economic factors of the surrounding nature and easily correlate with the outer environment.
- PSO-2:** Become sensitive to the environmental problems created by the over-exploitation of natural resources and develop an understanding of the overall impact of environmental hazards on mankind.
- PSO-3:** Develop correct solutions to various common environmental issues.
- PSO-4:** Understand the holistic approach in relation to other sciences like Biology, Economics, Geography, Chemistry, Mathematics, Statistics, and even the social sciences.
- PSO-5:** Assimilate processes to develop solutions to environmental problems on completion of a project on Environmental Studies.
- PSO-6:** Develop proficiency in accumulating, analyzing, and interpreting data with a view to creating awareness towards the conservation of natural resources.