

Krishnagar Women's College

Department of Bengali

B.A.(Honours) in Bengali

C.B.C.S.Syllabus with effect from 2018-2019

Programme Specific Outcome

- ❖ C.B.C.S.syllabus exposes the students to a wide and varied range of literary texts on poetry,prose,drama,fiction and literary theory.This exposure to and thorough study of this variety of texts and theory is expected to have a great impact on their own intellectual ability and writing skill.
- ❖ The syllabus contains an overview of the history of ancient,medieval and modern Bengali literature.
- ❖ Students get acquainted with Sanskrit literature and English literature as well and it enables them to have an interdisciplinary reading and understanding of the texts prescribed in the syllabus.
- ❖ The wide variety of Core papers familiarizes the students with a wide variety of issues like discourses on gender,environment,socialdiscrimination,politics and culture.
- ❖ The Course prepares the students for higher studies and research work.
- ❖ Students can emerge as prospective teachers in schools and colleges,as content writers and as professionals in publishing houses.

Krishnagar Women's College

Department of Bengali

B.A. Bengali (Honours)

CBCS syllabus

With effect from 2018-19

Course Outcomes

Course Name: Core Course-1

Course Code: BENG-H- CC- T-1

Course Title: HISTORY OF Bengali Literature and Philology (Part -1)

Course Outcome:

i) The Course gives the students an elaborate critical perspective of the socio-political-historical background which helped flourish a vast body of literature ranging from the epics to the literature of the medieval period.

ii) The Course is not only an extensive study of literature of the ancient and medieval age but also focuses on the growth and development of the language as means of communication. The entire third part of the syllabus is dedicated to an interesting analysis of the origin of Bengali as a medium of expression and its philological development.

2) Course Name: Core Course-2

Course Code-BENG-H-CC-T-2

Course Title: History of Bengali Literature and Philology (Part-2)

Course Outcome:

i) Students get to know about the socio-political changes and the establishment of the colonial age.

ii) The development of new age Bengali literature against the backdrop of the social movements and reformations.

iii) The Introduction of various literary genres and the beginning of the printing age.

3). Course Name: Core Course-3

Course Code: BENG-H-CC--T-3

Course Title: Prosody; Krittivasi Ramayana, Vaishnava Padavali

Course Outcome:

i) Prosody is the fundamental and basic component of verse. The study guides the students to scan a given poem with its meter, rhythm, rhyme.

ii) Mediaeval texts with the intense and compact study enable the students to form a proper concept with analytical power to explore the literary quality and socio- economic paradigm.

4) Course Name- Core Course-4

Course Code: BENG-H-CC-T-4

Course Title: Rhetoric, Shakta Podavali, Annadamangal Kavya, Proof Correction

Course Outcome:

i) Rhetoric is the discipline to explore any literary work to enjoy the reading with its aesthetic grandeur and deep qualitative excellence of utterance.

ii) The students make a journey from the reading of vaishnav literature to that of Shakto literature consisting of popular devotional poems

iii) Proof- correction may help the students in their professional life and guide them to write and type their own scripts without any errors .It is important for preparation of thesis paper or any sort of writing.

5) Course Name: Core Course-5

Course Code-BENG-H-CC-T-5

Course Title: Types of Fiction

Course Outcome:

i) The Course offers the students a detailed knowledge and concept about the different types and forms of Fiction- Short story, Romance and Novel.

ii) Selected texts (1890-till date) and their compact and intense study serve as an illustration of the growth and development of a popular genre of Bengali literature.

6) Course Name: Core Course-6

Course Code-BENG-H-CC-T-6

Course Title: Bengali Novel

Course Outcome:

i) Intense study of masterpieces of Bengali fiction acquaints the students with the evolution of theme, plot construction and experiment with the fictional form by the novelists.

7) Course Name: Core Course-7

Course Code-BENG-H-CC-T-7

Course Title: Non- fictional prose and Reading of autobiography.

Course Outcome:

i) Introduction with definition and analysis of essay, personal essay, Belle letters, travelogue, biography, autobiography, criticism etc.

iii) Biography and autobiography allow a great sphere to read the personal history of the authors from their own perspective. As readers, students learn to see things from the lens of the authors themselves.

8) Course Name: Core Course-8

Course Code-BENG-H-CC-T-8

Course Title: Criticism and Essay

Course Outcome:

i) Criticism is one important genre of Bengali literature that grew and developed along with other literary forms. The readers' perception of a given text is further modified once he learn to assess it critically.

ii) Essay or formal essays are also a constructive part of building up ideas on different subjects.

9) Course Name: Core Course-9

Course Code-BENG-H-CC-T-9

Course Title: Poetry and Poetics

Course Outcome :

i) Students get familiarized with different genres of poems with their definitions and analytical introductory description.

ii) Selected texts and their compact and intense study will guide the students to achieve a clear concept of they have studied.

iii) Students acquire knowledge about Indian and western theories of poetry like Alamkartattwa, Aristotle's *Poetics* and different literary terms which is important to judge a literary piece from critical point of view.

10). Course Name: Core Course-10

Course Code-BENG-H-CC-T-10

Course Title: Bengali Poetry and Essays.

Course Outcome:

i) The poems in this Course are selected from a wide range of Bengali poetry from the poems of Rabindranath to Amitava Dasgupta with focus on a critical discussion of poetry and poetics.

ii) Selected texts and their compact and intense study will guide the students to have a thorough idea of the concept of poetry and essays and strengthen their analytical power.

11) Course Name: Core Course-11

Course Code-BENG-H-CC-T-11

Course Title: Bengali Novels

Course Outcome:

- i) Students have to study great fictions written by the pioneers of Bengali fiction as developed in the post-Rabindranath era.
- ii) Reading of the fictional masterpieces is supplemented by a number of critical and theoretical analyses of the given texts.

12) Course Name: Core Course-12

Course Code: BENG-H-CC-T-12

Course Title: Bengali Stage and Drama

Course Outcome:

- i) The Course gives the students an ample scope of the theory of different types of drama as a literary genre and the history of the beginning of Bengali theatre in the colonial era. The students can trace the development of the flourish of a good number of theatre houses in Calcutta to promote theatrical production on stage.

The Course acquaints the students with a number of dramatic masterpieces to make them trace and understand the growth and development of Bengali theatre.

13) Course Name: Core Course-13

Course Code: BENG-H-CC-T-13

Course Title: Reading Drama

Course Outcome:

The Course gives the students an outline of the history of dramatic literature with reference to several plays written by the Bengali playwrights. They also get acquainted with the new experiment in form and content of drama as reflected in the play written by Badal Sarkar, a specimen of Absurd Play that flourished in the West.

14) Course Name: Core Course-14

Course Code - BENG-H-CC-T-14

Course Title: History of Sanskrit and English Literature and Folk Literature.

Course Outcome:

- i) Students learn to trace the growth of Bengali literature and the influences of Sanskrit and English literature on it. The study of Sanskrit and English literature adds to their knowledge in Bengali literature.
- ii) The Course offers a study of folk literature incorporating folk songs, verses, proverbs, riddles with a focus on the discussion of socio-cultural milieu of the time.

Course Name: Discipline Specific Elective

Course Code: BENG-H-DSE-T-1

Course Title : Theory and Criticism

Course Outcome:

This portion of the syllabus guides the students to achieve a thorough knowledge and Idea on the diverse literary theories which lends an intellectual ability to read the texts from critical point of view. It also acquaints the students with various debates, arguments and counter-arguments regarding the theories. Students learn to read a text in terms of a variety of literary terms like Romanticism, Realism, Classicism, Surrealism, and Naturalism.

Course Name: Discipline Specific Elective

Course Code: BENG-H-DSE-T-2

Course Title-Literature of Bangladesh

Course Outcome:

Literature of Bangladesh is one new corridor of Bengali literature. The literary history of Bangladesh as reflected in the texts in the Course offers the students an all-pervasive idea about the prose, poetry, plays and critical literature of our neighboring country.

Course Name: Discipline Specific Elective

Course Code: BENG-H-DSE-T-3

Course Title: Bengali Fairy Tale, Juvenile Literature, and Detective Fiction.

Course Outcome:

The Course introduces the students with three separate genres of literature. They have to read the canonical pieces of fairy tales and children's literature and learn to analyze these texts critically. The students get familiar with detective stories-another subgenre of crime fiction that entertains the students as well as gives them a glimpse into the world of popular literature.

Course Title- Bengali Fairy Tale, Juvenile Literature, and Detective Fiction.

Course Name: Discipline Specific Elective

Course Code: BENG-H-DSE-T-4

Course Title- Regional Literature

Course Outcome

The Course acquaints the students with the linguistic diversity of Indian cultural and literary tradition. Students read the regional literature in India –short stories, novel, drama written in Hindi, Urdu, Malayalam, Odiya- in Bengali translation and it adds to their pleasure of reading as well as expands their perception and understanding of regional literature.

Course Name: Skill Enhancement Course-1

Course Code: BENG-H- SEC-T-1

Course Title: Reading Literature and Practical Application

Course Outcome:

The Course is not theory-oriented. Students learn to apply their understanding of prose, poetry and drama and have to appear for Practical examination taken by University appointed external examiners. They learn script writing for dramatic presentation; their participation in debates and departmental seminars complements their theoretical knowledge.

Course Name: Skill Enhancement Course-2

Course Code: BENG-H- SEC-T-2

Course Title: Reporting, Advertising, and Research Methodology.

Course Outcome :

The Course prepares the students professionally. It teaches them how to make reports and write-ups for print media and advertising agencies. After post-graduating from University, students can enroll in Ph.D. Course for higher studies and Research Methodology comes in for immense help

for the graduates with an Honours in Bengali. By the time they start Ph.D. Course, they are well-equipped with the elementary knowledge of research work.

Students from other discipline (Hons.) may opt for Bengali as their Generic Elective Subject.

Course Name : Generic Elective

Course Code: BENG-H-GE-T-1

Course Title: History of Bengali Literature (Ancient and Medieval), Rhetoric and Prosody, VaishnabPadavali.

Course Outcome:

- i) Students have a glimpse into the history of Bengali literature right from the beginning to the literature written in the medieval period. Their extensive and critical reading of *Charyapada*, biographies of Sri Chaitanya written by several authors, and the rich heritage of *Mangalkavyas*, epics in Bengali translation and a good number of *VaishnabPadavali* adds to their enjoyment of reading literature and intensifies their knowledge.
- ii) The Course also teaches the students Rhetoric and Prosody- the technical aspects of poems. They learn to identify the uses of various figures of speech and to scan a given poem.

Course Name: Generic Elective

Course Code: BENG-H-GE-T-2

Course Title: History of Bengali Literature (Modern Period): From the beginning of Prose to Periodicals and Philology.

Course Outcome:

- i) The Course traces the growth and development of Bengali prose and covers the history of a wide range of Bengali literature as it flourished during the modern period- prose, poetry, short stories, novels, literary essays and periodicals. The students get an idea of the rapid development and pioneering achievement of Bengali literature during the Renaissance.
- ii) Students also acquire a fair idea of the history of philological development of Bengali language right from the beginning to the modern period.

Students of 2nd Semester (Hons. & Gen.) from all disciplines may opt for AECC Bengali.

Course Name: Ability Enhancement Core Course

Course Code: BENG-H-AECC-T-1

Course Title: Comprehension, Terminology, Poems and Short Stories.

Course Outcome:

The Course is based on practical application of the language and it exposes the students to two hundred technical terms incorporated in the prescribed text which prove to be very useful to read and comprehend a given text.

The selected poems and short stories also offer them a space for enjoying the pieces. They also learn to appreciate these texts from a critical point of view.

Krishnagar Women's College

Department of Bengali

B.A.(Programme/General)

CBCS Syllabus with effect from Academic Session 2018-2019

Programme Specific Outcome

- ❖ Students of Programme Courses opting for Bengali as Core Course acquire a fair knowledge about Bengali literature from its beginning to the modern period, with emphasis on literary terms, types, theories and criticism.

- ❖ The exposure of the students to practical application of skills like reporting, advertising, Research methodology, proof reading etc. enhances their employability in advertising agency, in print media, in teaching jobs. They can emerge as prospective content writers, freelancers in publishing houses.

Course Outcome Semester I

Course Name: Core Course -1

Course Code: BENG-G-CC-T-1

Course Title: History of Bengali Literature(Ancient and Medieval),Rhetoric and Prosody, and *Vaishnav Padavali*.

Course Outcome:

- Students have a glimpse into the history of Bengali literature right from the beginning to the literature written in the medieval period. Their extensive and critical reading of *Charyapada*, biographies of Sri Chaitanya written by several authors, and the rich heritage of *Mangalkavyas*, epics in Bengali translation and a good number of *Vaishnav Padavali* adds to their enjoyment of reading literature and intensifies their knowledge.
- The Course also teaches the students Rhetoric and Prosody- the technical aspects of poems. They learn to identify the uses of various figures of speech and to scan a given poem.

Course Name: Ability Enhancement Core Course -1

Course Code: BENG-G-AECC-T-1

Course Title: Course Title: Comprehension, Terminology, Poems and Short Stories.

Course Outcome:

The Course is based on practical application of the language and it exposes the students to two hundred technical terms incorporated in the prescribed text which prove to be very useful to read and comprehend a given text.

The selected poems and short stories also offer them a space for enjoying the pieces. They also learn to appreciate these texts from a critical point of view.

Semester II

Course Name: Language Core Course

Course Code: BENG-G-LCC-T-1

Course Title: *ShaktoPadavali, Kavya and Upanyasa*

Course Outcome:

Students of Programme Course opt for Language Core Course. They enjoy reading the poems dedicated to either goddess Durga or Kali, two selected parts of *Meghnaad Badh Kavya* which gives them an inter-textual reading of the epic *Ramayana*. The course combines the separate genres-poetry, epic and novel.

Course Name: Core Course -2

Course Code: BENG-G-CC-T-2

Course Title: History of Bengali Literature (Modern Period) : From the beginning of Prose to Periodicals and Philology.

Course Outcome:

- i) The Course traces the growth and development of Bengali prose and covers the history of a wide range of Bengali literature as it flourished during the modern period- prose, poetry, short stories, novels, literary essays and periodicals. The students get an idea of the rapid development and pioneering achievement of Bengali literature during the Renaissance.
- ii) Students also acquire a fair idea of the history of philological development of Bengali language right from the beginning to the modern period.

Semester -III

Course Name: Core Course-3

Course Code: BENG-G-CC-T-3

Course Title: Biography, Autobiography and Travelogue

Course Outcome:

Students get acquainted with two different genres of Bengali literature, namely, study of biography and travel literature. Their interest and curiosity about the life and thoughts of authors and poets is satisfied as they read the biographical as well as autobiographical writings of renowned authors.

Travelogue is another genre that flourished during the period and students can have a taste of it from a text like Sanjib Chandra Chattopadhyay's *Palamou*.

Course Name: Skill Enhancement Course**Course Code: BENG-G-SEC-T-1****Course Title: Reading Literature and Practical Application****Course Outcome:**

The Course is not theory-oriented. Students learn to apply their understanding of prose, poetry and drama and have to appear for Practical examination taken by University appointed external examiners. They learn script writing for dramatic presentation; their participation in debates and departmental seminars complements their theoretical knowledge.

Semester IV**Course Name: Language Core Course****Course Code: BENG-G-LCC-T-2****Course Title: Poems, Plays and Short Stories****Course Outcome:**

The Course introduces the students to a great variety of poems and short stories. It enhances their interest in reading Bengali literature. It also gives them an insight into the socio-cultural milieu of the time. The play and the novel included in the syllabus also add to their knowledge.

Course Name: Core Course**Course Code: BENG-G-CC-T-4****Course Title: Bengali Novel, Drama, and Essay.**

Course Outcome:

An interesting selection of novel, drama and essays gives the students an idea of the variety of these genres of Bengali literature. They learn to read the texts from a critical perspective and analyze them from their own point of view.

Course Name: Skill Enhancement Course-2**Course Code: BENG- G - SEC-T-2****Course Title: Reporting, Advertising, and Research Methodology.****Course Outcome :**

The Course prepares the students professionally. It teaches them how to make reports and write-ups for print media and advertising agencies. After graduating, students can opt for jobs in various publishing houses, and enroll for journalism.

Semester V**Course Name: Discipline Specific Elective****Course Code : BENG-G-DSE-T-1****Course Title :Theory and Criticism****Course Outcome:**

This portion of the syllabus guides the students to achieve a thorough knowledge and Idea on the diverse literary theories which lends an intellectual ability to read the texts from critical point of view. It also acquaints the students with various arguments regarding the theories. Students learn to read a text in terms of a variety of literary terms like Romanticism, Realism, Classicism, Surrealism, and Naturalism.

Course Name: Generic Elective**Course Code: BENG-G- GE-T-1****Course Title: Bengali Stage and Drama****Course Outcome:**

i)The Course gives the students an ample scope of the theory of different types of drama as a literary genre and the history of the beginning of Bengali theatre in the colonial era. The

students can trace the development of the flourish of a good number of theatre houses in Calcutta to promote theatrical production on stage.

The Course acquaints the students with a number of dramatic masterpieces to make them trace and understand the growth and development of Bengali theatre.

Course Name: Skill Enhancement Course

Course Code: BENG-G- SEC-T-3

Course Title: Folk Music

Course Outcome:

The Course is a complete break from the established conventional genres of Bengali literature. It introduces the students to the world of folk song and music rooted in both West Bengal and Bangladesh. The rich heritage of the cross-cultural folk music is a pleasant diversion for the students. The history of its origin and growth exerts a far-reaching influence on language and literature.

Semester –VI

Course Name: Discipline Specific Elective

Course Code: BENG-G -DSE-T-2

Course Title: Bengali Fairy Tale, Juvenile Literature, and Detective Fiction.

Course Outcome:

The Course introduces the students with three separate genres of literature. They have to read the canonical pieces of fairy tales and children's literature and learn to analyze these texts critically. The students get familiar with detective stories-another subgenre of crime fiction that entertains the students as well as gives them a glimpse into the world of popular literature.

Course Name: Generic Elective

Course Code: BENG-G-GE-T-2

Course Title: Reading Drama

Course Outcome:

The Course gives the students an outline of the history of dramatic literature with reference to several plays written by the Bengali playwrights. They also get acquainted with the new experiment in form and content of drama as reflected in the play written by Badal Sarkar, a specimen of Absurd Play that flourished in the West.

Course Name: Skill Enhancement Course**Course Code: BENG-G-SEC-T-4****Course Title: I.P.A., Proof Reading and Essay Writing****Course Outcome:**

This Course is entirely practical. Students acquire a profound knowledge in proof reading and proof correction and IPA. They learn the basics of Bengali phonology, the symbols used for transcription of words. It almost acts like a manual for the students.

KRISHNAGAR WOMEN'S COLLEGE
UNDER GRADUATE DEPARTMENT OF CHEMISTRY
Programme Specific Outcomes B.Sc. Chemistry (Hons) CBCS Syllabus
With effect from 2018-19

At the completion of this program, students will be able to:

- **PSO1:** To give the students a holistic understanding of the subject giving substantial weightage to both the core content and techniques based in Chemistry. The syllabus has given equal importance to main three branches of Chemistry - Physical, Organic and Inorganic.
- **PSO2:** The ultimate goal of the syllabus is that the students at the end are able to secure job. Keeping in mind and in tune with the changing nature of the subject, adequate emphasis has been given on new techniques and understanding of the subject.
- **PSO3:** Understand the basic concepts, principles and applications of chemistry, viz. Physical, organic and inorganic.
- **PSO4:** Set up physicochemical experiments, analyse the data, draw plots, calculate physical constants and interpret the results.
- **PSO5:** Estimate and analyse inorganic compounds both qualitatively and quantitatively and learn the use of analytical instruments
- **PSO6:** Prepare, purify and estimate organic compounds and interpret the NMR and IR data.
- **PSO7:** Learn the basic tenants of computer programming and use of data processing software.
- **PSO8:** Prepare and deliver a PowerPoint presentation on the topics learned during the program.
- **PSO9:** Learn the safety precautions and maintenance protocols of a chemistry laboratory and work cohesively in a group.

COURSE OUTCOME:

SEMESTER 1

Course: Core Course-1

Course Name: CHEMHT-1 & CHEMHP-1

Broad Area: Inorganic & Physical Chemistry

- **CO1:** Extra nuclear atomic structure from Bohr's model and limitations of it, de Broglie's concept, Heisenberg's uncertainty principle, Schrodinger wave equation, Pauli's exclusion principles, Hund's rule, Periodic properties : Modern IUPAC periodic table, Slater's rule, electronegativity (Pauling's, Mulliken's, Allred-Rochow's and Sanderson's scales).
- **CO2:** Kinetic theory of gases, Maxwell's distribution of speed and energy, Real gas and virial equation, the zeroth and 1st law of thermodynamics, the condition of spontaneity and equilibria of a chemical process and the principles of thermochemistry. Heat of reaction, bond energy and bond dissociation energy, Kirchoff's equation.

- **CO3:** They will be able to estimate the mixtures of NaOH and Na_2CO_3 , Na_2CO_3 and Na_2CO_3 and NaHCO_3

Course: Core Course-2

Course Name: CHEMHT-2 & CHEMHP-2

Broad Area: Organic Chemistry

- **CO1:** Basics of Organic Chemistry like Bonding and Physical Properties, Valence Bond Theory; Electronic displacement: Inductive, field, mesomeric effect, Steric effect and steric inhibition of resonance, Hückel's rules for aromaticity, Physical properties, General Treatment of Reaction Mechanism-1 like Mechanistic classification and Reactive intermediates, Stereochemistry and Bonding geometries of carbon compounds and representation of molecules, Concept of chirality and symmetry and Optical activity of chiral compounds.
- **CO2:** Separation of organic compounds from their mixtures by acid or base, their purification, crystallisation, determination of b.p. of organic liquids and identification of pure organic solid and liquid compounds.

SEMESTER-2

Course: Core Course-3

Course Name: CHEMHT-3 & CHEMHP-3

Broad Area: Inorganic and Physical Chemistry

Course Outcome:

- **CO1:** students will be able to have clear ideas on: Redox and precipitation reaction and Chemical periodicity, Acid base concept and solvents
- **CO2:** Chemical thermodynamics-2nd law, Carnot's theorem, thermodynamic relations Chemical kinetics: Rate law, order, molecularity, role of temperature and theories of reaction rate, Homogeneous catalysis.
- **CO3:** They will be able to estimate Fe(II), Fe(III), Cr (III) using $\text{K}_2\text{Cr}_2\text{O}_7$, KMnO_4 , Cu(II) iodometrically.

Course : Core Course-4

Course Name : CHEMHT-4 & CHEMHP-4

Broad Area : Organic Chemistry

- **CO1:** They will learn the stereochemistry like Chirality arising out of stereo axis, Concept of prostereoisomerism, Prostereogenic centre and Conformation, General Treatment of Reaction Mechanism-2 like (a) Reaction thermodynamics (b) Concept of organic acids and bases (c) Tautomerism (d) Reaction kinetics, Substitution and Elimination Reactions like (a) Free-radical substitution reaction (b) Nucleophilic substitution reactions (c) Elimination reactions
- **CO2:** Synthesize some organic compounds followed by their purification.

