

CH. ISHWAR SINGH KANYA MAHAVIDYALAYA
DHAND-DADWANA (KAITHAL) HARYANA
(Affiliated to Kurukshetra University Kurukshetra)

Course Outcomes (COs), Programme Outcomes (POs) as well as

Programme Specific Outcomes (PSOs)
Session-2023-24

Attainment of POs & COs are evaluated by the institute.

- Each POs and its COs are well examined by the course teachers.
- COs alongwith POs are well communicated to the students by the respective faculty.
- Soft copy of POs and COs is uploaded on college website.
- Hard copy is submitted in the library for ready reference.

COURSE OUTCOMES

Name of Programme: B.A.(General)

English

Semester-I

Nomenclature of the Course: Introduction to Short-Story and Basic Grammar

Course Code: B23-ENG-101

Course Type: CC-1/MCC-1

Course Learning Outcomes

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

- B23-ENG-101.1 The students will comprehend different forms and techniques of short fiction.
- B23-ENG-101.2 The students will be able to understand tenses.
- B23-ENG-101.3 The students will understand parts of speech, voice and narration.
- B23-ENG-101.4 The students will progress to understand basics of grammar..

Nomenclature of the Course: Literature and Language-I

Course Code: B23-ENG-103

Course Type: CC-M-1

Course Learning Outcomes:

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

- B23-ENG-103.1 The students will be able to understand various hues of prose writings.
- B23-ENG-103.2 They will be able to understand different kinds of poetry.
- B23-ENG-103.3 Students will be able to understand basics of English grammar.
- B23-ENG-103.4 Students will be able to understand antonyms and synonyms in English.

Semester - II

Nomenclature of the Course: Introduction to Prose and Composition

Course Code: B23-ENG-201

Course Type: CC-2/MCC-3

Course Learning Outcomes:

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

- B23-ENG-201.1 The students will be able to understand various components of prose.
- B23-ENG-201.2 Perusal of essays will enrich their knowledge of different prose styles.

- B23-ENG-201.3 The students will be able to write paragraphs, essays, letters, and précis. B23-ENG-201.4 The students will be able to write speeches and resume.

Nomenclature of the Course: Language and Literature-II

Course Code: B23-ENG-203

Course Type: CC-M-2

Course Learning Outcomes:

- After the successful completion of the course, the student will be able to:
- B23-ENG-203.1 The students will understand the significance of literary essays.
- B23-ENG-203.2 They will be able to appreciate literariness embedded into the text.
- B23-ENG-203.3 They will understand rich Indian culture through short stories.
- B23-ENG-203.4 They will be able to understand in intricacies of grammar.

Semester - III

Paper : En 23 English

Co 1 : Literature is incomplete without poetry. Poems of the various celebrated poets like Wordsworth, Keats, Browning, Gray etc. are taught to the students. They come to know the literary devices and different poetic forms which help the students to understand the beautiful aspect of literature.

Co 2 : As the poems included in the text book cover a wide range of forms of expression, the students are able to develop an understanding of nuances of a variety of poetic devices.

Co 3 : Comprehension questions that followed are designed to help the students develop their linguistic competence.

Co 4 : The course also helps the students to practice the exact pronunciation of words.

Co 5 : Knowledge of Non-finite verbs etc. strengthens their written and spoken part.

Semester - IV

Paper : En 24 English

Co 1 : Different types of plays cover a wide range of dramatic expressions, and enriches the students' knowledge about various dramatic forms.

Co 2 : Comprehension exercise develop and sharpen the students writing skills and critical thinking skills.

Co 3 : Vocabulary exercises enhance their composition skills.

Co 4 : Ample practical exercises are provided in writing E-mails, Dialogues, Resume and book - reviews.

Co 5 : Practice of transcription improves their pronunciation.

Semester - V

Paper : En 25 English

Co 1 :Raja Rao's 'Kanthapura' gives a deep insight how our ancestors fought against Britishers and also we come to know about the socio - economic and political conditions of that time.

Co 2 : Students get the knowledge of Indian English Literature.

Co 3 : This Novel gives an opportunity to the students to know about the colonial period of India.

Co 4 : Students understand the pre-independence scenario reflecting caste system, social differences, political strategies and also the religious conflicts.

Co 5 : Enhance their critical reading and writing skills.

Co 6 : Know the origin, development and forms of novel.

Co 7 : Improve their pronunciation and speaking skills with the help of intonation and stress.

Semester - VI

Paper : En 26 English

After reading Shakespeare's play 'The Merchant of Venice' included in the course, the students will be able to:

Co 1 : Understand the various forms of drama specially Elizabethan drama.

Co 2 : Get familiar with the writing style of the great dramatist William Shakespeare.

Co 3 : Know about the social problems, complexity of relations, economic issues, religious conflicts and also about the day-to-day life of the people at that time.

Co 4 : Enhance their writing and speaking skills.

बी.ए.हिन्दी

Nomenclature of the Course: हिन्दी भाषा एवं आधुनिक कववत

Course Code: B23- HIN-101

Course Type: CC-1/MCC-1

प्रथम सत्र

Course Learning Outcomes:

B23- HIN-101-1 Comprehend different forms and techniques of Language.

B23-HIN-101-2 The students will be able to understand explanation of Poetry.

B23- HIN-101-3 The students will get knowledge about the Poets.

B23-HIN-1-101-4 The students will be able to understand critical and objective questions.

Nomenclature of the Course: हिन्दी का व्यावहारिक व्याकरण

Course Code: B23-HIN-103

Course Type: MI-1

प्रथम सत्र

Course Learning Outcomes

Course Learning Outcomes

B23-HIN-103-1. The students will be introduced to the Hindi Grammar.

B23-HIN-103-2. They will learn various aspects of writing of Hindi.

B23-HIN-103-3. They will learn the practical use of punctuation and spelling.

B23-HIN-103-4. They will have the comprehensive knowledge of capitalization.

द्वितीय सत्र

Nomenclature of the Course: मध्यकालीन हिन्दी कविता

Course Code: B23-HIN-201

Course Type: CC-2/MCC-3

Course Learning Outcomes:

B23- HIN-201-1 The students will be able to understand various components of poetry.

B23- HIN-201-2 Perusal of essays type will enrich their knowledge of different poetry styles.

B23- HIN-201-3 The students will be acquainted with Writers of Critical Poetry.

B23- HIN-201-4 The students will be able to critical aspects of Poetry

Nomenclature of the Course: राजभाषा हिन्दी : प्रािधाि और प्रयोग
Course Code: B23-HIN-202
Course Type: MI-2

Course Learning Outcomes

B23-HIN-202-1. The students will be introduced to the Official Hindi.

B23-HIN-202-2. They will learn various aspects of writing skills and their use in communication.

B23-HIN-202-3. They will learn the practical use of official languages in different discipline.

B23-HIN-202-4. They will have the comprehensive knowledge of Official Hindi.

तृतीय सत्र

1. 'आधुनिक हिन्दी कविता' पाठ्य पुस्तक में संकलित आधुनिक कवियों का साहित्यिक परिचय देते हुए उन कवियों की कविताओं की व्याख्या करवाना । उनकी भाव, भाषा, शैली से परिचित करवाते हुए छात्राओं में संवेदनशीलता, समर्पण के भाव जागृत करना ।
2. कविताओं के माध्यम से छात्राओं को कवि एवं कविता के महत्व को समझाना ।
3. 'हिन्दी साहित्य का इतिहास' के अन्तर्गत रीतिकाल की पृष्ठभूमि, रीतिकालीन काव्य की प्रवृत्तियाँ, रीति-कालीन साहित्य की उपलब्धियाँ, रीतिकाल के प्रमुख कवियों का परिचय देना ।
4. 'प्रयोजन मूलक मूलक हिन्दी' के अन्तर्गत प्रयोजमूलक भाषा का अर्थ, महत्व समझाते हुए कम्प्यूटर, इंटरनेट, ई.मेल, मशीनी अनुवाद, अनुवाद का स्वरूप और महत्व एवं उपयोगिता से अवगत करवाना ।
5. वर्तमान समय में जीवन एवं शिक्षा के क्षेत्र में कम्प्यूटर का महत्व एवं इसमें रोजगार की संभावनाओं के विषय में विस्तृत जानकारी देना ।

चतुर्थ सत्र

- Co1: छात्राओं को आधुनिक कहानीकारों, कहानियों, कहानी परम्परा की जानकारी देना ।
कहानियों का समाज पर प्रभाव व महत्व से अवगत करवाना ।
- Co 2 : कहानियों को छात्राएं अपने आप से जोड़ते हुए प्रेरणा ले पाएं और उनकी कहानी लेखन रूचि उत्पन्न करना ।

- Co 3: हिंदी साहित्य के आधुनिक काल का स्थान, महत्त्व और पृष्ठभूमि से अवगत
- Co 4: आधुनिक गद्य विद्याओं नाटक, कहानी, उपन्यास, निबंध, संस्मरण एवं एकांकी की जानरकारी प्रदान करवाना ।
- Co 5: छात्राओं को पारिभाषिक शब्दावली के अर्थ, स्वरूप, महत्त्व, उपयोगिता व सिद्धांतों को समझाना ।

पंचम सत्र

1. 'समकालीन कालीन हिन्दी कविता' पाठ्य-पुस्तक में संकलित कवियों का साहित्यिक परिचय एवं उनकी कविताओं की व्याख्या करवाते हुए समीक्षात्मक, आलोचनात्मक जानकारी देना ।
2. 'हिन्दी साहित्य का इतिहास' के अन्तर्गत आधुनिक काल का परिचय देते हुए भारतेंदु युग से समकालीन हिन्दी कविता तक विस्तृत जानकारी प्रदान करना ।
3. छात्राओं को आधुनिक काल के माध्यम से वर्तमान साहित्यिक एवं सामाजिक समस्याओं से अवगत करवाते हुए उनके प्रति सचेत एवं जागरूक करना ।
4. 'प्रयोजन मूलक' हिन्दी के अन्तर्गत प्रयोजनमूलक भाषा के विषय में जानकारी देते हुए पत्र लेखन, संक्षेपण, पल्लवन के नियमों से परिचित करवाना ।
5. विद्यार्थियों में हिन्दी पत्रकारिता का तकनीकी ज्ञान देते हुए इसमें रोजगार की संभावनाओं के विषय में जानकारी प्रदान करना ।

षष्ठम सत्र

1. 'नव्यतर गद्य गौरव' पाठ्य पुस्तक में संकलित लेखकों के निबंध, संस्मरण, व्यंग्य, ललित निबंध एवं यात्रा वृत्तांत के विषय में जानकारी देना । साहित्यकारों के साहित्यिक विशेषताओं से अवगत करवाना ।
2. हरियाणवी भाषा का परिचय देते हुए हरियाणवी भाषा के उद्भव एवं विकास, उसकी बोलियाँ, सांग परम्परा की विस्तृत चर्चा करते हुए हरियाणवी भाषा के विकास में योगदान की जानकारी प्रदान करना ।

