

Department of Bengali, City College

2.4.1. Programme Outcomes (PO) and Course Outcomes (CO)

বাংলা সাহিত্যিক বিদ্যালয় পাঠ্য বিষয় তালিকা —

SEM-1 → CO1 → বাংলা অধিভুক্ত ইতিহাস (২৫০০ খ্রী: পর্বত)।

CO2 → স্তব-মূলক প্রমাণিতকৃত ও বাংলা অঙ্গ।

SEM-2 → CO3 → বাংলা অধিভুক্ত ইতিহাস (ঐতিহ্য-অন্তঃ)।

CO4 → বাংলা অধিভুক্ত (সংস্কৃত, অঙ্গাঙ্গীভুক্ত, স্তব-প্রবন্ধ প্রবন্ধ)।

SEM-3 → CO5 → সংস্কৃত-সংস্কৃত-স্তব, অঙ্গাঙ্গীভুক্ত, প্রবন্ধ-ও অঙ্গাঙ্গীভুক্ত পত্র।

CO6 → ঐতিহাসিক প্রমাণিতকৃত।

CO7 → অঙ্গাঙ্গীভুক্ত।

SEM-4 → CO8 → প্রাথমিক অধিভুক্ত।

CO9 → পদ, উল্লেখ্য ও সংস্কৃত।

CO10 → প্রবন্ধ ও বিদিশ সূচনা।

SEM 5 → CO11 → অধিভুক্ত কৃষ্ণ ও রীতি।

CO12 → স্তব-ও স্তবসংস্কৃত।

DSEA-51 → বাংলায় উল্লেখ্য অঙ্গাঙ্গীভুক্ত ইতিহাস।

DSE B-51 → বাংলা অধিভুক্ত অঙ্গাঙ্গীভুক্ত-অধিভুক্ত।

SEM 6 → CO13 → অধিভুক্ত বাংলা সংস্কৃত-সংস্কৃত।

CO14 → অঙ্গাঙ্গীভুক্ত, সংস্কৃত ও অধিভুক্ত অধিভুক্ত ইতিহাস।

DSE A6-3 → বাংলা-সংস্কৃত-অধিভুক্ত, অঙ্গাঙ্গীভুক্ত অঙ্গাঙ্গীভুক্ত, উল্লেখ্য সংস্কৃত

DSE B6-4 → সংস্কৃত-অধিভুক্ত ও অঙ্গাঙ্গীভুক্ত।



Principal
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Department of Botany

NAAC 21-22



Criterion 2.6.1 : Programme outcomes and Course outcomes

OUTCOME OF PROGRAMME

- To acquire the knowledge about plant groups from lower to higher.
- To establish awareness about conservation sustainable importance of plants and nature.
- To guide students for taking up a successful career in Botany.
- To apply in different industries.
- To equip the students with skills related to laboratory and field based studies.
- To provide knowledge on research purpose.

OUTCOME OF COURSE

Semester I

CC1: Phycology and Microbiology

- Understand the structure of algal cell and life cycle pattern.
- Describe the classification pattern.
- Learn about diversity of algae.
- Study the general concept on bacteria and virus.

CC2: Mycology and Plant Pathology

- Study the general account on fungi
- Classify the fungi (G.N.Ainsworth,1973)
- Study the life history of some sp of fungi.
- Study the salient feature and types of lichen and Mycorrhiza.
- To get acquaintance with different terms and definitions of plant pathology.
- Describe the some disease cycle and disease management and to identify some plant diseases.

SEMESTER II

CC 3: Plant anatomy

- Describe the ultrastructure and chemical constituents of plant cells.
- Study the secondary growth with anomalous growth of some species of plants.

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CC4: Archaegoniate

- Study the general account on Bryophyte.
- Describe the evolutionary transition of Bryophyte.

SEMESTER III

CC5: Paleobotany and Palynology

- Study the geological time scale with dominant plant groups through ages.
- Describe the types of plant fossil with description of fossil pteridophyte and Gymnoperm.
- Study the structure of pollen with basic concept of different applied in palynology.

CC:6 Reproductive biology and Angiosperm

- Study and identify the different morphological part of plant
- Study the fertilization and process, post fertilization process of plant.

CC:7 Plant systematics

- Study the nomenclature, Identification, classification of plant.
- Study the different family description for Identification purpose.

Semester IV

CC:8 Plant geography, Ecology and Evolution

- Understand the plant communities and ecological adaptations in plants.
- Learn about conservation of biodiversity, Non-conventional Energy and Pollution.
- Discover botanical regions of India.
- Study the theories of evolution.
- Study the simplified phylogeny of bacteria, algae, fungi, bryophyte, pteriophyte and gymnosperm with phylogenetic tree.

CC:9 Economic Botany

- Describe the origin of cultivated crop.
- Describe of cultivation process of some economically important plane.

CC:10 Genetics

- Describe the Medenlian genetics and its extension.
- Study the gene mapping with three point test cross.
- Study chromosomal aberration, mutation.

Semester V

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CC:11 Cell and Molecular Biology

- Describe the origin and evolution of cells.
- Study the structure of nucleus and chromatin ultrastructure.
- Study the DNA replication, transcription and translation with gene regulation.

CC:12 Biochemistry

- Understand the different types of chemical bond.
- Understand the structure of nucleic acid protein, Carbohydrate, lipid and fatty acids.
- Study the description ultra structure of cell membrane.

SEMESTER VI

CC13 Plant Physiology

- Study the plant –water relations.
- Study the role of plant growth regulators.
- Study the photomorphogenesis and seed dormancy and Senescence and aging.

CC14 Plant Metabolism

- Understand the physiological details of photosynthesis and respiration .
- Understand the lipid metabolism and Nitrogen metabolism.

DSE-A Medicinal Botany and Ethnobotany

- Study the importance and history of medicinal botany
- Describe the general concept on pharmacognosy.
- Study the secondary metabolites with their active constituents.
- Study the ethnobotany and folk medicine.