SEMESTER-3

Course : Core Course-5

Course Name : CHEMHT-5 & CHEMHP-5

Broad Area : Physical Chemistry

- **CO1:** The different transport processes viz. diffusion, viscosity, conduction etc. and the application of conductance measurements in estimating several physical parameters, concept of chemical potential and equilibrium constant of a process and the factors affecting

them, development of quantum mechanics, its basic postulates and application to model systems like particle in a box and simple harmonic oscillator.

- **CO2:** Hands on experience in using conductometric titration of an acid against base, viscosity measurement, partition coefficient, verification of Ostwald's dilution law etc.

Course : Core Course-6
Course Name : CHEMHT-6 & CHEMHP-6
Broad Area : Inorganic Chemistry

- **CO1:** Chemical bonding-1: Ionic bond, lattice energy, Bond-Lande equation, Fajan's rule and its application, qualitative idea about stoichiometric and non-stoichiometric crystal lattice, chemical bonding -2: Covalent bond, VB theory, VESPER theory, Bent rule, MO diagram of homonuclear diatomic and heteronuclear diatomic and triatomic molecules, electron sea model, hydrogen bonding classification and its effect on the properties of compounds in biological systems, Basic metallurgy: Idea about ores and minerals, flow chart diagram for the extraction of pure Ti, Ni and U from important ores.
- **CO2:** They should learn how to estimate different metal ions present in mixtures either using $K_2Cr_2O_7$ or $KMnO_4$ like Fe^{2+} / Fe^{3+} , Fe^{3+} / Cu^{2+} , Cr^{6+} / Mn^{2+} , Fe^{2+} / Mn^{2+} etc.

Course : Core Course-7
Course Name : CHEMHT-7 & CHEMHP-7
Broad Area : Organic Chemistry

- **CO1:** 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 also acquire the knowledge of pollution free green chemistry.
- **CO2:** In practical chemistry students can do the Qualitative Analysis of Single Solid Organic Compounds which will improve the experimental skills.

SEMESTER- 4

Course : Core Course-8
Course Name : CHEMHT-8 & CHEMHP-8
Broad Area : Physical Chemistry

- **CO1:** The applications of thermodynamic principles in colligative properties of solutions and phase rule, Principles of electrochemistry and its application in determining physical parameters, Quantum mechanical treatment of rigid rotator and H-atom system and concept of angular momentum, angular momentum- commutation rule.
- **CO2:** pH metric titration of acids, study of phenol-water phase rule, potentiometric titration of Mohr's salt in their practical classes.

Course : Core Course-9
Course Name : CHEMHT-9 & CHEMHP-9
Broad Area : Inorganic Chemistry

- **CO1:**Radioactivity and its nuclear chemistry: atomic nucleus-nuclear stability, n/p ratio, nuclear fission, fusion, spallation reactions, application of isotopes, hazards of radiation and safety measures, understanding of chemistry of S and P block elements and their comparative studies, coordination chemistry-I; Warner's theory, nomenclature, stereochemistry and isomerism.
- **CO2:**Different metal ion determinations by complexo-metric titration and preparation various complex inorganic compounds through practical classes.

Course : Core Course-10

Course Name : CHEMHT-10 & CHEMHP-10

Broad Area : Organic Chemistry

- **CO1:**Nitrogen compounds, rearrangements Reactions , the Logic of Organic Synthesis (Retrosynthesis), Organic Spectroscopy, UV Spectroscopy, IR Spectroscopy, NMR Spectroscopy with this spectroscopic analysis the student identify the structure of compounds.
- **CO2:**In practical classes, students can also be able to estimate organic compounds quantitatively, such as estimation of glucose, vitamin C, aromatic amines, phenol, formaldehyde, acetic acid, urea and saponification value of oil.

SEMESTER- 5

Course : Core Course-11

Course Name : CHEMHT-11 & CHEMHP-11

Broad Area : Inorganic Chemistry

- **CO1:** Students will learn coordination chemistry in details along with chemistry of d and f-block elements. Reaction kinetics and mechanism are also taught here.
- **CO2:** Students will be acquainted with inorganic preparations and will learn the use of spectrophotometer in practical.

Course Name : Core Course-12

Course Code : CHEM-H-CC-T-12 & CHEM-H-CC-P-12

Broad Area : Physical Chemistry

- **CO1:** Students will be enriched with the knowledge of spectroscopy, photochemistry, surface chemistry & polarisation to complete their knowledge of physical chemistry.
- **CO2:** Students will gain practical experience in performing experiments on spectrophotometry and surface chemistry which will help to educate students to a large extent.

Course Name : Discipline Elective -1

Course Code : CHEM-H-T-DSE-1A & CHEM-H-P-DSE-1A

Broad Area : Polymer Chemistry

- **CO1:**Students will understand the introduction, functionality, importance, crystallisation, crystallinity, nature and structure of polymer, determination of molecular weight of polymer, glass transition, temperature and determination, polymer solution and properties of polymer.
- **CO2:**Practical related to polymer synthesis, polymer characterization and polymer analysis.

Course Name : Discipline Specific Elective - 1

Course Code : CHEM-H-T-DSE-1B & CHEM-H-P-DSE-1B

Broad Area : Inorganic Materials of Industrial Importance

- **CO1:** Students will be introduced to some materials and processes important in industries.

- **CO2:** Practical will include different types of estimation and analysis of industrially important compounds.

Course Name : **Discipline Specific Elective - 2**
Course Code : **CHEM-H-T-DSE-2A& CHEM-P-DSE-2A**
Broad Area : **Analytical methods in Chemistry**

- **CO1:**Qualitative and quantitative aspects of analysis, optical method of analysis by UV-visible, infrared, flame atomic absorption and emission spectrometry, thermal method of analysis, electroanalytical methods and different separation techniques: solvent extraction, chromatography, IC, GLC, TLC, HPLC, role of computers in instrumental methods of analysis.
- **CO2:**Different separation techniques by chromatography, solvent extraction, ion exchange and spectrophotometry.

Discipline Specific Elective - 2

Course Code : **CHEM-H-T-DSE-2B& CHEM-P-DSE-2B**
Broad Area : **Instrumental Methods of Chemical analysis**

- **CO1:**Introduction to spectroscopic methods of analysis, molecular spectroscopy: IR, UV-Visible/ Near IR- emission, absorption and fluorescence, chromatography: gas, liquid, column chromatography, NMR spectroscopy, electroanalytical and radiochemical methods.
- **CO2:**Safe practices in chemistry laboratory and instrumental analysis.

Course Code : **CHEM-H-T-DSE-2C& CHEM-P-DSE-2C**
Broad Area : **Green Chemistry**

- **CO1:**Understand the basic principles of green chemistry,its importance to minimize the use of hazardous chemicals,atom economy, and precautions taken for generation of toxic by products during chemical reactions.
- **CO2:**Understand different industrially important synthesis in less polluted way and future trends of green chemistry for sustainable development for better world. 3. Perform hands on experiments using non toxic materials and water like green solvent. They also have the knowledge to use alternative source of energy in typical green synthesis by avoiding maximum chemical wastage.

SEMESTER- 6

Course Name : **Core Course-13**
Course Code : **CHEM-HCC-T-13 & CHEMH-CC-P-13**
Broad Area : **Inorganic Chemistry**

- **CO1:**Molecular symmetry and point group,Bio-inorganic chemistry: Learning about the essential and beneficial elements in the biological systems, understanding the importance of different biological proteins of Human body, gaining knowledge about different organo-metallic compounds and their industrial applications as catalysts.
- **CO2:**Learning about qualitative detection and analysis of different anions and cations in practical classes.

Course : **Core Course-14**
Course Code : **CHEM-H-CC-T-14 & CHEM-H-CC-P-14**
Broad Area : **Organic Chemistry**

- **CO1:** 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.
- **CO2:** In practical classes get acquainted with some methods of chromatographic techniques of purification and separation including TLC, column and paper chromatography. They also get for the identification of organic compounds by ¹H NMR and IR spectra which will help in research work.

Course Code : CHEM-H-T-DSE-3& CHEM-P-DSE-3

Broad Area : Advanced Physical Chemistry

- **CO 1:** Students will be enriched with the knowledge of spectroscopy, photochemistry, surface chemistry & polarisation to complete their knowledge of physical chemistry.
- **CO2:** In the laboratory they learn about Computer programming based on numerical methods for simple problems.

Course Code : CHEM-H-T-DSE-4& CHEM-P-DSE-4

Broad Area : Project Work

- **CO:** After successful completion of submission of dissertation the student learn how to prepare proposal of research project.

Course Name : Skill enhancement Course-1, CHEMHS-1A, Credit: 2

Course Code : CHEM-H-T-SEC-1

Broad Area : IT Skills for Chemist

- **CO1:** Student may acquire the knowledge of fundamental of mathematical functions, uncertainty in experimental techniques and measurements, algebraic operations on real scalar variables
- **CO2:** They gather knowledge on basis of computer programming
- **CO3:** Hands on chemdraw software, spreadsheet software, numeric modelling, statistical analysis.

Course Name : Skill enhancement Course-1, CHEMHS-1A, Credit: 2

Course Code : CHEM-H-T-SEC-2

Broad Area : Pharmaceutical Chemistry

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

KRISHNAGAR WOMEN'S COLLEGE
Course Outcome or Learning Outcome
Three year B.Sc. degree course
Under CBCS semester system
GENERAL COURSE IN CHEMISTRY
With effect from the session: 2018 – 2019

SEMESTER- 1

Course Name : CHEMG-1, Credit: 4+2
Course Code : CHEM-G-T-1, CHEM-G-P-1
Broad Area : Inorganic Chemistry-I, Organic Chemistry-I

- **CO1:** After the completion of the course students will learn the followings: 1.fundamental of Quantum mechanics and atomic structure, chemical periodicity, acid & base, redox reactions. 2.fundamentals of organic chemistry, concept of Stereochemistry, elementary mechanistic aspects of nucleophilic substitution and Elimination Reactions, fundamental group approach of Aliphatic Hydrocarbons.
- **CO2:** Estimation of sodium carbonate and sodium bicarbonate present in a mixture, estimation of oxalic acid, water of crystallisation in Mohr's salt, Fe (II) ions and Cu (II) ions by different methods. 4. Qualitative Analysis of Single Organic Compounds.

SEMESTER- 2

Course Name : CHEMG-2, Credit: 4+2
Course Code : CHEM-G-T-2, CHEM-G-P-2
Broad Area : Physical Chemistry-I, Inorganic Chemistry-II

- **CO1:** Students will be introduced to basic concepts of kinetic theory of gases and real gases, liquids, chemical kinetics, 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
- **CO2:** Students will have practical knowledge of kinetics, viscosity, surface tension and solubility product using different apparatus. Students will learn to do qualitative semi-micro analysis of mixtures containing three radicals in practical classes with emphasis on the chemistry of different reactions.

SEMESTER- 3

Course Name : CHEMG-3, Credit: 4+2
Course Code : CHEM-G-T-3, CHEM-G-P-3
Broad Area : Physical Chemistry-II, Organic Chemistry-II

- **CO1:** Students will gain knowledge in thermodynamics, chemical equilibrium, ionic equilibria, It will enrich students with the basic understanding of aromatic hydrocarbons, organometallic and aryl halides, will study chemistry of organic compounds alcohols, phenols, ethers, carbonyls.

- **CO2:** In this module, students through practical classes will learn how to determine heat capacity, enthalpy of neutralisation, ionization and hydration, preparation of buffer solution and qualitative analysis of single solid and liquid organic compound(s) which will improve their practical skill as well as the understanding of organic reactions.

SEMESTER- 4

Course Name : CHEMG-4, Credit: 4+2
Course Code : CHEM-G-T-4, CHEM-G-P-4
Broad Area : Physical Chemistry-III, Inorganic Chemistry-III

- **CO1:** Students will learn Raoult's law of dilute solution, phase equilibria, conductance, Faraday's laws of electromotive forces, coordination chemistry in details along with chemistry of d- and f-block elements, CFT.
- **CO2:** They will have the practical knowledge of distribution law, conductance by determining dissociation constant, titration of acid-base conductometrically and potentiometrically.

SEMESTER- 5

Course Name : CHEMGDSE-1, Credit: 4+2
Course Code : CHEM-G-DSE-T-1, CHEM-G-DSE-P-1
Broad Area : Analytical and Environmental Chemistry, Analytical Industrial Chemistry

- **CO1:** They will be acquainted with different techniques of analysis – gravimetric, volumetric, chromatographic. They will learn what is environment, how it is polluted, different waste treatment procedures and their control measures and learn the procedure of preparation of cement, ceramics and glass and their applications, the procedure of preparation of important fertilizers, paints and pigments.
- **CO2:** They will be able to determine hardness of water, rate constant of hydrolysis of ester, titration procedures of strong and weak alkalis using different indicators.

SEMESTER- 6

Course Name : CHEMGDSE-2, Credit: 4+2
Course Code : CHEM-G-DSE-T-2, CHEM-G-DSE-P-2
Broad Area : Advanced organic Chemistry and Industrial Chemistry

- **CO1:** Functional group approach for the following reactions (preparation and reactions) to be studied in context to their structures – carboxylic acids and their derivatives, amines and diazonium salts, amino acids and carbohydrates, they will learn the constituents of paints, varnishes, synthetic dyes, drugs and pharmaceuticals, fats and oils, soaps and detergents, pesticides and food additives.
- **CO2:** They will be able to prepare different organic compounds and their purification, estimation of saponification value of oil/ester/fat, different estimation techniques e.g. available chlorine in bleaching powder, acetic acid in commercial vinegar, amino acid by formol titration.

Krishnagar Women's College

Department of English

B.A. English (Honours)

CBCS Syllabus with effect from 2018-2019

Programme Specific Outcome

PSO1 Academic Objectives

- Students of English Literature are exposed to an interdisciplinary reading and understanding of various texts, apart from British canonical texts, ranging from classical Sanskrit literature, Greco-Roman literature, Afro-American and American literature to Partition literature. They get introduced to a vast panorama of world literature and the socio-cultural-political issues of the period.
- A wide variety of Core papers enables the students to have a glimpse into gender issues, discourse on social discrimination, complex human relationship, political issues and cultural ethos.
- Students are exposed to a plethora of texts through which they have an overview of postcolonial literature, graphic literature and popular literature.
- Students learn to develop an aesthetic approach to the study of literature through the reading of a variety of texts on poetry, drama, fiction and non-fictional prose.
- An entire Core paper contains women's writings and the students learn to appreciate the contribution of women writers down the ages.
- UG CBCS syllabus focuses on literary theory, literary criticism and Research Methodology that help the learners to appreciate the various texts in the light of these critical theories and criticisms.
- The exposure of the students to a wide variety of texts is expected to have a direct bearing on their own writing potential and skill development.

PSO2 Scope and prospects of the Programme.

- On completion of the Undergraduate course, the students are expected to gain proficiency in English as a language of communication when they apply it for the professional purpose.
- A thorough knowledge in the language and literature helps the students pursue higher studies in their chosen area and engage in research activities.
- Graduating with an Honours in English may help students opt for further studies in Mass Communication and Journalism and a career in the said fields.
- Proficiency in English language and literature prepares the students for appearing at various competitive examinations.
- Students can emerge as prospective teachers in schools, colleges and universities.

The inclusivity of the Course aims at the holistic development of the students and enhancement of their critical acumen and intellectual ability.

Krishnagar Women's College
Department of English
B.A .English(Honours)
CBCS Syllabus with effect from 2018-2019
Course Outcome

Semester-I

A.Course Name : Core Course -1

Course Code : ENGH- H-CC-T-1

Course Title : Indian Classical Literature

Course Outcome :

- Students get a comprehensive insight into the world of Indian Epic tradition which includes not only Sanskrit text, but also Tamil epic.
- The Course exposes the students to the world of Classical Indian drama ,a world of love and romance,political intrigue and rivalry.
- The study of Indian Classical Literature offers the students a gateway to an understanding of the theory and practice of contemporary literature.

Course Name : Core Course -2

Course Code : ENGH-H-CC-T-II

Course Title: European Classical Literature

Course Outcome:

- Students get introduced to the world of ancient Greco-Roman literature through translated version of Homeric epic,Greek tragedy of Sophocles,Roman comedy of Plautus,the storehouse of myths and legends in Ovid's *Metamorphoses* and the brilliant Epistles of Horace.
- The study of European Classical literature exposes the students to the socio-political-cultural ethos of the Athenian city state and the literary cultures in Augustan Rome.They also learn to re-read the texts from modern perspective.
- The students learn to appreciate the extent of influence of these ancient texts on the successive generations of writers.They also get acquainted with the canons of Rhetoric and critical theory

of the classical literature that forms the cornerstone of all contemporary literary theories.

B. Course Name : Generic Elective

Course Code : ENGH-H-GE-T-1

Course Title: Academic Writing and Composition

Course Outcome:

- Students from Departments other than English opt for this course.They learn how to develop their writing skills for Academic purpose.The course aims at developing their critical thinking.
- Students are introduced to the conventions of Academic writing,learn to structure an Argument and cite resources in writing a research paper.
- The Course teaches them how to edit and review books and media.

C. Course Name : Ability Enhancement Compulsory Course

Course Code : ENGH-H-AECC-T-1

Course Title : English Communication(L1/L2)

Course Outcome

- The Course intends to teach the students the basics and tools of communication ,verbal and non-verbal and develop their writing skills such as report writing, documenting, note- taking etc.The interactive mode of teaching-learning process helps the students to emerge as adept in both verbal and non-verbal modes of communication.

Semester II

A.Course Name : Core Course-3

Course Code: ENGH-H-CC-T-3

Course Title : Indian Writing in English

Course Outcome :

- The study of Indian Writing in English gives the students a comprehensive overview of the beginning and its development from the pre-independent period to the present day.
- The students get well introduced to the themes and contexts of Indian English literature and learn to read the texts in the light of colonial and post-colonial theories that enhance their perception for the Course.

Course Name : Core Course -4

Course Code : ENGH-H-CC-T-4

Course Title : British Poetry and Drama : 14th -17th Centuries.

Course Outcome :

- On completion of the Course, the students acquire knowledge about Renaissance Humanism that ushers in a transition from the Middle ages to a Golden era of learning.
- Students can have a thorough understanding of the literary as well as socio-political-cultural ethos of the period as reflected in the poetic and dramatic output of the centuries.
- They can trace the evolution of poetry and drama from Chaucer to Shakespeare. It offers them a fair idea of the origin and development of sonnet as a poetic genre and introduces them to the world of Metaphysical poetry which was uniquely unconventional in its treatment of form and content.

B Course Name : Generic Elective**Course Code : ENGH-H-GE-T-2****Course Title : Text and Performance****Course Outcome :**

- The Course on Text and Performance familiarizes the students with a historical overview of Western and Indian theatre.
- The students are exposed to demonstration of acting; they are expected to have a perception of direction, stage props, costume lighting etc.

Semester III**Course Name : Core Course -5****Course Code : ENGH-H-CC-T-5****Course Title : American Literature****Course Outcome :**

- The Course familiarizes the students with a history of the evolution of American literature, its distinctive features and socio-cultural milieu.
- Students can have a comprehensive overview of American literature from a reading and analysis of representative texts on poetry, drama, novel, famous speeches and short stories.
- Students are able to take note of the cultural differences between the British literature and American literature.

Course Name : Core Course-6**Course Code: ENGH-H-CC-T-6****Course Title: Popular Literature**

Course Outcome :

- Students become aware of the genesis, background, and the social milieu in which the term 'popular literature' has gained currency.
- Students are able to differentiate between the canonical and the popular literature.
- The Course focuses on children's literature, non-sense literature and graphic novel.

Course Name : Core Course-7**Course Code : ENGH-H-CC-T-7****Course Title : British Poetry and Drama : 17th and 18th Centuries****Course Outcome :**

- Students do have a fair understanding of the major political, religious and secular movements of the centuries.
- The Course helps the students to appreciate the nature of influence that these movements exerted on literature of the time.
- It offers an exhaustive overview of the major literary output that developed during the period – poetry, drama, satire, mock-epic and novel – all representative of the socio-cultural ethos.

B. Course Name : Generic Elective**Course Code : ENGH-H-GE-T-3****Course Title : Language and Linguistics****Course Outcome :**

- The Course offers an introduction to English Phonetics and phonology, syntax and Semantics.
- Students also acquire knowledge in identifying and explaining figures of speech and scansion of a poem.

Course Name : Skill Enhancement Course**Course Code : ENGH-H- SEC-T-1****Course Title: English Language Teaching****Course Outcome :**

- Students will be able to gain knowledge about the structure of English language and attain language skills.
- Use of technological tools help them to acquire proficiency in the language.

Semester IV:

A. Course Name : Core Course-9

Course Code : ENGH-H-CC-T-9

Course Title : British Romantic Literature

Course Outcome :

- Students grasp the various socio-political movements of the period and their impact on art and literature.
- Students get acquainted with the major literary texts of the period –prose,poetry and fiction.
- An understanding of the critical theory that emerged as a major body of criticism during the Romantic period is attained by the students.

Course Name : Core Course-10

Course Code : ENGH-H-CC-T-10

Course Title : British Literature : 19th Century

Course Outcome :

- Students gain an adequate knowledge in the changes that were taking place in the Victorian period characterized by rapid urbanization,industrialization, growth of capitalism and utilitarianism combined with loss of faith in established religion.
- Students acquire a fair knowledge about these shaping influences by reading selected works of poets and novelists.
- Students learn to explore themes like marriage and sexuality,subjugation of women and situate the writer in the contemporary context.

B.Course Name : Generic Elective

Course Code : ENGH-H-GE-T-4

Course Title : Contemporary India : Women and Empowerment

Course Outcome :

- The Course offers a detailed history of Women's Movements in India and an analysis of gender construction.
- Students can have a fair idea of the political participation of women in India,gender discrimination,laws protecting women's rights and women writers of repute fighting for women empowerment in a male-dominated society.

Course Name : Skill Enhancement Course

Course Code : ENGH-H-SEC-T-2

Course Title : Soft Skills

Course Outcome :

- Students come to learn the definition of soft skill ,practical necessity of teamwork and enhance their efficiency in their studies.
- Students can emerge as prospective leaders as the Course helps them to manifest their leadership qualities.

Semester- V:

Course Name : Core Course-11

Course Code : ENGH-H –CC-T-11

Course Title : Women’s Writing

Course Outcome :

- The Course generates an interest among the students about the history and evolution of women’s writing and feminist discourses.
- Students learn to critically assess the significant texts of women poets and authors of England,America and India.
- The study of Women’s Writing addresses issues like caste,race and gender politics and the students become aware of the different shades of these issues.

Course Name : Core Course-12

Course Code: ENGH-H-CC-T-12

Course Title: The British Literature : The early 20th Century

Course Outcome:

- Students are introduced to the principles of Modernism and the impact of the Great War on art and literature.
- Students learn critically assess the selected texts like short story,novel,drama and poetry.
- Students gain a comprehensive knowledge about the various critical trends of Modernism like psychoanalysis,stream of consciousness,uses of myth and so on.

Course Name : Discipline Specific Elective

Course Code : ENGH-H-DSE-T-1

Course Title : Modern Indian Writing in English Translation

Course Outcome :

- Students are able to have an insight into Indian literature through translation of the works originally written in Bengali, Urdu, Oriya, Punjabi, Hindi, Manipuri and Telugu. They are able to appreciate the diversity of Indian culture and the situations that the works –poetry, novel, drama and short story- depict.
- The Course familiarizes the students with the question of caste and gender-based discrimination And also the voice of resistance that is raised against these discriminations prevalent in society.
- Students are sufficiently equipped with the basic knowledge about the aesthetics of translation and questions of form in twentieth –century literature.

