

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : **Bba** Academic Session : **2022-23**

CO Details		PO Details				
SI No.	Course Name	PO1 (To ensure holistic development of the students by providing an academic environment as well as practical exposure which is conducive to the formation of corporate leaders of tomorrow.)	PO2 (An Understanding of Business Functions and its Operations)	PO3 (Developing Critical and Analytical Thinking Abilities)	PO4 (Developing Personality and Inter personal skills conducive for corporate world)	PO5 (Acquire qualitative and quantitative skills to consolidate, synthesize, and analyze business information.)
1	PRINCIPLES OF MANAGEMENT AND ORGANISATION BEHAVIOUR	✓	✓	✓		
2	BUSINESS ACCOUNTING		✓	✓		✓
3	ENTREPRENEURSHIP DEVELOPMENT	✓		✓	✓	

4	BUISNESS COMMUNICATION	✓				✓
5	STATISTICS FOR BUSINESS DECISION			✓		✓
6	MANAGERIAL ECONOMICS			✓		✓
7	BUSINESS ETHICS	✓		✓		
8	HUMAN RESOURCE MANAGEMENT		✓	✓	✓	
9	MARKETING MANAGEMENTG		✓	✓	✓	
10	MANAGEMENT ACCOUNTING		✓	✓		✓
11	PRODUCTION AND OPERATION MANAGEMENT			✓		✓
12	INFORMATION TECHNOLOGY TOLLS FOR BUSINESS			✓		
13	BUSINESS RESEARCH		✓	✓		✓
14	MACROECONOMICS			✓		✓

15	FINANCIAL MANAGEMENT		✓	✓		✓
16	TAX PLANNING			✓		✓
17	E-COMMERCE		✓			
18	QUANTITATIVE TECHNIQUES IN MANEGMENT			✓		✓
19	LEGAL ASPECTS OF BUSINESS		✓	✓		
20	STRATEGIC CORPORATE FINACE		✓	✓		
21	CONSUMER BEHAVIOUR		✓		✓	✓
22	HRD: SYSTEMS AND STRATEGIES		✓		✓	✓
23	ADVERTISEMENT AND BRAND MANAGEMENT		✓		✓	✓
24	INVESTMENT ANALYSIS AND PORTFOLIO MANEGEMNT			✓		✓

25	MANAGEMENT OF INDUSTRIAL RELATIONSHIP		✓		✓	
26	BUSINESS POLICY AND STRATEGY	✓	✓	✓		
27	FINANCIAL INSTITUTIONS AND MANAGEMENT		✓			✓
28	INVESTMENT BANKING AND FINANCIAL SERVICES	✓	✓			✓
29	MARKETING OF SERVICES	✓	✓		✓	
30	PERFORMANCE AND COMPENSATION MANAGEMENT	✓	✓		✓	

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : **Commerce** Academic Session : **2022-23**

CO Details		PO Details										
SI No.	Course Name	PO1 (This program may also offers in-depth knowledge in accounting and financial subjects by different means such as classroom teachings, seminars, and projects industrial visits, expert talks etc.)	PO2 (The students will be prepared for employment in functional areas like accounting, taxation, banking, insurance and corporate law.)	PO3 (An brashness for working effectively and efficiently in a business environment.)	PO4 (Students will gain knowledge of various disciplines of commerce like business, accounting, economics, and finance, auditing and marketing.)	PO5 (Program Specific Consequence Students also acquire skills to work as tax consultant, audit assistant and other financial supporting services.)	PO6 (Have an insight into Indian Economy as well as to comprehend microeconomics.)	PO7 (Students have choices to pursue their academic course like M.COM and professional courses such as CA, MBA, CMA, ICMA, CS, etc.)	PO8 (Students are able to play their key managerial roles of businessmen, entrepreneur, managers, consultant, which will help to possess knowledge and other soft skills and to respond pertinently when confronted with critical decision making.)	PO9 (Get ideas for being successful entrepreneur in modern times.)	PO10 (Gain awareness of environment and its inevitable importance to the society.)	PO11 (Develop computational expertise with the help of different statistical tools and techniques.)
1	CC2.1CH: COST & MANAGEMENT ACCOUNTING	✓	✓					✓				
2												
3	CC3.1CH: FINANCIAL ACCOUNTING II				✓			✓				
4	CC3.2 CH INDIAN FINANCIAL SYSTEM	✓						✓				

5	GE 4.1 CHG: MICROECONOMICS II AND INDIAN ECONOMY											
6	CC 4.1 CH: TAXATION	✓	✓			✓						
7	CC 4.1 CHG: ENTREPRENEURSHIP DEVELOPMENT AND BUSINESS ETHICS	✓		✓					✓	✓		
8	CC 4.2 CH: COST & MANAGEMENT ACCOUNTING II		✓					✓	✓	✓		
9	DSE6.2A: FINANCIAL MANAGEMENT	✓	✓		✓			✓	✓	✓		
10	DSE6.1A: FINANCIAL REPORTING & FINANCIAL STATEMENT ANALYSIS			✓				✓	✓			
11	CC6.1CH: PROJECT WORK			✓								
12	SEC6.1CHG: COMPUTERISED ACCOUNTING AND E- FILLING OF TAX RETURNS		✓									
13	CC 5.1CH: AUDITING & ASSURANCE	✓				✓		✓				
14	CC 5.2CH: TAXATION II							✓				
15	DSE 5.1 A: MACROECONOMICS AND ADVANCED BUSINESS MATHEMATICS											

16	DSE 5.2 A: CORPORATE ACCOUNTING	✓			✓							
17	CC 1.1 CH: FINANCIAL ACCOUNTING I	✓										
18	CC 1.1 CHG: BUSINESS LAW								✓			
19	CC 1.2 CHG: PRINCIPLES OF MANAGEMENT				✓	✓	✓					
20	GE2.1CHG: E- COMMERCE & BUSINESS COMMUNICATION	✓										✓
21	CC2.1CHG: COMPANY LAW											
22	CC2.2CHG: MARKETING MANAGEMENT & HUMAN RECOURSE MANAGEMENT				✓	✓						
23	GE 1.1 CHG: MICROECONOMICS I & STATISTICS											
24	GE 3.1 CHG BUSINESS MATHEMATICS & STATISTICS											

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : **Botany** Academic Session : **2022-23**

CO Details		PO Details							
SI No.	Course Name	PO1 (Develop in depth understanding in various fields of plant science)	PO2 (Motivate students for higher education and research)	PO3 (Identify plants and their ethnobotanical, pharmaceutical importance and application in industries)	PO4 (Develop Job Prospects and Entrepreneurship)	PO5 (Laboratory skills, instrumentation, skill enhancement)	PO6 (Social wellbeing, environment, sustainability, nature and conservation)	PO7 (Presentations, report writing, project writing, scientific article writing, calculations and chart, model preparations)	PO8 (Discipline, time management, application of theoretical knowledge , survey, testing in field study)
1	PHYCOLOGY AND MICROBIOLOGY (BOT-A-CC-1-1-TH & P)	✓	✓	✓	✓	✓	✓	✓	✓
2	MYCOLOGY AND PHYTOPATHOLOGY (BOT-A-CC-1-2-TH & P)	✓	✓	✓	✓	✓	✓	✓	✓
3	PLANT ANATOMY (BOT-A-CC-2-3-TH & P)	✓	✓		✓	✓		✓	
4	ARCHEGONIATE (BOT-A-CC-2-4-TH & P)	✓	✓	✓	✓	✓	✓	✓	✓