3. हरियाणवी भाषा में रचित आधुनिक हिन्दी कविता, उपन्यास, कहानी, नाटक, एकांकी एवं अन्य गद्य विधाओं की विस्तृत जानकारी देना ।
4. हरियाणवी भाषा के महत्व को प्रतिपादित करते हुए इसके प्रति रूचि उत्पन्न करना ।
5. हिन्दी पत्रकारिता के अंतर्गत हिन्दी पत्रकारिता के महत्व, इसके विभिन्न आयाम, सम्पादक के गुण, स्वतंत्र प्रेस के विषय में विस्तृत जानकारी प्रदान करवाना ।
6. विद्यार्थियों में हिन्दी पत्रकारिता के व्यावसायिक दृष्टिकोण से रूचि उत्पन्न करना ।

B.A.ECONOMICS

Course Outcomes (COs)

Semester - I

Paper : B23-ECO-101 Micro Economics-I(CC, MCC)

After completing this course, the learner will be able to:

1. Understand the nature and scope of Economics, including the meaning of Economics, its methods, and why it is studied.
2. Analyze the role of an Economist, including the ability to think like an Economist, the Economist as a Scientist, and as a Policy Adviser.
3. Evaluate the different types of economic activities and systems, including the organization of economic activities and the evolution of present economic systems
4. Apply the concepts of demand and supply, elasticity, consumer equilibrium, production analysis, and cost and revenue analysis to real-world economic situations

Semester - II

Paper : B23-ECO-201 Macro Economics-I(CC/MCC)

After completing this course, the learner will be able to:

1. Have Insight of Basic Concepts of Macro Economics-Its nature and scope, Methodology; National Income and circular flow of national income in an Economy.
2. Have understanding of Macroeconomic behavior in terms of Classical theory of Employment, Say's law, Keynes' theory of equilibrium level of income and Employment
3. Have knowledge about consumption behaviour at macroeconomic level, Keynes' psychological law of consumption, hypotheses about long run income-consumption relationship
4. Have understanding about capital and Investment, Decision to invest at macro economic level, determinants of induced investment.

SEMESTER-III

Paper (EC 23) MACRO ECONOMICS – 1

- The course enables the students to understand the different concepts of macro's economic variables .
It helps the students to understand the functioning of on economy.
- It provides detailed studies of national income, circular flow of income, classical and keynsian theories.
- It provides detailed studies of consumption and investment functions.

SEMESTER- IV

PAPER (EC 24) MACRO ECONOMICS -2

- The course enables the students to understand the different concepts of macro economic variables.
- It helps the students to understand the functioning of an economy.
- It provides detailed studies of investment multiplier, acceleration principle, money and their theories.
- It provides detailed studies of trade cycles, investment theories and theories of investment.

Semester -V

Paper : EC-25 Indian Economy I (Option-I)

Upon the successful completion of this paper the students will be able to acquire a good understanding of:

- What are the basic features of Indian Economy, developed and underdeveloped economy and the nature of capitalist, socialist & mixed economy.
- Major problem of Indian Economy i.e. over population, effects of overpopulation on economic development.
- The problems of Unemployment & poverty will make the students able to deal with issues related with these problems and find out methods to deal with such problems.
- Agriculture sector of India & its contribution to the economy as a whole.

- Study of special Economic Zones also useful to understand the efforts of Govt. to promote Industries.

Semester -VI

Paper : EC-26 Indian Economy II (Option-I)

Upon the successful completion of this paper the students will be able to acquire a good understanding of:

- Grasp the Importance of Planning undertaken by the Government of India, have knowledge on the various objectives, failures & achievements as the foundation planning & economic reforms taken by the Government.
- Industrial policy, Industrial Labour, Industrial disputes and social security measures.
- Importance of Foreign Sector, Foreign investment & Foreign institution will make the students able to understand globalization.

B.A.Mathematics

COURSE OUTCOMES

SEMESTER I

COURSE OUTCOMES

PAPER – B23-MAT-101 Calculus (CC)

After completing this course, the learner will be able to:

1. Gain knowledge of the concepts and theory of limit, continuity and differentiability of functions. Attain skills of calculating the limit of functions and examining the continuity and differentiability of different types of functions, and perform successive differentiation of functions. To apply the procedural knowledge to obtain the series expansions of functions which find multidisciplinary applications.
2. Understand concepts of asymptotes and curvature, the geometrical meaning of these terms and to have procedural knowledge to solve related problems.
3. Determine singular points of a curve and classify them. Understand the concept of rectification of curves and derive the reduction formulae.
4. Have theoretical knowledge and practical skills to evaluate the area bounded by the curves, and volume and surface area of solids formed by revolution of curves

5. Attain cognitive and technical skills required for solving different problems of calculus associated with tracing of curves, determination of curvature, and rectification of curves, volume and surface area of solids of revolution. Have technical and practical skills of solving calculus problems related to differentiation and integration of functions by using MAXIMA software

SEMESTER 2

PAPER : B23-MAT-201 (Algebra and Number Theory)(CC)

After completing this course, the learner will be able to:

1. Gain knowledge of the concepts of symmetric, skew-symmetric, Hermitian, skew-Hermitian, Orthogonal and Unitary matrices, Linear dependence and independence of rows and columns of a matrix. Have knowledge of procedure and cognitive skills used in calculating rank of a matrix, eigen values, characteristic equation, minimal polynomial of a matrix and technical skills used in solving problems based on Cayley- Hamilton theorem.
2. Have knowledge of the concepts used in solving problems based on relations between the roots and coefficients of general polynomial equation in one variable, solutions of polynomial equations having conditions on roots, common roots and multiple roots. Understand Descartes' rule of signs and learn cognitive and technical skills required in assessing nature of the roots of an equation and solving problems based on these.
3. Have deeper and procedural knowledge required for solving cubic and biquadratic equations used in Mathematics as well as many other learning fields of study. To understand the basic concepts of number theory and their applications in problem solving and life- long learning.
4. Have knowledge of concepts, facts, principles and theories of Linear Congruences, Fermat's theorem, Euler's theorem, Wilson's theorem and its converse, Chinese Remainder theorem. Attain cognitive skills used in solving linear Diophantine equations in two variables.
5. Attain cognitive and technical skills required to formulate and solve practical problems involving rank of a matrix, inverse of a matrix, Cardon's method, Ferrari's method, Descartes' method, Cayley-Hamilton theorem, Euler's theorem and Chinese Remainder theorem. Have technical and practical skills required for solving algebraic equations, finding inverse and eigen values of matrices by using built in functions of MAXIMA software..

Semester - III

Paper : BM 231 Advanced Calculus

Course Outcomes:- This course will enable the students to

- Co 1 : Concept of learning different indeterminate form of limit, continuity, discontinuity of function at two variables.
- Co 2 : Learning about partial differentiation, differentiability of functions of two variables and Maximum and Minimum of a function of two variables.
- Co 3 : Understanding about behavior of curves in spaces.

Paper : BM 232 Partial Differential Equations

- Co 1 : Student will learn about formation of partial differential equations, first order linear and nonlinear partial differential equations.
- Co 2 : Students will be able to know linear partial differential equations of 2nd and higher order.
- Co 3 : Students will also learn about classification and canonical forms of 2nd order linear partial differential equations.
- Co 4 : Students will learn to derive wave, heat equation in one and two dimensional and Laplace equation.

Paper : BM 233 Statics

- Co 1 : Student will learn Moments and couples.
- Co 2 : Students will understand the concept of composition and resolution of forces.
- Co 3 : Students will understand basic concept of mechanics and equilibrium of rigid body.
- Co 4 : Students will learn about virtual work and forces in three dimensions.
- Co 5 : Students will study wrenches, Null lines and planes.
- Co 6 : Students will analyze equilibrium conditions under the effect of external forces acting on the rigid and to simplify different problems using the basic principles of mechanics.

Semester - IV

Paper : BM 241 Sequences and Series.

- Co 1 : Student will learn the concepts of sequences, their type i.e. finite, infinite bounded and unbounded sequences etc..
- Co 2 : Students will study neighbourhood, interior points, limit of sequences, limit points, open sets closed sets.
- Co 3 : Students will learn a very useful theorem Bolzano-Weierstrass theorem and Heine Borel theorem.
- Co 4 : Students will learn convergent and divergent sequences.
- Co 5 : Students will also learn about the concept of Alternating series.
- Co 6 : Students will study various tests: D'Alembert's Ratio test, Raabe's test, Logarithmic test, de Moivre and Bertrand's test, Cauchy's nth root test, Gauss test, Cauchy's integral test etc.
- Co 7 : It will be helpful to understand the concept convergence and divergence of infinite products.

Paper : BM 242 Special Functions and Integral transform.

- Co 1 : Student will learn about power series and Bessel's equation.
- Co 2 : Students will come to know about Legendre's and Hermite's equation.
- Co 3 : Students will learn Laplace transforms.
- Co 4 : Students will understand about Fourier transforms.

Paper : BM 243 Programming in C & Numerical Method

- Co 1 : Concept of learning use of arrays, functions, structures and pointers etc.
- Co 2 : Students learn about practical knowledge of programming in C to apply it to learn the solution of many problems.
- Co 3 : Concept of solution of algebraic, linear system of equations and transcendental equation by different numerical methods.

Semester - V

Paper : BM 351 real Analysis

This course will enables the students to

Co 1 : Learn Riemann Integrable functions, its properties, and applications.

Co 2 : Recognize bounded, convergent, divergent, Cauchy, monotonic sequences.

Co 3 : Calculate Limit superior, limit inferior and limit of bounded functions.

Co 4 : Apply test for convergence and absolute convergence at an infinite series of real number.

Co 5 : Understand many properties of the real line and learn to define sequence in term of function \mathbb{R} to subset \mathbb{R} .

Paper : BM 352 Groups and Rings.

Co 1 : Student will learn the concept of Groups, subgroups, left and right cosets, Index of a subgroup.

Co 2 : Students will study Homomorphism Isomorphism, automorphisms and inner automorphisms of a group.

Co 3 : Students will learn the concept of Rings, sub rings, integral Colman and fields.

Co 4 : It will be helpful to understand the concepts of prime ideal, principal ideal and Maiximal ideal.

Co 5 : Students will learn about the concept of Euclidean rings polynomial ring.

Paper : BM 353 Numerical Analysis

Co 1 : Students will learn finite difference operators, Interpolation with equal and unequal intervals.

Co 2 : Students will come to know about central difference interpolation formulae and probability distributions.

Co 3 : Students will acquire knowledge about Numerical differentiation and Eigen value problems.

Co 4 : Students will also understand about numerical integration and numerical solution of ordinary differential equation using initial and boundary conditions.

Semester - VI

Paper : BM 361 Real and Complex Analysis.

Co 1 : Students will understand Jacobians Beta, Gamma functions, double and triple Integral.

Co 2 : Students will learn about Fourier series.

Co 3 : Students will acquire knowledge about the concept of complex functions, Cauchy-Riemann equations, harmonic function.

Co 4 : Students will also learn about mobius transformation and critical mapping.

Paper : BM 362 Linear Algebra

This course will enables the students to

Co 1 : Concept of vector spaces, subspaces, bases, dimension & their properties.

Co 2 : Compute eigen value, eigen vectors.

Co 3 : Learning about inner product spaces and their orthogonality.

Co 4 : Importance of adjoint of Linear transformation & its canonical form.