Course Name : Discipline Specific Elective

Course Code : ENGH-H-DSE-T-2

Course Title : British Literature : Post World War II

Course Outcome :

- The Course familiarizes the students with the basic tenets of Postmodernism as reflected in British literature.
- The texts selected give them a fair conception about intertextuality, dystopian view of the world after the Second World War.
- The Course addresses the current issues and the experimentation of the authors with form and content which add to the knowledge of the students.

Course Name : Discipline Specific Elective

Course Code : ENGH-H-DSE-T-3

Course Title : Literary Criticism

Course Outcome :

- Students can form a clear idea about the evolution of literary criticism which is an integral part of the study of literature.
- Students learn to appreciate literary texts in the light of the critical theories enunciated by poets and critics.
- The Course immensely enhances the intellectual faculty of the learners.

Semester VI

Course Name : Core Course-13

Course Code : ENGH-H-CC-T-13

Course Title : Modern European Drama

Course Outcome :

- Students are acquainted with some critical ideas about contemporary socio-political-cultural developments of the period that provide a framework for the genesis of different genres experimenting with unusual form to depict unusual themes.
- Students get familiar with concepts like Epic theatre, Absurdity, realism, existentialism and appreciate the texts in the context of these concepts.
- Students acquire a good idea about the innovative and modern trends of European drama.

Course Name : Core Course-14

Course Code : ENGH-H-CC-T-14

Course Title : Postcolonial Literature

Course Outcome :

- The Course provides the students with an outline of the broad concepts and history of postcolonialism .
- The study of different texts from various parts of the post-colonial countries like Africa, India reflecting the voice of resistance against colonial hegemony enriches the knowledge of the students.
- Students learn to read postcolonial literature as a reflection of the voice of protest raised among the marginalized section of society.

Course Name : Discipline Specific Elective

Course Code : ENGH-H-DSE -T-4

Course Title : Literary Theory

Course Outcome :

- Students are exposed to an exhaustive study of different modern literary theories like Marxism, Orientalism, Poststructuralism etc.
- The Course teaches the students to apply the theories in relation to the texts that they read and interpret them.

- The Course covers the major movements in literary theories during the twentieth century and introduces them to the works of eminent thinkers and theorists.

Course Name : Discipline Specific Elective

Course Code : ENGH-H-DSE -T-5

Course Title : Partition Literature

Course Outcome :

- The Course offers a nuanced depiction of the trauma of partition, the source of violence and subsequent displacement.
- Students learn to critically assess the impact of communalism, violence, homelessness and exile, and the plight of women in the partition.
- The texts are representative of the experiences of the partition in the Indian sub-continent and the vast body of literature is a manifestation of the fact that it has evolved into a distinct sub-genre of Indian writing in English.

Course Name : Discipline Specific Elective

Course Code : ENGH-H-DSE -T-6

Course Title : Research Methodology

Course Outcome :

- The Course prepares the students for higher studies in the field of research and acquaints them with the process and steps of research.
- Students learn how to conceptualize and draft research proposals, write a term paper and the use of bibliography.
- Students gain a fair knowledge about the use of style manuals.

Krishnagar Women's College

Department of English
B.A.English(Programme/General)
CBCS Syllabus with effect from Academic Session 2018-2019
Programme Specific Outcomes

PSO1 Academic Objectives

- The entire syllabus contains a variety of selections from British literature to Indian and this variety of text makes the students feel interested in the syllabus.
- The students, on completion of the Course, acquire an insight in the predominant features of the works written by British poets, dramatists and authors.
- Students get interested in Indian English literature and partition literature depicting the violence and trauma of displacement in post-partition India.
- The Course introduces the students to the fundamentals of verbal and non-verbal communication and develops in them writing skills as well as speaking skills.

PSO2

Scope and Prospects of the Programme

- After graduating with English as a subject, students can opt for certificate or diploma courses in Mass Communication and Journalism.

Department of English
B.A. English(Programme/General) Course
CBCS syllabus with effect from the Academic session 2018-2019
Course Outcomes

Semester 1

Course Name : Language Compulsory Course(LCC)

Course Code: ENGH-G-LCC-T-1

Course Title : Indian Writing in English

Course Outcome :

- Oncompletion of the Course ,students acquire knowledge in the genesis and evolution of Indian English Literature from Toru Dutt to the postmodern period.
- They learn to appreciate and critically assess the nuances of the works of Derozio to those of Kamala Das and Jayanta Mahapatra of modern times.

Course Name : Core Course

Course Code: ENGH-G-CC-T-1

Course Title: British Poetry and Drama: 17th and 18th Centuries

Course Outcome :

- Students can have a thorough understanding of the literary as well as socio-political-cultural ethos of the period as reflected in the poetic and dramatic output of the centuries.
- The Course introduces them to the world of epic and mock-epic.They also have a glimpse into the world of Revenge tragedy and fiction written in the period.

Course Name : Ability Enhancement Compulsory Course

Course Code : ENGH-G-AECC-T-1

Course Title : English Communication (L1)

Course Outcome :

- The Course intends to teach the students the basics and tools of communication ,verbal and non-verbal and develop their writing skills such as report writing, documenting, note- taking

etc. The interactive mode of teaching-learning process helps the students to acquire fluency in English.

Semester- II

Course Name : Core Course

Course Code: ENGH-G-CC-T-2

Course Title: British Literature : 18th Century

Course Outcome :

- Students acquire knowledge in a diversified range of literary genres like satire, elegy, novel, and drama –all representative texts depicting the socio-political-cultural milieu as well as the current literary trends.

Semester- III

Course Name : Language Core Course

Course Code: ENGH-G-LCC-T-2

Course Title: Literature of the British Isles

Course Outcome :

- The Course is not elaborate and students feel interested in reading short poems, short story, an interesting essay written by Bernard Shaw and a one act play.

Course Name : Core Course

Course Code: ENGH-G-CC-T-3

Course Title: British Romantic Literature

Course Outcome :

- The Course offers the students a plethora of poetic masterpieces all representative of the Romantic era. Students read with interest the Gothic novel, the novel by Mary Shelley.

Course Name : Skill Enhancement Course

Course Code : ENGH-G-SEC-T-1

Course Title : English Language Teaching

Course Outcome :

- Students will be able to gain knowledge about the structure of English language and attain language skills.
- Use of technological tools to help them acquire proficiency in the language.

Semester -IV

Course Name : Core Course

Course Code: ENGH-G-CC-T-4

Course Title: British Literature : 19th Century

Course Outcome :

- The Course acquaints the students with representative authors of the 19th Century. The selected texts give them an overview of the changes that acted as shaping spirit of the age.

Course Name : Skill Enhancement Course

Course Code : ENGH-G-SEC-T-2

Course Title : Soft Skills

Course Outcome :

- Students come to learn the definition of soft skills, practical necessity of teamwork and enhance their efficiency in their studies.
- Students can emerge as prospective leaders as the Course helps them to manifest their leadership qualities.

Semester -V

Course Name : Discipline Specific Elective

Course Code : ENGH-G -DSE-T-1

Course Title : Modern Indian Writing in English Translation

Course Outcome :

- Students are able to have an insight into Indian literature through translation of the works originally written in Bengali, Urdu, Oriya, Punjabi, Hindi, Manipuri and Telugu. They are able to appreciate the diversity of Indian culture and the situations that the works –poetry, novel, drama and short story- depict.
- The Course familiarizes the students with the question of caste and gender-based discrimination And also the voice of resistance that is raised against these discriminations prevalent in society.

Course Name : Generic Elective

Course Code : ENGH-G -GE-T-1

Course Title: Academic Writing and Composition

Course Outcome:

- Students learn how to develop their writing skills for Academic purpose. The Course aims at developing their critical thinking.
- Students are introduced to the conventions of Academic writing ; learn to write in their own words, and the art of summarizing and paraphrasing.
- The Course teaches them how to edit and review books and media.

Course Name : Skill Enhancement Course

Course Code : ENGH-G-SEC-T-3

Course Title : Business Communication

Course Outcome :

- The Course introduces the students to the essentials of Business Communication; teach them how to write a project report, minutes of meetings, E-correspondences etc.
- The interactive teaching-learning sessions in the classroom, viva for internal assessment and intensive exercises on spoken English help the students in future placement.

Semester –VI

Course Name : Discipline Specific Elective

Course Code : ENGH-G -DSE -T-2

Course Title : Partition Literature

Course Outcome :

- Students learn to critically assess the impact of partition resulting in violence, displacement and the plight of women.
- The texts are representative of the experiences of the partition in the Indian sub-continent and the vast body of literature is a manifestation of the fact that it has evolved into a distinct sub-genre of Indian writing in English.

Course Name : Generic Elective

Course Code : ENGH-G -GE-T-2

Course Title : Contemporary India : Women and Empowerment

Course Outcome :

- The Course offers a detailed history of Women's Movements in India and an analysis of gender construction.
- Students can have a fair idea of the political participation of women in India,gender discrimination,laws protecting women's rights and women writers of repute fighting for women empowerment in a male-dominated society.

Course Name : Skill Enhancement Course

Course Code : ENGH-G-SEC-T-4

Course Title : Technical Writing

Course Outcome :

- The Course offers an exhaustive study and practice in improving one's writing skill when one comes to write formal reports,manuals,letters,notices,agenda,minutes etc.

**KRISHNAGAR
WOMEN'S COLLEGE
UNDERGRADUATE DEPARTMENT OF
GEOGRAPHY**

**B.Sc. Geography (Hons)
Under CBCS Syllabus**

With effect from 2018-19

Programme Specific Outcomes

After successful completion of the UG course in Geography students will be able to:

- Gain basic theoretical and practical concepts on various fields of geography.
- Reveal the comprehensive and systematic knowledge of the subject.
- Deal with current geographical issues and their solutions.
- Evaluate critically various aspects of the subject in respect of spatial and temporal dimensions.
- Prepare and interpret maps and diagrams to illustrate various facets of the subject from global to local level on various time scales.
- Acquire knowledge about various statistical methods, remote sensing and GIS and can apply these knowledge in various application fields.
- Learn about research activities, can extract the ground level realities through survey work and will be able to prepare project report.
- Apply the acquired skills obtained from this discipline in their professional life in future.

KRISHNAGAR WOMEN'S COLLEGE
Course Outcome or Learning Outcome Th
ree year B.A. /B.Sc. degree
course Under CBCS semester
system HONOURS COURSE IN GEOGRA
PHY

With effect from this session: 2018–2019

Course Name: Core Course-1

Course Code: GEO/H/CC/T/01

Topic Name: Geotectonics and Geomorphology

Course Outcome: After successful completion of this course students will be able to:

1. Understand the geological timescale, interior of the earth, isostasy, plate tectonics and various types of fold and faults.
2. Students will be able to know weathering, mass wasting, different types of structure, development of landforms.
3. Learn about the models of landscape evolution.
4. Understand the different geomorphic processes and associated landforms like fluvial, coastal, glacial, Aeolian, karst.

Course Name: Core Course-2

Course Code: GEO/H/CC/T/02 and GEO/H/CC/P/02

Topic Name: Cartographic Techniques and Geological map study

Course Outcome: After successful completion of this course students will be able to

1. Understand the components and types of a map.
2. Learn about different types of scale
3. Know about map projection.
4. Understand coordinate system, concept of UTM projection, system of measurement.
5. Learn about reference scheme of fold and open series of topographical map of Survey of India and also its margin concept.
6. Graphically construct plain, comparative, diagonal and vernier scales.
7. Construct different map projections.
8. Learn about topographical maps.
9. Delineate of drainage basin from Survey of India topographical map.
10. Construct and interpret relief profiles and order stream on a drainage basin.
11. Identify the correlation between physical and cultural features from Survey of India topographical maps.
12. Interpretation of geological maps with unconformity and intrusion on unclinal and folded structures.
13. Draw geological cross sections.

Course Name: Core Course-3

Course Code: GEO/H/CC/T/03

Topic Name: Human Geography

Course Outcome: After the completion, the students will learn about

- (i) Human civilization, evolution of human, concept of race and ethnicity.
- (ii) Space, society and cultural regions.
- (iii) Evolution of human society.
- (iv) Population growth and distribution, Population

c on.
o (v) Different aspects of rural and urban settlements.
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Course Name: Core Course-4
Course GEO/H/CC/T/04 and GEO/H/CC/P/04
Code:TopicName
:
Cartograms, surveyandThematicMapping

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto:
(i) Learnthebasicaspectsofmapdrawing,techniquesofmapdrawing.
(ii) Distributionofpatternofmapandscale.
(iii) Drawthematicmaps:choropleth,dotsandspheres,pie.
(iv) Drawhythergraph,climograph,andwindrosediagram.
(v) Constructandinterpretwindrosediagram.
(vi) Performtraversesurveyusingprismaticcompass.
(vii) PerformprofilesurveyusingdumpyLevel.
(viii) Determination of height of objects using Transit Theodolite.

Course Name: Core Course-5
Course GEO/H/CC/T/05
Code:TopicName:
Climatology

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto:
1. UnderstandtheNature,compositionandlayeringoftheatmosphere
2. Comprehendtheelementsofweatherandclimateandtheirimpacts.
3. Learntheinteractionbetweentheatmosphereandtheearth'ssurface.
4. Knowaboutupperatmosphericconditions,Jetstream,fronts,andcyclonicfeatures.
5. Learndifferentapproachestoclimateclassificationandtheclimaticregions.
6. AnalyzethedynamicsoftheEarth'satmosphereandglobalclimate.
7. UnderstandtheGreenhouseeffectandozonelayer
8. Know about climatic classification after Koppen and Thornthwaite.

Course Name: Core Course-6
Course Code:Topic Name: GEO/H/CC/T/06 and GEO/H/CC/P/06
ame: Statistical Methods in Geography

Course Outcome: After successful completion of this course students will be able to:

1. Learn the significance of statistics in geography.
2. Understand the importance of the use of data in geography.
3. Recognize the importance and application of Statistics in Geography.
4. Interpret statistical data for a holistic understanding of geographical phenomena.
5. Know about different types of sampling.
6. Develop an idea about theoretical distribution and scales of measurement.
7. Detailed knowledge of statistical techniques to analyse the quantitative data.
8. Gain knowledge about correlation, regression, and time series analysis.
9. Construct data matrix.
10. Compute and interpret frequency table, measures of central tendency and dispersion.
11. Draw samples using different sampling techniques.
12. Compute and interpret scatter diagram, correlation and regression.

Course Name: Core Course-7
Course Code:Topic Name: GEO/H/CC/T/07
ame: Geography of India

Course Outcome: After successful completion of this course students will be able to

1. Understand detailed physiographic, climatic, soil, vegetation features of India.
2. Understand about population of India.
3. Understand details of different tribes of India.
4. Learn about the agricultural regions and green revolution in India.
5. Learn about the distribution of mineral, power resources and industrial distribution.
6. Understand details of Physical and cultural features of West Bengal.

Course Name: Core Course-8
Course Code:Topic Name: GEO/H/CC/T/08
ame: Regional Planning and Development

Course Outcome: After successful completion of this course students will be able to

1. Understand types of region as an integral part of geographical study.

2. They can know about delineation of region
3. Gain knowledge about types, objectives, tools and needs of regional planning with special reference to India
4. Gain knowledge about the various indicators of development as well as human development
5. Build an idea about the theories and models for regional development
6. Appreciate the varied aspects of under development and regional disparity, in order to formulate measures of balanced development.

Course Name: Core Course-9
Course Code: GEO/H/CC/T/09
Topic Name: Economic Geography

- Course Outcome:** After successful completion of this course students will be able to
1. Assess the significance of Economic Geography, the concept of economic man
 2. They will also gain knowledge about economic distance and transport cost
 3. Understand the concept of economic activity
 4. Analyze the factors of location of agriculture and industries
 5. Gain knowledge about different types of Economic activities
 6. Understand the concepts of transport network and flows
 7. Assess the significance and functioning of international trade and economic blocks.

Course Name: Core Course-10
Course Code: GEO/H/CC/T/10 and GEO/H/CC/P/10
Topic Name: Environmental Geography

- Course Outcome:** After successful completion of this course students will be able to
1. Gain knowledge about different concepts, scope of environmental geography
 2. Develop an idea about space-time hierarchy of environmental problems
 3. Build an idea about current environmental issues like pollution, waste management etc.
 4. Learn about global environmental programmes and policies
 5. They can know how to prepare a questionnaire for perception survey on environmental problems
 6. Develop concepts and skills regarding preparation of checklist for Environmental Impact Assessment
 7. Develop skills regarding interpretation of air quality using secondary data sources.

Course Name: CoreCourse-11
Course GEO/H/CC/T/11 and GEO/H/CC/P/11
Code:TopicName: ResearchMethodology and Fieldwork

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto

1. Learnthesignificanceoffieldworkandresearchingeographicalstudies.
2. Knowaboutdifferenttypesoffieldtechniquesanddevelopideasaboutresearchdesign,problems.
3. Understandthefieldethicsanddifferenttoolsoffieldstudy.
4. Conductfieldworkonphysicalandsocio-economicaspectsofgeographicallandscapes.
5. Learntheprocstocollectprimarydatafromthefieldandtousesecondarydata.
6. Preparefieldreportwithsuitabletables,mapsanddiagramsbasedoncollecteddataandto representtherealitiesofthestudyarea.
7. Conductfieldworkonphysicalandsocio-economicaspectsofgeographicallandscapes.
8. Learntheprocstocollectprimarydatafromthefieldandtousesecondarydata.
9. Preparefieldreportwithsuitabletables,mapsanddiagramsbasedoncollecteddataandto representtherealitiesofthestudyarea.
10. Preparedifferentfieldmapsanddiagrams.

Course Name: CoreCourse-12
Course GEO/H/CC/T/12 and GEO/H/CC/P/12
Code:TopicName: Remote Sensing and GIS

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto

1. Performgeoreferencingofmapsandimagesusingopen-sourcesoftware.
2. PrepareFCCandidentifyfeaturesusingstandardFCCandotherbandcombinations.
3. Digitisefeaturesandattachdata.
4. Performoverlayanalysisandprepareannotatedthematicmaps:choropleth,piechartand bargraphs.

Course Name: CoreCourse-13
Course GEO/H/CC/T/13
Code:TopicName: EvolutionofGeographicalThought

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto:

1. IdentifytheevolutionofthephilosophicalthoughtsofGeography/EarthSciences.
2. EscalatecontributionofthegreatthinkersinGeography/EarthSciences.
3. ComparativestudyofdifferentschoolsofgeographicalthoughtdevelopedindifferentPeriod/Phase.
4. Discussingtheevolutionofgeographicalthoughtfromancienttomodern topost-modern times.
5. EstablishingrelationshipofGeography withother allieddisciplines
6. Changingscenariosofman-environmentrelationshipsthroughtime.

Course Name: CoreCourse-14
Course GEO/H/CC/T/14 and GEO/H/CC/P/14
Code:TopicName: Disaster Management

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto:

1. Understandtheconceptandclassificationofhazardsanddisasters.
2. Gaintheknowledgeonapproachestohazardsstudy.
3. Knowaboutthehumanresponsestothehazards.
4. HavecomprehensiveknowledgeonvariousdisastersinIndiawithspecialreferencetotheconsequencesandmitigationmeasures.
5. Writeareportondisasterincorporatingapreparednessplan.
6. Prepareoneindividualreportbasedoncasestudyondisastersthat haveoccurredinWestBengal.

Course Name: DisciplineSpecificElective-1
Course Code: GEO/H/DSE/01
Topic Cultural and Settlement Geography

Name:CourseOut

come: Aftersuccessfulcompletionofthiscoursestudentswillbeableto

1. HaveknowledgeoftheCultural Geography, cultural hearth and cultural diffusion.
2. Learnaboutthecultural diversity and racial groups.
3. HavecomprehensiveknowledgeofSettlement Geography.
4. Learnabouttheconceptofmorphology, layout and types of settlement.
5. Gainknowledgeof types and classification ofRural and urban settlement.

Course Name: DisciplineSpecificElective-2
Course GEO/H/DSE/02
Code:TopicName: PopulationGeography

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto

1. LearnaboutthedevelopmentofPopulationGeography.
2. Havecomprehensiveknowledgeofpopulationdistributionandtheoriesrelatedtoit.
3. KnowaboutthegrowthanddistributionofIndianandWorldpopulation.
4. HaveconceptofvariouscomponentofPopulationGeographylikeage-sexstructure,fertility,mortality,populationcomposition,migration.
5. Learnaboutdifferentpopulationpoliciesindevelopedandlessdevelopedcountries.
6. Gainknowledgeofvariouscontemporaryissuesonpopulationstudies.

Course Name: DisciplineSpecificElective-3
Course GEO/H/DSE/03
Code:TopicName: ResourceGeography

CourseOutcome: Aftersuccessfulcompletionofthiscoursestudentswillbeableto

1. Understandtheconceptandclassificationofresources
2. AppraisaloftheconceptofConservationofNaturalResources:ForestandWater
3. AnalyzetheproblemsofresourcedepletioninviewofSustainableResourcedevelopmentattempts
4. Examinethecontemporaryenergycrisisandassessthefuturescenario:regionalandglobalscale
5. AssessingdifferentmanagementpracticesofEnergyResources:ConventionalandNon-Conventional

6. Appreciate the concept of Limits to Growth, resource sharing and sustainable use of resources.

Course Name: Discipline Specific Elective-4
Course GEO/H/DSE/04
Code:TopicName: Soil and Bio Geography

Course Outcome: After successful completion of this course students will be able to

1. Have knowledge of the soil formation processes, soil profiles.
2. Learn about the physical and chemical properties of soil.
3. Have comprehensive knowledge of soil erosion and degradation and soil classification.
4. Learn about the concept of biosphere, ecosystem, ecotone, community, niche, succession, ecology, trophic structure, food chain, food web, biomes, biogeochemical cycles.
5. Gain knowledge of biodiversity and man environment relation.

Course Name: Skill Enhancement Course-1
Course GEO/H/SEC/P/01
Code:TopicName: Computer Basic and computer application

Course Outcome: After successful completion of this course students will be able to:

1. Understand the principles of numbering system and binary arithmetic.
2. Computation of rank, mean, median, mode and SD.
3. Preparation of Histogram and Scatter diagram.
4. Learn about internet surfing.

Course Name: Skill Enhancement Course-2
Course GEO/H/SEC/P/02
Code:TopicName: Advanced Spatial Statistical Techniques

Course Outcome: After successful completion of this course students will be able to

1. Learn about probability theory and their application in geography.
2. Understand various sampling techniques and sampling estimates
3. Gain knowledge about correlation and regression
4. Recognize the importance and application of time series analysis

KRISHNAGAR WOMEN'S COLLEGE
Course Outcome or Learning Outcome Th
ree year B.A. /B.Sc. degree
course Under CBCS semester
system GENERAL COURSE IN GEOGRAP
HY

Course Name: Course Code: Topic Name: **With effect from this session: 2018–2019**

Core Course-1
GEO/G/CC/T/01 and GEO/G/CC/P/01

Geotectonics and Geomorphology

Course Outcome:

After successful completion of this course student will be able to

1. Understand the basic concept of physical geography
2. Learn internal structure of the earth, Plate Tectonics
3. Understand the influence of rocks on topography.
4. Learn the fluvial process and landforms, cycle of erosion.
5. Understand about climatic phenomenon, planetary wind system, tropical cyclone.
6. Learn about Hydrological cycle, Ocean surface characteristics.
7. Preparation of map scale, cartograms and climograph.