5	PALAEOBOTANY AND PALYNOLOGY (BOT-A-CC-3-5-TH & P))	✓	✓		✓	✓		✓	
6	REPRODUCTIVE BIOLOGY OF ANGIOSPERMS (BOT-A-CC-3-6-TH & P)	✓	✓	✓	✓	✓	✓	✓	✓
7	PLANT SYSTEMATICS (BOT-A-CC-3-7-TH & P)	✓	✓	✓	✓	✓	✓	✓	✓
8	APPLIED PHYCOLOGY, MYCOLOGY AND MICROBIOLOGY (BOT-A-SEC-A-3-1-T)	✓	✓		✓	✓	✓	✓	
9	PLANT GEOGRAPHY, ECOLOGY AND EVOLUTION (BOT-A-CC-4-8-T & P)	✓	✓		✓	✓	✓	✓	✓
10	ECONOMIC BOTANY (BOT-A-CC-4-9-TH & P)	✓	✓	✓	✓	✓	✓	✓	✓
11	GENETICS (BOT-A-CC-4-10-TH & P)	✓	✓		✓	✓		✓	

12	MUSHROOM CULTURE TECHNOLOGY (BOT-A-SEC-B-4-4-T)	✓	✓	✓	✓	✓	✓	✓	
13	CELL AND MOLECULAR BIOLOGY (BOT-A-CC-5-11-TH & P)	✓	✓		✓	✓		✓	
14	BIOCHEMISTRY (BOT-A-CC-5-12-TH & P)	✓	✓	✓	✓	✓		✓	
15	BIostatISTICS DSE A: BOT-A-DSE-A-5-1-TH & P	✓	✓		✓	✓		✓	
16	PLANT PHYSIOLOGY BOT-A-CC-6-13-(TH & P)	✓	✓		✓	✓		✓	
17	PLANT BIOTECHNOLOGY (BOT-A-DSE-B-5-5-TH)	✓	✓		✓	✓		✓	
18	PLANT METABOLISM BOT-A-CC-6-14-(TH & P)	✓	✓		✓	✓		✓	
19	MEDICINAL AND ETHNOBOTANY (BOT-A-DSE-A-6-3-TH & P)	✓	✓	✓	✓	✓	✓	✓	

20	NATURAL RESOURCE MANAGEMENT (BOT-A-DSE-B-6-8- TH & P)								
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TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : Computer Science Academic Session : 2022-23											
CO Details		PO Details									
Sl No.	Course Name	PO1 (Knowledge in Hardware and Electronics Devices)	PO2 (Proficient in Assembly, Procedural as well as Object Oriented Programming and Scripting Language)	PO3 (Proficient in Database Management and Query Language)	PO4 (Proficient in Software Models and Data Flow Diagram)	PO5 (Knowledge in Automata theory, formal language, Turing machine and push down automata)	PO6 (Knowledge in Linear and Non-linear Data Structure. Designing and analyzing different types of algorithms, solving computational problems regarding their computability and complexity)	PO7 (Knowledge in various Cryptographic Algorithms)	PO8 (Proficient in Image Compression, 2D Transformation, Video and Image Editing)	PO9 (Knowledge in Computer Networking Communications, Resource management algorithms)	PO10 (Knowledge in handling Scientific Calculations in Computer)
1	CC-1 DIGITAL LOGIC	✓									
2	CC-2 PROGRAMMING FUNDAMENTALS USING C		✓								
3	CC-3 DATA STRUCTURE						✓				
4	CC-4 BASIC ELECTRONICS DEVICES AND CIRCUITS	✓									

5	CC-5 COMPUTER ORGANIZATION & ARCHITECTURE	✓									
6	CC-6 COMPUTATIONAL MATHEMATICS										✓
7	CC-7 OPERATING SYSTEM									✓	
8	SEC-A1 COMPUTER GRAPHICS							✓			
9	CC-8 DATA COMMUNICATION, NETWORKING & INTERNET TECHNOLOGY		✓							✓	
10	CC-9 INTRODUCTION TO ALGORITHMS & ITS APPLICATION						✓				
11	CC-10 MICROPROCESSOR AND ITS APPLICATIONS		✓								
12	CC-11 DBMS			✓							
13	CC-12 OBJECT ORIENTED PROGRAMMING		✓								
14	DSE-A1 DIGITAL IMAGE PROCESSING							✓			
15	DSE-B2 PROGRAMMING USING PYTHON		✓								

16	CC-13 SOFTWARE ENGINEERING				✓						
17	CC-14 THEORY OF COMPUTATION					✓					
18	DSE-A4 MULTIMEDIA AND ITS APPLICATION								✓		
19	DSE-B4 ADVANCE JAVA		✓								
20	SEC-B-1 INFORMATION SECURITY							✓			

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : English Academic Session : 2022-23

CO Details		PO Details							
SI No.	Course Name	PO1 (Nurturing and applying critical thinking while analysing texts)	PO2 (Creating awareness of issues related to gender and sexuality)	PO3 (Acquiring the capacity to write creatively)	PO4 (Gaining insights to complex issues of identity and nationhood)	PO5 (Fostering inter-disciplinary approach)	PO6 (Developing means of effective communication)	PO7 (Acquiring values to sustain life-long learning)	PO8 (Developing awareness of culture and history)
1	CC5 - AMERICAN LITERATURE	✓	✓		✓	✓		✓	✓
2	CC 6- POPULAR LITERATURE	✓	✓		✓	✓		✓	✓
3	CC 7- BRITISH POETRY AND DRAMA(17TH-18TH CENTURY)	✓	✓		✓	✓		✓	✓
4	SEC A2- BUSINESS COMMUNICATION			✓			✓	✓	

5	CC 8- BRITISH LITERATURE (18TH CENTURY)	✓	✓		✓	✓		✓	✓
6	CC 10- 19TH CENTURY BRITISH LITERATURE	✓	✓		✓	✓		✓	✓
7	SEC B2- ACADEMIC WRITING AND COMPOSITION	✓		✓		✓	✓	✓	
8	CC 12- EARLY 20TH CENTURY BRITISH LITERATURE	✓	✓		✓	✓		✓	✓
9	DSE A2- LITERARY THEORY AND CRITICISM	✓	✓		✓	✓		✓	✓
10	DSE B1- LITERARY TYPES, RHETORIC AND PROSODY	✓		✓				✓	
11	CC 13- MODERN EUROPEAN DRAMA	✓	✓		✓	✓		✓	✓

12	CC 14- POSTCOLONIAL LITERATURE	✓	✓		✓	✓		✓	✓
13	DSE A3- PARTITION LITERATURE	✓	✓		✓	✓		✓	✓
14	CC 4- BRITISH POETRY AND DRAMA(14TH- 17TH CENTURY)	✓	✓		✓	✓		✓	✓
15	CC 9- BRITISH ROMANTIC LITERATURE	✓	✓		✓	✓		✓	✓
16	CC 2- EUROPEAN CLASSICAL LITERATURE	✓	✓			✓			✓
17	CC 1- HISTORY OF ENGLISH LITERATURE AND PHILOLOGY	✓	✓	✓	✓	✓	✓		✓
18	CC 3- INDIAN WRITING IN ENGLISH	✓	✓		✓	✓		✓	✓
19	DSE B3- AUTOBIOGRAPHY	✓	✓		✓	✓		✓	✓

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : **Food And Nutrition** Academic Session : **2022-23**

CO Details		PO Details					
SI No.	Course Name	PO1 (PO3: To apply the knowledge of food microbiology, sanitation and hygiene in food production and service)	PO2 (PO4:To understand the working and management of the dietary departments of the various organizations.)	PO3 (PO1: Utilize knowledge from the food science, human physiology, nutritional biochemistry, public health and food microbiology as a basis for understanding the role of food and nutrients in health and disease prevention.)	PO4 (PO2: .To develop skill and confidence to make informed decisions about healthy diet in health and disease.)	PO5 (PO5: To gain concepts of food safety and quality managements, national and international food laws and regulations as well as importance of food engineering and packaging in food industry.)	PO6 (PO6: To make the students familiar with the technologies of food processing and preservation of plant and animal foods, cereals, pulses, oilseeds, fruits vegetables, spices, meat, fish, poultry, sea food, milk and dairy products.)
1	HUMAN PHYSIOLOGY-I			✓	✓		