DSE-B Natural resource management

- Study the Natural resources

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Programme Specific Outcome (PSO) & Course Outcome (CO)

Name of the Programme: B.Sc. CHEMISTRY Honours (Under CBCS)

Year of Introduction: Session 2018-19

Programme Specific Outcome (PSO):

- **PSO 1.** Students will be entirely equipped with the knowledge of all the branches of Chemistry such as physical, inorganic, organic & analytical chemistry.
- **PSO 2.** Students will acquire the ability to analyse and explain chemical phenomena with the basic principles and fundamentals and to write it concisely.
- **PSO 3.** Students will learn to analyse inorganic and organic samples qualitatively and in some cases quantitatively.
- **PSO 4.** Students will gain expertise to set up an experiment (estimation or synthesis of a compound) and work up.
- **PSO 5.** Students will be enriched with the knowledge and training to operate many physico-chemical instruments and to carry out experiments there in.
- **PSO 6.** Students will be able to interpret IR and NMR spectra of organic compounds.
- **PSO 7.** Students will attain the ability to work individually or in a group following a systematic plan.
- **PSO 8.** Introduction of Computer under CBCS at the UG level will upgrade the Quality of Education of the students.
- **PSO 9.** Students will achieve the confidence to prepare and defend a scientific presentation in their individual capacity.

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Course Outcome (CO):

A. CORE COURSE

Semester-1

CEMA-CC-1-1 – INORGANIC CHEMISTRY-1 ORGANIC CHEMISTRY -1A

- **CO 1.** Students will be acquainted with the basic concepts of atomic structure, its different models including quantum mechanical concepts, acid- base & redox reactions in Inorganic Chemistry, concept of pH and Buffer; as well as the fundamentals of Organic Chemistry like bonding, physical properties & reaction mechanisms.
- **CO 2.** Inorganic practical will illustrate redox reactions and acid-base reactions to the students. Also the experiments on separation of binary mixture based upon solubility will enable the students to identify the nature and classification (acidic, basic or neutral) of organic compounds.

CEMA-CC-1-2 – PHYSICAL CHEMISTRY-1 ORGANIC CHEMISTRY -1B

- **CO 1.** Students will learn the knowledge of kinetic theory, chemical kinetics, basic stereochemistry & reactive intermediates.
- **CO 2.** Physical Chemistry experiments and calculation of results with Excel will benefit the students. Also they will learn boiling point determination of different liquids.

Semester-2

CEMA-CC-2-3 – ORGANIC CHEMISTRY-2

- **CO 1.** Students will have detailed understanding in various advanced aspects of stereochemistry, reaction energetics and mechanism (substitution & elimination).
- **CO 2.** Students will acquire enhanced skill in preparation, purification, melting point determination and yield calculation of various compounds by different methodology of Organic Chemistry Practical.

CEMA-CC-2-4 – INORGANIC CHEMISTRY-2

- **CO 1.** Students will be introduced to the concept of bonding- both ionic and covalent in details, VBT and MOT, H-bonding and also radioactivity.
- **CO 2.** Students will continue to learn experiments on advanced redox reactions. They will also learn how to estimate composition of alloys.

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Semester-3

CEMA-CC-3-5 – PHYSICAL CHEMISTRY-2

- **CO 1.** Students will get the updated ideas of Thermodynamics and Electrochemistry.
- **CO 2.** Students will be enriched with the knowledge of Conductometric and Potentiometric experiments with Excel programming.

CEMA-CC-3-6 – INORGANIC CHEMISTRY-3

- **CO 1.** Students will be introduced to the topic like chemical periodicity and subsequently they will learn s and p-block group chemistry and coordination chemistry in details.
- **CO 2.** Students will learn to carry out complexometric titration and chromatographic separation of mixture of metal ions. They will also be enriched with the idea of gravimetric estimation.

CEMA-CC-3-7 – ORGANIC CHEMISTRY-3

- **CO 1.** Students will be acquainted with the chemistry of alkenes, alkynes, carbonyls, aromatics & organometallics. Most importantly, they will learn the concept of C-C bond formation and bond breaking, required for synthetic organic chemistry.
- **CO 2.** Identification of solid and liquid compounds and quantitative estimations will improve the experimental skills of the students.

Semester-4

CEMA-CC-4-8 – ORGANIC CHEMISTRY-4

- **CO 1.** Students will acquire in-depth knowledge in the logic of organic synthesis, nitrogen compounds, rearrangement reactions & organic spectroscopy, which will help them to understand designing of synthetic routes and its viability.
- **CO 2.** Qualitative analysis of single solid organic compounds and derivative preparation will develop student's practical skill as well as the understanding of organic reactions.

CEMA-CC-4-9 – PHYSICAL CHEMISTRY-3

- **CO 1.** Students will be enriched with the knowledge of solution chemistry, solids, quantum chemistry and phase equilibrium.
- **CO 2.** Students will be trained in polarimetric, pH-metric and phase rule-based experiments.

CEMA-CC-4-10 – INORGANIC CHEMISTRY-4

- **CO 1.** Students will learn coordination chemistry in details along with chemistry of d- and f-block elements. Reaction kinetics and mechanism are also taught here.
- **CO 2.** Students will be acquainted with inorganic preparations and will learn the hands-on use of spectrophotometer in practical.

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Semester-5

CEMA-CC-5-11 – PHYSICAL CHEMISTRY-4

- **CO 1.** Students will be enriched with advanced ideas in the field of quantum chemistry, statistical thermodynamic and computer based numerical analysis.
- **CO 2.** Students will be accustomed with various computer-based experiments that is a modern approach of Chemistry.

CEMA-CC-5-12 – ORGANIC CHEMISTRY-5

- **CO 1.** Students will develop concepts in diverse chemistry of heterocycles, polynuclear hydrocarbons and biomolecules, which constitute most of the natural products. Moreover knowledge of cyclic stereochemistry and FMO approach in pericyclic reactions will complete the foundation of Organic Chemistry.
- **CO 2.** Students will learn the different types of chromatographic separation techniques which will develop an all-round skill. Moreover, implementation of IR and NMR spectroscopy and their applications will introduce the idea of research.

Semester-6

CEMA-CC-6-13 – INORGANIC CHEMISTRY-5

- **CO 1.** Students will have the concept of chemistry behind qualitative inorganic analysis. They will also learn about Bioinorganic Chemistry and Organometallic Chemistry.
- **CO 2.** Students will learn qualitative semimicro analysis of inorganic mixtures having three radicals with special emphasis on understanding of the chemistry of different reactions therein.

CEMA-CC-6-14 – PHYSICAL CHEMISTRY-5

- **CO 1.** Students will be enriched with the knowledge of spectroscopy, photochemistry, surface chemistry & polarisation to complete their knowledge of physical chemistry.
- **CO 2.** Students will gain practical experience in performing experiments on spectrophotometry and surface chemistry which will help to educate students to a large extent.