Course Name: Course Code: Topic Name:

Core Course-2
GEO/G/CC/T/02 and GEO/G/CC/P/02

Climatology, Soil and Bio Geography and Surveying

Course Outcome:

The students will learn about

- (1) Elements of weather and climate
- (2) Learn about precipitation, cyclone and climatic classification.
- (3) Learn about physical and chemical properties of soil.
- (4) Understand about ecology, ecosystem and environment.
- (5) Anthropological aspects and environment.
- (6) Learn about the concept of surveying.
- (7) Preparation of closed traverse by Prismatic compass and Dumpy level.

Course Name: Course Code: Topic Name:

Core Course-3
GEO/G/CC/T/03 and GEO/G/CC/P/03

Human Geography and map interpretation

Course Outcome:

After successful completion of this course students will be able to:

1. Human civilization, evolution of human, concept of race and ethnicity.
2. Space, society and cultural regions.
3. Evolution of human society.
4. Population growth and distribution, Population composition.
5. Different aspects of rural and urban settlements.
6. Learn about the concept of map projection.
7. Interpretation of Topographical map and weather map.

Course Name: Core Course-4
Course Code: GEO/G/CC/T/04

Topic Environmental Geography and Field work

Name:CourseOut

After successful completion of this course students will be able to

come:

1. Develop an idea about human-environment relationships.
2. Build an idea about ecosystem.
3. Build an idea about current environmental issues like pollution, waste management, soil erosion etc.
4. Know about environmental programme and policies.
5. Preparation of survey Schedule and prepare a field report.

Discipline Specific Elective-1

Course

GEO/G/DSE/T/01

Name:Course

Code:TopicNa

Geography of India

me:

After successful completion of this course students will be able to

Course Outcome:

1. Understand detailed physiographic, climatic, soil, vegetation features of India.
2. Understand about population of India.
3. Understand details of different tribes of India.
4. Learn about the agricultural regions and green revolution in India.
5. Learn about the distribution of mineral, power resources and Industrial distribution.

Course Name: Ability Enhancement Compulsory Course (AECC)

Course Code: AECC

TopicName:

Environmental Studies

After the completion, the students will learn the basic aspects of environmental studies and sustainable development of human civilization.

-*KRISHNAGAR WOMEN'S COLLEGE
UNDERGRADUATE DEPARTMENT OF HISTORY
B.A HISTORY HONS.CBCS SYLLABUS
YEAR OF INTRODUCTION---2018-2019
PROGRAMME SPECIFIC OUTCOMES--PSO

The under graduate course in history has given strong grounding in the different areas of subjects to the students. This would help them while deciding on the specialization for the M.A course and later

If they enter the world of research and teaching.

A sense of history and enthusiasm in the subject was generated which presumably enabled them to appreciate our past and the importance of preserving our cultural heritage.

They were introduced to the writings of eminent authors and debates in the subject.

This grounding in the subject equipped them to pursue higher studies and research.

Through skill enhancement course the students got acquainted with the functions of archives, which would help them to pursue research work in the future.

The undergraduate course in history also opened many career opportunities like a career in teaching museums or the field of archaeology.

They can also opt for administrative services in which their knowledge of history would be great help

KRISHNAGAR WOMEN'S COLLEGE

COURSE OUTCOME OR LEARNING OUT COME

THREE YEAR B.A/B.S.C DEGREE COURSE UNDER CBCS SEMESTER SYSTEM

HONS COURSE IN HISTORY, WITH EFFECT FROM THE SESSION 2018-2019

Course Name Core Course I

Course Code :HISH-CC_T_1

Topic Name Paper CC I : History of Early India ,from remote past to the end of Vedic polity.

After finishing the course the students are enable to understand about

1: Historiography of early India – historical interpretations –thoughts of various Schools.-.

2: Evolution from paleolithic to neolithic cultures - chalcolithic societies from Baluchistan to Gujrat - growth and decline of pre-state non-iron urban culture - the Harappan Civilization ; problem of the Indus script - journey from proto-historic to historic India.

3: Legacy of the Harappan Culture - the Aryan penetration and the Anglo-Oriental debate ; beginning of iron age and settled agriculture - patterns of settlement and cultural changes - emergence of caste society, organized religion and state territoriality - the Vedic literature.

4:The non-Vedic political economy of the 16 Mahajanapadas - spread of protestant religions – Ajivikism, Jainism and Buddhism ; commercial and urban growth of India - rise of Magadha as an imperial power.

Course Name Core Course II

Course Code HISH –CC-T_2

Topic Name Paper CC II :Social Formation and Cultural pattern of the Ancient and early Medieval world

Course outcome: After finishing the course the students are enable to understand about

1: Pre-historic and proto-historic cultures beyond India – beginning of agriculture and animal husbandry – searches into the history of Africa, the Aztec Civilization and the Inca Society.

2: Bronze Civilizations of Egypt, Mesopotamia, China and eastern Mediterranean lands.

3: The Polis and slave society of ancient Greece - rise of ancient Rome – decline of the Roman Empire – agrarian economy and trade – the Church and the question of religion.

4: Societies in Central Islamic Lands - spread of Islam – the Ummah, Caliphite State, Shariah and Sufi culture.

Course Name Core Course I II

Course Code :HISH-CC-T-3

Topic Name Paper CC III : Ancient India from the Maurya to late Gupta period.

Course outcome: After finishing the course the students are enable to understand about

1:TheMaurya rule in Magadha - Asoka’s Dhamma and administration - the policy of cultural conquest.

2: The post-Maurya India of the Kushanas, Satavahanas and Tamil powers, Chera,Chola and Pandya - new trends in economy and society – peasantization of tribes and changes in the caste system ; spread of megalithic culture - splits in Jainism and Buddhism - Vaishnavism, Saivism and Tantricism.

3: Age of the Guptas - consolidation of Second Magadhan empire - debates on golden age, brahminical revival and growth of feudalism - decline of the Gupta power and beginning of political decentralization of India - assessing Harshavardhana as the last great emperor.

4: Early India in retrospect – society and culture and environment - literature and philosophy - art and architecture - science, technology and guild - trade and industry.

Course Name Core Course I V

Course Code :HISH-CC-T-4

Topic Name Paper CC I V : History of Early Medieval India.

Course outcome: After finishing the course the students are enable to understand about

1: Sources of History and historiography of the period - contemporary texts and travelogues - indigenous literature and archaeology.

2: From centralized to decentralized India - The Rajputs of North India - Palas and Senas in Bengal - Kingdoms of the South – The Pallavas, Rashtrakutas, Chalukyas and Cholas.

3: Condition in the pre-Sultanate period - Polity, Society, Economy, Religion and Culture - towards transition.

4: Northern India under the Delhi Sultanate - the Turkish invasions from 997 to 1206 AD - consolidation of the Sultanate from 1206 to 1286 AD - the Khalji Revolution and the omnipotent state under the Khaljis - The Tughluq period of reforms and counter reforms - decline of the Delhi Sultanate

Course Name Core Course V

Course Code :HISH-CC-T-5

Topic Name Paper CC V: The Delhi Sultanate in Retrospect

Course Outcome: After finishing the course the students are enable to understand about

-1: The successor states of Bijohnagar, Bahmani and Bengal - society, economy, art, architecture and literature.

2: Delhi on the eve of the Mughal ascent - Timur's invasion - the Sayyids and Lodis - Babur's adventure - Babur's central Asian connection - Humayun's misfortune - Sher Shah Sur and Afghan rule in India.

3.Economy of Sultanate India –changes in land revenue administration-new agrarian relations –industry and urbanization –trade and currency.

4.Ideas of state and kingship –moves from theocracy to secular administration –development of bhakti and sufi philosophy language , literature ,art and architecture.

Course Name Core Course VI

Course Code:HISH-CC-T-6

Topic Name Paper CC VI:--;Rise of the Modern West

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Course Outcome :: After finishing the course the students are enable to understand about

-1: Structural features of European feudalism - the Crusades and the 14th century crisis of feudalism - decline of feudalism in western Europe but its survival in eastern Europe . -2: Socio-economic roots of Renaissance - spread of new social ideas - secularism and humanism - art, architecture, science and literature - the printing revolution.

3: Reformation – origin, course and results - progress of the movement from Luther to Calvin ; the counter Reformation.

4: Europe from Thirty Years' War to Seven Years' War – rise of early nation states, Spain France England and Russia.

,Course Name Core Course :VII

Course Code : HISH-CC-T-7

Topic Name Paper CC :VII :Europe in Transition

Course Outcome :: After finishing the course the students are enable to understand about

1: Geographical explorations and overseas empires of Portugal and Spain - shift of economic balance from the Mediterranean to the Atlantic ocean - commercial and price revolution.

-2: Seventeenth century crisis in Europe - mercantilism and economic transition - Glorious Revolution in England and great changes in political, economic and state structure; from scientific to Industrial Revolution - rise of industrial societies in Europe.

-3: American War of Independence – birth of new democratic politics.

4: From the age of Enlightenment to the Age of Liberalism - from feudalism to capitalism, the transition

, Course Name Core Course :VIII

Course Code :HISH-CC-T-8

Topic Name Paper CC :VIII:History of Mughal of India

Course Outcome :: After finishing the course the students are able to understand about

1: Survey of sources and different aspects of historiography of Mughal India – reading of the texts of AbulFazal, Badauni, Abdul Hamid Lahori and Bernier - Studies in the writings of Sir JadunathSarkar and historians from Delhi and Aligarh schools.

-2: Making of the Mughal State from Akbar to Aurangzeb - state and religion - management of land and agriculture - evolution of the administrative system - mansab and jagir - the Mughal ruling classes - nobility and zamindars - the peasants and village community.

-3: Trade, commerce, and monetary system - routes of trade and commodity pattern of internal transactions - overseas trade and commodity pattern - markets and monetary system

4: Urban centres - morphology of cities - urban economy – crafts, technology and industry - imperial karkhanas - urban social structure, merchant communities, bankers, artisans, craftsmen and labourers.

,Course Name Core Course :IX

Course Code:HISH-CC-T-9

Topic Name Paper CC :IX:History of Late Medieval India

Course Outcome :: After finishing the course the students are enable to understand about

1: Society and culture – religion of the masses - language, music and literature - art and architecture.

2: Regional polity – the Marathas under Shivaji and the Peshwas - the Sikh challenge.

3: Decline of the Mughal Empire - agrarian crisis and the eighteenth century debate

4:Emergence of successors states-Bengal, Awadh, Mysore and Hyderabad .

,Course Name Core Course :X

Course Code:HISH-CC-T-10

Topic Name Paper CC :X:Rise of Modern Europe

Course Outcome :: After finishing the course the students are enable to understand about.

1: Historiography – studies in the writings of Alfred Cobban, Lefebvre, Eric Hobsbawm, E.P.Thompson, David Thomson and A.J.P.Taylor.

2: The eighteenth century background to the French Revolution - society, economy, and polity ; the philosophers and the ideological revolution

. 3: People in the French Revolution – aristocracy, bourgeois, peasants and workers - the Constituent Assembly and its achievements - Girondins and Jacobins - the Reign of Terror and the Rise and fall of the Jacobin Republic - the Thermidorian reaction and the Directory ; the Napoleonic Era - interpreting the French Revolution.

4: The unity and disunity in Europe in 1815 - the Vienna Congress and rise of Metternich - struggle between forces of continuity and change.

Reading 1. Eric Hobsbawm : The age of Revolution (1789-1848)

Course Name Core Course:XI

Course Code:HISH-CC-T-11

Topic Name PaperCCXI:History of Modern India from the beginning of colonialrule to the Great Revolt.

Course Outcome :: After finishing the course the students are enable to understand about.

1: Understanding Modern Indian History- historiography, concepts, terminologies, approaches.

2: Expansion and Consolidation of British Rule with special reference to Bengal, Maharashtra, Mysore, Punjab and Awadh ; colonial state and its ideology - rule of law, orientalism, utilitarianism.

3: Rural Economy and Society – land revenue settlements - agrarian structure and transformation debate - commercialization of agriculture - rural stratification thesis, peasants and landless labourers - detribalization and the environmental question - de-industrialization, rural credit and indebtedness.

4: Nature of colonial exploitation - drain of wealth - famines in India - monetization and entitlement debate - resistance from the tribes and peasants till the Revolt of 1857 - analysing the Revolt and its aftermath.

Course Name Core Course:XII

Course Code:HISH-CC-T-12

Topic Name PaperCC XII :History of Modern India from Renaissance to Independence.

Course Outcome :: After finishing the course the students are enable to understand about.

1: The cultural revolution of the nineteenth century - critique of Young Bengal Movement, Bengal Renaissance, social and religious reforms - colonisation of education - the women's question.

2: Re-industrialisation of India following the spread of railway network - colonial fiscal policy and the balance of Indian trade - rise and growth of the Indian capitalist and working class.

3: Interpreting Indian nationalism – messianic and developmental - different phases of the nationalist struggle - politics of association and politics of union - different political parties and their ideologies - role of Gandhi, Tagore, Subhas Bose, Nehru and Jinnah - workers' and peasants' movements.

4: Colonial policy of divide and rule - religious polarisation of the nationalist leaders - demand for Pakistan and partition of 1947 - the refugee question - struggle for new developmental economy, democracy and security in the bi-polar world.

Course Name Core Course:XIII

Course Code:HISH –CC-T-13

Topic Name PaperCC XIII : Modern Europe : From Nationalism to Socialism.

Course Outcome :: After finishing the course the students are enable to understand about.

1: The age of Revolutions – the national revolutions (1830-1850) - the liberal revolutions and the transformation of Russian society - remaking of eastern Europe.

2: The economic revolutions, consolidation of capitalism and formation of big national states in Germany and Italy - imperial advances before and after Bismarck – developments in eastern Europe - the new balance of power in Europe - Europe divided.

3: Politics of democracy - industrial society and its critics - new concept of welfare state and revolution in medical science - reason, social change and social reform - the new woman - arts transformed.

4: The socialist challenge - from utopian to Marxian socialism - the German, French and Russian variety of socialist politics.

Course Name Core Course:XIV

Course Code:HISH-CC-T-14

Topic Name PaperCCXIV:Trends in World Politics from the First to the Second World War.

Course Outcome :: After finishing the course the students are enable to understand about.

1: Different theories of world politics - the Marxist and non-Marxist approaches.

2: Roots of European imperialism and the World Wars as the total war - impact of war on European mind - Peace settlement of 1919 and search for the collective security - the League of Nations.

3: Aspects of the war economy in the inter-war period - the depression and new theories of mixed economy - the collapse of the Weimer state in Germany and the rise of the Nazis to power - fascism in Italy.

4: The World after 1945 - theories of the Cold War and the division of Europe - the emergence of the American and Soviet spheres of influence - various military and economic alliances - regional conflicts in the bi-polar world, Vietnam, Korea, Cuba, the middle east and Afghanistan.

Course Name :Discipline Specific Elective Course– 1(For V semester
hons. Students)

Course Code:HISH-DSE_T_01

Topic Name :History of China from Tradition to Revolution.

Course Outcome :: After finishing the course the students are enable
to understand about.

1: Traditional China – sino-centrism - society - social groups and classes
- confucian value system - closed chinese economy - the canton trade.

2: Confronting the foreigners - Opium Wars - treaties with imperialist
powers - foreigners’ struggle for concessions in China - China as an
‘informal colony’ – increasing western pressure - the open door policy -
transformation of China from a feudal society to a semi-colonial and
semifeudal society.

3: The People’s response – from Taiping to Boxer - self –strengthening
movement and reforms 1860 -1898 and 1901-1908 - revolution of 1911
– from nationalism to comprador-ship, Sun YatSen to Yuan-Shi-Kai -
Warlordism since 1916 - revolt of the Chinese working class, the May
Fourth Movement.

4: Development of Chinese industrial economy and growth of the
Chinese proletariat - spread of communism among the proletariat in
between the world wars - Chiang Kai Shek, Kuomintang and the united
front - break with the front and the mature phase of Chinese
communist movement under Mao Tse Tung - the Long March and the
Communist Revolution of China.

Course Name :Discipline Specific Elective Course - 2(For V semester
hons. Students)

Course Code:HISH-T-02

Topic Name :History of Japan from Meiji Restoration to the Second
World War

Course Outcome :After finishing the course the students are enable
to understand about.

1: Tokugawa Baku-han system of Japan– its nature - crisis encounter
with the west - Meiji restoration - processes of modernization – social,
military, political and economic.

2: Popular and democratic movements - Satsuma rebellion; popular
rights movement and Meiji constitution.

3: Growth of militarism in Japan and her imperialist projects - Sino -
Japanese relations; Anglo-Japanese alliance - Russo-Japanese war -
World War I and after - the Manchurian crisis.

4: Rise of political parties in Japan and their failure to sustain
democratic system - Japan and the two World Wars.

Course Name :Discipline Specific Elective Course - 3

Course Code:DSE-T-3

Topic Name :History of Bangladesh from Liberation to the present day

Course Outcome : After finishing the course the students are enable
to understand about.

1 : The genesis – issues of conflict between Pakistani non-Bengali elite group and the rising Bengali middle class of East Pakistan.

2 : Political transformation in East Pakistan – emergence of linguistic nationalism since 1952 – resistance against Pakistani militarism – rise of Sheikh MujiburRahaman as the new mass leader – Awami League Movement, 1966 to 1970 – Bangladesh liberation movement of 1971 – birth of Bangladesh in 1972.

3 : Bangladesh after independence – society, economy and politics.

4 : Foreign policy of Bangladesh – relations with India – role of Bangladesh in the SAARC and ASEAN.

Course Name :Discipline Specific Elective Course - 4

Course Code:HISH-T-04

Topic Name :History of Women in India

Course Outcome : After finishing the course the students are enable to understand about.

1 : Women in the Indian tradition – different socio-religious movements in pre-colonial India and women’s position re-defined.

2 : Feminism revisited in the Indian context – the women’s question in 19th century India during colonial modernization – the debates on Sati and Purdah.

3 : The nationalist resolution on the women’s question – women in the freedom movement in India.

4 : Emerging new woman in post-colonial India – women’s organizations and fight against their marginalization – women in Indian literature and performing art.

Course Name :Skill Enhancement Elective Course 1

Course Code:HISH-SEC-T-01

Topic Name :Understanding Heritage, Art and architecture of India

Course Outcome : After finishing the course the students are enable to understand about.

1 : Defining heritage – an overview of cultural and built heritage of India – notions of art and craft.

2 : Pre-colonial Indian Art and Architecture – early illustrated manuscripts and mural painting traditions – nearly medieval sculpture, style and iconography – numismatic art – miniature painting, Mughal, Rajsthani and Pahari - early Indian architecture, stupa, cave and temple – the Mughals -Indo-Persian architecture, fort, palace and mosque.

3 : The colonial period – western influences on Indian Art and architecture – changes in the post-colonial period.

4 : The Bengal School of art and architecture – Birbhum, Bankura and BishnupurGharana – Art Movements – Santiniketan style - Progressive Artists’ Group – major artists and their works – popular art forms – folk art traditions.

Course Name :Skill Enhancement Elective Course 2

Course Code:HISH-SEC-02

Topic Name :The Bengal Music

Course Outcome : After finishing the course the students are enable to understand about.

1 : History of Music in Bengal – influence of Vaishnava poetry of the 13th – 14th century – mixture of Hindu and Islamic trends – patronage of Nawabs and big landlords particularly the BaroBhuiyans.

2 : Consolidation of the elite society in Bengal and growth of different forms of music in the 18th, 19th and early 20th centuries – BishnupurGharana – Rabindrasangeet, Nazrulgeeti, Dwijendrageeti, AtulprasadiRajanikanterGaan – swadeshi and nationalist songs.

3 : Aspects of folk culture and folk music of Bengal – Baul, Bhatiali, Bhawaiya, Dhamali, Gambhira, Jhumur, Kavigaan and Jatra.

4 : Modern Bengali Music – post-colonial western influences – middle class romanticism and transformation of Bengali music – leftist movements and new forms of music – media and music – Bengali music in theatre and film – globalization and changes in musical forms – rock and band music.

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Generic Elective Course Forhons students other than history(Opting GE History for the first time)

Course Name :Generic Elective1

Course Code:HISH-GE-T-01

Topic Name :History of India from the Earliest times to the Early Medieval Period

Course Outcome : After finishing the course the students are enable to understand about.

1 : Sources and interpretation – broad survey of paleolithic, mesolithic and neolithic cultures – the Harappan Civilisation – journey from the Vedic state to the 16 Mahajanapadas – from the age of the Vedas to the age of Jainism and Buddhism

. -2 : The Maurya rule in Magadha - Asoka's Dhamma and administration - The postMaurya India of the Kushanas, Satavahanas and Tamil powers, Splits in Jainism and Buddhism - Vaishnavism, Saivism

3: Age of the Guptas ; consolidation of Magadhan empire ; debates on golden age, brahminical revival and growth of feudalism ; decline of the Gupta power and beginning

of political decentralization of India ; assessing Harshavardhana as the last great emperor.

4: From centralized to decentralized India - The Rajputs of North India - Palas and Senas in Bengal - Kingdomsof the South – The Pallavas, Rashtrakutas, Chalukyas and Cholas – changes in Polity, Society, Economy, Religion and Culture - towards transition.

Course Name :Generic Elective 2

Course Code :HISH-GE-T-02

Topic Name History of Medieval India

Course Outcome : After finishing the course the students are enable to understand about.

-1 : Northern India under the Delhi Sultanate - consolidation of the Sultanate from 1206 to 1286 AD ; the Khalji Revolution and the omnipotent state under the Khaljis ; The Tughluq period of reforms and counter reforms ; decline of the Delhi Sultanate - the successor states of Bijoy Nagar, Bahmani and Bengal - society, economy, art, architecture and literature.

2: Delhi on the eve of the Mughal ascent - Timur's invasion - the Sayyids and Lodis - Babu's adventure - Babur's central Asian connection - Humayun's misfortune - Sher Shah Sur and Afghan rule in India - Making of the Mughal State from Akbar to Aurangzeb

. 3 : Agrarian crisis and the decline of the Mughal Empire - regional polity – the Marathas under Shivaji and the Peshwas ; the Sikh challenge - emergence of successor states – Bengal, Awadh, Mysore and Hyderabad

. 4 : Mughal India in retrospect - state and religion ; evolution of the administrative system – mansab and jagir - management of land and agriculture – features of urban economy,

Trade and industry –society and culture --religion of the masses – language ,music and literature ;art and architecture

.Course Name :Generic Elective 3

Course Code HISH-GE-T-03

Topic Name :History of Modern India till Independence

Course Outcome : After finishing the course the students are enable to understand about

1: Expansion and Consolidation of British Rule with special reference to Bengal, Maharashtra, Mysore, Punjab and Awadh ; colonial state and development of its administration – orientalism and utilitarianism - land revenue settlements and results thereof.

2: Exploitation and resistance – de-peasantization and de-industrialization - drain of wealth - famines in India - resistance from the tribes and peasants till the Revolt of 1857 - analysing the revolt and its aftermath – colonial policy of further exploitation through railways and industrial network

. 3: The cultural revolution of the nineteenth century ; critique of Young Bengal Movement, Bengal Renaissance, social and religious reforms ; colonisation of education ; the women’s question.