2	BASIC FOOD SCIENCE-II			✓	✓		✓
3	HUMAN PHYSIOLOGY-II			✓	✓		
4	SPORTS NUTRITION	✓	✓	✓			
5	FOOD SAFETY AND QUALITY CONTROL	✓				✓	✓
6	FOOD FERMENTATION			✓	✓	✓	✓
7	FOOD MICROBIOLOGY (CC 13)	✓		✓		✓	✓
8	FOOD COMMODITIES (CC 7)		✓		✓	✓	✓
9	HUMAN NUTRITION 2 (CC 8)		✓	✓	✓		
10	COMMUNITY NUTRITION (CC 6)	✓	✓	✓	✓		

11	FOOD PRESERVATION (CC 14)	✓	✓		✓	✓	✓
12	DIET COUNSELING AND PATIENT CARE (DSE A3)	✓		✓	✓		
13	SEC-NUTRITION EDUCATION		✓	✓			✓
14	DSE A1-PUBLIC HEALTH	✓		✓	✓	✓	
15	DSE A2-GERIATRIC NUTRITION		✓	✓	✓		
16	NUTRITIONAL BIOCHEMISTRY-I			✓	✓		
17	NUTRITIONAL BIOCHEMISTRY-II			✓	✓		
18	BASIC FOOD SCIENCE-I		✓	✓			
19	HUMAN NUTRITION-I		✓	✓	✓		

20	DIET THERAPY - II						
21	DIET THERAPY - I						

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : **Geography** Academic Session : **2022-23**

CO Details		PO Details						
SI No.	Course Name	PO1 (Geography mainly concerns changes in spatial attributes in a temporal perspective.)	PO2 (Understand the unifying themes and their relationships of both human and physical geography.)	PO3 (Identify, characterize, and explain spatial patterns and structures the interrelationship between people and places and the interactions between nature and society.)	PO4 (Developing a sustainable approach towards the ecosystem and the biosphere with a view to conserve natural systems and maintain ecological balance.)	PO5 (Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship.)	PO6 (Training in practical techniques of mapping, cartography, software, interpretation of maps, photographs, and images etc; to understand the spatial variation of phenomena on the Earth's surface.)	PO7 (Improving research abilities through reviewing literature, framing the research problems, preparing a project report collecting physical and socio-economic data, data processing and analysis.)

1	1. GEO-A-CC-1-01 – GEOTECTONICS AND GEOMORPHOLOGY	✓						
2	2. GEO-A-CC-1-02– CARTOGRAPHIC TECHNIQUES						✓	
3	3. GEO-A-CC-2-03– HUMAN GEOGRAPHY		✓	✓				
4	4. GEO-A-CC-2-04 – THEMATIC MAPPING AND SURVEYING						✓	
5	5. GEO-A-CC-3-05 – CLIMATOLOGY	✓	✓					
6	6. GEO-A-CC-3-06 – HYDROLOGY AND OCEANOGRAPHY	✓	✓					
7	7. GEO-A-CC-3-07 – STATISTICAL METHODS IN GEOGRAPHY						✓	
8	8. GEO-A-CC-4-08 – ECONOMIC GEOGRAPHY	✓	✓					

9	9. GEO-A-CC-4-09 – REGIONAL PLANNING AND DEVELOPMENT		✓	✓				
10	10. GEO-A-CC-4-10 – SOIL AND BIOGEOGRAPHY				✓			
11	11. GEO-A-CC-5-11 – RESEARCH METHODOLOGY AND FIELDWORK							✓
12	12. GEO-A-CC-5-12 – REMOTE SENSING, GIS AND GNSS						✓	
13	13. GEO-A-CC-6-13 – EVOLUTION OF GEOGRAPHICAL THOUGHT					✓		
14	14. GEO-A-CC-6-14 – HAZARD MANAGEMENT	✓	✓					
15	1. GEO-A-SEC-A-3- 01 – COASTAL MANAGEMENT	✓	✓					

16	2. GEO-A-SEC-B-4-04 – SUSTAINABLE DEVELOPMENT				✓			
17	1. GEO-A-DSE-A-6-01 – FLUVIAL GEOMORPHOLOGY	✓	✓		✓			
18	2. GEO-A-DSE-B-6-05 – CULTURAL AND SETTLEMENT GEOGRAPHY		✓	✓				
19	3. GEO-A-DSE-A-6-04 – RESOURCE GEOGRAPHY		✓	✓				
20	4. GEO-A-DSE-B-6-08 – GEOGRAPHY OF INDIA	✓	✓	✓				

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : Hindi Academic Session : 2022-23											
CO Details		PO Details									
SI No.	Course Name	PO1 (To prepare the students with skill to analyze the concept And different theories of Hindi literature and language.)	PO2 (students will get the knowledge of ancient medieval and modern Hindi.)	PO3 (one will get the knowledge of origin of Hindi language and literature.)	PO4 (hindi has a great influence on the English language and culture across the globe.)	PO5 (knowing Hindi is an advantage in the Indian market.)	PO6 (Imbibe the effective communication in both mediums of expression (oral and writing).)	PO7 (students can broaden their understanding of the Indian culture.)	PO8 (students will get the information about the Hindi poets and writers to their poetries and stories.)	PO9 (Continue to acquire relevant knowledge and skills appropriate to professional activities.)	PO10 (To nurture analytical qualities or skills, thinking power,creativity through assignment and project works.)
1											
2	CC-1(HINDI SAHITYA KA ITIHAAS (RITIKAL TAK)		✓								
3	CC-2 HINDI SAHITYA KA ITIHAAS		✓								
4	CC-3 ADIKALIN EVAM MADHYAKALIN HINDI KAVITA								✓		

16	DSE-A (1) -5 RASHTRIYA KAVYA DHARA										✓	
17	DSE B(2)- CHHAYAVAAD										✓	
18	CC-13 HINDI KI SAHITYIK PATRAKARITA.											✓
19	CC-14 PRAYOJANMULAK HINDI.											✓
20	DSE -A 2(5) PRAVASI SAHITYA										✓	
21	DSE B-2 (6) PREMCHAND										✓	

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : Journalism And Mass Communication Academic Session : 2022-23

CO Details		PO Details									
SI No.	Course Name	PO1 (Students are going to learn introduction to journalism along with idea on news reporting and editing, basic structure of newspaper along with the page set up in print journalism.)	PO2 (Students will learn the history of Indian press and its role in renaissance and freedom movement, before and after independence.)	PO3 (Students will learn the role, duties and responsibilities of editor, reporter, correspondents etc, photo journalism, Health and science communication and journalism.)	PO4 (Students will know different types of theories and models related to communication, media and society as well as cultural studies)	PO5 (Students would have an introductory idea on Radio and TV, their history, growth and function, Film theories and film production techniques)	PO6 (Students would learn media management, ownership patterns, economy of the press and factors related to regulation of the media organization along with press laws and media ethics.)	PO7 (Students would understand the introductory concepts of new media, history, development, challenges, participatory journalism and citizen journalism, visual design blogging etc.)	PO8 (Students would understand the concepts and paradigms of development communication, various development communication theories and models, Indian popular development communication projects, gender, media and environment)	PO9 (Students would learn basics of advertisements and public relations, along with historical overview, socio-economic and cultural impact, ethics, different theories and models, working procedure of ad agencies, online advertisement.)	PO10 (Students will learn the fundamental ideas of communication research, conduct a micro research project within 7000-8000 words on topics e.g. social, political and cultural with proper reference and bibliography along with presentation.)
1	JORA-CC1: INTRODUCTION TO JOURNALISM	✓		✓		✓	✓	✓	✓		✓
2	JORA-CC2: HISTORY OF INDIAN JOURNALISM		✓					✓			✓
3	JORA-CC3: REPORTING AND EDITING			✓		✓	✓	✓	✓		
4	JORA-CC4: MEDIA AND COMMUNICATION	✓			✓			✓	✓		✓