Paper : BM 363 Dynamics

Co 1 : Student will learn very important concepts Newton's law of motion, work, Power and Energy.

Co 2 : Students will be able to draw free body diagram for a particles or for a rigid body in plane motion.

Co 3 : Students will learn to analyse the general motion of a rigid body on smooth and rough planes.

Co 4 : Students will learn Kepler's law of planetary motion and will be able to solve various problems of applied physics and mechanical engineering.

Co 5 : Students will study Relative velocity and acceleration.

Co 6 : It will be helpful to understand simple Harmonic Motion and Elastic strings.

B.A.(Psychology)

COURSE OUTCOMES(Cos)

Semester - I

Paper : B23-PSY-101 Foundations of Psychology (CC/MCC)

After completing this course, the learner will be able to:

1. demonstrate an understanding of foundational concepts of psychology and human behaviour.
2. understand the structure and function of sensory processes.
3. comprehend theoretical concepts of emotion and motivation.
4. understand various theories and factors affecting personality and intelligence.
5. conduct experiments and tests related to Foundations of Psychology

Semester - II

Paper: B23-PSY- 201Social Psychology(CC/MCC)

After completing this course, the learner will be able to:

1. demonstrate an understanding of the foundational concepts of social behaviour and methods of study.
2. demonstrate understanding of socialization process, person perception and attitudes.
3. acquaint with interpersonal attraction, pro-social behaviour and aggression.
4. understand the concept of leadership and dynamics of group and collective behaviour.
5. Acquaint with different types of psychological test related to social phenomenon

Semester - III

Paper : Social Psychology

Co 1 : Student will learn the learn the subject Matter of Social Psychology.

Co 2 : They will actuated with the concept of socialization, prejudice, Pro-social behavior.

Co 3 : Student will learn the causes and prevention of Aggressive behavior and also about leadership.

Semester - IV

Paper : Developmental Psychology

- Co 1 : Student will the concept of Human development alongwith the Principles and factors of human development.
- Co 2 : Students will get the knowledge of different developmental stages, their characteristics & hazards of that stages.
- Co 3 : Elementary statistical knowledge of be imported.

Semester - V

Paper : Psychology

- Co 1 : Student will acquire the knowledge of concept normality and abnormality different view points about abnormality.
- Co 2 : Students will study the different Methods of Assessment of abnormal Behaviour.
- Co 3 : Students will learn the symptoms, causes of anxiety based disorder, consequences and Rehabilitation.
- Co 4 : The students will know the concept of substance abuse-causes, Mood disorder & schizophrenia.

Semester - VI

Paper : Applied Psychology

- Co 1 : Student will study the meaning of applied Psychology career in the fields of Psychology.
- Co 2 : Students will learns about the different fields of Applied Psychology i.e. Guidance and Counseling, Health Psychology and forensic Psychology etc. This will help the students to choose optional subject of their interest.
- Co 3 : Students will attain the knowledge of correlation Method of statistics.

बी.ए.संस्कृत

Course outcomes) COs

Subject Sanskrit

Semester 1st

Course Code B23-SKT-101, नीतिसाहित्य व्याकरणं च

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VA C) CC-1/ MCC-1

After completing this course, the learner will be able to:

CLO-101-संस्कृत भाषा में ज्ञान की सरल मनोवैज्ञानिक विधियों के द्वारा छात्रों को बोध कराने के लिए अनेक ग्रंथकहानी के रूप में लिखे गए जैसे पंचतंत्र, हितोपदेश आदि । इस घटक में हितोपदेश के मित्रलाभ प्रकरण से छात्रों को संस्कृत भाषा में प्रवेश करवाया जाता है ।

CLO-101-2 नीतिशतक भारतीय नीतिशास्त्र तथा सुभाषित के रूप में जाना जाता है । भर्तृहरि द्वारा रचित नीति-शतक के प्रथम 50 श्लोकों के माध्यम से छात्रों को न्याय एवं नीति से समाज बोध की शिक्षा देने का प्रयास किया गया है ।

CLO-101-3 संस्कृत भाषा में प्रवेश के लिए छात्रों को व्याकरण के प्रथम सोपान धातुरूप तथा शब्दरूपों का ज्ञान होना आवश्यक है । इस घटक में छात्रों को सरल धातु-रूपों से परिचय करवाया जाता है ताकि वे संस्कृत भाषा समझने में तत्पर हो सकें ।

CLO-101-4 भाषा में संधियों का प्रयोग परम आवश्यक है । इस घटक में छात्रों को संस्कृत भाषा की संधियों का बोध करवाया जाता है ताकि वे भाषा को आसानी से समझ सकें क्योंकि संधि में पदों को अलग-अलग करके अर्थ को आसानी से जाना जा सकता है ।

Semester 2nd

Course Code B23-SKT-201 श्रीमद्भगवद्गीता, स्वस्थवृत्तं छन्दशास्त्रं च

**Course Type:(CC/MCC/MDC/CCM/
DSEC/VOC/DSE/PC/AEC/VAC)CC-2/MCC-3**

After completing this course, the learner will be able to:

CLO-201-1 गीता भारतीय संस्कृति तथा ज्ञान का उत्कर्ष है । गीता को कर्म तथा ज्ञान के सम्यक् बोध के रूप में जाना जाता है । गीता के द्वितीय अध्याय को 'सांख्य-योग' के नामसे जाना जाता है । इस अध्याय में जीवन के मर्म को जानकर कर्म करने की प्रेरणा दी गई है । यह सभी मनुष्यों को जानना चाहिए ।

CLO-201-2 द्वितीय घटक में नीतिशतक के 51-100 श्लोकोंको शामिल किया गया है । न्याय एवं नीति बोध जीवन को सरल बना देता है । भर्तृहरि ने मनुष्यों को शिक्षा देने का प्रयास किया है कि हमारा सामाजिक व्यवहार कैसे हो । यह सभी छात्रों को जानना चाहिए ।

CLO-201-3 संस्कृत धातु रूपों के ज्ञान के अभाव में भाषा को नहीं समझा जा सकता । धातु प्रत्ययों का बोध इस घटक में दिया गया है । संस्कृत में धातुओं की संख्या दो हजार के आसपास है । अतः इनका बोध भाषा को सरल रूप में समझने में सहायक है ।

तृतीय सत्र

Paper: ES 23 Sanskrit Elective

- Co 1 : महाभारत पर आधारित 'पचरात्र' नाटक के माध्यम से छात्राओं को ऐतिहासिक घटनाओं का ज्ञान करवाना । उस समय की यज्ञ की सकृद्धि एवं गुरु-शिष्य परंपरा से भी परिचित करवाना ।
- Co 2 : संस्कृत-साहित्य के कवियों के जीवन व रचनाओं से छात्राओं को परिचित करवाना व नाटक में प्रयोग किए जाने वाले पारिभाषिक शब्दों का विस्तृत ज्ञान प्रदान करवाना ।
- Co 3 : समास ज्ञान द्वारा संक्षिप्तीकरण का बोध करवाना तथा प्रत्ययों के ज्ञान द्वारा भाषा की शुद्धता का ज्ञान करवाना ।
- Co 4 : प्रत्याहार सूत्रों के माध्यम से अच्(स्वर) और हल् (व्यंजन) वर्णों का वैानिक दृष्टि से बोध करवाना । संस्कृत-पत्र-लेखन द्वारा छात्राओं में लिखने की कुशलता को विकसित कराना ।

चतुर्थ सत्र

Paper: ES 24 Sanskrit Elective

- Co 1 : कविकुलगुरु कालिदास के काव्य-कौशल से परिचित करवाना । रघुकुल के राजा दिलीप के उच्च आदर्शों कार्य निष्ठा, कर्तव्यपरायणता तथा गौ-सेवा भाव से परिचित करवाना ।
- Co 2 : कवि की गद्यशैली से अवगत करवाना, कवि को आधुनिक बाणभट्ट कहने के पीछे का भाव बताना । शिवाजी एवं उनके गुप्तचरों की वीरता और राष्ट्रभक्ति भावना एवं समर्पण से अवगत करवाना ।
- Co 3 : वाच्य परिवर्तन और प्रत्ययों के प्रयोग से भाषा की शुद्धता और वैज्ञानिकता का ज्ञान करवाना ।
- Co 4 : सूत्रों की शैली द्वारा भाषा कौशल को विकसित कराना तथा सूत्रों द्वारा विस्तृत ज्ञान को संक्षिप्त शब्दों के द्वारा बोध कराना । सरल वाक्यों के अनुवाद द्वारा मानसिक क्षमता को विकसित कराना ।

पंचम सत्र

Paper: ES 25 Sanskrit Elective

- Co 1 : 'अभिज्ञानशाकुन्तलम्' नाटक के माध्यम से कवि की नाटयशैली और रचनात्मकता तथा कल्पनाशीलता से परिचित करवाना । महाभारत पर आधारित कथानक में कल्पना के पुट का अनुभव कराना तथा नाटक के परिवर्तित अंशों का भी परिचय देना ।
- Co 2 : कवि की जीवन-शैली, रचनाओं व समय से छात्राओं को परिचित करवाना ।
- Co 3 : वैदिक साहित्य के माध्यम से वैदिक और भारतीय पुरातन संस्कृति से अवगत करवाना

Co 4 : शब्दालंकारों और अर्थालंकारों के द्वारा भाषा के शाब्दिक एवं भाव सौंदर्य से छात्राओं को परिचित करवाना । भाषा की शुद्धता को बोध करवाना ।

षष्ठम सत्र

Paper: ES 26 Sanskrit Elective

- Co 1 : नाटक के माध्यम से कवित की नाट्यशैली और रचनात्मकता से परिचित करवाना ।
- Co 2 : कवि की रचनाओं में प्रदर्शित राष्ट्रीय-प्रेम भावना, प्राकृतिक-सौंदर्य, जीवन-दृष्टि और प्रकृति के मानवीयकरण का ज्ञान देना ।
- Co 3 : संस्कृत-साहित्य के लौकिक साहित्य द्वारा सामाजिक, राजनीतिक और व्यावहारिक ज्ञान तथा अन्य पहलुओं से परिचित करवाना । उस समय के कवियों की जीवन-शैली एवं संघर्षपूर्ण सय से भी परिचित करवाना ।
- Co 4 : स्त्रीप्रत्ययों के द्वारा पुल्लिंग शब्दों को स्त्रीलिंग में प्रयोग करने की कुशलता विकसित करना तथा समाज में प्रयुक्त किए जाने वाले पुल्लिंग शब्दों के आधार पर स्त्रीलिंग शब्दों में प्रत्ययों की जानकारी रखना । निबंध लेखन के द्वारा क्षमता को विकसित करना ।

B.A. Music(I)

Name of the Course Fundamentals of North Indian Music

Course Code B23-BMI- 101

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC /VAC) CC

Courseout comes (COS)

Semester-I

After completing this course, the learner will be able to:

1. The students will be able to describe the Various Ragas of North Indian classical music .
2. The students will be able to describe the various Talas of North Indian classical Music.
3. The students will be able to define the terminologies of Indian classical music.
4. The students will be able to explain the rich history of Indian music and contribution renowned musician.
5. Perform various ragas and taalas