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B. DISCIPLINE SPECIFIC ELECTIVE COURSE

Semester-5

CEMA-DSE A2 - APPLICATIONS OF COMPUTERS IN CHEMISTRY

- CO 1. Students will be benefited with the knowledge of computer applications in understanding various aspects of physical chemistry through plots and spreadsheets.

CEMA-DSE B1 - INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE

- CO 1. Students will be introduced to some materials and processes important in industries. Practical will include different types of estimation and analysis of industrially important compounds.

Semester-6

CEMA-DSE A3 - GREEN CHEMISTRY AND CHEMISTRY OF NATURAL PRODUCTS

- CO 1. Students will learn to use simple nontoxic chemicals for synthesis as is found in Mother Nature.
- CO 2. Students will understand the necessity of minimising toxic waste generation and reducing environmental pollution, which are very relevant in today's perspective.
- CO 3. Practical experiments in this course will give students the required expertise which will make them more familiar with the current research field.
- CO 4. Students will be motivated to use sunlight as energy source, water as reaction medium and natural biomolecules as catalyst to carry out organic synthesis in environmentally benign way.

CEMA-DSE B3 - POLYMER CHEMISTRY

- CO 1. Students will understand the nature, structure, morphology and crystallisation of polymers. They will know about the details of kinetics and thermodynamics of polymer as well as their glass transition temperature and melting temperature.
- CO 2. Students will study the preparation, properties and application of different polymers including addition, condensation and copolymerisation process.
- CO 3. In the practical part, students will learn experimentally how to characterise and analyse a polymer or its different materials. They will also be trained in the synthesis of different polymers and understanding the reaction conditions.

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C. SKILL ENHANCEMENT COURSE

Semester-3

CEMA – SEC A2 - ANALYTICAL CLINICAL BIOCHEMISTRY

- CO 1. Students will gain the knowledge in chemistry of various biomolecules and Biochemistry of disease through a detailed theoretical course structure.

Semester-4

CEMA – SEC B3 - PHARMACEUTICALS CHEMISTRY

- CO 1. Students will attain enhanced knowledge of drug design, development, synthesis & mechanism of action of different drugs and production of important molecules by fermentation.

D. GENERIC ELECTIVES

Semester-1

CEMG – GE-1

- CO 1. Students will be introduced to basic concepts of kinetic theory of gases and real gases, liquids, chemical kinetics, atomic structure, chemical periodicity, acids and bases, fundamentals of organic stereochemistry, nucleophilic substitution and elimination reactions to the students.
- CO 2. Students will learn different types of estimation using the knowledge of acid-base titration, permanganometry, dichromatometry and iodometry.

CEMG – GE-2

- CO 1. Students will gain knowledge in thermodynamics, chemical equilibrium, solutions, phase equilibria, solids, aliphatic hydrocarbons, error analysis & computer applications and redox reactions.
- CO 2. Students will have practical knowledge of kinetics, viscosity, surface tension and solubility product using different apparatus.

CEMG – GE-3

- CO 1. Students will be motivated to have a comprehensive view of chemical bonding and molecular structure including ionic bonding, covalent bonding and MO approach. They will also learn comparative study of p-block and transition elements (3d series) along with coordination chemistry and electrochemistry. It will enrich students with the basic understanding of aromatic hydrocarbons, organometallic and aryl halides.
- CO 2. Students will learn to do qualitative semi-micro analysis of mixtures containing two radicals in practical classes with emphasis on the chemistry of different reactions.

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CEMG – GE-4

- **CO 1.** Students will study chemistry of organic compounds (alcohols, phenols, ethers, carbonyls, carboxylic acids & their derivatives, amines & diazonium salts, amino acids and carbohydrates), the concept of crystal field theory, quantum chemistry & spectroscopy.
 - **CO 2.** In this module, students through practical classes will learn qualitative analysis of single solid organic compound(s) which will improve their practical skill as well as the understanding of organic reactions. They will also gain the knowledge of identification of a pure organic compound.
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Department of Commerce

City College



2.6.1

Program Outcome

- This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.
- After completing graduation, students can get skills regarding various aspects like Accounts Manager, Financial Analyst, Marketing Manager, Selling Manager, Tax Consultant, etc.
- Capability of the students to make decisions at personal & professional level will increase after completion of this course.
- Students can independently start up their own Business.
- Students can get thorough knowledge of finance and commerce.
- The knowledge of different specializations in Accounting, costing, taxation with the practical exposure helps the students to stand in organization.

Program Specific Outcome

- The students can get the knowledge, skills and attitudes at the end of the B.com degree course.
- By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor,

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Company Secretary, Teacher, Professor, Stock Agents, Government employments and so on.,

- Students will prove themselves in different professional exams like C.A. , C S, CMA, UPSC as well as other courses.
- The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
- Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.
- Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
- Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

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- Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
- Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- Students will be able to do their higher education and can make research in the field of finance and commerce.

Course Outcomes

Financial Accounting:

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- To enable the students to learn principles and concepts of Accountancy.
- Students are enabled with the Knowledge in the practical applications of accounting.
- To enable the students to learn the basic concepts of Partnership Accounting, and allied aspects of accounting.
- The student will get thorough knowledge on the accounting practice prevailing in partnership firms and other allied aspects.
- To find out the technical expertise in maintaining the books of accounts.
- To encourage the students about maintaining the books of accounts for further reference.

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Marketing Management and Human Resource management

- This course enables the students, the practical knowledge and the tactics in the marketing.
- To study and critically analyze the basic concepts and trends in Marketing.
- To aware of the recent changes in the field of marketing.

Computer Concepts and applications

- To make students familiar with computer environment & operating systems
- To introduce students with accounting packages like tally.
- To develop skill and knowledge among students in applications of internet in education of commerce.

Business Mathematics and Statistics

- To use and understand useful functions in business as well as the concept of EMI.
- To understand the different concept of population and sample and to make students familiar with Calculation of various types of averages and variation.
- To learn the applications of matrices in business.
- To understand the students to solve LPP to maximize the profit and to minimize the cost.
- To use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.
- To understand the techniques and concept of different types of index numbers.
- To develop oral and written communication skills of the students so that their employability enhances.
- To develop overall linguistic competence and communicative skills of students

Business Economics (Micro)

- To provide students knowledge of Micro Economic concepts and inculcate an analytical approach to the subject matter.
- To arouse the students interest by showing the relevance and use of various economic theories.
- To apply economic reasoning to solve business problems.