4: Interpreting Indian nationalism – swadeshi movement and different phases of the nationalist struggle - role of Gandhi, Tagore, Subhas Bose, Nehru and Jinnah ; workers’ and peasants’ movements – religious polarisation of national politics – partition and independence(1947).

.Course Name :Generic Elective 4

Course Code :HISH-GE-T-04

Topic Name :History of Europe from the Fifteenth to the Twentieth Century.

Course Outcome : After finishing the course the students are able to understand about

1: Renaissance and Reformation - socio-economic roots - secularism and humanism - art, architecture, science and literature - the printing revolution.

-2: Seventeenth century crisis - Glorious Revolution in England and great changes in political, economic and state structure - American War of Independence, birth of new democratic politics - from scientific to Industrial Revolution - rise of industrial societies in Europe – the transition debate.

3: The French Revolution ; society, economy, and polity ; the philosophers and the ideological revolution – the Napoleonic era – the Vienna Settlement and the Metternich system - revolutions of 1830 and 1848 – birth of the united nation states of Germany and Italy – Karl Marx and the socialist challenge in Europe

. -4: Roots of European imperialism, Nazism and Fascism - the World Wars as the total wars - from the League of Nations to the UNO - the Cold War after 1945 - various military and economic alliances ; regional conflicts in the bi-polar world, Vietnam, Korea, Cuba, the middle east and Afganistan.

UNDER GRADUATED DEPARTMENT OF HISTORY
B.A HISTORY IN GENERAL COURSE.CBCS SYLLABUS
YEAR OF INTRODUCTION---2018-2019
PROGRAMME SPECIFIC OUTCOMES—PSO

Course Name :CC1(For I semester students)

Course Code:HISP_CC-T-01

Topic Name ::History of India from the Earliest times to the Early Medieval Period

Course Outcome : After finishing the course the students are enable to understand about

1 : Sources and interpretation – broad survey of paleolithic, mesolithic and neolithic cultures – the Harappan Civilisation – journey from the Vedic state to the 16 Mahajanapadas – from the age of the Vedas to the age of Jainism and Buddhism

. -2 : The Maurya rule in Magadha - Asoka's Dhamma and administration - The postMaurya India of the Kushanas, Satavahanas and Tamil powers, Splits in Jainism and Buddhism - Vaishnavism, Saivism

3: Age of the Guptas ; consolidation of Magadhan empire ; debates on golden age, brahminical revival and growth of feudalism ; decline of the Gupta power and beginning of political decentralization of India ; assessing Harshavardhana as the last great emperor.

4: From centralized to decentralized India - The Rajputs of North India - Palas and Senas in Bengal - Kingdoms of the South – The Pallavas, Rashtrakutas, Chalukyas and Cholas – changes in Polity, Society, Economy, Religion and Culture - towards transition.

Course Name :CC II(For II semester students)

Course Code HISP-CC-T-02

Topic Name History of Medieval India

Course Outcome : After finishing the course the students are able to understand about.

1 : Northern India under the Delhi Sultanate - consolidation of the Sultanate from 1206 to 1286 AD ; the Khalji Revolution and the omnipotent state under the Khaljis ; The Tughluq period of reforms and counter reforms ; decline of the Delhi Sultanate - the successor states of Bijaynagar, Bahmani and Bengal - society, economy, art, architecture and literature.

2: Delhi on the eve of the Mughal ascent - Timur's invasion - the Sayyids and Lodis - Babu's adventure - Babur's central Asian connection -

Humayun's misfortune - Sher Shah Sur and Afghan rule in India -
Making of the Mughal State from Akbar to Aurangzeb.

3 : Agrarian crisis and the decline of the Mughal Empire - regional polity
– the Marathas under Shivaji and the Peshwas ; the Sikh challenge -
emergence of successor states – Bengal, Awadh, Mysore and
Hyderabad

. 4 : Mughal India in retrospect - state and religion ; evolution of the
administrative system – mansab and jagir - management of land and
agriculture – features of urban economy,

Trade and industry –society and culture --religion of the masses –
language ,music and literature ;art and architecture

.Course Name :CC III(For III semester students)

Course Code HISP-CC –T-3

Topic Name :History of Modern India till Independence

Course Outcome : After finishing the course the students are enable
to understand about

1: Expansion and Consolidation of British Rule with special reference to
Bengal, Maharashtra, Mysore, Punjab and Awadh ; colonial state and
development of its administration – orientalism and utilitarianism - land
revenue settlements and results thereof.

2: Exploitation and resistance – de-peasantization and de-
industrialization - drain of wealth - famines in India - resistance from
the tribes and peasants till the Revolt of 1857 - analysing the revolt and

its aftermath – colonial policy of further exploitation through railways and industrial network

. 3: The cultural revolution of the nineteenth century ; critique of Young Bengal Movement, Bengal Renaissance, social and religious reforms ; colonisation of education ; the women's question.

4: Interpreting Indian nationalism – swadeshi movement and different phases of the nationalist struggle - role of Gandhi, Tagore, Subhas Bose, Nehru and Jinnah ; workers' and peasants' movements – religious polarisation of national politics – partition and independence(1947)

.Course Name :CC IV(For IV semester students)

Course Code HISP-CC-T-04

Topic Name :History of Europe from the Fifteenth to the Twentieth Century.

Course Outcome : After finishing the course the students are enable to understand about

1: Renaissance and Reformation - socio-economic roots - secularism and humanism - art, architecture, science and literature - the printing revolution.

-2: Seventeenth century crisis - Glorious Revolution in England and great changes in political, economic and state structure - American War of Independence, birth of new democratic politics - from scientific to Industrial Revolution - rise of industrial societies in Europe – the transition debate.

3: The French Revolution ; society, economy, and polity ; the philosophers and the ideological revolution – the Napoleonic era – the Vienna Settlement and the Metternich system - revolutions of 1830 and 1848 – birth of the united nation states of Germany and Italy – Karl Marx and the socialist challenge in Europe

. -4: Roots of European imperialism, Nazism and Fascism - the World Wars as the total wars - from the League of Nations to the UNO - the Cold War after 1945 - various military and economic alliances ; regional conflicts in the bi-polar world, Vietnam, Korea, Cuba, the middle east and Afganistan.

Course Name :Skill Enhancement Elective Course 1(For III semester students)

Course Code:HISP-SEC-T-01

Topic Name :Understanding Heritage, Art and architecture of India(For III semester general students)

Course Outcome : After finishing the course the students are enable to understand about.

1 : Defining heritage – an overview of cultural and built heritage of India – notions of art and craft.

2 : Pre-colonial Indian Art and Architecture – early illustrated manuscripts and mural painting traditions – nearly medieval sculpture, style and iconography – numismatic art – miniature painting, Mughal, Rajasthani and Pahari - early Indian architecture, stupa, cave and temple – the Mughals -Indo-Persian architecture, fort, palace and mosque.

3 : The colonial period – western influences on Indian Art and architecture – changes in the post-colonial period.

4 : The Bengal School of art and architecture – Birbhum, Bankura and BishnupurGharana – Art Movements – Santiniketan style - Progressive Artists' Group – major artists and their works – popular art forms – folk art traditions.

Course Name :Skill Enhancement Elective Course 2(For IV semester general students)

Course CodeHISP-SEC-T-02

Topic Name :The Bengal Music(For IV semester general students)

Course Outcome : After finishing the course the students are enable to understand about

1 : History of Music in Bengal – influence of Vaishnava poetry of the 13th – 14th century – mixture of Hindu and Islamic trends – patronage of Nawabs and big landlords particularly the BaroBhuiyans.

2 : Consolidation of the elite society in Bengal and growth of different forms of music in the 18th, 19th and early 20th centuries – BishnupurGharana – Rabindrasangeet, Nazrulgeeti, Dwijendrageeti, AtulprasadiRajanikanterGaan – swadeshi and nationalist songs.

3 : Aspects of folk culture and folk music of Bengal – Baul, Bhatiali, Bhawaiya, Dhamali, Gambhira, Jhumur, Kavigaan and Jatra.

4 : Modern Bengali Music – post-colonial western influences – middle class romanticism and transformation of Bengali music – leftist movements and new forms of music – media and music – Bengali music

in theatre and film – globalization and changes in musical forms – rock and band music.

Course Name :Skill Enhancement Elective Course 3(For V semester general students)

Course Code SEC HISP-T-03

Topic Name :History of Press and Journalism In India.

Course Outcome : After finishing the course the students are enable to understand about

1.Early phase of the Indian Press,1775-1825-the Bengal Gazette to AkbarSerampuri-Bengal Renaissance and the Newspapers-the golden age of journalism,1826-1857-the Hindu Patriot.

2.The British Press in India –the Statemechanism of Press control – Adams Regulations(1823),Vernacular Press Act (1878),the Newspapers Act (1908),the Indian Press Act (1910/1931)-the call of nationalism and role of the Indian Press.

3.Journalism defined- the Victorian and post –Victorian concepts of news,newspaper and journalism-giants of journalism in colonial Bengal –Rammohan Roy ,Akhyo Kumar Dutta,Rajendralal .

Mitra, KaliprasannaSingha,Harish Chandra Mukherjee,Umesh Chandra .Dutta,andRamanandaChatterjee

4.Press and Journalism in post colonial India-globalization and the digital revolution of journalism in print and electronic media –different news agencies.

Course Name :Skill Enhancement Elective Course 4(For VI semester general students)

Course Code:HISP-T-04

Topic Name :History of Tourism in India

Course Outcome : After finishing the course the students are enable to understand about

1.Recollecting cultural heritage of India from the Epics for a tourist- displaying Indias heritage through art and architecture ,particularly in south India-the culture of Indian History

2.Looking for Immortal India-Kasi,Rameswaram,Kurukshetraetc

3.The wonder that was medieval India –such as Delhi ,Agra ,Jodhpur ,Jaisal miretc

4.Legacy of European Culture in India with special focus on the South , the East and the North east-revisiting Bengal at Kolkatta ,Serampore ,the Duars and hill station of Darjeeling.

DSE (;for general course 5th and 6thsemester students)

Course Name Discipline Specific Elective Course 1.(For V semester students)

Course code:HISP DSE-T-01-

Topic Name :History of China from Tradition to Revolution.(For V semester students)

Course Outcome :: After finishing the course the students are enable to understand about.

1: Traditional China – sino-centrism - society - social groups and classes - confucian value system - closed chinese economy - the canton trade.

2: Confronting the foreigners - Opium Wars - treaties with imperialist powers - foreigners' struggle for concessions in China - China as an 'informal colony' – increasing western pressure - the open door policy - transformation of China from a feudal society to a semi-colonial and semifeudal society.

3: The People's response – from Taiping to Boxer - self –strengthening movement and reforms 1860 -1898 and 1901-1908 - revolution of 1911 – from nationalism to comprador-ship, Sun YatSen to Yuan-Shi-Kai - Warlordism since 1916 - revolt of the Chinese working class, the May Fourth Movement.

4: Development of Chinese industrial economy and growth of the Chinese proletariat - spread of communism among the proletariat in between the world wars - Chiang Kai Shek, Kuomintang and the united front - break with the front and the mature phase of Chinese communist movement under Mao Tse Tung - the Long March and the Communist Revolution of China.

Course Name :Discipline Specific Elective Course– 2(For VI semester students)

Course Code:HISP-DSE-T-02

Topic Name :History of Bangladesh from Liberation to the present day

Course Outcome : After finishing the course the students are enable to understand about.

1 : The genesis – issues of conflict between Pakistani non-Bengali elite group and the rising Bengali middle class of East Pakistan.

2 : Political transformation in East Pakistan – emergence of linguistic nationalism since 1952 – resistance against Pakistani militarism – rise of Sheikh MujiburRahaman as the new mass leader – Awami League Movement, 1966 to 1970 – Bangladesh liberation movement of 1971 – birth of Bangladesh in 1972.

3 : Bangladesh after independence – society, economy and politics.

4 : Foreign policy of Bangladesh – relations with India – role of Bangladesh in the SAARC and ASEAN.

Course Name :Generic Elective1(For 5th and 6th sem general course students ,opting GE history for the first time)

Course Code -:HISP GE-T-01

Topic Name :History of India from the Earliest times to the Early Medieval Period (For V semester students)

Course Outcome : After finishing the course the students are enable to understand about.

1 : Sources and interpretation – broad survey of paleolithic, mesolithic and neolithic cultures – the Harappan Civilisation – journey from the Vedic state to the 16 Mahajanapadas – from the age of the Vedas to the age of Jainism and Buddhism

. -2 : The Maurya rule in Magadha - Asoka's Dhamma and administration - The postMaurya India of the Kushanas, Satavahanas and Tamil powers, Splits in Jainism and Buddhism - Vaishnavism, Saivism

3: Age of the Guptas ; consolidation of Magadhan empire ; debates on golden age, brahminical revival and growth of feudalism ; decline of the Gupta power and beginning of political decentralization of India ; assessing Harshavardhana as the last great emperor.

4: From centralized to decentralized India - The Rajputs of North India - Palas and Senas in Bengal - Kingdomsof the South – The Pallavas, Rashtrakutas, Chalukyas and Cholas – changes in Polity, Society, Economy, Religion and Culture - towards transition.

Course Name :Generic Elective 2

Course Code HISP –GE-T-02

Topic Name History of Medieval India(For VI semester students)

Course Outcome : After finishing the course the students are enable to understand about.

-1 : Northern India under the Delhi Sultanate - consolidation of the Sultanate from 1206 to 1286 AD ; the Khalji Revolution and the omnipotent state under the Khaljis ; The Tughluq period of reforms and counter reforms ; decline of the Delhi Sultanate - the successor states

of Bijoy nagar, Bahmani and Bengal - society, economy, art, architecture and literature.

2: Delhi on the eve of the Mughal ascent - Timur's invasion - the Sayyids and Lodis - Babu's adventure - Babur's central Asian connection - Humayun's misfortune - Sher Shah Sur and Afghan rule in India - Making of the Mughal State from Akbar to Aurangzeb

. 3 : Agrarian crisis and the decline of the Mughal Empire - regional polity – the Marathas under Shivaji and the Peshwas ; the Sikh challenge - emergence of successor states – Bengal, Awadh, Mysore and Hyderabad

. 4 : Mughal India in retrospect - state and religion ; evolution of the administrative system – mansab and jagir - management of land and agriculture – features of urban economy,

Trade and industry –society and culture --religion of the masses – language ,music and literature ;art and architecture.

Krishnagar Women's College

UNDER GRADUATE DEPARTMENT OF MATHEMATICS

B. Sc. Mathematics (Hons.) under CBCS system.

Syllabus with effect from 2018-19

Programme Specific Outcomes

- Bachelor's degree in mathematics is the culmination of in-depth knowledge of algebra, calculus, geometry, differential equations and several other branches of mathematics. This also leads to study of related areas like computer science, Financial Mathematics, statistics and many more. Thus, this programme helps learners in building a solid foundation for higher studies in mathematics.
- The skills and knowledge gained has intrinsic beauty, which also leads to proficiency in analytical reasoning. This can be utilized in modeling and solving real life problems. Students undergoing this programme learn to logically question assertions, to recognize patterns and to distinguish between essential and irrelevant aspects of problems.
- They also share ideas and insights while seeking and benefitting from knowledge and insight of others. This helps them to learn behave responsibly in a rapidly changing interdependent society.
- Students completing this programme will be able to present mathematics clearly and precisely, make vague ideas precise by formulating them in the language of mathematics, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non-mathematicians.
- Completion of this programme will also enable the learners to join teaching profession in primary and secondary schools. This programme will also help students to enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.

Krishnagar Women's College

Course outcome or learning outcome

Three year B. Sc. Degree course in Mathematics Honours

Under CBCS system with effect from 2018-19

Course Name: Core Course -1

Course Code: Math-H-CC-T-01

Topic Names: Functions, Applications of calculus, Geometry, Differential Equations.

Course outcome: After the completion of the course students will

1. learn draw the popular functions, their properties,
2. be able to solve the problems of calculus successfully.

Course Name: Core Course -2

Course Code: Math-H-CC-T-02

Topic Names: Algebra.

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The student will have a conception of complex numbers and will be able to use it in solving equations. The student will also know various types of inequalities and the technique to solve polynomial equations of degree 3 and 4.
2. The student will learn the relations between sets, well ordering principle, mathematical induction and the fundamental theorem of arithmetic.
3. The student will learn to solve system of linear equations using matrix methods.
4. The student will have basic ideas on linear algebra.

Course Name: Core Course -3

Course Code: Math-H-CC-T-03

Topic Names: Real Analysis.

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The student will have basic notions of the topological properties of the real line.
2. The students will be familiar with the notion of convergence and divergence of sequences.
3. The student will be able to deal with infinite series.

Course Name: Core Course -4

Course Code: Math-H-CC-T-04

Topic Names: Differential equations and vector calculus.

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will be familiar with the various aspects of homogeneous second order equations.
2. The students will be able to solve system of linear differential equations; will have notions of differential operators.
3. The students will have the knowledge of equilibrium points, phase plane, power series solutions of differential equations.
4. The students will learn about the basics of vector algebra and calculus.

Course Name: Core Course -5

Course Code: Math-H-CC-T-05

Topic Names: Theory of Real Functions & Introduction to Metric Space

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will be familiar with the various definitions of limits and the application of limit in the form of infinite series, sequences. Also important continuous functions and their properties will become alive to the learners through limits.
2. The students will learn about the differentiability of functions including the Rolle's Theorem, Mean Value Theorem and their applications.
3. The students will learn Cauchy's Mean Value Theorem, Taylors Theorem, and the power series expansion of functions.
4. The students will learn about the basic concepts of Metric Spaces.

Course Name: Core Course -6

Course Code: Math-H-CC-T-06

Topic Names: Group Theory 1

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will learn about the definitions and example of Groups like Dihedral Group, Symmetric groups.
2. The students will learn about the subgroups and centralizer, normalize of a group.
3. The students will learn about the permutation groups, cyclic groups.
4. The student will learn about the Chacuy's Theorem for finite abelian group.
5. The students will learn about the Group homomorphisms, Cayley's theorem.

.Course Name: Core Course -7

Course Code: Math-H-CC-T-07

Topic Names: Numerical Methods and Numerical Methods Lab.

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will learn about the numerical algorithm, convergence, errors etc.
2. The students will learn about the various technique of solutions of equations using the methods like Newton –Rapshon , Bisection, .
3. The students will learn to solve the simultaneous linear equations.
4. The students will learn interpolation.
5. The students will learn numerical differentiations and integration.
6. The students will learn to solve the ordinary differential equations by numerical methods.

.Course Name: Core Course -8

Course Code: Math-H-CC-T-08

Topic Names: Riemann Integration and Series of Functions

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will be familiar with the Reimann integration and the related topics.
2. The students will learn about the Improper integrals, Beta functions and Gamma Functions.
3. The students will learn about the uniform convergence.
4. The students will learn about the Fourier Series and various inequalities.
5. The students will learn about the power series and its properties.

Course Name: Core Course -9

Course Code: Math-H-CC-T-09

Topic Names: Multivariate calculus.

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will learn about the functions, scalar-valued or vector-valued, including the directional derivatives, gradient, maximal and normal property.
2. The students will learn about the integration in multiple dimensions.
3. The students will learn about the divergence, curl, line integration and the fundamental theorem of line integrals.
4. The students will learn about Green's theorem, Stoke's theorem and divergence theorem.

Course Name: Core Course -10

Course Code: Math-H-CC-T-10

Topic Names: Ring theory and linear algebra.

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

The students will learn about the definitions and examples of Ring with properties. The students will learn the notions of ring homomorphism, integral domains, Principal Ideals, PID, polynomial rings.

Course Name: Core Course -11

Course Code: Math-H-CC-T-11

Topic Names: Partial Differential equations & Applications

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. The students will learn about the basics concepts of PDE, method of characteristics, separation of variables to solve the equations.
2. The students will learn about the heat equation, wave equation, Laplace equation.
3. The students will learn about the Cauchy problem, Initial Value Problem.

Course Name: Core Course -12

Course Code: Math-H-CC-T-12

Topic Names: Group Theory II

Course outcome: After the successful completion of the course the following capabilities are expected from a student.

1. Apply the concept of Automorphisms for constructing new groups from the given group. The knowledge of automorphism helps them to study more on field theory.
2. Learn on direct products, group actions, class equations and their applications with proof of all results. This course helps them to opt for more advanced courses in algebra and linear classical groups.
3. External direct product applies to data security and electric circuits.
4. Recognize and use the Sylow's theorems to characterize certain finite groups and their applications to check nonsimplicity of finite groups.

Course Name: Core Course -13

Course Code: Math-H-CC-T-13

Topic Names: Metric Space and Complex Analysis

Course outcome: This course will enable the students to:

1. understand the concept of Abstract Analysis through Metric Spaces.
2. understand the topological properties of metric spaces.
3. understand about convergence and divergence of sequences abstractly in Metric spaces.
4. Understand the concept of the Fixed Point Theorem (Banach) in metric spaces and its applications.
5. understand deeply the complex number system and its topological properties in Complex Analysis.
6. understand the limit, derivative of complex-valued functions of complex variables and computation of them.
7. understand Analytic functions and their properties.
8. understand Sequence and series (Laurent series, power series) and their convergence with several examples.
9. understand the concept of complex integration, specially Contour integral and their computation and applications

Course Name: Core Course -14

Course Code: Math-H-CC-T-14

Topic Names: Ring Theory and Linear Algebra II

Course outcome: After successful completion of this course students will be able to:

1. Write precise and accurate mathematical objects in ring theory.
2. Know the fundamental concepts in ring theory such as the concepts of ideals, quotient rings, integral domains, Euclidean domains, unique factorization domains and fields.
3. Learn in detail about polynomial rings.
4. Check the irreducibility of higher degree polynomials over rings.
5. Have an understanding of matrices, and their representation of linear transformations of vector spaces, including change of basis.

6. Understand the beginnings of the theory of eigenvectors and eigenvalues and appreciate the applications of diagonalizability.
7. Find canonical form of linear transformations.
8. Obtain various variants of diagonalization of linear transformations.
9. Apply Cauchy-Schwarz inequality for deriving metric on inner product spaces and obtain orthonormal basis using Gram-Schmidt orthogonalization.

Course Name: Discipline Specific Elective-1

Course Code: Math-H-DSE-T-1A

Topic Names: Linear Programming

Course outcome: After successful completion of this course students will be able to:

1. Analyze and solve linear programming models of real life situations.
2. Provide graphical solutions of linear programming problems with two variables, and illustrate the concept of convex set and extreme points.
3. Understand the theory of the simplex method.
4. Know about the relationships between the primal and dual problems, and to understand sensitivity analysis.
5. Learn about the applications to transportation, assignment and two-person zero-sum game problems.

Course Name: Discipline Specific Elective-2

Course Code: Math-H-DSE-T-2

Topic Names: Probability and Statistics

Course outcome: After successful completion of this course students will be able to:

1. Understand distributions in the study of the joint behavior of two random variables.
2. Establish a formulation helping to predict one variable in terms of the other that is, correlation and linear regression.
3. Understand central limit theorem, which establish the remarkable fact that the empirical frequencies of so many natural populations, exhibit a bell shaped curve.
4. Know about Markov Chains, Chapman-Kolmogorov equations and classification of states.
5. Perceive the characteristic of sample data using various methods of statistical measurements.