Semester-II

Name of the Course- History of Non-Percussion Instruments and Ragas

Course Code B23-BMI- 201

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VA C) CC

After completing this course, the learner will be able to:

1. The students will be able to describe the Various Ragas of North Indian classical music .

2. The students will be able to describe the various Talas of North Indian classical Music.
3. The students will be able to illustrate the historical trends of Indian classical music.
4. The students will be able to describe the various theoretical aspects of Indian classical music.
5. The students will be able to present given ragas and taalas

Semester-III

MT 23 Music Instrumental

- Co 1 : छात्राओं को स्वरलिपि का महत्व बताते हुए वाद्य पर बजाना सिखाना ताकि वे सुरों को सुनकर समझ सकें ।
- Co 2 : छात्राओं को तालों की संरचना व लयबद्धता के विषय में बेखूबी समझना ताकि विद्यार्थियों का वादन बाल पक्ष को दृष्टि से परिपक हो सकें ।
- Co 3 : छात्राओं को सितार वादन की विभिन्न शैलियों के बारे में विस्तृत जानकारी देना क्योंकि शैलियों के आधार पर ही विद्यार्थी सितार वादन की तकनीकियों को अपनाएंगे ।
- Co 4 : स्वयंभूनाद (स्वयं से उत्पन्न नाद) के बारे में छात्राओं को बेखूबी समझना ताकि रागों में छात्रागण स्वयंभूनाद का अनुभव कर सकें ।
- Co 5 : विद्यार्थियों को परमेल-राग, अल्ताफ बहुत्व मसीतखानी गत, रजाखानी गत, ग्राम आदि संगीतात्मक विषयों के बारे में समझाना ताकि वे संगीत के शास्त्र-पक्ष से अवगत हो सकें ।

Semester-IV

MT 24 Music Instrumental

- Co 1 : पाठ्यक्रम में वर्णित राघव के स्वरूप व (लगने वाले स्वर इत्यादि) के विषय में जानकारी देना ताकि वे रागों का समुचित ढंग से अभ्यास कर सकें ।
- Co 2 : स्वरलिपि का महत्व बताते हुए राग शुद्ध, कल्याण, खमाज केदार का विस्तृत परिचय बताना ताकि वे रागों के शास्त्रपक्ष को समझ सकें एवं रगानुसार अपने वादन का अभ्यास करें ।
- Co 3 : छात्राओं को तालों की संरचना व लयबद्धता के विषय में पूर्ण रूप से जानकारी प्रदान करना क्योंकि संगीत-गायन वाद्यन के ताल अभिन्न अंग हैं ।
- Co 4 : ख्याति प्राप्त कलाकारों की जीवनशैली व संगीतिक योगदान की जानकारी छात्राओं को देना ताकि वे उनकी साधना के लय से प्रभावित हो सकें ।
- Co 5 : छात्राओं ने सरोद, तबला, वायलिन आदि वाद्यों की बनावट एवं वादन शैली की विस्तृत जानकारी प्रदान करना ताकि वे वाद्यों की धन्यात्मक गुणात्मकता को समझ सकें तथा अपने वादन को प्रभावशाली बना सकें ।

Semester-V

MT 25 Music Instrumental

- Co 1 : पाठ्यक्रम में दिए गए रागों के ऐतिहासिक एवं शास्त्रीय परिचय की जानकारी छात्राओं को देना ताकि वे रागों के समुचित स्वरूप को समझ सकें ।
- Co 2 : स्वरलिपि का महत्व बताते हुए सितार वाद्यों पर रागों को बजाना ताकि वे स्वरों को सुनकर समझ सकें ।
- Co 3 : छात्राओं को तालों की संरचना व लयबद्धता के विषय में पूर्ण रूप से जानकारी देना ताकि संगीत में ताल लयबद्धता की गायन वादन की पूर्णता है ।
- Co 4 : विद्यार्थियों ने स्वर लिपि पद्धति के उद्भव एवं विकास के बारे में विस्तार से समझाना ताकि वे अपने अभ्यास में उसका लाभ उठा सकें ।
- Co 5 : भारतीय वाद्यवृंद की उत्पत्ति एवं विकास के बारे में विद्यार्थियों को भली-भांति समझाना ताकि विद्यार्थीगण विभिन्न भारतीय वाद्यों का वादन कर सकें ।

Semester-VI

MT 26 Music Instrumental

- Co 1 : पाठ्यक्रम में वर्णित रागों के परिचय व ऐतिहासिक स्वरूप की विस्तृत जानकारी छात्राओं को देना ताकि वे रागों का अभ्यास भाषानुसार कर सकें ।
- Co 2 : सुप्रसिद्ध सितार वादकों की जीवनशैली व विभिन्न स्वरों पर आयोजित लयक्रमों में वादन की विशिष्टताओं के विषय में बताना ताकि वे अपने सितार वादन के अभ्यास को आगे बढ़ा सकें ।
- Co 3 : छात्राओं को को तारों की संरचना व लयबद्धता के विषय में बखूबी यथोचित जानकारी देना क्योंकि राग वादन में ताल लयबद्धता अनिवार्य अंग के रूप में प्रस्तुत होती है ।
- Co 4 : शास्त्रीय संगीत व इलैक्ट्रॉनिक मीडिया के विषयमें छात्राओं को पूर्णरूप जानकारी देना ताकि वे वर्तमान समय में इसके महत्व को समझ सकें एवं अपने गायन-वादन में इसका लाभ उठा सकें ।
- Co 5 : विद्यार्थियों को 17वीं शताब्दी से 19वीं शताब्दी के दौरान भारतीय शास्त्रीय संगीत के विकास की जानकारी देना ताकि वे संगीत की ऐतिहासिक महत्व को समझ सकें, अपने शास्त्र पढ़ा को समृद्ध बना सकें ।

B.A. Political Science

Course Outcomes (COs)

Semester- I

B23-POL-101 Principles of Political Science - I (CC/MCC)

After completing this course, the learner will be able to:

1. Understand the meaning, nature and scope of Political Science along with its relationship with other Social Sciences.
2. Understand the concept, development and theories of the origin of State.
3. Develop a thorough understanding of state and its relationship with society, government and nation.
4. Comprehend the concepts, features and theories of sovereignty

Semester- II

Paper: B23-POL-201 Principles of Political Science-II (CC/MCC)

After completing this course, the learner will be able to:

1. Develop a thorough understanding of the theory and practice of government, separation of powers and rule of law.
2. Understand the various forms of government in a political system.
3. Understand the nature and operation of political parties, pressure groups, representation and bureaucracy.
4. Comprehend the functioning of monarchy, totalitarianism, military rule and democratic political regimes

Semester- III

Paper: PS 23(ii) Indian Political Thinkers (Option ii)

CO1: Tracing the evaluation of Indian Political Thinkers life history and economic view from ancient India to modern India.

CO2: Analysing the nationalist thinkers of Raja Ram Mohan Roy and Swami Vivekananda.

CO3: Assessing the nationalist Thinker to Lala Lajpat Rai and Bal Gangadhar Tilak.

CO4: Tilak was Father of Indian unrest.

Semester- IV

Paper: PS 24(II) Indian Political Thinkers (option ii)

CO1: Discussing the nationalism of Bhagat Singh, Mahatma Gandhi social changes due to working of democracy.

CO2: Discussing the moment against caste and British rule, Liberal democracy which develops society and equal right to take part.

Semester- V

Paper: PS 25(I) Comparative Politics (option i)

CO1: Need and significance of politics for modern state and comparison of different political systems in the world.

CO2: Knowledge about various approaches of comparative politics and relevance in changing political setup and political equations.

CO3: Knowledge about basis of Constitutionalism and different types of Constitution and problems in constitutionalism.

CO4: Inter-linkage and interdependence of pillars of democracy- Executive, Legislative and Judiciary.

Semester- VI

Paper: PS 26(I) Comparative constitutions of UK and USA (option i)

CO1: Fundamental and significance of constitutions of the UK and USA in the Indian context and also the socio-economic basis in democracies.

CO2: Making a comparative analysis of the following constitutions of UK and USA legislature Executive and Judiciary.

CO3: The constitution of UK and USA role in keeping democracy transparent and also the role of the pressure groups and political parties.

CO4: The electoral process in UK and USA and its transparency, people attitude towards franchising and consciousness towards politics, the quality and levels of bureaucracy in UK and USA.

B.A History

Course Outcomes(Cos)

Semester-I

Name of the Course : Idea of Bharat

Course Code : B23-HIS-101

CLO :

After completing this course, the learner will be able to:

1. Acquaint with the concept of Bharat Bharatvarsha and its eternity and major Knowledge Traditions and Educational System in ancient India.
2. Understand the concepts, ideas and developments in the spheres of Dharma, Philosophy, Art and Culture in ancient India.
3. Grasp the concepts, ideas and developments in the spheres of Science, Environment, Polity and Economy in ancient India.
4. Demonstrate the Political Contours of ancient Bharatvarsha, Places of ancient Indian Arts: Important ancient Janpadas and ancient Maritime Commerce

Semester-II

Name of the Course : History of India (From Earliest Times to 1206)

Course Code : B23-HIS-201

CLO :

After completing this course, the learner will be able to:

1. Learn about the Sources for reconstructing the history of Ancient India and also know the major historical developments from the origins of Harappan Civilization. upto the rise of Magdha Empire in ancient India.
- 2 Understand the major historical developments pertaining to the rise of Mauryan Empire, Post-Mauryan states like Kushana and Satvahana, rise of Gupta Empire, and Post- Gupta Powers in ancient India.
3. Grasp the major historical developments pertaining to the Triangular Struggle for Hegemony of Kannauj among Palas, Pritiharas and Rashtrakutas: Polity and Administration of Cholas; Rise of Rajputs, and invasions of Mahmood Ghaznavi and Muhammad Ghori in India.
- 4 Demonstrate the sites of Harappan Civilization, extent of Ashoka's Empire, extent of Kanishka's Empire and extent of Harsha's Empire on the outline map of India and also explicate it historically.

Semester -III

Paper: HR23(1) political History of India (1526- 1857AD)(option 1)

Co1: Students will gain knowledge about establishment of the Mughal Empire.

Co2: Students would have gained knowledge about administration of Sher Shah Suri.

Co3: Students will be given knowledge of Mughal society, economy and liberal religious policy.

Co4: Students would have gained sufficient knowledge about religious policy of Akbar. 3

Co5: Students will have the knowledge about establishment of English East India company and rivalry between the French and the British in India.

Co6: Students will understand the maps of political condition of India in 1526 and Mughal Empire at the death of Akbar 1605.

Semester IV

Paper: HR24(ii) Indian National movement (option i)

Co1: Students will have the knowledge about origin and growth of national consciousness.

Co2: Students will have the knowledge about ideology, programmes and politics of Moderates and extremists.

Co3: Students will have the knowledge emergences of Mahatma Gandhi, non cooperation moment, civil disobedience and Quit Indian movement, failure and impact of these moment.

Co4: Students will student will get knowledge through the maps about place of impact session of Indian National Congress, area and centres of quit India movement.

Semester -V

Paper: HR25(ii) Rise of modern world (option ii)

Co1: Students gain knowledge about federalism system in Europe and transition from feudalism to capitalism.