Business Communication

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- To make the students aware about the business communication.
- To understand the process and importance of communication.
- To develop awareness regarding new trends in business communication, various media of communication and communication devices.
- To extend business communication skills through the application and exercises

Corporate Accounting

- This course aims to enlighten the students on the accounting procedures followed by the Companies.
- Student's skills about accounting standards will be developed.
- To make aware the students about the valuation of shares.
- To impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company.

Business Economics (Macro)

To familiarize the students with the basic concept of Macro Economics and its application.

- To aware students about Gross National Product (GNP), Net National Product (NNP), Income at Factor cost or National Income at Factor Prices, Per Capita Income, Personal Income (PI), Disposable Income etc.
- To Study the relationship among broad aggregates.
- To apply economic reasoning to solve the problems of the economy.

Business management

- To understand the concept & functions and importance of management and its application.
- To make the student understand principles, functions and different management theories.

Elements of company law

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- To impart students with the knowledge of fundamentals of Company Law and provisions of the Companies Act of 2013.
- To apprise the students of new concepts involving in company law regime.
- To acquaint the students with the duties and responsibilities of Key Managerial Personnel.

Cost and works accounting I

- To understand Basic Cost concepts, Elements of cost and cost sheet.
- Providing knowledge about difference between financial accounting and cost accounting.
- Ascertainment of Material and Labor Cost.
- Student's Capability to apply theoretical knowledge in practical situation will be increased.

A course in environmental studies

- To furnish awareness about environmental problems among people.
- Impart basic knowledge about the environment and its allied problems.
- Developing an attitude of concern for the environment.
- Acquiring skills to help the concerned individuals in identifying and solving environmental problems.

Business Regulatory Framework (Mercantile Law)

- The student will well verse in basic provisions regarding legal frame work governing the business world.
- To know the students with the basic concepts, terms & provisions of Mercantile and Business Laws.
- To develop the awareness among the students regarding these laws affecting trade business, and commerce.

Corporate Accounting

- To provide the knowledge of various accounting concepts
- To impart the knowledge about accounting methods, procedures and techniques.
- To acquaint students with practical approach to accounts writing by using software package and by learning various accounts.

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Auditing and taxation

- Students will be versed in the fundamental concepts of Auditing and different aspects of tax.
- Students can understand Income Tax system properly, and can get the knowledge of different tax provisions.
- To give knowledge about preparation of Audit report, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.

Indian Financial System

- Enable the students with Financial Markets and its various segments.
- To give the students and understanding of the operations and developments in financial markets in India.
- To acquaint them to gain an insight into the functioning and role of financial institutions in the Indian Economy.
- To keep the students conversant with the ever – enlarging frontiers of Cost Accounting knowledge.
- Students can get knowledge of different methods and techniques of cost accounting.
- To impart Knowledge about the concepts and principles application of Overheads.

Information & Technology

- To make students familiar with computer environment
- To make students familiar with operating systems.
- To make students aware of accounting packages like tally.
- To develop skill among students in applications of internet in commerce education
- To educate students with the networking and different languages of computer.

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Department of Economics

City College

2.6.1 Programme based outcome and course outcome

Economics Department equips its students with an ability to look into the data available, to make an independent assessment of the functioning of the economy around. It also initiates the query where to find relevant quantitative and qualitative data to assess the present situation as well as what may be the possible outcomes of various policies adopted at the local, national and international levels, like the possible cause of a war on oil prices, inflation etc. It also helps the students to develop an analytical mind to take responsibilities at administrative levels to assess the welfare requirements of the poor and backward people, who constitute the major population of this country. It also tries to develop public speaking capabilities through departmental seminars, and quiz competitions among students, who come from urban as well as rural backgrounds, which in turn help them to face the interview board in their later lives, also to become good teachers imparting a curious mind among the future students. To impart knowledge, we encourage students to borrow books on academic and extra-academic issues, particularly on various current economic and social crises arising nationally and internationally. Post-covid outcomes in various fields like health, and livelihoods have become a major area of concern in the Department, after the College reopened since November 2021. To understand the livelihood of the bookseller, we organised a primary data survey on 'Livelihood Changes, if any, between Pre and Post-pandemic situation of Booksellers' at College Street, Kolkata with our students and teachers.

It also helps the students to develop an analytical mind to take responsibilities at administrative levels to assess the welfare requirements of the poor and backward people, who constitute the major population of this country.

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Department of English

City College



PROGRAMME: CBCS ENGLISH (HONOURS & GENERAL)

PROGRAMME OUTCOME:

An In-depth comprehension and appreciation of English Literature across genres, regions and periods along with an understanding of the development of English Language.

COURSE OUTCOME:

A. B. A. ENGLISH (HONOURS) :

CORE COURSES:

- 1) Obtaining extensive exposure to the History of English Literature and adequate concept of development and enrichment of the English Language.
- 2) Appreciation of texts of European Classical Literature, British, and American Literature.
- 3) Appreciation of Indian English Literature, Translation Works and Women's Writings.

B. B.A. ENGLISH (GENERAL):

CORE COURSES:

Exposure and appreciation of some renowned Poems, Short Stories, Essays and Novels and also Introduction to Academic Writing and Source Citation.

C. LCC COURSES:

Acquiring proficiency in Official and Personal Communication, obtaining knowledge of difference between British English and American English etc.

D. DISCIPLINE SPECIFIC ELECTIVE COURSES (DSE): HONOURS & GENERAL:

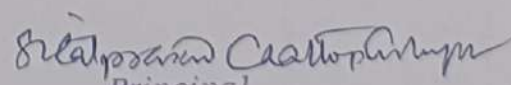
- 1) Exposure to various Literary Types and English Rhetoric and Prosody.
- 2) Appreciation and critical analysis of some renowned texts, belonging to Indian Partition Literature, Modern Indian Writing.

E. SKILL ENHANCEMENT COURSES (SEC): HONOURS & GENERAL:

Obtaining extensive exposure to nature and application of Business Communication and Creative Writing, as well as various modes of Publishing.

F. COMPULSORY COURSE IN LANGUAGE (AECC 1): HONOURS & GENERAL:

Basic English Grammar; Knowledge and Application.