Course Name: Discipline Specific Elective-3

Course Code: Math-H-DSE-T-3

Topic Names: Number Theory

Course outcome: After successful completion of this course students will be able to:

1. Know about linear diophantine equation, prime counting function, Chinese remainder theorem.
2. Know number theoretic functions, Euler's theorem, Euler's phi-functions.
3. Know about the order of an integer modulo n , primitive roots of prime, public key encryption.

Course Name: Discipline Specific Elective-4

Course Code: Math-H-DSE-T-4

Topic Names: Mechanics

Course outcome: After successful completion of this course students will be able to:

1. Learn problem solving technique in the field of Analytical Statics with topics: Co-planar forces, Astatic equilibrium, friction, equilibrium of a particle on a rough curve, virtual work, forces in three dimensions, general conditions of equilibrium, centre of gravity for different bodies, stable and unstable equilibrium.
2. Learn rotating axes, motion of a projectile in a resisting medium, stability of nearly circular orbits, motion under the inverse square law, various cases on slightly disturbed orbits, motion of artificial satellites, particle in three dimensions, motion on a smooth sphere, cone, and on any surface of revolution.
3. Learn Rigid Dynamics with special emphasis on problem solving on the following topics: degrees of freedom, moments and products of inertia, principal axes, D'Alembert's principle, motion about a fixed axis, compound pendulum, motion of a rigid body in two dimensions under impulsive forces, conservation of momentum and energy.

Course Name: Skill Enhancement Course-1

Course Code: Math-H-SEC-T-1

Topic Names: Logic and Sets

Course outcome: After successful completion of this course students will be able to:

1. Grasp and understand the Definitions for Logic
2. Handle various types of set operations.
3. Gather knowledge about partitions, set relations.

Course Name: Skill Enhancement Course-2

Course Code: Math-H-SEC-T-2

Topic Names: Graph Theory

Course outcome: After successful completion of this course students will be able to:

1. Know the basic definitions of Graphs, complete graphs, bipartite graphs.
2. Know the Eulerian circuits, Eulerian graphs.
3. Know the travelling sales-man problem, trees.

Krishnagar Women's College

Course outcome or learning outcome

Three year B. Sc. Degree General Course in Mathematics

Under CBCS system with effect from 2018-19

Course Name: Generic Elective Core Course-1

Course Code: Math-H-G-CC-T-1

Topic Names: Differential Calculus

Course outcome: This course will enable the students to:

1. Calculate the limit and examine the continuity and understand the geometrical interpretation of differentiability.
2. Understand the consequences of various mean value theorems and compute maxima-minima and indeterminate forms.
3. Draw curves in Cartesian and polar coordinate systems.
4. Understand the concept of successive differentiation, partial differentiation and homogeneous functions.
5. Understand and compute the Tangents and Normals, Curvature, Asymptotes, Singular points.

Course Name: Generic Elective Core Course-2

Course Code: Math-H-GE-CC-T-2

Topic Names: Differential Equations

Course outcome: This course will enable the students to:

1. Understand the genesis of ordinary as well as partial differential equations.
2. Learn various techniques of getting exact solutions of certain solvable first order differential equations and lineardifferential equations of second order.
3. Understand Wronskian, and its properties. Learn about the method of variation of parameters, the Cauchy-Euler equation, Simultaneous differential equations and Total differential equations.
4. Learn about solution of first order linear partial differential equations using Lagrange's method and non-linear partialdifferential equations using Charpit's method.
5. Know how to classify second order partial differential equations into elliptic, parabolic and hyperbolic.

Course Name: Generic Elective Core Course-3

Course Code: Math-H-GE-CC-T-3

Topic Names: Real Analysis

Course outcome: This course will enable the students to:

1. understand the Real number system, e.g., open and closed sets, limit point of a set, concept of Infimum, Supremum, Archimedian properties, etc., and some topological properties.
2. gather concept of Sequence and Infinite series of real numbers, e.g., convergence and divergence of sequence andseries using several Mathematical tools and computation of limits of sequence and series.
3. gather concepts of sequence and series of functions, e.g., pointwise and uniform convergence of sequence andseries of functions using several mathematical tools and computation of limits of sequence and series of functions.

Course Name: Generic Elective Core Course-4

Course Code: Math-H-GE-CC-T-4

Topic Names: Algebra

Course outcome: This course will enable the students to:

1. Know about the basics of group theory
2. Know about various subgroups, Lagrange's Theorem, Normal subgroups.
3. Know about Cyclic groups, permutation groups.
4. Know about basis ring theory.

Course Name: Generic Elective Skill Enhancement Course-1

Course Code: Math-G-SEC-T-1

Topic Names: Logic and Set

Course outcome: This course will enable the students to:

1. Know about truth table, conjunction, and disjunction.
2. Know about sets subsets and various set operations.
3. Know about relations, partitions, equivalence classes.

Course Name: Generic Elective Skill Enhancement Course-2

Course Code: Math-G-SEC-T-2

Topic Names: Graph Theory

Course outcome: This course will enable the students to:

1. Know the basic definitions of Graphs, complete graphs, bipartite graphs.
2. Know the Eulerian circuits, Eulerian graphs.
3. Know the travelling sales-man problem, trees.

Course Name: Generic Elective Skill Enhancement Course-3

Course Code: Math-G-SEC-T-3

Topic Names: Integral Calculus

Course outcome: This course will enable the students to:

1. Solve various integrations by substitution, reduction, partial fraction methods.
2. Use integration to find area, volume etc.

Course Name: Generic Elective Skill Enhancement Course-4

Course Code: Math-G-SEC-T-4

Topic Names: Probability

Course outcome: This course will enable the students to:

1. Obtain ideas about sample spaces, events and definitions of probability.
2. Know about various distribution functions.
3. Know about expectations, conditional expectations.

Course Name: Discipline Specific Elective Course-1

Course Code: Math-G-DSE-T-1

Topic Names: Matrices and Linear Algebra

Course outcome: This course will enable the students to:

1. Learn vector spaces over \mathbb{R} , standard basis and concept of Linear Independence and dependence.
2. Learn various properties of matrices including inverse, rank, concept of eigen values and eigen vectors and diagonalization of a matrix.
3. Learn to solve a system of linear equations by the matrix method.

Course Name: Discipline Specific Elective Course-2

Course Code: Math-G-DSE-T-2

Topic Names: Linear Programming

Course outcome: This course will enable the students to:

1. Analyze and solve linear programming models of real life situations.
2. Provide graphical solutions of linear programming problems with two variables, and illustrate the concept of convex set and extreme points
3. Understand the theory of the simplex method, two-phase method, Big-M method and their comparison.
4. Know about the relationships between the primal and dual problems, and to understand economic interpretation of the dual and sensitivity analysis.

B. A. PHILOSOPHY (HONOURS)

CBCS SYLLABUS

2018 -2019

PROGRAMME SPECIFIC OUTCOMES

PSO 1 – Academic

- a) According to all schools of Indian philosophy the aim of education is the attainment of liberation from the cycle of birth and death and attainment of Unity with the absolute, study of western philosophy enables the students to know about ancient mediaeval and modern philosophy.
- b) study of psychology enables student to use scientific reasoning to analyse psychological issues.
- c) study of social and political philosophy help students in preparing thoughtful and responsible citizen.
- d) the work of modern Indian thinkers enhances the power of nationality and commitments towards the nation.
- e) study of ethics develops a sense of value that will help students to become a good human being.
- f) practicing Western logic enhance mathematical application and reasoning aptitude.

PSO 2 - RESEARCH -

- a) all courses are prospective for future study and research.

- b) study of psychology enables students to design and engage themselves into basic psychological research.
- c) Study of philosophy of logic enhance the success quotient for aspirants of competitive examination in different competitive examination, like NET SET GATE get most of the questions are based on logic.
- d) Study of practical ethics like medical ethics, bioethics, environmental ethics, may be considered as future profession and research work.

PSO 3 – SOCIAL

- a) Study of social and political philosophy helps in critical analysis of society and politics.
- b) The study of religion is a critical lens for understanding human existence in its broader cultural context including its relation to economic, political and social Institutions, as well as impact of religion on history, geography and literature.
- c) The study of epistemology in philosophy is important because it helps us to evaluate what we see or perceive. It helps us to determine the true from the false and helps us to gain productive knowledge, that we can actually use to benefit ourself and others.
- d) Metaphysics the foundation of philosophy. Without an explanation for an interpretation of the world around us, we would be helpless to deal with reality. Metaphysical studies generally seek to explain inherent or Universal elements of reality which are not easily discovered or experienced in our everyday life.

Course Outcome or Learning Outcome

B.A - PHILOSOPHY (HONOURS)

Under CBCS Semester System with effect from - 2018- 19

Course Name : Core Course – 1

Course Code : PHIL – H – CC- T – 01

Course Title : Outlines of indian Philosophy – 1

Course Outcome : -

1. After successful completion of the course students will gain knowledge about history of Indian philosophy and at the same time they will acquire elaborate knowledge about various theories, beliefs and opinions of the different schools of Indian philosophy like Carvaka, Buddhism, Jainism, Nyaya-Vaisesika.
2. learn about the interrelation among the different schools and become aware of the rich argumentative heritage of India.

Course Name : Core Course – 2

Course Code : PHIL – H – CC- T – 02

Course Title : Outlines of Western Philosophy – 1

Course Out come : -

1. The history of western philosophy consists of the epistemological and metaphysical perspective of the Philosopher's from ancient to modern philosophers like Plato, Aristotle, Descartes, Spinoza, Leibnitz.
2. Begining with the Pre-Socratic Philosophers they will become acquainted with theories of knowledge and metaphysics of Plato and Aristotle. They will develop detailed knowledge about modern rationalists schools also.

Course Name : Core Course – 3

Course Code : PHIL – H – CC- T – 03

Course Title : Outlines of indian Philosophy – 2

Course Out come : -

1. After successful completion of the course students will be able to know about some basic major schools of Indian Philosophy like Sankhya, Yoga, Purva Mimāmsa, and Vedanta.

2. Students come to know a comprehensive view of the different philosophical systems and the inclusive nature of Indian philosophy.

Course Name : Core Course – 4

Course Code : PHIL – H – CC- T – 04

Course Title : Outlines of Western Philosophy – 2

Course Out come :

1. Students can learn the importance of the Empericistic approach of western philosophy.
2. Students can also learn the importance of both experience and rationality in Kantian and philosophy.
3. Students can pursue higher education in this field also.

Course Name : Core Course – 5

Course Code : PHIL – H – CC- T – 05

Course Title : Indian Ethics

Course Out come :

1. Students will have deep knowledge and will develop critical understanding about Indian ethics.
2. Indian ethics includes purusharthas , Buddhist ethics, jaina ethics and yoga ethics also.

3. Understand the importance of Indian ethics and values and eventually be compassionate towards all living beings.
4. feel encouraged to research extensively in this field.

Course Name : Core Course – 6

Course Code : PHIL – H – CC- T – 06

Course Title : Western Ethics

Course Out come :

1. Students will have detailed information about Western ethics and will develop critical insight on this.
2. After successful completion of this course the students will have clear concept of the ethical terms -right, wrong, good, bad and their usage.
3. Understand the moral principles and their application in decision- making throughout their life.
4. Develop a sense of value that will help them to become a good human being.

Course Name : Core Course – 7

Course Code : PHIL – H – CC- T – 07

Course Title : Indian Logic

Course Out come :

1. In Indian Logic students will be familiar with Indian logic and epistemology through the classical Indian Text – Tarkasamgraha written by Annambhatta.
2. After successful completion of the course students will be able to learn about the rich logic of Nyaya Philosophy .
3. Students can be able to compare the logical tradition of Indian Philosophy and Western Philosophy.

Course Name : Core Course – 8

Course Code : PHIL – H – CC- T – 08

Course Title : Western Logic – 1

Course Out come :

1. Practising Western Logic Enhances
 - I. Mathematical Application
 - II. Reasoning Aptitude
 - III. Preperation for copetitive Examination
 - IV. The power of sense of Resoning for Day to day life.

Course Name : Core Course – 9

Course Code : PHIL – H – CC- T – 09

Course Title : Psychology

Course Out come :

1. After successful completion of the course students will be able to use scientific reasoning to analyse different psychological issues.
2. They will be able to design and engage themselves into basic psychological research work.

Course Name : Core Course – 10

Course Code : PHIL – H – CC- T – 10

Course Title : Philosophy of Religion

Course Out come :

1. Philosophy of Religion will develop detailed knowledge regarding various religious terms, concepts and doctrines in both Western as well as Indian Philosophical Perspective.
2. In their engagement with religious traditions, ideas and practices students can develop their sense of social responsibility and ability to navigate the complexities of our global multicultural societies.

Course Name : Core Course – 11

Course Code : PHIL – H – CC- T – 11

Course Title : Social and Political Philosophy

Course Out come :

1. Study of social and political philosophy helps students to develop elaborate knowledge regarding the nature and scope of both social and political philosophy.
2. Studying social and political philosophy opens the scope for higher education and research both in Sociology and political science.

Course Name : Core Course – 12

Course Code : PHIL – H – CC- T – 12

Course Title : Western Logic T 2

Course Out come :

1. Students will develop their thought of reasoning by western logic- 2 . Set theory aims at providing foundations for mathematics.
2. By learning set theory students will define a set by listing for describing its elements. Basic notation is used to indicate whether or not an element belongs to a set. Connections are made to language arts, Science and social studies.
3. In this course students will study H.W.B, Joseph's An Introduction to Logic. They will learn definition of names, the theory of predicables, rules of division etc.

Course Name : Core Course – 13

Course Code : PHIL – H – CC- T – 13

Course Title : Western Epistemology

Course Out come :

1. After successful completion of the course students will acquire a clear concept of nature, origin and scope of knowledge.
2. Deep investigation into philosophical turns like concept, truths, knowledge etc are done for better comprehension and to remove ambiguity.

Course Name : Core Course – 14

Course Code : PHIL – H – CC- T – 14

Course Title : Western Metaphysics

Course Out come :

1. After successful completion of this course students will be able to distinguish appearance and reality.
2. They will be able to enhance their reasoning aptitude.
3. By study this course students will learn the notions that are beyond this empirical world.

Course Name : Discipline Specific Elective – 1

Course Code : PHIL – H – DSE- T 01

Course Title : Vedāntasāra (Text) (UptoViksepa Sakti)

Course Out come :

1. A beginner can get a clear and detailed introduction to Vedanta through this text. Students will understand the principal concepts of Advaita Vedanta.
2. By studying this text which is written by Sadananda Yogendra students will gain the basic qualification required for pursuing the study of Advanced Vedantic Studies.

Course Name : Discipline Specific Elective –2

Course Code : PHIL – H – DSE- T 02

Course Title : An Enquiry Concerning Human Understanding (Text) (Chapter 1 – 12)

Course Out come :

1. After successful completion of the course the students will be able to understand the text of David Hume, a renowned empiricist western philosopher.

2. They will be able to understand the empiricistic tradition and at the same time they will be able to critically evaluate the concept of metaphysics, causality, scepticism from Hume's view.
3. They will be able to compare Hume's philosophy and Kant's philosophy and thus develop a critical aptitude.

Course Name : Discipline Specific Elective – 3

Course Code : PHIL – H – DSE- T 3

Course Title : Practical Ethics

Course Out come :

1. Practical ethics examines our common and individual morality for inconsistencies failure to apply agreed principles and new principles that may have a radical effect on our moral behaviour.
2. Practical ethics provides guidance to our lives. It is the pathway to principle based decision. It opens up research avenues.

Course Name : Discipline Specific Elective – 4

Course Code : PHIL – H – DSE- T 4

Course Title : Contemporary Indian Philosophy

Course Out come :

1. Regarding contemporary Indian philosophy is helpful in getting updated with the works of Indian thinkers like Rabindranath Tagore, Swami Vivekananda, Aurobindo and Manobendra Nath Roy.
2. Opens up research avenues for the same.

Course Name : Skill Enhancement Course - 1

Course Code : PHIL – H – SEC- T 1

Course Title : Logical Rules and Fallacies(Indian)

Course Out come :

1. Students will be familiar with Indian logic through the classical Indian text Tarkasangraha.
2. Students will get detailed knowledge about definition and classification of Anumana from Nyaya and Buddhist model.

Course Name : Skill Enhancement Course - 1

Course Code : PHIL – H – SEC- T 1

Course Title : Logical Rules and Fallacies(Western)

Course Out come :

1. By study this course students will gain knowledge of the various methods of Western logic. R. Jeffrey's methods of truth tree is learnt. they also study P. Suppee's Set Theory.
2. This paper increases the logical reasoning of the students.

B. A. PHILOSOPHY (PROGRAMME)

CBCS SYLLABUS

2018 -2019

PROGRAMME SPECIFIC OUTCOMES

PSO 1 – Academic

- g) According to all schools of Indian philosophy the aim of education is the attainment of liberation from the cycle of birth and dead and attainment of Unity with the absolute, study of western philosophy enables the students to know about ancient mediaeval and modern philosophy.
- h) Practicing Western logic enhance mathematical application and reasoning aptitude.
- i) Study of social and political philosophy help students in preparing thoughtful and responsible citizen.
- j) Study of ethics develops a sense of value that will help students to become a good human being.

PSO 2 - RESEARCH -

- e) All courses are prospective for future study and research.
- f) Study of philosophy of logic enhance the success quotient for aspirants of competitive examination in different competitive examination, like NET SET GATE get most of the questions are based on logic.

PSO 3 – SOCIAL

- e) Study of social and political philosophy helps in critical analysis of society and politics.

- f) The study of religion is a critical lens for understanding human existence in its broader cultural context including its relation to economic, political and social Institutions, as well as impact of religion on history, geography and literature.
- g) The study of epistemology in philosophy is important because it helps us to evaluate what we see or perceive. It helps us to determine the true from the false and helps us to gain productive knowledge, that we can actually use to benefit ourself and others.
- h) Metaphysics the foundation of philosophy. Without an explanation for an interpretation of the world around us, we would be helpless to deal with reality. Metaphysical studies generally seek to explain inherent or Universal elements of reality which are not easily discovered or experienced in our everyday life.

Course Outcome or Learning Outcome

B.A - PHILOSOPHY (PROGRAMME)

Under CBCS Semester System with effect from - 2018- 19

Course Name : Core Course – 1

Course Code : PHIL – G – CC- T – 01

Course Title : Indian Philosophy

Course Outcome : -

- 3. After successful completion of the course students will gain knowledge about history of Indian philosophy and at the same time they will acquire elaborate knowledge about various theories, beliefs and opinions of the different schools of Indian philosophy like Carvaka, Buddhism, Jainism, Nyaya-Vaisesika, Vedanta.
- 4. Learn about the interrelation among the different schools and become aware of the rich argumentative heritage of India.

Course Name : Core Course – 2

Course Code : PHIL – G – CC- T – 02

Course Title : Western Logic

Course Out come :

2. Practising Western Logic Enhances
- V. Mathematical Application
- VI. Reasoning Aptitude
- VII. Preperation for copetitive Examination
- VIII. The power of sense of Resoning for Day to day life.

Course Name : Core Course – 3

Course Code : PHIL – G – CC- T – 03

Course Title : History of Western Philosophy

Course Out come :

4. Students can learn the importance of the Empericistic approach of western philosophy.
5. Students can also learn the importance of both experience and rationality in Kantian and philosophy.
6. Students can pursue higher education in this field also.

Course Name : Core Course – 4

Course Code : PHIL – G – CC- T – 4

Course Title : Social and Political Philosophy

Course Out come :

3. Study of social and political philosophy helps students to develop elaborate knowledge regarding the nature and scope of both social and political philosophy.
4. Studying social and political philosophy opens the scope for higher education and research both in Sociology and political science.

Course Name : Discipline Specific Elective – 1A

Course Code : PHIL – G – DSE- T – 1A

Course Title : Philosophy of Religion

Course Out come :

3. Philosophy of Religion will develop detailed knowledge regarding various religious terms, concepts and doctrines in both Western as well as Indian Philosophical Perspective.
4. In their engagement with religious traditions, ideas and practices students can develop their sense of social responsibility and ability to navigate the complexities of our global multicultural societies.

Course Name : Discipline Specific Elective – 1B

Course Code : PHIL – G – DSE- T – 1B

Course Title : Western Ethics

Course Out come :

5. Students will have detailed information about Western ethics and will develop critical insight on this.
6. After successful completion of this course the students will have clear concept of the ethical terms -right, wrong, good, bad and their usage.
7. Understand the moral principles and their application in decision- making throughout their life.
8. Develop a sense of value that will help them to become a good human being.

Course Name : Skill Enhancement Course - 1

Course Code : PHIL – G – SEC- T-01

Course Title : Logical Rules and Fallacies(Indian)

Course Out come :

3. Students will be familiar with Indian logic through the classical Indian text Tarkasangraha.
4. Students will get detailed knowledge about definition and classification of Anumana from Nyaya and Buddhist model.

Course Name : Skill Enhancement Course - 2

Course Code : PHIL – G – SEC- T- 02

Course Title : Logical Rules and Fallacies(Western)

Course Out come :

3. By study this course students will gain knowledge of the various methods of Western logic. R. Jeffrey's methods of truth tree is learnt. they also study P. Suppee's Set Theory.
4. This paper increases the logical reasoning of the students.

Course Name : Skill Enhancement Course - 03

Course Code : PHIL – G – SEC- T- 03

Course Title : Philosophy in Practice

Course Out come :

1. Students can know about the nature of philosophy and Darsana.
2. They can differentiate between the philosophy and darsana.
3. They can also know about the way of getting knowledge.
4. They can get a metaphysical concept about the God, Soul, Life after death etc. from here.
5. They can get a view about the perfection of plato.
- 6.They can get an over view about the Gita, Ten Commanments etc

Course Name : Skill Enhancement Course - 04

Course Code : PHIL – G – SEC- T- 04

Course Title : Yoga Philosophy

Course Out come :

1. Students can get a good mental and physical health.
2. Students can also know how Jaina and Bauddha philosophers practice yoga in their own way.
3. They can also know how in Bhgavat Gita Sri Krishna adviced Arjuna about the importance of Yoga in our life. They can practice it in their life also.

Course Name : Generic Elective Course - 01

Course Code : PHIL – G – GE- T- 01

Course Title : Applied Ethics

Course Out come :

3. Applied ethics examines our common and individual morality for inconsistencies failure to apply agreed principles and new principles that may have a radical effect on our moral behaviour.
4. Applied ethics provides guidance to our lives. It is the pathway to principle based decision. It opens up research avenues.

Course Name : Generic Elective Course - 02

Course Code : PHIL – G – GE- T- 02

Course Title : Inductive Logic

Course Out come :

1. Students will gain comprehensive knowledge of the rules of Definition and Division.
2. Mathematical Application
3. Reasoning Aptitude
4. Preperation for copetitive Examination
5. The power of sense of Resoning for Day to day life.

KRISHNAGAR WOMEN'S COLLEGE

DEPARTMENT OF PHYSICS

B.SC. PHYSICS (PROGRAMME/GENERAL)

CBCS CURRICULUM WITH EFFECT FROM ACADEMIC SESSION

2018-19

❖ PROGRAMME SPECIFIC OUTCOMES

After successful completion of B.Sc. Physics (Programme) students will be able to:

1. Develop the skills to apply mathematical methods in solving problems of interest in physics.
2. Apply the basic principles of Physics to the events occurring around us.
3. Try to find out or analyze scientific reasoning for various things.
4. Use of computers and various software and programming skills.
5. Conscious of environmental and societal responsibilities.
6. Communicate scientific information in a clear and concise manner both orally and in writing.
7. Develop abilities for logical thinking.
8. Craft a foundation for higher learning and career.
9. Employ critical thinking and the scientific knowledge to design, carryout, record and analyze the results of Physics experiments.