Co2: Students will have idea about the knowledge of technical revolutionaries as industrial, scientific, glorious and agriculture revolution.

Co3: Students will gain knowledge about economics changing from the Mediterranean to Athletic region.

Co4: Students will be enabled to understand maps of major place connected with industrial revolutions and capitalist power of Europe.

Semester. VI

Paper: HR23(ii) Modern Europe(option ii)

Co1: Students will get knowledge about causes, events and impact of French revolutions on France and Europe.

Co2: Students know about rise of Napoleon Bonaparte and his continental system.

Co3: Students will get knowledge about unification of Italy and Germany.

Co4: Students know about causes and impact of the first world war.

Co5: Students understand the maps of on the eve of French revolution, world war 1 and world war 2.

B.A (HOME SCIENCE)1st Sem.

Home and Interior Décor'

Course Code: B23-HSE- 101

Course Type: CC-1 (Core Course)

Course Learning Outcomes(CLO):

After completing this course, the learner will be able to:

1. To encourage experimentation with traditional and contemporary materials, technical processes and methods
2. To impart knowledge and skills for making different floor plans for different income groups.
3. To develop skills, abilities & knowledge that enable artistic production & creative problem solving skills.
4. To develop and apply concepts of art & design to create aesthetically pleasing interiors.
- 5.To acquire professional and entrepreneurial skills like interior decoration, use of waste material and decorative pieces for economic empowerment.

2nd Sem.

Nutrition Science

Course Code: B23- HSE-201

Course Type: CC-2(Core Course)

Course Learning Outcomes(CLO):

After completing this course, the learner will be able to:

1. To understand basic concepts of nutrition & importance of water & carbohydrates.
2. To understand the functions, sources, requirements and effects of excess and deficiency of different nutrients.
3. The students will be able to know the functions, sources, requirements and effects of excess and deficiency of different vitamins.
4. To understand the functions, sources, requirements and effects of excess and deficiency of different minerals.
- 5*.To impart practical knowledge about preparation of nutrient rich and some other recipes.

Semester 3

Paper HS 23 Physiology

Co1 Students learn about structure of animal cell.

Co2 Deep knowledge about human skeleton system.

Co3 Know about organs and functioning of digestive system.

Co4 Learn about functions and working of circulatory system.

Co5 Understand the knowledge about excretory system.

Semester 4

Paper HS 24 Clothing and Textile

Co1 Students know about history of traditional textile of india.

Co2 Understand the classification of fibre.

Co3 Gain the knowledge about manufacture and properties of different fibres.

Co4 Students learn about the meaning, objectives, types of bleaches.

Co5 They learn about basic weaves.

Semester 5

Paper HS 25 Food and Nutrition

Co1 Students learn about food and its functions.

Co2 Students have depth knowledge about food sources, daily allowances, deficiencies and excess intake of different vitamins and minerals.

Co 3 Students learn about role of water and dietary fibres.

Co 4 They learn the principles of meal planning during life cycles.

Co 5 Students learn about complete concept of food preservation.

Semester 6

Paper HS 26 Human Development

Co1 Understand the concept of child psychology.

Co2 Learn about the subject matter of learning, intelligence and personality development.

Co3 Know about the definition, features and importance of play.

Co4 Learn about the stages of development.

Co5 Know about the signs and symptoms of pregnancy and also about the case of expectant.

Co 6 Understanding the case of newborn baby and feeding and weaning concept in relation.

Co7 Learn different common ailments of childhood , skin infection and convulsions.

B.A MUSIC VOCAL

Course Outcome

SEMESTER-1

Name of the Course -Musicology

Course Code B23-BMV- 101

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VA C) CC

After completing this course, the learner will be able to:

1. The students will be able to describe the Various Ragas of North Indian classical music.
2. The students will be able to describe the various Talas of North Indian classical Music.
3. The students will be able to define the terminologies of Indian classical music.
4. The students will be able to explain the rich history of Indian music and the contribution of renowned musician.
5. The students will be able to perform the various ragas and taalās.

SEMESTER-2

Name of the Course-Historical Study of the Musical Terms

Course Code B23-BMV- 201

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VA C) CC.

After completing this course, the learner will be able to:

1. The students will be able to describe the Various Ragas of North Indian classical music .
2. The students will be able to describe the various Talas of North Indian classical Music.
3. The students will be able to illustrate the historical trends of Indian classical music.
4. The students will be able to describe the various theoretical aspects of Indian classical music.
5. The students will be able to perform the various ragas and talas

B.A. 2

Paper-1

Knowledge of the different notation system of indian and western notation system. Insights of northern and southern musical forms and styles. dhrupad, dhamar, khyal and thumri gayan shailies singing involves single-minded devotion and lifelong commitment. Students will learn to sing ragas and gayan.

Paper- 2

Writing notations of singing compositions and talas. learning of ragas and talas mentioned in the syllabus. classification and knowledge of musical instruments. practical singing perfectly all the musical notes in different pitches. basic knowledge of all the ragas and talas mentioned in the syllabus. knowledge of the different classical and semi classical forms of music. tuning the instruments and to develop the skills of accompaniment.

B.A.3

Paper-1

Students could get the knowledge of musical history of india from ancient period to the modern era.they get to know the origin of gharanas and the reasons behind the evolution of different gharanas in indian classical music. When students learn a new raga, they notate a few basic melodic phrases, patterns and simple compositions in that raga so that they can recall them later.

Paper- 2

Proficiency in writing notations of compositions and talas. learning of Ragas and Talas mentioned in the syllabus. Practical proficiency in singing ragas and talas mentioned in the syllabus. Knowledge of the different classical and semi classical forms of music. Tuning the instruments and to develop the skills of accompaniment.

Programme Outcomes (POs) for B.A.

After completing the graduation in the faculty of Arts the students have:

PO1: Acquired the knowledge with facts and figures concerned with the subjects such as History, Political Science, Economics, Home Science, Psychology, Mathematics and Languages etc.

PO2: Understood the basic concepts, fundamental principles and various theories in the above-mentioned subjects.

PO3: Gained analytical ability by studying Mathematics, Economics and Psychology.

PO4: Realized the importance of literature in terms of aesthetics, mental, moral and intellectual development of an individual by studying Hindi, English, Sanskrit and Punjabi languages.

PO5: Gained ability to perform as soloists, ensemble members and chamber musicians at appropriate levels after graduating in Music (Vocal) and Music instrumental.

PO6: Maintained a health enhancing level of fitness throughout the programme as well as to be able to collect and analyze personal fitness data after studying the subject Physical Education.

PO7: Learnt family relations, community living, art, food, nutrition, clothing, textiles and home management by studying practical subjects Home Science.

Programme Specific Outcomes (PSOs) for B.A.

After completing the graduation in the faculty of Arts the students have:

PSO1: Appreciated that social issues are no longer permanent and largely depend on political and social changes.

PSO2: Become eligible for competitive exams for higher studies and job in private and public sector after graduation in Arts.

PSO3: Emerged as a multifaceted personality who is self-dependent; earning her own bread and butter and also creating opportunities to do so.

PSO4: Convinced herself that the study of literature and Social sciences are not only helpful to evolve better individual and better society but also helpful to make the life of an individual happier and more meaningful.

PSO5: Become efficient to contribute in the society by providing their skills and awareness of psychotherapy and home-making after studying practical i.e. Home Science and Psychology.

PSO6: Helped to demonstrate the understanding and use of public performance as a means for engaging communities, creating cultural awareness and providing ethical leadership.

PSO7: Written articles, novels, stories to spread the messages of equality, nationality, social harmony and other human values.

PSO8: Developed various communication skills such as reading, listening, speaking etc. which will be helpful in expressing ideas and views clearly and effectively.

COURSE OUTCOMES

NAME OF PROGRAMME: B.COM (GENERAL)

Semester- Ist

PAPER (B23-COM-101) FINANCIAL ACCOUNTING-1(Course Type: CC-1)

After completing this course, the learner will be able to:

1. develop the understanding of theoretical framework of financial accounting, artificial intelligence and data analytics, accounting standards and accounting cycle.
2. prepare the financial statements of companies and apply the knowledge of depreciation accounting.
3. understand and prepare the accounts for the non-profit organizations and consignment accounts.
4. prepare the branch accounts and knowing the accounting treatment in hire purchase & installment payment accounts

PAPER B23-COM-102 Business Laws(Course Type: CC-2)

After completing this course, the learner will be able to:

1. understand the provisions of Indian Contract Act.
2. know the obligations of buyer and seller for making the business agreements and contracts.
3. apply skills to initiate entrepreneurial ventures as partnership and LLP.
4. understand the concepts & scope of negotiable instruments and legal safeguards in Information Technology.

PAPER (B23-COM-103)Business Management. (Course Type: CC-3)

After completing this course, the learner will be able to:

1. gain knowledge about the conceptual framework of business management; development of management thoughts and knowing the emerging management thoughts.
2. understand the utility and application of planning and organizing functions of management.
3. assimilate and use the concepts of delegation, decentralization and staffing in organization.
4. comprehend the concept and applications of leadership styles, and controlling practices in organizations.

PAPER B23-COM-104Business Mathematics-1(Course Type: CC-M1)

After completing this course, the learner will be able to:

1. understand set theory, logical statements and truth tables.
2. learn the logarithms and arithmetic and geometric progressions and their applications.
3. familiarize with the concepts of matrices and determinants. Learn to solve system of simultaneous linear equations.
4. have the conceptual knowledge of Compound interest, annuity, loan, debenture and sinking funds and attain skills to use these concepts in daily life.

Semester- II

PaperB23-COM-201 Computerized Accounting System*(Course Type: CC-4)

After completing this course, the learner will be able to:

1. understand the concept of computerized accounting and be familiar with accounting software.
2. create company ledger, vouchers in accounts software.
3. prepare financial statements in Tally.
4. comply with tax regulations – GST, Income Tax, etc

PAPER B23-COM-202 Company Law (Course Type: CC-5)

After completing this course, the learner will be able to:

1. understand the concept of company as form of business organization, regulatory framework and the process of incorporation.
2. elaborate on important documents of the company and their operational usefulness.
3. understand the procedure of raising capital, knowing rights & duties of Directors and Company Secretary.
4. apply the understanding of the regulatory provisions relating to dividend decisions and winding up of the company.

PAPER B23-COM-203 Principles of Marketing (Course Type: CC-6)

After completing this course, the learner will be able to:

1. understand the basic concepts of marketing and assess the marketing environment.
2. analyse the consumer behaviour in the present scenario and marketing segmentation.
3. discover the new product development and factors affecting the price of a product in the present context.
4. understand the promotional and distribution strategies along with the recent developments in the field of marketing.

PAPER B23-COM-204 Business Mathematics-II (Course Type: CC-M2)

After completing this course, the learner will be able to:

1. gain the knowledge to find derivatives simple functions related to commerce problems, attain skills to use application of derivatives in evaluating maxima and minima.
2. learn to find integration of simple functions related to commerce and economic problems, attain skills to use application of integration in business and commerce problems.
3. apply binomial theorem, learn the concept and applications of permutations and combinations.
4. learn the concept of Linear programming and formulation of linear programming problems related to business and commerce

Semester-III

Paper: BC 301 Corporate Accounting-I

CO1: Through this course students will be able to understand the concept of issues of shares & debentures.