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CITY COLLEGE, KOLKATA-9
DEPARTMENT OF HINDI
Program: HINDI GENERAL

Program Outcome (P.O.) : कलकता विश्वविद्यालय के स्नातक स्तरीय हिंदी पाठ्यक्रम में से सिटी कॉलेज हिंदी सामान्य के पाठ्यक्रम के अध्ययन की सुविधा उपलब्ध करवाता है। इस पाठ्यक्रम के द्वारा हिंदी साहित्य, हिंदी व्याकरण, हिंदी भाषा विज्ञान, हिंदी अनुवाद एवं विज्ञापन की संक्षिप्त एवं सारगर्भित जानकारी प्राप्त होती है। विभिन्न रचनाकारों की विभिन्न विधाओं की रचनाओं के द्वारा जीवन जगत की आदर्श एवं यथार्थ समझ पैदा होती है। जीवन में मानवीय मूल्यों की समझ एवं उनको विकसित करने का नजरिया पैदा होता है। यह जानकारियाँ केवल नैतिक उन्नति का मार्ग ही प्रशस्त नहीं करती बल्कि सफल जीवन यापन हेतु विभिन्न कौशलों के विकास में भी सहयोग करती हैं। यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए यह जानकारियाँ आवश्यक हैं। यह जानकारियाँ केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण हैं। अनुवाद एवं विज्ञापन से संबंधित कोर्स सरकारी के साथ गैर-सरकारी सांस्थानिक अवसरों दरवाजे खोलता है।

Course Outcome (C.O.) :

Semester- 1

CC1/GE1 (हिंदी साहित्य का इतिहास) : यह कोर्स हिंदी साहित्य के इतिहास की जानकारी देता है। यह जानकारी यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

AECC1 (अनिवार्य हिंदी) : यह कोर्स हिंदी के साहित्यिक एवं व्यावहारिक पहलुओं का संक्षिप्त ज्ञान कराता है। यह जानकारी जीवन के लिए जरूरी है।

Semester- 2

CC2/GE2 (मध्यकालीन हिंदी कविता) : यह कोर्स हिंदी साहित्य के मध्यकाल से परिचय कराता है तथा भक्तिकाल एवं रीतिकाल के प्रतिनिधि कवियों की कविताओं के माध्यम से उनकी प्रवृत्तियों का ज्ञान कराता है। यह जानकारी यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

Semester- 3

GE3 (आधुनिक हिंदी कविता) : यह कोर्स हिंदी साहित्य के आधुनिक काल से परिचय कराता है तथा आधुनिक काल के प्रतिनिधि कवियों की कविताओं के माध्यम से उनकी प्रवृत्तियों का ज्ञान कराता है। यह जानकारी यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

SEC A 1 (विज्ञापन; अवधारणा निर्माण एवं प्रयोग) : यह कोर्स विज्ञापन क्षेत्र के सैद्धांतिक और व्यावहारिक पहलुओं की बुनियादी जानकारी देता है। यह जानकारी श्रव्य, दृश्य-श्रव्य तथा प्रिंट मीडिया क्षेत्र के विज्ञापन जगत की नौकरियों के लिए बहुत महत्वपूर्ण होती है।

Semester- 4

Satish Chatterjee
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CITY COLLEGE
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GE4 (हिंदी गद्य साहित्य का) : यह कोर्स हिंदी के गद्य साहित्य से परिचय कराता है तथा विभिन्न गद्य विद्याओं प्रतिनिधि रचनाओं के माध्यम से युग, विधा तथा रचनाकार की प्रवृत्तियों का ज्ञान कराता है। यह जानकारी यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

LCC2 1 (हिंदी व्याकरण एवं संप्रेषण) : इस कोर्स के माध्यम से हिंदी भाषा के व्यकरण का ज्ञान प्राप्त होता है। यह जानकारी हिंदी भाषा प्रयोग को त्रुटिमुक्त, सरल, सटीक करने में मदद करता है। यह जानकारी यूपीएससी, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

SEC B 1 (अनुवाद सिद्धांत एवं प्रविधि) : यह कोर्स अनुवाद के सैद्धांतिक तथा तकनीकी अथवा प्राविधिक विषयों की जानकारी देता है। यह जानकारी सरकारी एवं गैर-सरकारी अनुवादक पदों से जुड़ी हुई नियुक्तियों के लिए बहुत महत्वपूर्ण होती है।

Semester- 5

DSE A 2 (छायावाद) : यह कोर्स हिंदी के छायावादी साहित्य से परिचय कराता है। विभिन्न प्रतिनिधि रचनाकारों के माध्यम से छायावादी दौर तथा रचनाकारों की प्रवृत्तियों से परिचित कराता है। यह जानकारी यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

SEC A 1 (विज्ञापन; अवधारणा निर्माण एवं प्रयोग) : यह कोर्स विज्ञापन क्षेत्र के सैद्धांतिक और व्यावहारिक पहलुओं की बुनियादी जानकारी देता है। यह जानकारी श्रव्य, दृश्य-श्रव्य तथा प्रिंट मीडिया क्षेत्र के विज्ञापन जगत की नौकरियों के लिए बहुत महत्वपूर्ण होती है।

Semester- 6

DSE B (प्रेमचंद) : यह कोर्स प्रेमचंद के साहित्य से परिचय कराता है। विभिन्न विधाओं की प्रतिनिधि रचनाओं के माध्यम से प्रेमचंद को समग्रता में जानने का अवसर मिलता है। यह जानकारी यूपीएससी, यूजीसी नेट, सेट, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति हेतु बेहद महत्वपूर्ण है।

LCC2 2 (हिंदी भाषा एवं संप्रेषण) : इस कोर्स के माध्यम से हिंदी भाषा एवं उसके व्यकरणिक पहलुओं का ज्ञान प्राप्त होता है। यह जानकारी हिंदी भाषा प्रयोग को त्रुटिमुक्त, सरल, सटीक करने में मदद करता है। यह जानकारी यूपीएससी, एसएससी, पीएससी आदि की परीक्षाओं के लिए है आवश्यक है। यह जानकारी केंद्र एवं राज्य के हिंदी शिक्षक नियुक्ति एवं आकाशवाणी व दूरदर्शन आदि की नौकरियों हेतु बेहद महत्वपूर्ण है।

SEC B 1 (अनुवाद सिद्धांत एवं प्रविधि) : यह कोर्स अनुवाद के सैद्धांतिक तथा तकनीकी अथवा प्राविधिक विषयों की जानकारी देता है। यह जानकारी सरकारी एवं गैर-सरकारी अनुवादक पदों से जुड़ी हुई नियुक्तियों के लिए बहुत महत्वपूर्ण होती है।