5	JORA-CC5: COMMUNICATION, MEDIA, SOCIETY	✓			✓			✓	✓		✓
6	JORA-CC6: MEDIA AND CULTURAL STUDIES	✓	✓		✓			✓	✓		
7	JORA-CC7: INTRODUCTION TO RADIO	✓	✓	✓	✓	✓	✓	✓	✓		✓
8	JORA-SEC-A: PHOTO JOURNALISM	✓		✓	✓	✓		✓	✓		✓
9	JORA CC-8 INTRODUCTION TO TELEVISION	✓	✓	✓	✓	✓	✓	✓	✓		✓
10	JORA-CC9 FILM THEORY AND PRODUCTION		✓			✓		✓			
11	JORA-CC10 MEDIA MANAGEMENT AND PRESS LAW	✓		✓		✓	✓	✓		✓	
12	JORA SEC-B DOCUMENTARY FILM PRODUCTION				✓	✓		✓			✓
13	JORA CC 11: INTRODUCTION TO NEW MEDIA	✓		✓		✓	✓	✓	✓	✓	✓
14	JORA CC 12 DEVELOPMENT COMMUNICATION	✓		✓	✓	✓	✓	✓	✓	✓	✓
15	JORA DSE-A: MEDIA, HUMAN RIGHTS, GENDER, ENVIRONMENT STUDIES	✓		✓	✓	✓	✓	✓	✓		✓

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : **Microbiology** Academic Session : **2022-23**

CO Details		PO Details						
SI No.	Course Name	<p>PO1 (Students will be acquainted with a wide range of contemporary subjects spanning various aspects of basic microbiology such as Biochemistry , Immunology , Cell biology, Genetics, Molecular Biology and many more.)</p>	<p>PO2 (Students will be acquainted with laboratory safety rules and regulations and can develop skills applicable to both clinical and analytical research.)</p>	<p>PO3 (Students will gain the concepts of scientific methodology, hypothesis generation and testing, design and execution of experiments, reporting observations.)</p>	<p>PO4 (This course makes students competent enough to use various molecular techniques necessary to analyze biological problems.)</p>	<p>PO5 (This program is designed for making students well-versed in different language(s) and in subject like Environmental Science .)</p>	<p>PO6 (To make students knowledgeable about the concept of development of microbial and plant diseases, dissemination patterns, management and eradication from society.)</p>	<p>PO7 (Graduate students can pursue careers in different fields such as in scientific writing, in health, environment, pharmaceutical , agriculture , biotechnology industries or in entrepreneurship. They learn to integrate science with society.)</p>

1	CC1- INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY	✓	✓	✓		✓	✓	
2	CC2- BACTERIOLOGY	✓	✓	✓			✓	
3	CC-3: BIOCHEMISTRY	✓	✓	✓				✓
4	CC-4: CELL BIOLOGY	✓	✓	✓				✓
5	CC-5: VIROLOGY	✓	✓		✓	✓	✓	✓
6	CC-6: MICROBIAL PHYSIOLOGY AND METABOLISM	✓	✓	✓		✓		
7	CC-7: MOLECULAR BIOLOGY	✓	✓	✓	✓			✓
8	SEC-A1: MICROBIAL QUALITY CONTROL IN FOOD AND PHARMACEUTICAL INDUSTRIES	✓					✓	✓
9	CC-8: MICROBIAL GENETICS	✓	✓	✓				

10	CC-9: ENVIRONMENTAL MICROBIOLOGY	✓	✓	✓		✓		✓
11	CC-10: RECOMBINANT DNA TECHNOLOGY	✓	✓	✓	✓			✓
12	SEC-B2: MICROBIOLOGICAL ANALYSIS OF AIR AND WATER	✓				✓		✓
13	CC-11: FOOD AND DAIRY MICROBIOLOGY	✓	✓					✓
14	CC-12: INDUSTRIAL MICROBIOLOGY	✓	✓	✓	✓			✓
15	DSE-A1: MICROBIAL BIOTECHNOLOGY	✓	✓	✓	✓			✓
16	DSE-B2: MICROBES IN SUSTAINABLE AGRICULTURE AND DEVELOPMENT	✓	✓	✓		✓		✓
17	CC-13: IMMUNOLOGY	✓	✓	✓	✓			✓

18	CC-14: MEDICAL MICROBIOLOGY	✓	✓	✓		✓	✓	✓
19	DSE-A3: PLANT PATHOLOGY	✓	✓			✓	✓	✓
20	DSE-B3: INSTRUMENTATION AND BIOTECHNIQUES	✓	✓	✓				✓

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Mapping/Co-relation Program Outcome(PO) & Course Outcome(CO)

Department : Zoology Academic Session : 2022-23

CO Details		PO Details									
SI No.	Course Name	PO1 (Acquiring a thorough knowledge and understanding of the biological process)	PO2 (Developing Laboratory and Experimentation Skills, Designing Experiments.)	PO3 (Developing an analytical aptitude, learn to ask fundamental questions in biology, get acquainted with elements of modern biology)	PO4 (Developing a sense of awareness among the students about their surroundings, managing their environment sustainably.)	PO5 (Gain an elementary mechanistic understanding of how diseases occur, their molecular pathogenesis, immunological basis and remedial strategies.)	PO6 (Acquire the knowledge about cellular, biochemical and molecular processes that control cellular physiology and pathology, occurrence of inherited and non-inherited human diseases as well as parasite growth and development.)	PO7 (Learn about advanced techniques in cell and molecular biology and recombinant DNA technology which will enable them to select a career in biomedical research.)	PO8 (Development of Entrepreneurial Skills.)	PO9 (Generating Prospects of employment in reputed organisation like ZSI, DBT, DRDO, ASTEC, IUCN, DST, etc)	PO10 (DEVELOPING ENTHUSIASM REGARDING FIELD WORK, WILD LIFE PHOTOGRAPY, WILD LIFE JOURNALISM AND CONSERVATIONAL JOBS)
1	ZOOA-CC1-1 : NON-CHORDATES I (PROTISTS TO PSEUDOCOELOMATES)	✓	✓		✓	✓	✓			✓	
2	ZOOA-CC1-2 : MOLECULAR BIOLOGY	✓	✓	✓			✓	✓		✓	
3	ZOOA-CC2-3 : NON-CHORDATES II – COELOMATES	✓	✓		✓					✓	
4	ZOOA-CC2-4 : CELL BIOLOGY	✓	✓	✓			✓	✓		✓	
5	ZOOA-CC3-5 : CHORDATA	✓	✓	✓	✓					✓	✓

6	ZOOA-CC3-6 : ANIMAL PHYSIOLOGY: CONTROLLING AND CO-ORDINATING SYSTEM	✓	✓	✓						✓	
7	ZOOA-CC3-7 : FUNDAMENTALS OF BIOCHEMISTRY	✓	✓	✓						✓	
8	ZOOA-CC4-8 : COMPARATIVE ANATOMY OF VERTEBRATES	✓	✓		✓						
9	ZOOA-CC4-9 : ANIMAL PHYSIOLOGY: LIFE SUSTAINING SYSTEMS	✓	✓	✓	✓		✓	✓	✓	✓	
10	CC10: IMMUNOLOGY	✓	✓	✓	✓	✓	✓	✓		✓	
11	CC11: ECOLOGY	✓	✓	✓	✓					✓	✓
12	CC12:GENETICS	✓	✓	✓			✓			✓	
13	CC13: DEVELOPMENTAL BIOLOGY	✓	✓	✓			✓			✓	
14	CC14: EVOLUTIONARY BIOLOGY	✓	✓	✓	✓					✓	
15	SECA1: APICULTURE	✓			✓	✓			✓	✓	
16	SECB1: AQUARIUM FISHERIES	✓			✓	✓			✓	✓	
17	DSEB1: ENDOCRINOLOGY	✓	✓				✓			✓	
18	DSEA2: ANIMAL BIOTECHNOLOGY	✓	✓	✓		✓	✓	✓	✓	✓	
19	DSEB2: ANIMAL BEHAVIOUR	✓	✓	✓	✓					✓	✓
20	DSE A2- BIOLOGY OF INSECTS	✓	✓		✓	✓	✓			✓	✓

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

DEPARTMENT OF POLITICAL SCIENCE (offered as GE courses)

Subject Specific Outcome:

Political Science deals with understanding one of the most powerful forces operating on people and communities, namely government and politics around the world. The subject provides valuable insights around concepts which are valuable for every citizen.