❖ COURSE OUTCOMES

❖ CORE COURSE

Core Course 01 (any one)

PHY-G-CC-T-01: Mathematical Physics-I:

1. Learn and understand calculus.
2. Understand Taylor and Binomial series and their applications in physics.
3. Understand basics of vector calculus.
4. Understand divergence, gradient and curl and their physical interpretation.
5. Understand divergence theorem, Green's theorem, and Stokes' theorem and appreciate its applications.
6. Understand differential equations i.e. first order ordinary differential equation, second order ordinary differential equations with constant coefficients and their applications in physics.
7. Know the Cartesian, spherical polar and cylindrical co-ordinate systems and their applicability in physics.
8. Understands Dirac Delta function and its properties.

PHY-G-CC-P-01: Mathematical Physics-I:

1. Understand the Basics of FORTRAN.
2. Learn to use of computational methods to solve physical problems.

PHY-G-CC-T-01: Mechanics:

1. Understand reference frames, Newton's Laws of motion and their applications such as projectile motion, rocket motion, simple harmonic oscillator and elastic and inelastic collisions.
2. Gain the knowledge of motion in central force field and its applications.
3. Understand the dynamics of rotating objects and its applications in our day to day life.
4. Understand the basics of material properties like, elasticity, basics of motion of fluid etc and their applications in daily life.
5. Develop understanding of special theory of relativity and its applications like conservation of momentum and variation of mass, relativistic momentum, relativistic energy and mass-energy relation.

PHY-G-CC-P-01: Mechanics:

1. A working knowledge of basic principles of mechanics.
2. Get familiar with various measuring instruments.
3. Learn the importance of accuracy of measurements.

PHY-G-CC-T-01: Electricity and Magnetism:

1. Learn about one of the fundamental interactions of electricity and magnetism, both as separate phenomena and as a singular electromagnetic force and its applications.
2. Understand the concept of conductors, dielectrics, inductance and capacitance.
3. Gain knowledge on electromagnetic induction and its applications
4. Understand the basic aspects of ac circuits.
5. Understand electrical network theorems and its applications.

PHY-G-CC-P-01: Electricity and Magnetism:

1. Gain practical knowledge about different principles of electricity and magnetism, and network theorems.
2. Get familiar with various electrical measuring instruments such as multimeter, voltmeter, ammeter etc and their use in measurements such as Resistance, Voltage, current etc.

Core Course 02 (any one)**PHY-G-CC-T-02: Waves and Optics:**

1. Understand phenomenon based on light and Get skills to identify and apply formulas of optics and wave physics.
2. Understand the basic ideas of interference of light and its applications in design and working of interferometers.
3. Understand and apply the basic ideas of diffraction of light.
4. Understand the resolving power of different optical instruments.

PHY-G-CC-P-02: Waves and Optics:

1. Gain practical knowledge of wave motion by doing experiments.
2. Gain practical knowledge of optical phenomena such as interference, diffraction etc through experiments
3. Able to determine refractive index, wavelength of light etc with the help of different optical instruments.

PHY-G-CC-T-02: Mathematical Physics-II:

1. Understand Frobenius method for solving differential equations, special functions, partial differential equations and their applications in physics.
2. Understand Fourier series and its application in physics.
3. Gain knowledge about theory of errors and its applications.

PHY-G-CC-P-02: Mathematical Physics-II:

1. Understand the basics of scilab.
2. Learn to use of computational methods to solve physical problems.

PHY-G-CC-T-02: Thermal Physics:

1. Able to understand the basic physics of heat and temperature and their relation with energy, work, radiation and matter.
2. Learn how the laws of thermodynamics are used in a heat engine to transform heat into work.
3. Understand the basic ideas of entropy.
4. Understand the concepts of thermodynamic potentials and phase transitions.
5. Learn Maxwell Relations and its applications.
6. Understand the thermodynamics description of the ideal and real gases.

PHY-G-CC-P-02: Thermal Physics:

1. Gain practical knowledge about heat, thermo emf etc.
2. Gain practical knowledge of basic principles of thermodynamics by performing various experiments.

PHY-G-CC-T-02: Digital Systems and Applications:

1. Understand the fundamentals of number system, the binary arithmetic, logics and Boolean functions.
2. Learn basic gates and its applications.
3. Combinational Circuits like Adder, Subtractor and Multiplexer etc.
4. Sequential Logic Circuits, Flip- Flop, Counters and Shift Register.
5. Learn about basics of computers.
6. Learn about basics of 8085 microprocessor.

PHY-G-CC-P-02: Digital Systems and Applications:

1. Learn to Apply and illustrate the principles of digital electronics through experiments.

2. Know how to measure voltage, and time period of a periodic waveform using CRO.
3. Able to verify and design AND, OR, NOT, XOR gates using NAND gates.

Core Course 03 (any one)

PHY-G-CC-T-03: Mathematical Physics-III:

1. Understand complex analysis and its applications in solving problems in physics.
2. Understand Fourier Transforms and its applications to differential equations: One dimensional Wave and Diffusion/Heat Flow Equations.
3. Understand Laplace Transforms and its applications to Differential Equations: Damped Harmonic Oscillator, Simple Electrical Circuits.

PHY-G-CC-P-03: Mathematical Physics-III:

1. Understand the Basics of FORTRAN.
2. Learn to use of computational methods to solve physical problems.

PHY-G-CC-T-03: Elements of Modern Physics:

1. Know about the basic principles in the development of modern physics such as the study of Planck's hypothesis, photoelectric effect, Compton Effect, matter waves, atomic models, Schrodinger wave equations, and brief idea of nuclear physics.
2. Learn about radioactivity and its applications.
3. Understand the basic principle and working of different types of lasers, and its applications in various fields.

PHY-G-CC-P-03: Elements of Modern Physics:

1. Able to understand basic experiments of modern physics such as: Determination of Plank's constant.
2. Gain practical knowledge about single and double slit diffraction.

PHY-G-CC-T-03: Analog Systems and Applications:

1. Understand the properties of semi conductors.
2. Know about common solid state devices: Semiconductor diodes and transistors and their applications such as rectifier, transistor amplifier etc.
3. Learn about Oscillators and its applications.
4. Learn about Operational Amplifier and its applications.

PHY-G-CC-P-03: Analog Systems and Applications:

1. Verification of different types of diode and transistor characteristics by doing practical experiments.
2. Gain practical knowledge of working of operational amplifier and design of inverting and non-inverting amplifiers with it.
3. Gain practical knowledge about different electronic devices.

Core Course 04 (any one)

PHY-G-CC-T-04: Quantum Mechanics and Applications:

1. Understand the particle properties of electromagnetic radiation and wavelike properties of particles.
2. Understand De-Broglie hypothesis and Uncertainty principle.
3. Understand the origins of quantum mechanics and explain the differences between classical and quantum mechanics
4. Physical Interpretation of Wave function, Schrödinger's Wave Equation, Eigen Function and Eigen values.
5. Understand and apply the Schrödinger equation to simple physical systems.
6. Apply the principles of wave mechanics to the Hydrogen like atoms.
7. Understand how atoms and molecules behave in electric and magnetic fields.
8. Know how things happen beyond our normal observations i.e. at atomic and subatomic level.

PHY-G-CC-P-04: Quantum Mechanics and Applications:

1. Understand the Basics of FORTRAN.
2. Learn to use of computational methods to solve physical problems in quantum mechanics.

PHY-G-CC-T-04: Solid State Physics:

1. Understand the difference between crystalline and amorphous material, crystal structures, interatomic forces and bonds, and get to learn the basics of solid state physics.
2. Learn about phonons and elementary lattice dynamics.
3. Understand dielectric properties of materials
4. Able to describe and explain the behavior of permanent magnet including induced magnetism, behavior of paramagnetic, diamagnetic, ferromagnetic materials.
5. Understand electrical and thermal conductivity of metals, energy bands in materials, and Hall Effect.
6. Understand superconducting materials, their properties and technological applications of superconductivity.

PHY-G-CC-P-04: Solid State Physics:

1. Gain practical knowledge of various physical phenomena such as: magnetism, dielectrics, ferroelectrics and semiconductors.

PHY-G-CC-T-04: Electromagnetic Theory:

1. Ability to analyze Maxwell's equation in different forms (differential and integral) and apply it to diverse situations of interest.
2. Understand the phenomena of wave propagation in different media and its interfaces including reflection and transmission of plane electromagnetic wave at the plane boundary of two homogeneous media.
3. Understand the basics of polarization of electromagnetic waves.
4. Analyze the nature of electromagnetic wave propagation in guided medium and basics of optical fibres.

PHY-G-CC-P-04: Electromagnetic Theory:

1. Gain practical knowledge of the basic principles of electromagnetic theory.
2. Able to determine specific rotation of some active substances by doing experiments.

PHY-G-CC-T-04: Statistical Mechanics:

1. Understand the basics of statistical methods and concepts like probability, random variables, expectation value etc.
2. Understand the relation between microscopic and macroscopic description through statistical mechanics.
3. Understand statistical distribution of system of particles and acquire the skill of solving problems based on it.
4. Know about types of ensembles viz. Microcanonical, canonical and grand canonical ensembles.
5. Get the knowledge about Maxwell Boltzmann statistics, Bose Einstein statistics and Fermi Dirac Statistics.

PHY-G-CC-P-04: Statistical Mechanics:

1. Understand the basics of scilab.
2. Learn to use of computational methods to solve problems on statistical mechanics.

❖ **SKILL ENHANCEMENT COURSE**
[Any four (PHY-G- SEC-T-(01-04)]

I. Physics Workshop Skill:

1. Get familiar and experience with various mechanical and electrical tools through hands-on mode.
2. Develop skills to handle some electronics instruments.

II. Computational Physics Skills:

1. Learn to use of computational methods to solve physical problems.
2. Learn to use of computer language as a tool in solving physics problems.
3. Learn scientific word processing and graphical analysis.

III. Electrical Circuits & Network Skills:

1. Develop skills to design the electrical circuits, networks and appliances through hands-on mode.
2. Gain practical experience of troubleshooting the electrical circuits, networks and appliances.

IV. Basic Instrumentation Skills:

1. Get exposure with various aspects of instruments and their usage through hands-on mode.
2. Learn to use of CRO as a versatile measuring device
3. Learn to use of Digital multimeter.

V. Renewable Energy and Energy Harvesting

1. Understand the importance of non conventional energy sources.
2. Understand basic aspects of solar energy.
3. Understand basic principles of wind energy conversion
4. Understand the basic ideas of geothermal energy and oceans energy resources and recognize their merits and demerits.

VI. Technical Drawing:

1. Learn different aspects of technical drawing.

VII. Radiation Safety:

1. Gain the knowledge of different types of radiation and its interactions with matter.
2. Gain knowledge and understanding of radiation hazards and safety.
3. Learn about the applications of nuclear techniques.

VIII. Applied Optics:

1. Learn about the basics of optical sources i.e. LASERS.
2. Learn about different kinds of detectors.
3. Learn about the basic principles of holography and fibre optics.

IX. Weather Forecasting:

1. Understand the causes and effects of different weather phenomenon.
2. Learn about the basic forecasting techniques.

❖ DISCIPLINE SPECIFIC ELECTIVE COURSE

Discipline Specific Elective Course 01 (any one)

PHY-G-DSE-T-01: Mechanics:

1. Understand reference frames, Newton's Laws of motion and their applications such as projectile motion, rocket motion, simple harmonic oscillator and elastic and inelastic collisions.
2. Gain the knowledge of motion in central force field and its applications.
3. Understand the dynamics of rotating objects and its applications in our day to day life.
4. Develop understanding of special theory of relativity and its applications like conservation of momentum and variation of mass, relativistic momentum, relativistic energy and massenergy relation.

PHY-G-DSE-P-01: Mechanics:

1. A working knowledge of basic principles of mechanics.
2. Get familiar with various measuring instruments.

3. Learn the importance of accuracy of measurements.

PHY-G-DSE-T-01: Electricity and Magnetism:

1. Learn about one of the fundamental interactions of electricity and magnetism, both as separate phenomena and as a singular electromagnetic force and its applications.
2. Gain knowledge on electromagnetic induction and its applications
3. Ability to analyze Maxwell's equation in different forms (differential and integral) and learn about the basics of propagation of electromagnetic waves.

PHY-G-DSE-P-01: Electricity and Magnetism:

1. Gain practical knowledge about different principles of electricity and magnetism.
2. Get familiar with various electrical measuring instruments such as multimeter, voltmeter, ammeter etc and their use in measurements such as Resistance, Voltage, current etc.

PHY-G-DSE-T-01: Thermal Physics and Statistical Mechanics:

1. Able to understand the basic physics of heat and temperature and their relation with energy, work, radiation and matter.
2. Learn how the laws of thermodynamics are used in a heat engine to transform heat into work.
3. Understand the basic ideas of entropy.
4. Understand the concepts of thermodynamic potentials.
5. Learn Maxwell Relations and its applications.
6. Understand the basics of statistical methods and the relation between microscopic and macroscopic description through statistical mechanics.
7. Get the knowledge about Maxwell Boltzmann statistics, Bose Einstein statistics and Fermi Dirac Statistics.

PHY-G-DSE-P-01: Thermal Physics and Statistical Mechanics:

1. Gain practical knowledge about heat, thermo emf etc.
2. Gain practical knowledge of basic principles of thermodynamics by performing various experiments.

PHY-G-DSE-T-01: Waves and Optics:

1. Understand phenomenon based on light and Get skills to identify and apply formulas of optics and wave physics.
2. Understand the basic ideas of interference of light and its applications in design and working of interferometers.
3. Understand and apply the basic ideas of diffraction of light.

PHY-G-DSE-P-01: Waves and Optics:

1. Gain practical knowledge of wave motion by doing experiments.
2. Gain practical knowledge of optical phenomena such as interference, diffraction etc through experiments

3. Able to determine refractive index, wavelength of light etc with the help of different optical instruments.

Discipline Specific Elective Course 02 (any one)

PHY-G-DSE-T-02: Digital, Analog Circuits and Instrumentation:

1. Understand the properties of semi conductors.
2. Know about common solid state devices: Semiconductor diodes and transistors and their applications such as rectifier, transistor amplifier etc.
3. Learn about Oscillators and its applications.
4. Learn about Operational Amplifier and its applications.
7. Understand the fundamentals of number system, the binary arithmetic, logics and Boolean functions.
8. Learn basic gates and its applications.

PHY-G-DSE-P-02: Digital, Analog Circuits and Instrumentation:

1. Verification of different types of diode and transistor characteristics by doing practical experiments.
2. Gain practical knowledge of working of operational amplifier and design of inverting and non-inverting amplifiers with it.
3. Learn to Apply and illustrate the principles of digital electronics through experiments.
4. Know how to measure voltage, and time period of a periodic waveform using CRO.
5. Able to verify and design AND, OR, NOT, XOR gates using NAND gates.

PHY-G-DSE-T-02: Elements of Modern Physics:

1. Know about the basic principles in the development of modern physics such as the study of Planck's hypothesis, photoelectric effect, Compton Effect, matter waves, atomic models, Schrodinger wave equations, and brief idea of nuclear physics.
2. Learn about radioactivity and its applications.

PHY-G-DSE-P-02: Elements of Modern Physics:

1. Able to understand basic experiments of modern physics such as: Determination of Plank's constant.
2. Gain practical knowledge about single and double slit diffraction.

PHY-G-DSE-T-02: Solid State Physics:

1. Understand the difference between crystalline and amorphous material, crystal structures, interatomic forces and bonds, and get to learn the basics of solid state physics.
2. Learn about phonons and elementary lattice dynamics.
3. Understand dielectric properties of materials
4. Able to describe and explain the behavior of permanent magnet including induced magnetism, behavior of paramagnetic, diamagnetic, ferromagnetic materials.
5. Understand electrical and thermal conductivity of metals, energy bands in materials, and Hall Effect.

6. Understand superconducting materials, their properties and technological applications of superconductivity.

PHY-G-DSE-P-02: Solid State Physics:

1. Gain practical knowledge of various physical phenomena such as: magnetism, dielectrics, ferroelectrics and semiconductors.

PHY-G-DSE-T-02: Quantum Mechanics:

1. Understand the particle properties of electromagnetic radiation and wavelike properties of particles.
2. Understand De-Broglie hypothesis and Uncertainty principle.
3. Understand the origins of quantum mechanics and explain the differences between classical and quantum mechanics
4. Physical Interpretation of Wave function, Schrödinger's Wave Equation, Eigen Function and Eigen values.
5. Understand and apply the Schrödinger equation to simple physical systems.
6. Apply the principles of wave mechanics to the Hydrogen like atoms.
7. Understand how atoms and molecules behave in electric and magnetic fields.
8. Know how things happen beyond our normal observations i.e. at atomic and subatomic level.

PHY-G-DSE-P-02: Quantum Mechanics:

3. Understand the Basics of FORTRAN.
4. Learn to use of computational methods to solve physical problems in quantum mechanics.

PHY-G-DSE-T-02: Nuclear and Particle Physics:

1. Understand the basic properties and idea of inner information of the nucleus and the fundamental of radioactivity.
2. Understand of the different nuclear models.
3. Understand the nuclear radiations and gain knowledge and understanding of radiation hazards and safety.
4. Understand the procedures for nuclear fission and fusion.
5. Understand the principle and working of particle detectors and accelerators
6. Understand the basic principles of elementary particle physics.

KRISHNAGAR WOMEN'S COLLEGE

UNDER GRADUATE DEPARTMENT OF POLITICAL SCIENCE

B.A. Political Science (Hons and Prog) CBCS Syllabus With effect from

2018-19

Programme Specific Outcomes

Under KALYANI UNIVERSITY this has opened a new dimension in the teaching-learning process.

KRISHNAGAR WOMEN'S COLLEGE
Three year B.A. /B.Sc. degree course Under
CBCS semester system

HONOURSCOURSEINPOLITICALSCIENCE

Witheffectfromthesession:2018-2019

CourseName: CoreCourse-
1 CourseCode: POL-H-CC-1
TopicName: Understanding Political Theory : Concepts

CourseOutcome:Familiarizes students with basic normative political theory concepts. Encouragescriticalandreflectiveanalysis,interpretationofsocialpractices. Familiarizes with important debates of the subject

CourseName: Core Course-2
CourseCode: POL-H-CC-T-
II
Topic Name: Understanding Political Theory: Approaches and Debates
Course Outcome:

Asaresultofreadingpoliticaltheories,thebasicthoughtsofpoliticsamongthestudentsbecameveryclear.

PoliticaltheoryisthemainentrancetopoliticalsciencefortheStudents.

CourseName: Core Course-3
CourseCode: POL-H-CC
T3:
Topic Name: Politics in India
Course Outcome:

Studentscanmaptheworkingofmoderninstitutions.

FamiliarizesstudentswiththeworkingoftheIndianState.

Theycanunderstandthecontradictorydynamicsofmodernstatepower.

CourseName: Core Course-4
CourseCode: POL-H-CC-T-
4:
Topic Name: Indian
Constitution

Thiscourseacquaintsstudentswiththeconstitutionaldesignofstatestructuresandinstitutions,andtheiractual working overtime.

Course Outcome:

Itfurtherencouragesastudyofstateinstitutionsintheirmutualinteraction,andininteractionwiththelargere xtra- constitutionalenvironment

CourseName: Core Course-5
CourseCode: POL-H-CC-T-5
Topic Name: Indian Political Thought (Ancient and Medieval)

This course introduces the specific elements of Indian Political Thought spanning over two millennia.

Course Outcome: The basic focus of study is on individual thinkers whose ideas are however framed by specific themes.

The course as a whole is meant to provide a sense of the broad streams of Indian thought while encouraging a specific knowledge of individual thinkers and texts.

CourseName: Core Course-6
CourseCode: POL-H-CC-T-6
Topic Name: Indian Political Thought (Modern)

Introduces a wide span of thinkers and themes that define the modernity of Indian Political Thought.

Course Outcome:

Understands general themes from varied social and temporal contexts.

Understands the relevance and importance of these thinkers in present times.

CourseName: Core Course-7
CourseCode: POL-H-CC-T-7
Topic Name: : Understanding International Relations: Theories and Concepts.

This paper seeks to equip students with the basic intellectual tools for understanding International Relations.

Course Outcome: It introduces students to some of the most important theoretical approaches for studying international relations. The course begins by historically contextualizing the evolution of the international state system; then the students are introduced to different theories in International Relations.

It provides a fairly comprehensive overview of the major political developments and events starting from the twentieth century. Students are expected to learn about the key milestones in world history and equip them with the tools to understand and analyze the same from different perspectives.

A key objective of the course is to make students aware of the implicit Eurocentricism of International Relations by highlighting certain specific perspectives from the Global South.

CourseName: Core Course-8
CourseCode: POL-H-CC-T-8
Topic Name:

Course Outcome:

Public Administration (Theories & Concepts)

public administration. (2) This paper encompasses public administration in its historical context with an emphasis on the various classical and contemporary administrative theories.

(3) The course also explores some of the recent trends, including feminism and ecological conservation and how the call for greater democratization is restructuring public administration.

(4) Students will demonstrate understanding of current issues and trends in government administrative settings and provide knowledge on addressing challenges created by those changes.

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CourseName: Core Course-9
CourseCode: POL-H-CC-T-9:
Topic Name: Public Policy and Administration in India

UnderstandstheinterfacebetweenpublicpolicyandadministrationinIndia.

Course Outcome: Understandstheissuesofcitizens,administration,decentralization,financialmanagement,socialwelfare, governingphilosophyfromnon-westernperspective.

Understandstranslationofgoverningphilosophyandprinciplesintopoliciesandprogrammes.

CourseName: Core Course-10
CourseCode: POL-H-CC-T-10
Topic Name: Global Politics & Issues since 1945

Introducesthestudentstothekeydebatesonthemeaningandnatureofglobalization.

Course Outcome: Impartsanunderstandingoftheworkingoftheworldeconomyandanalyzingthechangingrelationshipbetween thestateandnon-stateactors.

Providesinsightsintokeycontemporaryglobalissues.

CourseName: Core Course-11
CourseCode: POL-H-CC-T-11
TopicName: Western Political Thought (Ancient & Medieval)

CourseOutcome: ThecoursegivesanintroductiontoPoliticalThoughtprocessesandTheorymakingintheWesterncountries.

FromtheGreekPoliticalthinkerstodowntheagesincludingUtilitarians,thiscourseintroducesthestudenttotherichnessandvariationsinthepoliticalperceptionsofWesternThinkers.

CourseName: Core Course-12
CourseCode: POL-H-CC-T-12
Topic Name: Western Political Thought (Modern)

ThecoursegivesanintroductiontoPoliticalThoughtprocessesandTheorymakingintheWesterncountries

Course
Outcome:

CourseName: Core Course-
13 CourseCode: POL-H-CC-T-
13

Topic Name: **Introducing Political Sociology**

Understandstheconvergencebetweenphilosophyandpolitics.