Shalini Chatterjee
Principal
CITY COLLEGE
KOL-9



Criterion 2.6.1

Department of History

2.6.1 Programme Outcome:

History is one of the most potent sources of knowledge and information in a continuous dialogue between the past and the present. It is interdisciplinary and in tune with most sister disciplines of the social sciences group. The introduction of the CBCS Curriculum has strengthened the discipline in keeping with the demands and challenges of the country's economy and society at large. The Department of History, City College, offers History to students as a subject to garner knowledge and information, as well as to inculcate them with the spirit of enquiry so that students learn to contextualise events across the ages and develop the necessary analytical skills for presenting their views. For instance, the Industrial revolution in England also coincided with the destruction of Indian handicraft industries leading to general economic impoverishment. This contextualization of England's economic prosperity vis-a-vis India's economic impoverishment is important to understand the essence of our freedom struggle and the rise of political consciousness thereof.

Learning Outcome:

Knowledge, development of Historical hindsight and growth of analytical skills are essential pre requisites in academic as well as professional life. History imparts soft skills essential in the corporate sector and also in myriad professions such as Teaching and Research, Journalism, Civil Services, Travel and Tourism, in short, everything that enables an individual for self improvement and contribute to the country's workforce. As India becomes a Knowledge Hub, it's important that History comes to play an increasingly important role. Many of our students are pursuing Masters in different universities and also opted for jobs in the Service Sector

1. Saheli Ghoshal: Ex-Student , History Hons, City College, is currently pursuing her Masters Programme at IGNOU
2. Mainark Nandy: Ex-Student , History Hons, City College, is currently pursuing her Masters Programme at IGNOU
3. Subir Paramanik: Ex-Student , Old BA (under 1+1+1), City College, is employed as a Security Officer

Enclosed:

1. CU CBCS Curriculum
2. Supporting Documents of Ex-Students of the Dept of History, City College

Silal porasaw Chatterjee
Principal
CITY COLLEGE
KOL-9



Department of Mathematics

City College

2.6.1 The institution has framed programme outcomes for Humanities, Science and Commerce. The Departmental Teachers along with the members of the IQAC formulate the learning outcomes keeping in mind the UGC guidelines and the directives of the National Education Policy. Teachers spell out the learning outcomes of the course at the beginning of each semester. Thus students are made aware of the expectations of the course at the very outset. The course outcomes are also given to the students at the time they are given the class schedules. Thus every student is aware of the course outcome.

Satya Prasad Chatterjee
Principal
CITY COLLEGE
KOL-9



CITY COLLEGE

Department of Philosophy

Bachelor of Arts programmes in Philosophy (H & G) offered by City College, Kolkata, is outcome - based and expected outcomes are delineated below:

POs.1-- Enhancing the domain of knowledge so as to enable the students to carry out qualitative research and pursue academic or professional careers in philosophy and allied field like sociology, law, history, political-science and Sanskrit and language –study.

POs.2 -- Developing problem analysis skills and knowledge and applying the same in actual situation to solve societal and ethical problems.

POs.3-- Encouraging students to focus on sustainable development with an eye to ethics and values.

POs.4 -- Developing effective logical skills to understand the rationale of an action.

POs.5-- Fostering ability to concentrate on life long learning, demonstrating empathetic social concern, contributing to the direct participation for the cause of social justice on various issues.

Pos.6-- Helping to grow as a competent, committed, conscious, compassionate and thoughtful citizen.

Expected Course specific outcomes are as follows: CC1/CC3/CC11/CC13/DSEA1(5thsem) and GE1---To be able to understand the basic concepts of Orthodox and heterodox systems of Indian philosophy with a critical approach to logical and hermeneutical study.

CC2/CC4/CC10/CC-12, DSE-B1(SEM5)/(DSEA2-SEM(6)) and GE2--

To be able to understand the practice and preaching's of past masters of western thought through exposure to ancient, medieval and modern. Analytical approaches to epistemological and metaphysical problems with a focus on syntax, semantics and praxis.

CC5/GE4--To be able to understand the psychological processes of animal and human learning, socio-political behaviour of the masses, the problems related to personality disorder and mental aberrations and solutions thereof from psychoanalytic school. CC6/CC7/DSE-B2/GE- (6thsem), Exposure to alternative approaches to understand the different institutions of society, different religious practices and evil nature of taboos tagged with them, discursive and coercive forces endangering the fabric of societal norms, the generic issues involving class and caste, different methodological problems and the possible solutions there of from Indian and western social thinkers.

CC8/CC9/GE3/SEC3-/SEC-5, acquisition of logical tools and techniques and application of them in all field of study to recognize the core concept for a better understanding of the man and environment and justification of human actions from legal point of view.

CC12/CC14/DSE-A1(GE-5)/SEC4/SEC-6 (CC and GE)--To be able to understand the Upanishadic and philosophical concept of value, importance of attainment of virtue ethics, respect for ecology, duty or verity of moral order, justification and validation of an action from utilitarian and deontological perspective, to be engaged in analysis of conscience, determination of evil propensities and continuous adherence to categorical imperative and upholding of ethical principles for peace and harmony without fear and prejudice.

Bisat Goswami Chatterjee
Principal
CITY COLLEGE
KOL-9



Department of Physics

PROGRAMME OUTCOMES:

The course helps in understanding the fundamental concepts and significance of the different physical phenomena. The hands-on experiments in the course help students understand different theoretical ideas of physics better, engaging students with critical thinking and strongly motivate to understand the physics behind nature closely. The students are trained with knowledge through theory, and the technical and analytical skills in solving problems help them to tackle real-life issues beyond physics easily. This course helps students in acquiring advanced academic abilities, presentation and communication expertise, and skills to transfer knowledge. The students learn quantitative reasoning and competencies of leadership in science.

COURSE OUTCOMES:

Students of Physics (Hons) should be able to-

- Use mathematics to solve physics problems.
- Explore concepts of mechanics and general properties of matter.
- Apply knowledge of electricity and magnetism to explain natural physical processes.
- Acquire skills of optics and wave physics.
- Identify the theory and use of heat energy.
- Know the basic concepts of quantum mechanics and its applications.
- Understand nuclear and Particle Physics and detectors and accelerators for nuclear radiation.
- Use LATEX for scientific writings.
- Design and analyze analog and digital electronic circuits and networks.
- Acquire skills of Arduino programming.
- Get the concept of laser, fiber optics, holography and nonlinear optics.
- Acquire knowledge on theoretical description of crystal and electronic structure.
- Understand nanotechnology and its applications.
- Learn classical and quantum statistical mechanics and non equilibrium statistical mechanics.