Political Science as a subject focuses on critically assessing policies and events around us including the foundations of political theories. It also emphasizes on the interplay between citizens and their governments, working of different political institutions and the complex social structures working in a multi-cultural world.

Course Code	Course name	Course Outcome
CC1/GE1	Introduction to Political Theory	This paper emphasizes on the philosophical and methodological foundations of Political Theory, namely the different concepts and ideas in Political Science.
CC2/GE2	Comparative Government & Politics	This paper focuses on the study of different world political systems using approaches and techniques of comparison to arrive at generalizations.
CC3/GE3	Government and Politics in India	The course on Indian government and politics aims to provide an outline of the Indian Constitution- its text and context, the structure and functioning of union/state level governmental/extra governmental institutions in the light of constitutional provisions and to develop insights about the style and content of Indian politics and the trends and issues affecting it.
CC4/GE4	International Relations	The course on International Relations aims to help students cultivate their own theoretical/analytical framework to understand and explain international affairs, develop a deeper appreciation of global issues and challenges.
DSE-A-5-1B	Indian Foreign Policy	This paper is designed as a comprehensive review of some of the key issues related to India's world view and its behaviour towards the external world. It also includes India's relations with its neighbours and great powers, its nuclear weapons policy and the ideological foundations of its foreign policy after independence.
DSE-B-6-2B	Human Rights: Theory and Indian Context	This course provides an introduction to basic human rights philosophy, principles, instruments and

		institutions and also an overview of current issues and debates in this field.
SEC-3-A	Legal Literacy	Legal literacy provides the knowledge of law that can be used as a tool by vulnerable groups to understand and evaluate the law and get acquainted with the scope of their rights under the law and get them enforced with the help of legal machinery.
SEC-6-B	Basic Research Methods	Basic Research Methods exposes researchers to varying dimensions within a field of study.

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

DEPARTMENT OF BENGALI (offered as GE courses)

Subject Specific Outcome

কলকাতা বিশ্ববিদ্যালয় অনুমোদিত সি বি সি এস সিস্টেম এর অন্তর্ভুক্ত ছয় সেমিস্টার এর বাংলা সাধারণ এই কোর্সটি পড়ে ছাত্র-ছাত্রীরা ১৮০০ খ্রীস্টাব্দ থেকে শুরু হওয়া আধুনিক বাঙলা সাহিত্যের ইতিহাসের বিভিন্ন ধারার বিবর্তনের গতিরেখার বিষয়ে ধারণা লাভের পাশাপাশি বাংলা ভাষার উদ্ভব ও বিকাশ সম্পর্কে জ্ঞানলাভ করে এবং সে সময়কার রচনা বৈশিষ্ট্য, ভাষা ও ব্যাকরণের ব্যবহার, শিক্ষা-সংস্কার, বিজ্ঞান, সামাজিক আচার-আচারন ও রীতি-নীতি, সমাজসংগঠনের ভাবনা, ইতিহাস বিষয়েও জ্ঞানলাভ করে। কাব্য নির্মাণের অন্যতম উপাদান হিসেবে ছন্দ ও অলংকার এর সংক্ষিপ্ত পাঠ ও গ্রহন করে। এরই সঙ্গে পড়ুয়া বাংলা কাব্যের বিবর্তনের ধারা, অর্থাৎ-প্রাগাধুনিক কবিতা, আধুনিক কবিতা, আদি-মধ্য যুগের বাংলা কাব্য, রবীন্দ্রনাথ ঠাকুরের নাটক, বাংলা কথাসাহিত্য ও প্রবন্ধসাহিত্য সম্পর্কে ধারণা লাভ করে। এছাড়াও দেশভাগ জনিত বাঙালির বিপন্নতা ও অসহায়ত্বের সাক্ষ্যবাহী কিছু সাহিত্যগ্রন্থ (কাব্য-উপন্যাস-ছোটগল্প), বাঙালির লোকসংস্কৃতি ও লোকসাহিত্য, বাংলার সমাজ ও সংস্কৃতির ইতিহাস, বাংলা ভাষার উদ্ভব থেকে আধুনিক কাল পর্যন্ত বাঙালি জাতির সংস্কৃতির বিকাশের গতিরেখা এবং বাংলা গোয়েন্দাসাহিত্য, কল্পবিজ্ঞান আশ্রয়ী রচনা ও অলৌকিক সাহিত্য, মুদ্রণ ও প্রকাশনা বিষয়ক জ্ঞান অর্জনের পাশাপাশি ওই সংশ্লিষ্ট কিছু সফটওয়্যার সম্পর্কেও ধারণালাভ করে। শিক্ষার্থী পরবর্তী জীবনে নাটক-সিনেমা-সিরিয়াল-আবৃত্তি শিল্পকে পেশা হিসেবে গ্রহণের উপযোগী কিছু প্রাথমিক জ্ঞানের পাঠ ও এই কোর্স থেকে লাভ করে। বিভিন্ন সাহিত্য রূপের গঠনকৌশল এর ধারণাও হাতে কলমে লাভ করে সৃজনশীল রচনার মধ্য দিয়ে। বাংলা বানানের নিয়ম বিধি, আন্তর্জাতিক ধ্বনিমূলক বর্ণমালা এবং রোমীয় লিপি সম্পর্কে ব্যবহারিক জ্ঞান ও প্রাপ্ত হয়। ব্যবহারিক বাংলা ও সাহিত্য গবেষণার পদ্ধতিবিজ্ঞান জীবনের নানা ব্যবহারিক প্রয়োজনকে নিয়মমাফিক ও সুষ্ঠুভাবে সম্পন্ন করতে সাহায্য করে।

স্নাতক সাধারণ কোর্সের পড়ুয়া অতিরিক্ত এবং ঐচ্ছিক পাঠক্রম হিসেবে (এল সি সি -২) এর দুটি পত্রের থেকে বাংলা ভাষাবিজ্ঞান, সাহিত্যের রূপভেদ, ও কাব্য এবং আধুনিক বাঙালির চিন্তা চেতনার বাহক হিসেবে বাংলা সাময়িক পত্রের ভূমিকা ও কথা সাহিত্যের রসাস্বাদন করতে পারে।

Course Outcome:

Course name	Course Outcome
সেমিস্টার-১	১) আধুনিক বাংলা প্রবন্ধ, রবীন্দ্রনাথ ঠাকুরের ছোটগল্প ও নৈবেদ্য কাব্যগ্রন্থ এবং পরিভাষা।
সি সি / জি ই-১	বাংলা সাহিত্যের ইতিহাসের আধুনিক যুগ- ১) গদ্য ও প্রবন্ধসাহিত্য। ২) কাব্য-কবিতা ও নাটক। ৩) উপন্যাস ও ছোটগল্প।
সেমিস্টার-২	১) বাংলা ঐতিহাসিক ভাষাবিজ্ঞান-প্রাচীন ভারতীয় আর্যভাষা থেকে আধুনিক ভারতীয় আর্যভাষা হিসেবে বাংলা ভাষার উদ্ভবের গতিরেখা। ২) আদি-মধ্য যুগের বাংলা ভাষার ভাষাতাত্ত্বিক লক্ষণ (প্রেক্ষিত-শ্রীকৃষ্ণকীর্তন)। ৩) ছন্দ। ৪) অলংকার।