CO2: Students will get understanding regarding redemption of shares & debentures.

CO3: Students will get an exposure to the company final accounts.

CO4: After successful completion, students will get to know about amalgamation & its types.

CO5: Students will get to know how to deal with complex issues of Amalgamation & reconstruction.

PAPER (BC-302) BUSINESS STATISTICS-I

Co 1 : The course enable the students to understand the research field through different statistics methods.

Co 2 : It provides detailed studies of statistics, collection of data, central tendencies like Mean, Median, Mode, H.M. & G.M.

Co 3: It provides detailed studies of Measure of Dispersion and Index numbers.

Co 4 : It provides detailed studies of Time series.

Paper: BC 303 Business Law-I

CO1: To Provide basic knowledge of the provisions of the Contract act 1872.

CO2: The students become aware with practical aspects of discharge of the contract and its remedies.

CO3: To impart knowledge about concept of consumer protection act 1986 and its different consumer's redressal forums.

CO4: To give knowledge about sales of goods act 1930, concept of unpaid seller, suits against buyer and seller etc.

Paper: BC 304 Company Law-I

CO1: The students will be able to know about company and its various types.

CO2: They become aware about the salient features of company act 2013 and its various amendments.

CO3: Students will get the knowledge of promotion and incorporation of company and various legal documents required for its incorporation.

CO4: They will come to know how prospectus is formed and how it can be scanned.

CO5: They become aware about shares, debentures and stock and how shares can be converted into stocks.

CO6: This course also enables students about the memorandum and article of association and its various components.

PAPER (BC-305) INDIAN FINANCIAL SYSTEM (IFS)

Co 1 : The course enables the students to understand financial system of Indian economy.

Co 2 : It improves the financial literacy among the students.

Co 3: It provides detailed studies of Money Market, Capital Market, Regulatory Banks and their functions.

Co 4 : It provides detailed studies of commercial Banks, Payment Banks, E-Banking and development Banks of India.

Paper: BC 306(opt i) Rural Marketing

CO1: It would provide knowledge to students regarding marketing strategies and rural pricing policies.

CO2: It would give information about the difference between urban market and rural market easily.

CO3: Rural marketing would help the students to know about the consumer's behaviour.

CO4: Help the students in understanding the rural marketing environment and rural marketing mix.

Semester- IV

Paper: BC 401 Corporate Accounting-II

Co1: Give Knowledge about preparation of accounts of companies as per latest companies act.

Co2: Understand accounting requirement of banking and insurance companies.

PAPER (BC-402) BUSINESS STATISTICS-II

Co 1 : The course enables the students to understand the research field through different statistics methods.

Co 2 : It provide detailed studies of correlation and Regression.

Co 3: It provides detailed studies of Probabilities Addition theorem, Multiplication theorem,

conditional Probabilities and Baye's theorem.

Col 4 : It provides detailed studies of Binomial distribution Poisson distribution and Normal distribution.

PAPER (BC-403) Business Law-II

Co 1 : To impart knowledge about provisions of Negotiable Instruments Act 1881.

Co 2 : To understand the basic concept of information technology act 2000.

Co 3: Knowledge of procedure of filling RTI form under Right to Information Act 2005.

Co 4 : It help the students in understanding basic concepts of Limited Liability Partnership Act 2008.

Paper: BC 404 Company Law-II

CO1: The course enables students to understand the procedure of transfer and transmission of shares and debentures.

CO2: Students become also aware about the electronic sales and purchase of securities i.e. depository system and its working.

CO3: Students will get the knowledge of legal position, qualification, appointment, removal, powers and duties of directors.

CO4: They become able to know the Reconstruction and Amalgamation Procedure of companies.

CO5: This course also become aware the students about the winding up, its modes and consequences of winding up.

CO6: Including all above points students also become aware about the statutory, annual general and extra ordinary general meeting that are required in companies and quorum.

CO7: This course helps the students to understand the practicality of Theoretical concepts.

Paper: BC 405 Computerized Accounting System

CO1: It enables the students about installation of Tally, Tally vault password and splitting company data.

CO2: The students will get to know about practical aspects of computerized accounting.

CO3: To enable the students in preparation of financial statements and reports by various voucher entries.

CO4: It enables the students to maintain payroll and computerized tax liability calculations.

CO5: It makes students ready with required skills for employability in the job market.

Paper: BC 406(opt i) Advertising

Co 1 : The Students will be able to learn role of advertising as a promotional tool.

Co 2 : Students will be able to develop creative advertisements.

Co 3: To know about role of advertising agency in current business world.

Co 4 : Students will be able to understand role of various advertising media.

Semester –V

Paper: BC 501 Cost Accounting

CO 1: To understand the basic concepts and processes used to determine costs .

CO 2: To be able to interpret cost accounting statements.

CO 3: To be able to analyse and evaluate information for cost ascertainment, planning, control and decision making.

CO 4: To be able to solve simple cases .

Paper: BC 502 Financial Management

CO 1: The students will be able to know Basic Financial Management concept

CO 2: To give an understanding of the overall role and importance of finance function.

CO 3: Students will be able to analyze the complexities associated with management of cost

of funds in the capital structure.

CO 4: Students will be able to understand the concept of Investment, financing and dividend policy decisions.

Paper: BC 503 Goods and Services Tax

CO 1: To understand the concept of the earlier indirect tax system and present indirect tax system and difference between two.

CO 2: To understand the importance of indirect taxes (GST) in the Indian and Global economy and its contribution to the economic development.

CO 3: The students will be able to learn the procedure for registration, payment and refund of GST.

CO 4: To understand the difference between regular scheme and composition scheme in GST.

CO 5: To understand the implications of GST on the taxable capacity of consumers, dealers and of the society at large and its changes.

CO 6: To understand the appeals, offences and penalties with respect to GST.

Paper: BC 504 Income Tax I

CO 1: Students will be able to define the basic concept of income tax and determine the residential status for tax implication.

CO 2: To make student understand the computation of total income under five heads of income.

CO 3: It enables the students to know about the income which does not become part of total income.

CO 4: Students will learn the provision of clubbing and aggregation of income.

Paper: BC 505 Auditing

CO1: Understand the processes of Financial audit.

CO2: Comprehend the importance of internal check, vouching, verification and valuation.

CO3: Understand the provisions of companies Act regarding Audit.

CO4: Understand the special points to be considered at the time of audit of statutory corporations, local bodies banking and insurance companies.

Paper: BC 506 Opt (2) Indian Economy

After studying this paper students will be able to understand:

CO1: What are the basic features of Indian Economy and its Potential of Natural Resources.

CO2: Role of Industry & various policy Decisions to induced Industrial revolution in India.

CO3: Understand Agriculture as the foundation of Economic growth and development, analyse the progress & changing nature of agriculture sector and its contributions to Economy as a whole.

CO4: Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failure& achievement as the foundation planning & economic reforms taken by the government.

CO5: Importance of foreign sector & contribution of import export in Indian economy.

CO6: Problem of Poverty and unemployment will make the students able to deal with issues related with these problems and find out methods to deal with such problems.

Semester-VI

Paper: BC 601 Management Accounting

CO1: This course will make the students to understand management accounting for decision making purpose.

CO2: This will teach how reporting is done at all three levels of management.

CO3: This will provide knowledge about the ways of formulation of budgets.

CO4: This enables to understand the concept of break-even-point and its use to increase the profitability of business.

CO5: This course teaches the method to identify the variances between Actual and Standards so that these can be removed on time.

Paper: BC 602 Fundamentals of Insurance

CO 1: Students will get better understanding of insurance practices.

CO 2: Students would be able to know about the different types of insurance policies and their distinct features.

CO 3: To know about the different types of accidental insurance policies, motor vehicle insurance policies and their distinct features and similarities.

CO 4: To give knowledge about the present organizational structures of a general insurance companies and their subsidiaries and private companies.

CO 5: To provide information about the principles for getting a general insurance policy in terms of insurable interest, indemnity, subrogation & utmost good faith.

Paper: BC 603 Human Resource Management

Co1: Evolution, concepts, objects and function of HRM.

Co2: Human resource planning, recruitment and selection.

Co3: Management of industrial relations.

Co4: Concepts, Causes and prevention of industrial disputes.

Co5: Leadership style, qualities of an effective leader.

Co6: Human resource audit and research.

Paper: BC 604 Income Tax-II

CO1: Students will be able to know about the deduction u/s 80C to 80U for planning of tax in legal manner.

CO2: It enables the students to compute and assess the total income of individual, HUF and firm.

CO3: Students will develop an understanding of various amendments made from time to time in Income Tax.

CO4: Students will get the knowledge about various ITR forms and how to file it.

CO5: Understand the power of Taxation authorities and assessment types.

Paper : BC 605 Business Environment

Co1: At the End of the course students will be able to understand the importance & components of business environment.

Co2: Students are made aware about Public, private & Joint sectors in India with examples.

Co3: Students come to know about the economic system.

Co4: Learn about monetary & fiscal policy.

Co5: Students are made aware about economic planning achievements & Failures in India.

Co6: Students come to know about globalization of Indian business, MNC in India, Competition Act, Foreign Exchange Management Act (FEMA) & Foreign Exchange market. all these will be helpful to a business successfully.

Paper: BC 606 (Opt. I) Retail Management

CO1: To explain the design, implementation and assessment of retailing strategies based on consumer need and market changes.

CO2: They can understand the impact of retailing on the economy.

CO3: They can describe what is retailing and role played by the retailers in society.

CO4: Learners get basic understanding of the retail management and FDI.

CO5: They can evaluate current retailing trends based on consumer, legal and competitive environments.

PROGRAMME OUTCOMES (POs) for B. Com (General)

PO1: After completing Graduation, students can get through skills regarding various aspects like Marketing, Finance, communication, selling, tax and other administrative works.

PO2: By Studying three years course students will be able to understand the value and importance of Critical thinking, training evaluating and problem-solving approach in various disciplines.

PO3: Developing an attitude for working efficiently and effectively in a business environment.

PO4: By Studying three years course students will be able to understand the value and importance of Critical thinking, training evaluating and problem-solving approach in various disciplines.

**PROGRAMME SPECIFIC OUTCOME (PSOs) for
B. Com (General and SFS)**

PSO1: This program inculcates among the students the sense of discipline, confidence, and communication skills required in the changed global scenario.

PSO2: It gives students theoretical and application-based knowledge in the banking and financial sector and analytical skills to work with various financial tools, such as regulatory agencies and global markets.

PSO3: Students can get the practical skill to work as an accountant, audit assistant, tax consultant, and computer operator.

PSO4: - Enables learners to prove themselves in different Professional examinations like CA, CS, CAT, GRE, CMA, MPSC, UPSC etc.

.PSO5: Commerce graduates may become expert marketing professional for insurance,

PSO6: This program will create awareness among students for their rights and duties by understanding and studying various acts and laws.