Silal prasad Chatterjee
Principal
CITY COLLEGE
KOL-9

Department of Physiology

City College



PROGRAMME: CBCS (HONOURS & GENERAL)

PROGRAMME OUTCOME:

Both physiology Honours and general syllabus help the students to basic topics of human physiology.

COURSE OUTCOME:

A. B.SC PHYSIOLOGY (HONOURS) :

CORE COURSES:

- 1) Obtaining extensive exposure to the various aspects of human physiology with the core essence of life sciences.
- 2) Various types of practical classes are designed to enhance basic understanding of living system physiology.

B. B.A. ENGLISH (GENERAL):

CORE COURSES:

Exposure and appreciation of some basic parts of human physiology

Acquiring proficiency in Official and Personal Communication, obtaining knowledge of difference between British English and American English etc.

C. DISCIPLINE SPECIFIC ELECTIVE COURSES (DSE): HONOURS & GENERAL:

- 1) Exposure to allied parts of life sciences with core essence of physiology.
- 2) In Honours course there is option for students to participate in field work where various community study of various aspects of anthropometric measurements are done.

D. SKILL ENHANCEMENT COURSES (SEC): HONOURS & GENERAL:

Obtaining extensive exposure to various topic of life sciences.

Silajit Kumar Chattopadhyay
Principal
CITY COLLEGE
KOL-9



Department of Political Science

Program Specific Outcomes:

1. The course B.A. in Political Science enables the students to develop an overall understanding of politics, administration, society, culture and international relations.
2. The exposure to the subject of Political Science also encourages the students to develop a scientific outlook on various aspects of daily life as an informed citizen, as it emphasizes the role of empirical methods and theories.
3. It not only introduces the students to the structural and functional dimensions of political institutions but also a range of theories which equips them with a critical understanding of society and politics. For example, upon successful completion of the degree programme, the students shall be capable of providing a holistic analysis of political issues, party system, nature of international relations, models of democracy, etc.
4. The contemporary topics as included in the syllabus shall also generate an interest for research among the students in future.

Course Outcome (For Honours candidates):

CC1: Understanding Political Theory: Concepts: This paper introduces the students to some of the important theories of Political Science such as Sovereignty, Democracy, Authoritarianism, Law, Liberty, Equality, etc.

CC2: Understanding Political Theory: Approaches and Debates: This paper enables the students to understand the approaches and debates in Political Science.

CC3: Constitutional Government in India: This paper deals with the various aspects of the Constitution of India and the students will gain an in depth knowledge of the role and functions of our government.

CC4: Politics in India: Structures and Processes: This paper deals with the structures and processes of politics in India.

CC5: Indian Political Thought- I: This paper teaches the students about Indian political thought and its various aspects.

CC6: Comparative Government and Politics: This paper introduces the students to the political structures and constitutions of countries such as the USA, UK, Russia, China, and Bangladesh.

CC7: Perspectives on International Relations: This paper familiarizes the students to the dynamics of international relations with an in-depth analysis of foreign policy, India-China relations, India-USA relations, etc.

Srihat Prasad Chatterjee
Principal
CITY COLLEGE
KOL-9



CC8: Indian Political Thought II: This paper teaches the students about Indian political thought, particularly with reference to India's eminent thinkers and their views on various pertinent issues of global significance.

CC9: Global Politics since 1945: This paper focuses on the nature of global politics since 1945 and the students are able to understand the Cold War, Globalization as well as India's relations with the neighbouring countries.

CC10: Western political Thought and Theory-I: This paper introduces the students to western political thought and thinkers.

CC11: Western Political Thought and Theory-II: This paper is an extension of western political thought and explores additional concepts of relevance such as obligation, guild socialism, civil society, state, etc.

CC12: Political Sociology: This paper teaches the students about the various aspects of political sociology.

CC13: Public Administration-- Concepts and Perspectives: This paper explores the dynamics of public administration and explores its concepts and perspectives.

CC14: Administration and Public Policy in India: This paper familiarizes the students with the nature of administration and public policy making in India.

Apart from the aforementioned papers, the course also includes certain discipline-specific papers (DSE) which are as hereunder:

DSE 5 A 1: Gender and Politics: This paper teaches the students about gender and politics.

DSE 5 A 2: Understanding South Asia: This paper explores South Asia and its various historical and political issues.

DSE 5 B 1: Indian Foreign Policy in a Globalising World: This paper teaches the students about India's foreign policy in a globalizing and multi-polar world order.

DSE 5 B 2: Development Process and Social Movements in Contemporary India: This paper teaches the students about the development process and social movements in India.

DSE 6 A 3: Public Policy in India: This paper provides the students with an understanding of public policy making in India and various issues of relevance in this regard.

DSE 6 A 4: Understanding Global Politics: This paper teaches the students about global politics and its various issues with a specific focus on the evolution and nature of global politics.

DSE 6 B 3: Citizenship in a Globalising World: This paper explores the issues surrounding the concept of citizenship in a globalizing world.

Sudip Prasad Chattopadhyay
Principal
CITY COLLEGE
KOL-9



DSE 6 B 4: Human Rights in a Comparative Perspective: This paper focuses on pertinent issues of Human Rights.

The B.A. course in Political Science also offers a **Skill-Enhancement Course** which includes the following papers:

SEC 3 A 1: Democratic Awareness through Legal Literacy: This paper generates an awareness about democratic institutions and certain important aspects of daily life as citizens.

SEC 3 A 2: Understanding the Legal System: This paper familiarizes the students with the legal system in India.

SEC 4 B 1: Legislative Practices and Procedures: This paper teaches the students about the legislative practices and procedures in India.

SEC 4 B 2: Elementary Aspects of Social Research: This paper introduces the students to the elementary aspects of social research.

Course Outcome (For B.A. General candidates or Honours candidates having Political Science as a General category subject):

CC1: Introduction to Political Theory: This paper introduces the students to political theory.

CC2: Comparative Government and Politics: This paper teaches the students about the constitutions of selected countries.

CC3: Government and Politics in India: This paper teaches the students about pertinent issues related to governance and politics of India.