সেমিস্টার- ৩	সি সি/ জি ই- ৩	বাংলা কাব্য- কবিতা ও নাটক- ১) প্রাগাধুনিক বাংলা কবিতা-বৈষ্ণব পদাবলী। ২) আধুনিক বাংলা কবিতা- রবীন্দ্রনাথ ঠাকুরের পুনশ্চ গদ্যকবিতা ও একালের কবিতা সঞ্চয়ন। ৩) রবীন্দ্রনাথ ঠাকুরের নাটক - রাজা ও রাণী।
	এস ই সি সি- ৩/৫ এ-১	মুদ্রণ ও প্রকাশনা ১) পান্ডুলিপি, বাংলা যুক্তাক্ষরের ধারণা, সংগ্রহ সম্পাদনা ও সংকলন বিষয়ক ধারণা, কভার, টাইটেল পেজ, গ্রন্থ/ পত্রিকার পঞ্জিকরণ সংক্রান্ত ধারণা। ২) এম এস ওয়ার্ড, পেজ মেকার, কোরেল ড্র, ইনডিজাইন। ৩) প্রফ সংশোধন/ অশুদ্ধি সংশোধন, ছাপার প্রযুক্তি, স্টিচিং, বাইন্ডিং, মার্কেটিং সংক্রান্ত ধারণা।
সেমিস্টার- ৪	সি সি/ জি ই- ৪	বাংলা কথাসাহিত্য ও প্রবন্ধ ১) শরৎচন্দ্র চট্টোপাধ্যায়ের পল্লীসমাজ উপন্যাস। ২) কলকাতা বিশ্ববিদ্যালয় নির্বাচিত কিছু আধুনিক ছোটগল্প। ৩) রবীন্দ্রনাথ ঠাকুরের সংকলন নামক প্রবন্ধগ্রন্থের অন্তর্ভুক্ত চারটি প্রবন্ধ।
	এস ই সি - ৪/৬-বি-১	ব্যবহারিক বাংলা ও সাহিত্য গবেষণার পদ্ধতিবিজ্ঞান ১) সংবাদপত্র অথবা ব্যক্তিগত প্রচারের লক্ষ্যে প্রতিবেদন রচনা, বিভিন্ন প্রকার সহ চিঠিপত্র রচনা, কাল্পনিকসাক্ষাৎকার রচনা। ২) ছাপারমাধ্যম ও বৈদ্যুতিন মাধ্যমের জন্য বিজ্ঞাপন রচনা, অনুবাদেরভাষা ও শৈলী, ইংরেজি থেকে বাংলা অনুবাদ। ৩) গবেষণাররীতি ও নির্মাণ পদ্ধতি, গবেষণার আদর্শ বিন্যাসক্রম, তথ্যসংগ্রহ, উদ্ধৃতিপ্রয়োগ, কপিরাইট আইন, পাদটীকা/ প্রাস্তটীকা, সূত্রনির্দেশ, গ্রন্থপঞ্জি ও নির্ঘণ্ট প্রণয়ন বিধি।
	এল সি সি (২)-৪-১	বাংলা ভাষাবিজ্ঞান, সাহিত্যের রূপভেদ ও কাব্য ১) বাংলাভাষার শব্দ ভান্ডার, বাংলাশব্দার্থ পরিবর্তনের ধারা, বাংলা ভাষার ধ্বনি পরিবর্তনের রীতি ও প্রকৃতি। ২) মহাকাব্য, গীতিকাব্য, ট্রাজেডি, কমেডি নাটক, পৌরাণিক- ঐতিহাসিক- সামাজিক নাটক, রোমান্স ও উপন্যাস, সামাজিক- ঐতিহাসিক উপন্যাস, ছোটগল্পের হাতে উপন্যাসের তুলনা, প্রবন্ধ ও সমালোচনা সাহিত্য। ৩) মাইকেল মধুসূদন দত্তের মেঘনাদবধ কাব্য (প্রথম সর্গ)
সেমিস্টার -৫	ডি.এস ই	ক) এ-১- বাংলার সমাজ ও সংস্কৃতির ইতিহাস ১) বাংলা ও বাঙালি জাতির ভৌগোলিক ও নৃতাত্ত্বিক পরিচয়, বাংলার সমাজ কাঠামো ও অর্থনৈতিক ভিত্তি, বাংলার রাজনৈতিক ইতিহাস, বাংলার ধর্ম, চৈতন্যসংস্কৃতি, বাঙালির সংস্কৃতির স্বরূপ। ২) ঔপনিবেশিক আধুনিকতার অভিঘাত-- শিক্ষায়- ধর্ম সংস্কারে ও মুক্ত চিন্তায়, কৃষক আন্দোলন, নীলবিদ্রোহ, ফকির আন্দোলন, ধর্ম- সমাজ ও শিক্ষা সংস্কারের উদ্দেশ্যে গঠিত সভা ও সমিতি (১৯ শতক)। ৩) বঙ্গভঙ্গ ও বয়কট- স্বদেশী আন্দোলন, প্রান্তবর্গ/ দলিত জনগোষ্ঠীর জাগরণ, বাঙালি জাতিসত্তার সন্ধান, খাদ্য ও নকশার আন্দোলন। খ) এ-২- বাংলা গোয়েন্দা সাহিত্য, কল্পবিজ্ঞান আশ্রয়ী রচনা এবং অলৌকিক কাহিনী। ১) শরদিন্দু বন্দ্যোপাধ্যায়ের সজারুর কাঁটা

		<p>২) শঙ্কুসমগ্র -(ব্যোমযাত্রীর ডায়েরী, প্রফেসর শঙ্কু ও ম্যাকাও, প্রফেসর শঙ্কু ও গোলোক রহস্য, প্রফেসর শঙ্কু ও রোবু হিপনোজেন, মহাকাশেরদূত, শঙ্কু ও আদিম মানব, শঙ্কু ও ফ্রাঙ্কেনস্টাইন।</p> <p>৩) লীলা মজুমদারের সব ভুতুড়ে।</p>
	এস ই সি সি ৩/৫-এ-২	<p>ব্যবহারিক বাংলা-১</p> <p>১) গল্পসূত্র থেকে কাহিনী নির্মাণ, গল্প, উপন্যাস থেকে নাট্য রূপ/ চিত্রনাট্য নির্মাণ।</p> <p>২) বাংলা ভাষা ও শব্দের সঠিক উচ্চারণ, ছন্দ সম্পর্কিত জ্ঞান, আবৃত্তি চর্চা।</p> <p>৩) সাহিত্য ও চলচ্চিত্রের পারস্পরিক সম্পর্ক, বাংলা সাহিত্যের চলচিত্রায়ণ, কয়েকটি গল্প উপন্যাসের বিশেষ পাঠ-ক্ষুধিতপাষণ, বাড়ি থেকে পালিয়ে, পথের পাঁচালী।</p>
সেমিস্টার -৬	ডি এস ই	<p>ক)বি-১ দেশভাগ ও বাংলা সাহিত্য।</p> <p>১) উপন্যাস-অতীন বন্দ্যোপাধ্যায়ের - নীলকণ্ঠ পাখির খাঁজে।</p> <p>২) ছোটগল্প- জ্যোতির্ময়ী দেবীর -এপার গঙ্গা ওপার গঙ্গা, সতীনাথ ভাদুড়ী র- গণনায়ক, মানিক বন্দ্যোপাধ্যায় এর- ছেলেমানুষী, নরেন্দ্রনাথ মিত্রের- পালঙ্ক, সলিল চৌধুরীর- ড্রেসিং টেবিল, রমাপদ চৌধুরীর - করুণকন্যা, প্রফুল্ল রায়ের - রাজা আসে রাজা রায়,, দীপেন্দ্রনাথ বন্দ্যোপাধ্যায়ের - জটায়া।</p> <p>৩) কবিতা- অচিন্ত্যকুমার সেনগুপ্তর- পূব ও পশ্চিম, অনন্যদাশঙ্কর রায়ের- খুকু ও খোকা, দীনেশ দাসের- ১৫ই আগস্ট ১৯৪৭, বিষ্ণু দেব - জল দাও, সুভাষ মুখোপাধ্যায় এর- পারাপার, মঞ্জলাচরণ চট্টোপাধ্যায়ের- বাংলা,হায় বাংলা, নীরেন্দ্রনাথ চক্রবর্তীর- তোমাকে বলেছিলাম, শঙ্খ ঘোষ এর- দেশহীন, সুনীল গঙ্গোপাধ্যায়ের- ধাত্রী, সমরেন্দ্র সেনগুপ্তর- ভাষাদেশ।</p> <p>খ)বি-২ লোকসংস্কৃতি ও লোকসাহিত্য।</p> <p>১) লোকসংস্কৃতি ও লোকসাহিত্যের সাধারণ পরিচয়, টাইপ মোটিফ ইনডেক্স(বৈশিষ্ট্য ও প্রয়োগ শিক্ষার প্রাথমিক পাঠ।বাংলার ব্রত ও পার্বণ- পুণ্যপুকুর, মাঘমন্ডল, সৈঁজুতি।</p> <p>২) লোকছড়া এবং ধাঁধা, লোকনৃত্য (ছৌ, রায়বেঁশে, গস্তীরা)।</p>
	এস ই সি সি - ৪/৬-বি-২	<p>ব্যবহারিক বাংলা-২</p> <p>১) সৃজনশীলরচনা (গল্পরচনা, প্রবন্ধরচনা)।</p> <p>২) বাংলাবানানের বিবর্তনের সাধারণ ধারণা (পশ্চিমবঙ্গ বাংলা আকাদেমির বানান বিধি)।</p> <p>৩) আন্তর্জাতিক ধ্বনিমূলক বর্ণমালা (IPA) ও রোমীয় লিপি।</p>
	এল সি সি (২)-২-৬	<p>সাময়িক পত্র ও কথাসাহিত্য</p> <p>১) বাংলাসাময়িক পত্রের ইতিহাস- দিগ্দর্শন থেকে কবিতা পত্রিকা পর্যন্ত।</p> <p>২) বঙ্কিমচন্দ্র চট্টোপাধ্যায়ের রজনী উপন্যাস।</p> <p>৩) একালেরছোটগল্প সঞ্চয়ন- বনফুলের ছোটলোক, জ্যোতিরিন্দ্র নন্দীর চোর, নারায়ণ গঙ্গোপাধ্যায়ের রেকর্ড, সাবিত্রী রায়ের অন্তঃসলিলা, সমরেশ বসুর আদাব, সাদাত হোসেন মন্টার টোবাটেক সিং।</p>