COURSE OUTCOME

Name of Programme: B.Sc.(Non-Medical)

Physics

Semester-1

Paper B23-PHY-101 Mechanics(CC/MCC)

After completing this course, the learner will be able to:

1. Understand the dynamics of system of particles, conservation of energy and momentum application of both translational and rotational dynamics motions simultaneously in analyzing rolling with slipping.
2. Differentiate between elastic and plastic body. Elastic constants, determination and their physical significance Torque and its significance.
3. Familiar about the special theory of relativity and its applications. Michelson's Morley experiments and its finding.
4. Analyze the two body Central Force problem and its applications
5. Learn to present observations, results, analysis and different concepts related to experiments of Mechanics.

Semester 2

Paper: B23-PHY-201 Electricity, Magnetism and EM Theory (CC/MCC)

After completing this course, the learner will be able to:

1. Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to apply Gauss's Divergence & Stokes theorem to solve various problems in electrostatics
2. Describe the magnetic materials & important properties of magnetic field. Understand the properties and theories of dia-, para- & ferromagnetic materials.
3. Derive Maxwell equations and their physical significance and familiar about the propagation of electromagnetic waves i.e. boundary conditions at the interface between different media. The students will also be able to have basic idea about the propagation of electromagnetic waves in free space and in medium.
4. Understand D.C. and A.C. circuits, able to apply and analyse using networks. Analyze DC/AC circuits consisting of parallel and/or series combinations of voltage sources and resistors and to describe the graphical relationship of resistance, capacitor and inductor.
5. Learn to present observations, results, analysis and different concepts related to experiments of Electricity and Magnetism.

Semester 3

Paper: PH301 computer programming and thermodynamics

Co1: This course will help to understand the concept of heat and its conversion from one form to another, thermodynamics can be used in our daily life, laws of thermodynamics are used in refrigerator, air conditioners, heat pump one of the important field of thermodynamic, heat transfer which relates to transfer of heat between two media.

Co2: The students are able to understand the law of thermodynamics shows energy behaviour, for example how and why heat which is form of energy transfer between different objects.

Co3: The concept of Maxwell relations allow us to relate changes in one set of thermodynamics variable to other variables.

Co4: The students get the information about programming which is important to create software and applications that helps computer and mobile used in daily life due to all these reasons it's really important to learn how to use programming language in our daily life, programming is important to collect, manage, calculate and analyse processing of data and information accurately.

Paper: PH 302 wave and optics-1

Co1: The students are able to understand and correlate various optical phenomena related to light and practical problems applications in day to day life.

Co2: The concept of analytical treatment of Fourier analysis would stabilized bridge that link mathematical equation with their physical aspects and company ,hence you recognition and conceptual clarify.

Co3 :This course will help to understand the concept of a different dimension of laws of reflection, refraction and other equation based on them is shown in matrix method. These methods result in simplification/alternate of complicated and lengthy equations .

Co 4: The students will come to know about wave nature of light is described by interference of light and it answers many observations in our daily life. for example, coloration in the soap bubble, fringe patterns observed somewhere and laser phenomena based on coherence of light. thus, students are able to observe and analyse various naturally occurring phenomena.

Semester- iv**Paper: PH 401 statistical mechanics**

Co 1: This course helps the students to understand the methods of statistical mechanics used to develop its statistics for bose-einstein, fermi-dirac and photon gases.

Co 2: The students are able to understand the concept of microstates and macro states and how the particles are distributed in the system in different states.

Co 3: The students get the information about the macroscopic and microscopic description of temperature, entropy and free energy and their descriptions in terms of probabilities.

Co 4: The concept of canonical and micro canonical ensemble. This is very useful in our daily life.

Paper: Ph 402 subject- wave and optics ii

Co 1: This course helps the students to understand the description of wave nature of light by interference of light answers many observations in our daily life. for example, coloration in the soap bubble, fringe pattern observed somewhere and laser phenomena based on coherence of light.

Co 2: The students are able to observe and analyse various naturally occurring phenomena.

Co 3: The concept of polarization would comprehensively describe the difference between longitudinal and transverse waves. along with it, students can learn the practical aspect to distinguish between polarized and unpolarised light.

Co 4: The students are able to understand and correlate various optical phenomena related to light with practical problem/ application in day to day life. for e.g. the distinction between various type of light and different set of Polari meters.

Subject- Physics practical

Co 1: The students come to know how to make use of handling of the optical instruments such as bi-prism arrangement, telescope and microscope would provide learner an expertise in the field of measurements.

Co 2: The concept of the experiments of the optics division would assist students to recognize and verify the various laws related to the light and optical event which is just a part of their imagination till now.

Co 3: In addition to realize the fundamental concepts of theory, the laboratory experiments could make available learner a potential candidate to be absorbed in the industrial world.

Co 4: The course of computer programming would help the students to get familiar with software skills. It not only develops a skill in the students but also open up another way to the students after completing their graduation course.

Semester- v

Paper: PH 501 quantum and laser physics

Co 1: After studying this course the students shall be able to understand origin of quantum physics, the behaviour of radiation and matter at atomic and subatomic levels.

Co 2: This course helps students to study applications of Schrodinger wave equation.

Co 3: Main features and basic principles of laser will be studied by students. Students will be familiarized with einstein's quantum theory of emission and absorption of radiation.

Co 4: Shall enable them to study some specific laser systems and the applications.

Paper: PH 502 Nuclear Physics

Co 1: The objective of this course is to study various properties of nucleus, its structure and nuclear mass spectrograph.

Co 2: Students will learn alpha- disintegration, alpha- drag neutrino hypothesis, beta-decay, energetic of gamma ray and different phenomenon related to radiations interaction with matter.

Co 3: They would be able to study nuclear accelerators understand nuclear reactions, Q value and general aspects of nuclear fission fusion reactors.

Semester- vi

Paper: PH 601 solid state and nano physics

Co 1: This course helps students to get familiar with an extended knowledge of principles and techniques of solid-state physics.

Co 2: Students learn to determine the mechanical structure of materials and how this conduct electricity, how they interact with light.

Co 3: It will enable them in understanding the process of determining the structures by x-ray diffraction method.

Co 4: Graduates have a wide variety of opportunities after learning this discipline such as career in applied research and education along with the opportunities in aerospace, engineering industries and importance of nano-technology and its applications.

Paper: PH 602 atomic and molecular spectroscopy

Co 1: Students are able to analyse alkali atoms and their spectrums.

Co 2: After studying this course student could understand the raman effect which further helps in analysing rotational and translational energies.

Co 3: The analysis of electric and magnetic fields effect on alkali atoms can also be done by students.

Subject- Physics Practical

Co 1: The experiment such as transistor amplifier, oscillator would help students get a hold of practical aspects of these electronic devices.

Co 2: In addition, computer programming develops software skills of students helping them to pursue a career in computer world.

Co 3: Students learn to handle the sophisticated optical instruments used to determine its wavelength and resolving power.

Co 4: Along with the knowledge of theoretical concepts, students get knowledge about application of such concepts in real life and build a career out of it.

BSc (Non Medical) Chemistry

Semester-1

Paper: B23-CHE-101 Chemistry-I CC/MCC

After completing this course, the learner will be able to:

1. Enable to understand the basis of quantum mechanics and structural idea and relevance in describing shapes of s, p and d orbitals.
2. To learn about role of temperature and pressure to establish the state of gases and describe the concept of critical constants of real gases.
3. Get knowledge about the electrophile/nucleophile and its role in mechanism of preparation of organic compounds.
4. To know the physical properties, morphology and crystalline study of liquid and different type of solids.
5. Hand on practice in preparation of solutions, compounds, estimation and determination of physical properties of some compounds.

Semester- II

Paper B23-CHE-201 Chemistry-II CC/MCC

After completing this course, the learner will be able to:

1. Able to understand the theories which governs the shape, structure and ionic behavior, polarizability, ionic structures and concept of Lattice energy of crystals of molecules.
2. To know the basics of rates of chemical reactions, the laws and solubility behavior of solutes in different compositions of solvents
3. To know about alkanes, alkene, cycloalkanes and their chemical reactions.
4. To understand about weak interactions and bonding in metals.
5. Hand on practice for estimation and determination of viscosity, specific refractivity properties of some compounds.

Semester-III

Paper: CH 201 Inorganic Chemistry theory

Co 1: Students will have the ability to demonstrate knowledge and understanding of essential facts concepts and principles of inorganic chemistry.

Co 2: Students will be able to relate the basic difference amongst transition metals. metal complexes cover a wide applicability in quantification of analysis and metal extraction.

Co 3: Students will be able to know about spectral property of different inorganic compound based on their electronic properties.

Co 4: Students will come to know about the urge of development of coordination chemistry and its integration with the d-block element.

Co 5: Basic nature of solvent and how different solvent show different reactions is all that students will understand.

Paper: CH 202 Physical Chemistry theory

Co 1: Students will understand the concept of entropy and how the whole universe is related to it and how it effects other properties.

Co 2: Students will learn about the relationship between basic concept of thermodynamics and everyday world. they will also learn how the stability of whole universe is affected with different laws of thermodynamics.

Co3: Students will get the knowledge about basic difference between path and state functions.

Co4 :Students will be able to know the importance of equilibria and how various types equilibrium are different by various external parameters.

Co 5 : Students will learn how to calculate the thermal efficiency of heat energy and half problems are solved which are based on laws of thermodynamics

Co6: Students will determine nernst distribution law and they can relate it to various factor causing it's deviation.

Paper : CH 203 Organic Chemistry theory

Co 1: Students will inculcate the knowledge about alcohols and phenols and about their activity.

Co 2 :Students will understand about the epoxides and their importance in industrial chemistry.

Co 3 : Students will get a throw knowledge about the basic concept of UV spectroscopy and have it can be used in organic chemistry for the identification of type of electronic transitions, reason for the colour of compounds their stability.they will also come to know about the calculation of lambda maximum by woodward fieser rules.

Co 4:Student will learn the importance and application of UV spectroscopy in structural determination of organic compound

Co 5: Students will come to know about the carboxylic acid their properties

Semester -iv

Paper : Ch 204 Inorganic Chemistry Theory

Co 1: Students will be able to know about the chemical and physical properties of f-blocks elements including lanthanide and actinides specifically reasoning for anomalous electronic configuration.

Co2: Students will be able to differentiate between acidic and basic radicals and how they can be further useful in research as well as day to day life.

Co :3 Enables to individuate qualitative analysis from quantative analysis

Co 4: Students will understand about different theories of precipitation and how they are unique from each other.

Paper: CH205 Physical Chemistry theory

Co 1: Students will inculcate knowledge about the advance domain of thermodynamics.

Co 2: Students will understand second law of thermodynamics and its reaction with entropy.

Co 3: Students will learn how to apply third law in calculating entropy for various phases of matter and pure crystalline solid.

Co 4: Students will conceptualize the concept of work function, gibb's energy and their significance for criteria of spontaneous reactions.

Co 5: Students will acquire knowledge about electro chemistry, various electrodes and their reactions, cell emf and its applications in solubility product and potentiometric titrations

Paper: CH 206 Organic Chemistry Theory

Co 1: Enables to understand the concept of ir spectroscopy and its applications in everyday life.

Co 2: Enables to familiarize with the amines, their preparation, reactions and comparison between primary, secondary and tertiary amines basicity.

Co 3: Students will be able to know about diazonium salt and their applications.