Course Outcome: Learnsthemannerinwhichtoposethepoliticalquestionsthathaveimplicationsforlargerquestionsofthoughtandexistence.
.Studentsgettrainingintheapplicationofcomparativemethodstothestudyofpolitics. 2.Comparativelearningofwhattostudyandhowtostudytakesplace.
. Issues, methods and literature relating to comparative political arena can be known

CourseName: Core Course-
14 CourseCode: POL-H-CC-T-
14

Topic Name: **Comparative Government and Politics**

Thepoliticalsystemofdifferentcountriesoftheworldopensthe wayforpoliticalsciencestudentstoknowthe

Course Outcome: advantagesanddisadvantagesofpoliticalparties,constitutionalstructuresandpoliticalcultureofothers tates.

TheycanpointouttheAdvantages-
Disadvantagesintheconstitutionalframeworkoftheircountry'spoliticalsystem
andexpresstheirviewsonthematter.

CourseName: **Discipline Specific Elective-**
1 CourseCode: **POL-H-DSE-T-1(A) POL-**
H-DSE-T-1(B):
TopicName: **Citizenship in a Globalizing World**

Public Policy in India

CourseOutcome:The socialandpoliticalsystemofIndiaisbasedonGandhianphilosophy.India'sindependencestruggle,India's politicalideology,India'sconstitutionisbasedonGandhianthought.Therefore,asastudentofpoliticalscience,one mustknowGandhi'sjudgmentandphilosophy.Throughthestudyofthispaper,Gandhianphilosophywasinculcated in thestudents.
Inthepresentsocio-politicalcontext,therelevanceofGandhiji'sideasofnon-violence,satyagraha,RamRajya, andgoodgovernancecanbeunderstoodthroughstudy.Gandhi'sphilosophyhelpstobeagoodcitizenofthefuture.

CourseName: **Discipline Specific Elective-**
2 CourseCode: **POL-H-DSE-T-2(A)**
POLH DSE-T-2(B)
Topic Name:

Course Outcome:

Development Process and Social Movements in Contemporary India Human Rights in a Comparative Perspective

It helped the students to understand that the key issue in international politics is national interest and power. Each state is constantly engaged in pursuing its own interests or increasing power. Any state is not self-sufficient in commodities. Every state dependent on other states for defense assistance, technical assistance and other assistance.

It helped the students to understand that what determines the relationship between different states. How the relationship changes over time, how the enemy becomes a friend, how the friendly state becomes an enemy, how small regional events become international in the age of globalization.

CourseName: Discipline Specific Elective-
3 CourseCode: POL-H-DSE-T-3(A) or
POL-H-DSE-T-3(B)
Topic Name: Understanding South Asia or India's Foreign Policy in a Globalizing World

UnderstandsthebasicconceptandimportanceofHumanRightsinhumansociety.

Course Outcome: Bothfromwesternandnon-westernperspectives,thestudentscananalyzedifferentissuesrelatingtohuman rights.

Theydevelopbasicconsciousnessabouthumanrightsandequalityforall.

CourseName: Discipline Specific Elective-
4 CourseCode: POL-H-DSE-T- 4 (A) or
POL-H-DSE-T- 4 (B)

Topic Name: Dilemmas in Politics or Dissertation

Thestudentsunderstandthebasicfunctioning,ideas,principles,motivationandchallengesofgovernance, particularly, democratic 'good'governance.

Course Outcome:

Understandstheimportanceofgreengovernanceinpresenttimes.

Understandstherelationshipbetweencitizenshipandgovernance.

CourseName: Skill Enhancement Course
1

CourseCode: POL-H-SEC-T-1(A) or B

TopicName: Legislative Practices and Procedures or **DemocraticAwarenesswithLegalLiteracy**

CourseOutcome: Therelationshipoflawwithpoliticalscienceisverysignificant.Everylawismadeinaccordancewiththe constitution.ThebasicstructureofthelégalsysteminIndiaanditsbasicpurposeiscleartothestudentsthrough this paper.

Thebasicstructureofcriminallawandcivillawhasbeenmadecléartothestudents.

)Fundamentalrightsandtheruleoflawhavebeenestablishedintheirknowledge.

Thestudentshavecometoknowaboutthelawsrelatedtodailylifelikethis

Child Marriage Prevention Act, Cyber Law, Consumer Protection Act, Dowry Prevention Act etc .

ThestudentshavebeeninformedabouthowtodotheFIR,informationaboutthedetention,informationabout therightsofthedetaineesafterdetention,whichisaveryimportantstudyfortheirsociallife.

CourseName: Skill Enhancement Course-
2 CourseCode: POL-H-SEC-T-2(A) or B
Topic Name:

Course Outcome: Public Opinion and Survey Research or Peace and Conflict Resolution

Introduce the student to the debates, principles and practices of public opinion.

Learn how to conceptualize and measure public opinion by using different research methods.

KRISHNAGAR WOMEN'S COLLEGE
Three year B.A. /B.Sc. degree course Under CBCS semester system

GENERAL COURSE IN POLITICAL SCIENCE

With effect from this session: 2018-2019

Course Name:
Course Code:
Topic Name:

Course Outcome:

Core Course -1

POL-G-CC-T-1

Introduction to Political Theory

As a result of reading political theories, the basic thoughts of politics among the students became very clear.

Political theory is the main entrance to political science for the students.

Course Name:
Course Code:
Topic Name:

So there are various views on the interpretation of state and politics which is very necessary to students of political science.

Course Outcome:

Concept of politics is created by reading political theory. This part is very useful in the development of political knowledge.

After reading political theory, studying the other topics of political science has become easy and logical for students.

Core Course-2

POL-G-CC-T-2

Indian Government and Politics

Understands the Constitution of India, the state structure and functioning.

Understands the interaction of the state with larger extra-constitutional environment.

Course Name:
Course Code:
Topic Name:

Course Outcome:

Course Name: Course Code: Topic Name:

Course Outcome:

Core Course - 3 Equip the students with basic intellectual tools to understand international relations.

**POL-G-CC-T-3
Comparative
Government
and Politics** Learn to analyze world political developments and application of theoretical tools to understand the changes in world politics.

This is a basic course in comparative politics. Comparative politics is the systematic study and comparison of the diverse political systems in the world. It is comparative in searching to explain why different political systems have similarities or differences and how development changes came to be between them.

Students may get a comparative idea about capitalism and socialism

this course introduces students with the difference constitutional frameworks and political economy of different countries.

**Core Course-4
POL-G-CC-T-4**

**Introduction to
International
Relations**

CourseName: Discipline Specific Elective Course 1

CourseCode: POL-G-DSE-T-1(A) or B

Topic Name: Citizenship in a Globalizing World or Public Policy in India

Course Outcome:

Understand the theories of citizenship and the historical development of the concept. Develop an idea about citizenship as a practice in an increasingly globalizing world. Understand various theories and methods of understanding public policy and governance

Course Name: Discipline Specific Elective-2

CourseCode: POL-G-DSE-T-2(A) or B

Topic Name: Understanding South Asia or India's Foreign Policy in a Globalizing World

Course Outcome:

The course introduces students to the key debates on the meaning and nature of globalization by addressing its political, economic, social and technological dimension. Understand the Geo-politics of South Asia as a region. Have an insightful understanding about India's foreign policy preferences in the globalizing World

B.A. Political Science (Honours) SEMESTER-I

Course Name: Generic Elective Course (GE)-1

CourseCode: POL-H-GE-T-1(A) or B

Topic Name: Reading Gandhi or Nationalism in India

Course Outcome: Understand historically the advent of colonialism in India and the emergence of the discourse on nationalism as a response to it. Engage with theoretical explanations of colonialism and nationalism in India at the same time study the social, political and institutional practices that unfolded in that period, gradually paving way towards independence and democracy in India. Understand the basic concept, nature and importance of human rights. Acquaint with the social and political thought of Gandhi.

Course Name:

Generic Elective Course (GE)-2

CourseCode: POL-H-GE-T-2(A) or B

TopicName: Human Rights, Gender and Environment or
Governance, Issues and Challenges

CourseOutcome: Understand the relationship between citizenship and governance.
Develop awareness about importance of human rights in life.

Can analyze different dimensions and challenges of human rights. Help us to assess the institutional and policy measures which have been taken in response to the demands of various movements. Help us to understand the conceptual dimensions, international trends and the Indian experience

Krishnagar Women's College
Department of Sanskrit(U.G.)
B.A. Sanskrit(Hons.)CBCS Syllabus
With effect from 2018-2019

#Programme Specific Outcomes#

- > The undergraduate course in Sanskrit(Hons.) has been designed in a way so that the students can learn variety of traditional as well as modern disciplines in Sanskrit studies and they can strengthen their knowledge of the language.
- > After successfully completing the course, the students will obtain a transparent vision about the Vedic studies, the mammoth volume of literature viz. Prose, Poetry and Drama and their literary criticism; Sanskrit grammar which covers a large area of linguistics; Philosophy and logic, Dharmashastra which covers many areas of sociology and legal studies.
- > The Honours course will especially focus on issues which have a contemporary resonance.
- > Through the project works they can enhance their ideas about research.
- > Communicative Sanskrit helps to enhance the speaking ability of the students in Sanskrit Language.
- > Since the programme also offers a wide range of elective courses(DSE) to the students, skills learnt during the entire course will immensely help the students to continue their post graduate studies and undertake further research in these disciplines.

Krishnagar Women's College
Course Outcome
3year B.A./B.Sc. Degree Course
Under CBCS Semester System
Honours Course in Sanskrit
With effect from the session: 2018-2019

Course Name: CC-1
Course Code: SANS-H-CC-T-01
Topic Name: Classical Sanskrit Literature (Poetry)

Course outcome:

- > After successful completion of this course students will be able to:
 - 1) understand the composition and literary skills of the some great poets.
 - 2) They will also learn to compare the writing styles of different poets of different ages.
 - 3) understand how to 'Shataka' Kavya were invented to teach ethics,i.e. 'Nitishatakam'

4) Understand the origin and development of 'Mahakavya's(Epic) and 'Gitikavya's(Lyrical Poetry).

Course Name: CC-2

Course Code: SANS-H-CC-T-02

Topic Name: Critical Servey of Sanskrit Literature

Course Outcome:

> After successful completion of this course students will be able to

1) learn about different parts of the Vedic literature.

2) know the time and subject matter of the Ramayana.

3) learn about the time, subject matter and cultural importance of the Mahabharata.

4) know the subject matters, characteristics, social and historical importance of the Puranas.

5) get an idea of different branches of Sanskrit literature.

Course Name: CC-3

Course Code: SANS-H-CC-T-03

Topic Name: Classical Sanskrit Literature (Prose)

Course Outcome:

> After successful completion of this course the students will be able to:

1) read different prose romances ,composed by different prose-writers(Gadyakavi).

2) get an idea of origin and development of prose, important prose romances and fables.

Course Name: CC-4

Course Code: SANS-H-CC-T-04

Topic Name: Sanskrit Composition and Communication

Course Outcome:

> After successful completion of the course the students able to :

1) understand the concept of various grammatical terms viz. Sutra, Vartika, Bhashya, Guna, Upadha etc.

2) understand the rules of Karaka , Sandhi etc. in Sanskrit grammar after Laghusiddhantakaumudi.

3) communicative Sanskrit helps to enhance the speaking ability of the students in Sanskrit Language.

Course Name: CC-5
Course Code: SANS-H-CC-T-05
Topic Name: Classical Sanskrit Literature (Drama)

Course Outcome:

> After successful completion of the course the students able to:

- 1) know about the different dramas, composed by different Natyakaras.
- 2) learn about the skills as well as writing styles of different Natyakaras.

Course Name: CC-6
Course Code: SANS-H-CC-T-06
Topic Name: Poetics and Literary Criticism

Course Outcome:

> After successful completion of the course the students able to:

- 1) understand the origin and development of Sanskrit poetics.
- 2) understand the forms of literature
- 3) understand the power of words
- 4) understand the 'Rasa-Sutra' and it's prominent expositions.
- 5) understand and practice of the figures of speech (Alamkara) and metres(Chanda).

Course Name: CC-7
Course Code: SANS-H-CC-T-07
Topic Name: Indian Social Institutions and Polity

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the nature and concepts of Indian social institutions as reflected in the Vedas, Epics, Puranas and Dharmashastras.
- 2) learn about the structural pattern of the society through Varna and caste system; position of women at different stages of society.
- 3) understand the initial stages of Indian polity from Vedic period to Buddhist Period.
- 4) understand the cardinal theories of Indian polity.
- 5) understand the theories of some important thinkers on Indian Polity, i.e. Manu, Kautily and so on.

Course Name: CC-8

Course Code: SANS-H-CC-T-08

Topic Name: Indian Epigraphy, Palaeography and Chronology

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand what exactly Epigraphy is.
- 2) understand what exactly Palaeography is.
- 3) understand the importance of Indian epigraphs as a source of historical reconstruction of ancient Indian History and culture.
- 4) understand the contribution of scholars in the field of Epigraphy, i.e. Prinsep, Cunningham, Fleet, D.C.Sircar, G.H. Ojha, Buhler.
- 5) understand the antiquity of the art of writing.
- 6) learn about different ancient scripts viz. Early Brahmi, Gupta Brahmi, Siddhamatrika etc.
- 7) understand to transcribe a few epigraphs.
- 8) study some selected inscriptions
- 9) understand the ancient Indian Chronology, system of dating(chronograms), and main eras used in inscriptions(Vikrama samvat, Shaka era, Gupta era).

Course Name: CC-9

Course Code: SANS-H-CC-T-09

Topic Name: Modern Sanskrit Literature

Course Outcome:

> After successful completion of this course students will be able to:

- 1) understand the modern Sanskrit literature in India as well as in Bengal.
- 2) understand the classification and format of prose, poetry and drama through different texts.

Course Name: CC-10

Course Code: SANS-H-CC-T-10

Topic Name: Sanskrit and World literature

Course Outcome:

> After successful completion of this course the students will be able to :

- 1) understand the position of Sanskrit among the world literature.
- 2) understand the life and work of eminent scholars of the east as well as west.

Course Name: CC-11
Course Code: SANS-H-CC-T-11
Topic Name: Vedic Literature

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) learn the selective portions of Samhitas and Brahmanas.
- 2) understand Vedic Grammar viz. Declensions, Subjunctive Mood, Gerunds, Vedic Accent, Padapatha.

Course Name: CC-12
Course Code: SANS-H-CC-T-12
Topic Name: Sanskrit Grammar

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the concept of various grammatical terms viz. Sutra, Vartika, Bhashya, Guna, Upasarga, Gati and so on.
- 2) understand the rule of Karaka in Sanskrit Grammar according to Siddhantakaumudi.
- 3) understand the rules of Samasa as reflected in Siddhantakaumudi.

Course Name: CC-13
Course Code: SANS-H-CC-T-13
Topic Name: Indian Ontology and Epistemology

Course Outcome:

> After successful completion of this course the students will be able to :

- 1) understand the meaning and purpose of Indian Philosophy and general classification of philosophical schools.
- 2) understand the difference between the doctrines of realism and idealism, dualism, pluralism, causation and naturalism.
- 3) understand the doctrine of real transformation, illusory transformation and non-preexistence of effect in cause.
- 4) understand the theories of ontology based on Tarkasamgraha.
- 5) understand the theories of epistemology based on Tarkasamgraha.

Course Name: CC-14
Course Code: SANS-H-CC-T-14

Topic Name: Self-Management in the Gita

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the cognitive and emotive apparatus in the light of Gita.
- 2) understand the controlling of mind as depicted in Gita.
- 3) understand the process of self-management through devotion as described by Gita.

Course Name: DSE-1

Course Code:SANS-H-DSE-T-01

Topic Name: Indian System of Logic and Debate

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the general idea of Indian logic.
- 2) understand different formats of Indian logical debates.

Course Name: DSE-2

Course Code:SANS-H-DSE-T-02

Topic Name: Art of Balanced Living

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the method of self-presentation(through Yoga).
- 2) understand the concept of Yoga(through Yoga)
- 3) understand the methods of improving behaviour (through Gita).

Course Name: DSE-3

Course Code:SANS-H-DSE-T-03

Topic Name: Theatre and Dramaturgy in Sanskrit

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) know about the theatre ;its classifications and construction methods.
- 2) understand the subject matter(vastu), hero(nayaka) ans sentiments(rasas) of a drama.

Course Name: DSE-4

Course Code:SANS-H-DSE-T-04
Topic Name: Sanskrit Linguistics

Course Outcome:

> After successful completion of the course the students will be able to:

- 1) learn about the definition and features of Language.
- 2) learn about the definition and features of Linguistics.
- 3) learn about Sanskrit phonetics, semantics, syntax etc.
- 4) understand the Sanskrit Language and Indian Language-Family.
- 5) understand the general introduction of Sanskrit Language and comparative philology.

Course Name: SEC-1

Course Code:SANS-H-SEC-T-01

Topic Name: Evolution of Indian Scripts

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) learn about the antiquity of writing in India.
- 2) know about some early Indian Scripts viz. early Brahmi and Kharosthi.
- 3) learn about the development of Devanagari Script.
- 4) learn about the development of eastern Indian Scripts with special reference to the Mediaeval Bengali Scripts.
- 5) know about the different types of Brahmi Script by 400CE.
- 5) learn about the transition to early modern Indian Scripts.
- 6) learn about the causes of variation in the Brahmi Script.
- 7) transcribe the Brahmi or Kharosthi plates into Devanagari and vice-versa.
- 8) transcribe the Mediaeval Bengali plates into Devanagari and vice-versa.

Course Name: SEC-2

Course Code:SANS-H-SEC-T-02

Topic Name: Basic Elements of Ayurveda

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) learn about the general introduction of Ayurveda.
- 2) learn about the life and work of some eminent ancient scholars in this field viz. Charaka, Susruta, Vagbhatta, Madhava and so on.
- 3) learn about the text 'Charakasamhita'(sutrasthanam).

Krishnagar Women's College

Course Outcome

3year B.A./B.Sc. Degree Course

Under CBCS Semester System

Programme Course in Sanskrit

With effect from the session: 2018-2019

Course Name: CC-01

Course Code: SANS-G-CC-T-01

Topic Name: Classical Sanskrit Literature (Poetry)

Course outcome:

> After successful completion of this course students will be able to:

- 1) understand the composition and literary skills of the some great poets.
- 2) They will also learn to compare the writing styles of different poets of different ages.
- 3) understand how to 'Shataka' Kavya were invented to teach ethics,i.e. 'Nitishatakam'
- 4) Understand the origin and development of 'Mahakavya's(Epic) and 'Gitikavya's(Lyrical Poetry)

Course Name: CC-02

Course Code: SANS-G-CC-T-02

Topic Name: Classical Sanskrit Literature (Prose)

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) read different prose romances ,composed by different prose-writers(Gadyakavi).
- 2) get an idea of origin and development of prose, important prose romances and fables.

Course Name: CC-03
Course Code: SANS-G-CC-T-03
Topic Name: Classical Sanskrit Literature (Drama)

Course Outcome:

> After successful completion of the course the students able to:

- 1) know about the different dramas, composed by different Natyakaras.
- 2) learn about the skills as well as writing styles of different Natyakaras.

Course Name: CC-04
Course Code: SANS-G-CC-T-04
Topic Name: Sanskrit Grammar

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the concept of various grammatical terms viz. Sutra, Vartika, Bhashya, Guna, Upasarga, Gati and so on.
- 2) understand the Samjna-prakarana in Sanskrit Grammar according to Laghusiddhantakaumudi.
- 3) understand the rules of Sandhi as reflected in Laghusiddhantakaumudi.
- 4) understand the Vibhaktyartha-prakarana in Sanskrit Grammar according to Laghusiddhantakaumudi.

Course Name: DSE-1
Course Code: SANS-G-DSE-T-01
Topic Name: Indian System of Logic and Debate

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the general idea of Indian logic.
- 2) understand different formats of Indian logical debates.

Course Name: DSE-2
Course Code: SANS-G-DSE-T-02
Topic Name: Art of Balanced Living

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) understand the method of self-presentation (through Yoga).

- 2) understand the concept of Yoga(through Yoga)
- 3) understand the methods of improving behaviour (through Gita).

Course Name: DSE-3
Course Code:SANS-G-DSE-T-03
Topic Name: Theatre and Dramaturgy in Sanskrit

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) know about the theatre ;its classifications and construction methods.
- 2) understand the subject matter(vastu), hero(nayaka) and sentiments(rasas) of a drama.

Course Name: DSE-4
Course Code:SANS-G-DSE-T-04
Topic Name: Sanskrit Linguistics

Course Outcome:

> After successful completion of the course the students will be able to:

- 1) learn about the definition and features of Language.
- 2) learn about the definition and features of Linguistics.
- 3) learn about Sanskrit phonetics, semantics, syntax etc.
- 4) understand the Sanskrit Language and Indian Language-Family.
- 5) understand the general introduction of Sanskrit Language and comparative philology.

Course Name: GE-01
Course Code:SANS-G-GE-T-01
Topic Name: Critical Survey of Sanskrit Literature

Course Outcome:

> After successful completion of this course students will be able to

- 1) learn about different parts of the Vedic literature.
- 2) know the time and subject matter of the Ramayana.
- 3) learn about the time, subject matter and cultural importance of the Mahabharata.

- 4) know the subject matters, characteristics, social and historical importance of the Puranas.
- 5) get an idea of different branches of Sanskrit literature.

Course Name: GE-02

Course Code: SANS-G-GE-T-02

Topic Name: Sanskrit Composition and Communication

Course Outcome:

> After successful completion of the course the students able to :

- 1) understand the concept of various grammatical terms viz. Sutra, Vartika, Bhashya, Guna, Upadha etc.
- 2) understand the rules of Karaka , Sandhi etc. in Sanskrit grammar after Laghusiddhantakaumudi.
- 3) communicative Sanskrit helps to enhance the speaking ability of the students in Sanskrit Language.

Course Name: SEC-1

Course Code: SANS-G-SEC-T-01

Topic Name: Evolution of Indian Scripts

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) learn about the antiquity of writing in India.
- 2) know about some early Indian Scripts viz. early Brahmi and Kharosthi.
- 3) learn about the development of Devanagari Script.
- 4) learn about the development of eastern Indian Scripts with special reference to the Mediaeval Bengali Scripts.
- 5) know about the different types of Brahmi Script by 400CE.
- 5) learn about the transition to early modern Indian Scripts.
- 6) learn about the causes of variation in the Brahmi Script.
- 7) transcribe the Brahmi or Kharosthi plates into Devanagari and vice-versa.
- 8) transcribe the Mediaeval Bengali plates into Devanagari and vice-versa.

Course Name: SEC-2
Course Code:SANS-G-SEC-T-02
Topic Name: Basic Elements of Ayurveda

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) learn about the general introduction of Ayurveda.
- 2) learn about the life and work of some eminent ancient scholars in this field viz. Charaka, Susruta, Vagbhatta, Madhava and so on.
- 3) learn about the text 'Charakasamhita'(sutrasthanam).

Course Name: SEC-3
Course Code:SANS-G-SEC-T-03
Topic Name: Yogasutra of Patanjali

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) learn about the basic concept of Samadhipada of Yogasutra.
- 2) learn about the basic concept of Sadhanapada of Yogasutra.

Course Name: SEC-4
Course Code:SANS-G-SEC-T-04
Topic Name: Indian Theatre

Course Outcome:

> After successful completion of this course the students will be able to:

- 1) know about the theatre ;its classifications and construction methods.
 - 2) understand the subject matter(vastu), hero(nayaka) and sentiments(rasas) of a drama.
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