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

DEPARTMENT OF HISTORY (offered as GE courses)

Subject Specific Outcome:

The subject helps to understand background of our religion, customs institutions, administration and so on. Analyse relationship between the past and the present is lively presented in the history. Develop practical skills which helpful in the study and understanding of historical events. They are Draw historical maps, charts, diagrams etc. Understand the present existing social, political, religious and economic conditions of the people. Develop interests in the study of history and activities relating to history. They are to collect ancient arts, old coins and other historical materials; Visit places of historical interests, archaeological sites, museums and archives; Read historical documents, Write articles on historical topics etc. The study of history helps to impart moral education. History installs the feeling of patriotism in the hearts of the pupils.

Course Name	Course Outcomes
CC -1/GE-1: History of India from Earliest Times up to 300 CE	Classify and understand the concepts like Pre-history, Proto-history and History. To know various sources of history. Understand the concept of first urbanization, basic features of Indus Valley Civilization. Describe the Vedic Age- the political, social, economic and religious changes from Rig Vedic to later Vedic age. To get acquainted with Ashoka's Policy of Dhamma and its application in everyone's daily life.
CC-2/GE- 2: History of India from. C.300 to1206	To know the political history of various dynasties in Post-Mauryan period- Sunga, Satavahana, Indo Greeks, Parthians, Kusana, Saka. Understand the cultural development in Post-Mauryan period upto Guptas Critically evaluate the concept of 'Golden Age'. To understand the causes, course of events and impact of various foreign invasions on India like Arab invasion, invasion of Mahammad of Ghazni, Mohammad Ghori. To understand the concept of feudalism and theories related to the origin of Rajput.
CC-3/GE-3: History of India from 1206 to1707	After the completion of the course, students will be able to understand the advent of Islam and Turkish invasion and the struggling phase of an era of transformation in medieval India Know about Turks and Mongols. Understand role of the Delhi Sultanate in the field of development of new political system and policies in India Know about the Kingship Theory of Delhi Sultanate. After the completion of the course, students will be able to understand the advent of Mughals and Babur's invasion. Assess the consolidation of Mughal Empire in India. Analysis of Akbar as a great ruler of Medieval India.

<p>CC-4/GE-4: History of India; 1707-1950</p>	<p>In the understanding of India under the Crown after the revolt of 1857, the course teaches about the Constitutional Development of India from 1858- 1909. In continuation of the History of India under the Crown, the students will get a complete picture up to Independence through- Pre-Gandhian political and revolutionary activities in the first half of 20th century, towards partition and independence various political and administrative phases.</p>
<p>DSE- A -2: Some Aspects of European History: C.1780-1945</p>	<p>After the completion of this course, students will have the in-depth knowledge about: The three French Revolutions- 1789, 1830 and 1848A.D. To develop the various ideologies and domestic affairs of few European nations.</p>
<p>DSE-B-2: Some aspects of Society & Economy of Modern Europe: 15th – 18th Century</p>	<p>Acquisition of knowledge about the historical significance of the dawn of Modern Age. Knowledge gained about the Christian Reformation and Counter Reformation. Students will be able to understand the emergence of the age of Renaissance and Benevolent Despotism in Europe.</p>
<p>SEC-A- 1: Historical Tourism: Theory &Practice</p>	<p>Enable the students to know about the important tourist centres and popular pilgrim tourist centres in India. Students will be able to understand the Cultural attractions of India and main adventure centres of tourist interest in India. The course will help students to know the complex character of heritage.</p>
<p>SEC-B -1: Museums &Archives in India</p>	<p>To study further in the applied field of history as Museology. The course will enable students to know these two repositories of history. They would know how the heritage is preserved and kept alive here and the difficulties faced in the process. The learner would get to know the actual working of these places of cultural importance.</p>

TARA DEVI HARA KH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

DEPARTMENT OF FILM STUDIES (offered as GE courses)

Subject Specific Outcome:

The students who study film studies as their general papers gain knowledge on cinema from all over the world-their process of making on both pre- and post-production. They gain immense knowledge on the history of cinema from different parts and contribution of some famous directors.

Course Name	Course Outcome
CC I / GE I Film Language & Cinema's Journey from Primitive to Narrative	Students get to know on Indian cinema and world cinema and are introduced to methods employed by film makers to communicate of how to make a film and various concept to film release like Pre-Production, Production, and Post-Production. They gain knowledge on cinematography (shot, angle, movements), editing (transition, time & space), sound (sync sound & non-sync Sound) etc. They also learn on how to do film analysis- the process of shot, mise-en-scene etc.
CC II / GE II History: World Cinema	POST WORLD WAR-I Students are introduced to the world cinema with focus on Post World War I & II Film Movements with German Expressionism, contribution of expressionism, contribution and the theories of Lev Kuleshov, Vsevolod Pudovkin and Eisenstein. The next emphasis is on surrealism through the film Un-Chien Andalou by Luis Bunuel. Last and the most important parts are Silent Comedy and the contribution of Charlie Chaplin. POST WORLD WAR II In this section students are introduced with Italian Neo-Realism, work of Roberto Rossellini and Vittorio De- Sica. The next emphasis is on French New Wave Cinema – a detailed study of New Wave filmmakers like Truffaut and Godard. In the last section students are introduced with Japanese Cinema and works of eminent film directors like Ozu, Akira Kurosawa and Kenji Mizoguchi.