CC4: International Relations: This paper introduces the students to the discipline of International Relations.

The Discipline-Specific Electives for the General course are as follows:

DSE 5 1 A: Public Administration: This paper enables students to understand the various dimensions of public administration.

DSE 5 1 B: Indian Foreign Policy: This paper provides an in-depth understanding of India's foreign policy.

DSE 6 2 A: Feminism: Theory and Practice: This paper provides the students with an understanding of the theory and practice of feminism.

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DSE B 6 2 B: Human Rights: Theory and Indian Context: This paper teaches the students about Human Rights and their importance from an Indian perspective.

Apart from these papers, the students are also offered a **Skill-Enhancement Course (SEC)** which includes the following papers:

SEC 3 A 1: Legal Literacy: This paper explores the legal aspects of an individual's daily life and teaches the students about important topics such as consumer rights, Right to Information, Human Rights laws, etc.

SEC 4 B 1: Elementary Dimensions of Research: This paper familiarizes the students with the basics of conducting a relevant research.

SEC 5 A 2: Understanding the Legal System: This paper helps the students in understanding the legal system of India.

SEC 6 B 2: Basic Research Methods: This paper explores the methods of research and helps the students understand the process of conducting a good research.

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2.6.1 Programme Outcomes (PO) and Course Outcomes (CO)



Honours Course -

Honours students in our department are learning a variety of subjects through their courses, for example - Kavya, Mahakavya, Nataka, Vedic literature, Vyakarana, Darsana, Sahitya, Meter, Structure of Society and Values of life, Initial stage of Indian Polity, Writing skill, Epigraphy, Palaeography, Inscription, Philology, Ontology etc.

Our students will be able to gain considerable knowledge about ancient teachings and information through this course. At the same time, they will learn a lot of current education information through this course and it seems that this education

Department of Sanskrit

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system will help them to build their life and gain financially in later life.

General Course –



General students in our department are learning a variety of subjects through their courses, for example - Poetry, prose, Drama, Grammar, Philosophy, Religion and culture in Sanskrit tradition, Indian perspectives in personality Development, Literary criticism, Basic factors of Indian Nationalism etc.

Through this course they gain enough information and knowledge about various ancient Indian texts. Along with acquiring knowledge about various ancient texts, they are informed about the current social system through this course.

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2.6.1: Program Specific Outcomes (PSOs) Department of ZOOLOGY, City College, Kolkata

Since life appeared on Earth, the biological organisms started to roam over the Hydrosphere, Lithosphere and Atmosphere and a new term was coined – the "BIOSPHERE", clubbing the three under one expression. To sightsee the attribution of the biological organisms more precisely, they were classified into five kingdoms and out of which Kingdom Animalia is the most progressive one. The scientific study to apprehend the Kingdom Animalia is basically called as ZOOLOGY. In the program or curricula of Zoological studies at undergraduate level the following outcomes can be commonly interpreted:

- PSO1 - Students can increase knowledge and can develop skill in the fundamentals of animal sciences to scrutinise the complex interactions among the various animals of different phyla, their distribution and their relationship with the environment
- PSO2 – Apply the knowledge of structural complexities of cell to conceptualize the genetic functions in control of various metabolic activities and health of organisms
- PSO3 – To correlate the physiological, endocrinological, neurological and biochemical processes of animals and relationship of organ systems
- PSO4 – Understands the taxonomic diversification of animals through the course of complex evolutionary processes and behavioural approaches of animals
- PSO5 – How to imply the remediation against various modes of Indulgent environmental pollutions to sustain the ecological homeostasis, biodiversity and conservation of threatened species through different environmental conservation programmes
- PSO6 – To identify socio-economic animals and how they are becoming beneficial to humans through knowledge of agro based small scale industries like apiculture, sericulture, lac culture, edible and ornamental fish farming, vermin-compost preparation etc.
- PSO7 – To identify the impact of various potential risk factors like pollutants, toxins, toxics, pests, parasites, parasitoids, microbes and many other pathogens on the health of biological organisms including humans and to have scalability on the process of recuperation through innate and acquired immune responses against communicable and non-communicable diseases
- PSO8 – To generate awareness and commitment amongst students about ethical as well as legal principles towards professional ethics and responsibilities for an overall conservation of communities and environment
- PSO9 – Apply the knowledge and understanding of Zoology to one's own life and work with growing empathy and obvious love towards the animal world for being a green entrepreneur

Course Specific Outcomes (CSOs):

CSO1. SEMESTER 1: To understand the taxonomic and anatomic diversity of the acoelomates and pseudocoelomates; Understanding the molecular organization and functioning of gene through Central Dogma.

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CSO2. SEMESTER 2: To understand the taxonomic and anatomic diversity of the non-chordate coelomates; the ultra-structural organization, function and the process of genetic regulation through signalling coordination amongst various organelles of a cell towards the sustenance of life.

CSO3. SEMESTER 3: Understanding the taxonomic and anatomic diversity of the chordate; Physiological controlling and coordination of various animal organ-systems along with the basic and fundamental emphasis on different biochemical pathways; Pragmatic applications and implications of Apiculture and Sericulture to understand entrepreneurship.

CSO4. SEMESTER 4: Comparative study on the diversified anatomic structures and functions of various organs of chordates; Understanding various physiological processes of animal system; The cytological and histological organizations and functions of immuo-responsive cells and organs of the body systems; Understanding the process and applications of aquarium fish keeping; To edify the requirements of medical diagnostic tools and techniques to diagnose various clinical diseases for remission.

CSO5. SEMESTER 5: Understanding the importance of ecological components and their interactions to sustain the biodiversity and wildlife; Comprehending the principle functions and fine structures of genes; To understand the pathogenic throughput of hetero-specific host-parasite interactions for prophylactic and control measures of diseases caused, by such interactions; To develop an overview on taxonomic, morphological, physiological, sociological and interactive diversities of insects; To study the anatomical and histological architecture of various endocrine and reproductive organs to ideate the synthesis and regulatory interplays of various hormones, secreted from those organs to maintain body homoeostasis.

CSO6. SEMESTER 6: To ideate the pre- and post-embryonic processes of development of animals and the possible implications of developmental biology; To trace the adaptive mechanisms and phylogenetic evolutionary processes of biological organisms through the course of geological time scale; To gage the concepts, scopes and implications of animal or more precisely cellular bio-technology; To conceptualize the numerous instinctive and adaptive chrono-biological

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