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

DEPARTMENT OF ECONOMICS [offered as GE subject for students opting for B.Sc. Honors in Geography]

Subject Specific Outcome

B. Sc. Economics (General) programme under (CBCS) has been designed to provide structure curricula which support academic development of undergraduate students. Under CBCS, the students are studying the following two papers as Generic Elective (GE) Paper. The two following papers have been framed in order to provide basic knowledge, academic enrichment to the students both on Microeconomics & Macroeconomics. These two are considered to be the two main pillars in economics. Therefore, the entire understandings and skill acquired from these papers would help the students to enrich, enhancing knowledge on microeconomics & macroeconomics. The programme has been consisting of several papers which are mentioned below:

Course Outcomes

Course Code	Course Name	Course Outcome
GE-I	Introductory Microeconomics	This Paper is designed to provide a comprehensive coverage & knowledge on Microeconomics. This section has incorporated the theories including the equilibrium analysis of several economic agents (<i>i.e., consumer, producer, firm etc</i>) of the economy. These basic theories in microeconomics can be used to deal with several practical issues. Apart from that this paper has also incorporated several market structures and their equilibrium analysis in economics.
GE-II	Introductory Macroeconomics	This portion has been framed to deliver basic knowledge on macroeconomics with emphasizing on solving some practical problems on macroeconomics. Several theoretical chapters under macroeconomics have been included in the course curricula with an objective to analyse macro issues along with policy formulation. These understandings would help the students to inculcate their knowledge on macroeconomics.

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

Department of Human Development (offered as GE subject for students opting for B.Sc. Honors in Food and Nutrition)

Course Outcome

Course code	Course Outcome
GE 1A	<p>Introduction to Human Development:</p> <ul style="list-style-type: none"> • To introduce the students to the field of human development- Concept, scope, need of study • Understanding the dimensions and the interrelationship between the domains of human development. • Awareness of the processes and principals underlying human growth and development. • To sensitize students into an interplay between biology and behaviour. • To gain an understanding of the life span approach to human development • To acquaint the students with the process of Conception • Gaining knowledge about the physical and psychological care of the expectant mother • Understanding nuances of prenatal development • Studying the characteristics of the neonate and the care of the neonate. • Highlights of development during infancy
GE 3A	<p>Psychological bases of Human Development:</p> <ul style="list-style-type: none"> • Developing an understanding about Intelligence – Definition of intelligence, nature of intelligence • Knowledge about the origins of intelligence testing and different types of intelligence tests. • Acquainting the students with definition of emotion, adaptive functions of emotion, • Developing an understanding of basic emotions of fear, anger and love • Knowledge about universal aspects of emotions. • Gaining knowledge about definition and various influencing factors of personality. • Gaining a clear knowledge about the role of social norms in personality development. • Detailed understanding of different tests of personality. • Understanding the process of Socialization- Definition and various agencies of socialization. • Understanding gender differences in socialization.

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

Department of Chemistry (offered as GE courses)

Subject Specific Outcome

Students graduated with Chemistry General will have a firm foundation in the fundamentals and application of theories of Inorganic, Organic and Physical Chemistry. They will be able to apply these principles to problems in a wholesome manner. Students will be well equipped with the expertise and knowledge of a good number of basic chemistry experiments pertaining to all the three branches of the subject to enable themselves to work in industry. The entire course is so designed as to explain, integrate and apply relevant knowledge to simple problems that emerge from the broader interdisciplinary subfields (i.e., life sciences, environmental and materials sciences).

Course Outcomes

Course code	Course Outcome
GE-1	Students will learn the basic concepts of Kinetic Theory of Gases and Real gases, Liquids, Chemical Kinetics, Atomic Structure, Chemical Periodicity and Acids and bases. The students will also gain understanding about the Fundamentals of Organic Chemistry i.e. Stereochemistry, Nucleophilic Substitution and Elimination Reactions. The Practical syllabus of this paper includes different types of estimation using the knowledge of acid-base titration, permanganometry, dichromatometry and iodometry.
GE-2	Students will get basic knowledge from the chapters of physical chemistry e.g., chemical thermodynamics, chemical equilibrium, solutions, phase equilibria & solids. Syllabus will also provide some important chemistry of aliphatic hydrocarbons, redox reactions, some basic concept of error analysis & computer applications. The Practical syllabus of this paper set the experiments regarding the study of kinetics, viscosity, surface tension, solubility of sparingly soluble salt and pH of buffer solutions.
GE-3	In this course students will learn mainly inorganic chemistry consisting of chemical bonding, comparative study of p block elements, transition elements (3d series) and coordination chemistry. In addition, this course provides few chapters of physical chemistry and organic chemistry. Students will learn the qualitative semimicro analysis of mixtures containing two radicals in this course.

GE-4	<p>Students will learn organic chapters as a major part of the syllabus comprising alcohol, phenol, ethers, carbonyl compounds, carboxylic acids, amines, amino acids and carbohydrates. In addition, one chapter from inorganic chemistry like crystal field theory and another chapter from physical chemistry e.g., quantum chemistry & spectroscopy are included in this course.</p> <p>In GE-4 practical students will learn the qualitative analysis of single organic compounds and identification of a pure solid/liquid organic compound.</p>
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TARA DEVI HARA KH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

Department of Physics (offered as GE courses)

Subject Specific Outcome

The students studying Physics as a General course at their UG level, acquire a scientific knowledge of the fundamental principles of Physics and will learn use of appropriate level of technology for experimental design and implementation, analysis of experimental data, and numerical and mathematical methods in problem solving.

Course Outcomes

Course Code	Course Name	Course Outcome
GE-I	Mechanics	This course is designed to provide a complete knowledge on Mechanics, which includes Newtonian mechanics, rotational motion, oscillations, gravitation, elasticity and surface tension. The students develop knowledge on mathematical tools required to study theoretical and experimental physics and learn the basic tools like vectors, matrices, how to solve the differential equations etc.
GE-2	Electricity and Magnetism	This course helps student to gain information and understanding of the phenomena of electricity and magnetism which is enormously important for various engineering applications. They learn about fundamental properties of charged particles and electric fields, ferro-magnetism, magnetostatics, magnetic vector potential, electrostatics, electromagnetic induction and electrodynamics.

TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE
Mapping/Co-relation Program Outcome (PO) & Course Outcome (CO)

Department of Mathematics (offered as GE courses)

Subject Specific Outcome

Students pursuing mathematics as general subjects will be able to understand the foundations of mathematics and will be able to perform basic computations in higher mathematics. Students will also be able to write and understand basic proofs of Mathematics and communicate mathematical ideas with others.

Course Outcomes

Semester	Course Code	Course Outcomes
SEM-III	MTM-G-GE-3-3-TH and MTM-G-GE-3-3-TU (Integral Calculus)	Upon successful completion of this course, students will be able to do Limit of a sum, reduction formula. They learn different properties of Beta and Gamma functions and application of integration.
	MTM-G-GE-3-3-TH and MTM-G-GE-3-3-TU (Numerical Methods)	Students will be able to know basic concepts of operators Δ , E , ∇ . Solve different interpolation problems using Newton forward formula and Newton backward formula. Solved definite integral using Simpson's 1/3, trapezoidal rule. They also solved numerical equation by Bisection method, Newton – Raphson method.
	MTM-G-GE-3-3-TH and MTM-G-GE-3-3-TU (Linear Programming)	Students will have the knowledge and skills to formulate a given simplified description of a suitable real-world problem as a linear programming model in general, standard and canonical forms. Solve a two-dimensional linear programming problem graphically. Use the simplex method to solve small linear programming problem by hand, Reduction of basic feasible solution from feasible solution. The transportation model can be defined as the determination of only one commodity that is being transported from one destination to various locations.
	MTM-G-GE-4-4-TH and MTM-G-GE-4-4-TU (Algebra-II)	This course will enable the students to learn Group, its properties and examples, Subgroup, its properties and examples. Learn the definition of Ring, Subring, Field and their properties and theorems in the Ring Theory and in Linear Algebra, the fundamentals of vector Space, Eigen Values, Eigen Vectors.

Sem IV	MTM-G-GE-4-4-TH and MTM-G-GE-4-4-TU (Computer Science & Programming)	Learn to write the computer programming of the numerical methods, decision making problem in Fortran, fundamentals of Computer Science and Boolean Algebra.
	MTM-G-GE-4-4-TH and MTM-G-GE-4-4-TU (Probability & Statistics)	Students determine whether two events are mutually exclusive and whether two events are independent. They understand continuous probability density functions and probability mass function in general, recognize the standard normal probability distribution and apply it appropriately. They learn hypothesis testing in general and in practice. They also learn linear regression and correlation.