Co 4: Students will inculcate the understanding of aldehydes and ketones, their reactions comparison and mechanisms of some name reactions and nucleophilic addition reactions.

Paper: CH 207 Practical

Co 1: Experimentation enhances the skills of managing resources, time and team work. students will be able to function as a member of an interdisciplinary problem-solving team.

Co 2: Students will get skilled to perform gravimetric analysis efficiently.

Co 3: Students will be able to figure out different organic compounds.

Co 4: students will be able to detect different functional groups, extra elements in the organic compound.

Co 5: Enables to handle the apparatus used in calorimetric experiments and perform them accurately. Co 6: Students will be able to perform some inorganic preparation.

Co 7: Enables to verify beer's law through colorimetry.

Co 8: Students will be able to conceptualize distribution law experimentally.

Semester V

Paper: CH 301 Inorganic Chemistry Theory

Co 1: Students will come to know about the limitations of valence bond theory and they will be able to have an idea about crystal field theory .

Co 2: Students will understand CFT for both tetrahedral and octahedral complexes.

Co 3: Enables to have detailed knowledge about the magnetic and electronic properties of transition metal complexes.

Co 4: Students will be able to understand the concept of stability in metal complexes governed by kinetic and thermodynamic parameter.

Paper: CH 302 Physical Chemistry Theory

Co 1: Students will understand the concept of quantum mechanics and limitations of classical mechanics.

Co 2: Students will acquire knowledge about operators in quantum mechanics. they will also learn postulate, wave functions, expectation values and probabilities for different system.

Co 3: Students will gain knowledge about spectral information.

Co 4: enables to understand molecular spectroscopy, description of vibrational, rotational and raman spectra thoroughly and their role in research.

Co 5: enables to conceptualize molecular structure, physical properties, dipole moment and various types of magnetism.

Paper: CH 303 Organic Chemistry Theory

Co 1: Students will inculcate the knowledge of principle of nmr spectroscopy, detailed description and applications of nmr spectroscopy in determining the structure of organic compounds.

Co 2: Students will be able to classify different carbohydrates based on their structure and positional composition.

Co 3: Students will acquire knowledge about the nature of metal carbon bond present in organic compounds.

Co 4: Enables them to learn about the organo metallic reagents like organolithium, organozinc and organomagnesium reagents and their applications.

Semester – VI

Paper: CH 304 Inorganic Chemistry Theory

Co 1: Students will be able to differentiate between acids and bases on the basis of different concepts.

Co 2: Students will be able to cater their theoretical knowledge of acid-base into practical world.

Co 3: Students will have an insight idea of organo metallic reagents in inorganic chemistry and their applications.

Co 4: Students will be able to know about the bioinorganic chemistry. they will learn about the roles of different metal ions in various physiological and biological processes.

Co 5: Students will acquire knowledge about the compounds of silicon and phosphorus and their applications especially in greases.

Co 6: Students will come to know about silicones and phosphazenes.

Paper: CH 305 Physical Chemistry Theory

CO 1: Students will have a detailed idea of statistical mechanics and their applications.

Co 2: Students will have thorough knowledge about the different types of solutions, dilute and concentrated. they will also learn about the colligative properties and their relation to different solutions.

Co 3: Students will capable of understanding phases and how phase equilibria of two components are related.

Co 4: Enables to conceptualize photochemistry, its laws and to analyze the impact of photochemistry in sustainable development to help society.

Paper: CH 306 Organic Chemistry Theory

Co 1: Students will acquire knowledge about the organic synthesis via enolates.

Co 2: Students will be introduced about heterocyclic compounds in organic chemistry.

Co 3: Students will come to know about the change of properties of organic compounds by introducing heteroatom amongst cyclic hydrocarbons.

Co 4: Students will be taught about proteins amino acids and peptides.

Co 5: Students will be able to differentiate between primary, secondary, tertiary structure of proteins. Co 6: Students will get to know about the applications of heterocyclic compounds.

Co 7: students will inculcate knowledge about the industrially important inorganic polymers and their applications in everyday life.

Paper: CH 307 Practical

Co 1: Students will have a vast idea of different types of salts and the factors on which they are categorized into different groups.

Co 2: Students will be able to categorize and maintain a detailed record differentiating different radicals on basis of different factors.

Co 3: Students will learn about the different organic synthesis.

Co 4: Students will acquire comparative knowledge of different types of chromatography.

Co 5: Students will be able to determine R_f values and learn about the separation from R_f values.

Co 6: Students will be skilled to perform conductometry experiments.

Co 7: Students will experience to handle pH meter and potentiometer through various experiments.

B.Sc.Mathematics

COURSE OUTCOMES

SEMESTER I

PAPER – B23-MAT-101 Calculus (CC)

After completing this course, the learner will be able to:

1. Gain knowledge of the concepts and theory of limit, continuity and differentiability of functions. Attain skills of calculating the limit of functions and examining the continuity and differentiability of different types of functions, and perform successive differentiation of functions. To apply the procedural knowledge to obtain the series expansions of functions which find multidisciplinary applications.
2. Understand concepts of asymptotes and curvature, the geometrical meaning of these terms and to have procedural knowledge to solve related problems.
3. Determine singular points of a curve and classify them. Understand the concept of rectification of curves and derive the reduction formulae.
4. Have theoretical knowledge and practical skills to evaluate the area bounded by the curves, and volume and surface area of solids formed by revolution of curves

5. Attain cognitive and technical skills required for solving different problems of calculus associated with tracing of curves, determination of curvature, and rectification of curves, volume and surface area of solids of revolution. Have technical and practical skills of solving calculus problems related to differentiation and integration of functions by using MAXIMA software

SEMESTER 2

PAPER : B23-MAT-201 (Algebra and Number Theory)(CC)

After completing this course, the learner will be able to:

1. Gain knowledge of the concepts of symmetric, skew-symmetric, Hermitian, skew-Hermitian, Orthogonal and Unitary matrices, Linear dependence and independence of rows and columns of a matrix. Have knowledge of procedure and cognitive skills used in calculating rank of a matrix, eigen values, characteristic equation, minimal polynomial of a matrix and technical skills used in solving problems based on Cayley- Hamilton theorem.

2. Have knowledge of the concepts used in solving problems based on relations between the roots and coefficients of general polynomial equation in one variable, solutions of polynomial equations having conditions on roots, common roots and multiple roots. Understand Descartes' rule of signs and learn cognitive and technical skills required in assessing nature of the roots of an equation and solving problems based on these.

3. Have deeper and procedural knowledge required for solving cubic and biquadratic equations used in Mathematics as well as many other learning fields of study. To understand the basic concepts of number theory and their applications in problem solving and life- long learning.

4. Have knowledge of concepts, facts, principles and theories of Linear Congruences, Fermat's theorem, Euler's theorem, Wilson's theorem and its converse, Chinese Remainder theorem. Attain cognitive skills used in solving linear Diophantine equations in two variables.

5. Attain cognitive and technical skills required to formulate and solve practical problems involving rank of a matrix, inverse of a matrix, Cardon's method, Ferrari's method, Descartes' method, Cayley-Hamilton theorem, Euler's theorem and Chinese Remainder theorem. Have technical and practical skills required for solving algebraic equations, finding inverse and eigen values of matrices by using built in functions of MAXIMA software..

Semester - III

Paper : BM 231 Advanced Calculus

Course Outcomes:- This course will enables the students to

Co 1 : Concept of learning different indeterminate form of limit, continuity, discontinuity of function at two variables.

Co 2 : Learning about partial differentiation, differentiability of functions of two variables and Maximum and Minimum of a function of two variables.

Co 3 : Understanding about behavior of curves in spaces.

Paper : BM 232 Partial Differential Equations

- Co 1 : Student will learn about formation of partial differential equations, first order linear and nonlinear partial differential equations.
- Co 2 : Students will be able to know linear partial differential equations of 2nd and higher order.
- Co 3 : Students will also learn about classification and canonical forms of 2nd order linear partial differential equations.
- Co 4 : Students will learn to derive wave, heat equation in one and two dimensional and laplace equation.

Paper : BM 233 Statics

- Co 1 : Student will learn Moments and couples.
- Co 2 : Students will understand the concept of composition and resolution of forces.
- Co 3 : Students will understand basic concept of mechanics and equilibrium of rigid body.
- Co 4 : Students will learn about virtual work and forces in three dimensions.
- Co 5 : Students will study wrenches, Null lines and planes.
- Co 6 : Students will analyze equilibrium conditions under the effect of external forces acting on the rigid and to simplify different problems using the basic principles of mechanics.

Semester - IV

Paper : BM 241 Sequences and Series.

- Co 1 : Student will learn the concepts of sequences, their type i.e. finite, infinite bounded and unbounded sequences etc..
- Co 2 : Students will study neighbourhood, interior points, limit of sequences, limit points, open sets closed sets.
- Co 3 : Students will learn a very useful theorem Bolzano-Weierstrass theorem and Heine Borel theorem.
- Co 4 : Students will learn convergent and divergent sequences.
- Co 5 : Students will also learn about the concept of Alternating series.
- Co 6 : Students will study various tests: D'Alembert's Ratio test, Raabe's test, Logarithmic test, de Moivre and Bertrand's test, Cauchy's nth root test, Gauss test, Cauchy's integral test etc.
- Co 7 : It will be helpful to understand the concept convergence and divergence of infinite products.

Paper : BM 242 Special Functions and Integral transform.

Co 1 : Student will learn about power series and Bessel's equation.

Co 2 : Students will come to know about Legendre's and Hermite's equation.

Co 3 : Students will learn Laplace transforms.

Co 4 : Students will understand about Fourier transforms.

Paper : BM 243 Programming in C & Numerical Method

Co 1 : Concept of learning use of arrays, functions, structures and pointers etc.

Co 2 : Students learn about practical knowledge of programming in C to apply it to learn the solution of many problems.

Co 3 : Concept of solution of algebraic, linear system of equations and transcendental equation by different numerical methods.

Semester - V

Paper : BM 351 real Analysis

This course will enable the students to

Co 1 : Learn Riemann Integrable functions, its properties, and applications.

Co 2 : Recognize bounded, convergent, divergent, Cauchy, monotonic sequences.

Co 3 : Calculate Limit superior, limit inferior and limit of bounded functions.

Co 4 : Apply test for convergence and absolute convergence at an infinite series of real number.

Co 5 : Understand many properties of the real line and learn to define sequence in term of function \mathbb{R} to subset \mathbb{R} .

Paper : BM 352 Groups and Rings.

Co 1 : Student will learn the concept of Groups, subgroups, left and right cosets, Index of a subgroup.

Co 2 : Students will study Homomorphism Isomorphism, automorphisms and inner automorphisms of a group.

Co 3 : Students will learn the concept of Rings, sub rings, integral Colman and fields.

Co 4 : It will be helpful to understand the concepts of prime ideal, principal ideal and Maiximal ideal.

Co 5 : Students will learn about the concept of Euclidean rings polynomial ring.

Paper : BM 353 Numerical Analysis

Co 1 : Students will learn finite difference operators, Interpolation with equal and unequal intervals.

Co 2 : Students will come to know about central difference interpolation formulae and probability distributions.

Co 3 : Students will acquire knowledge about Numerical differentiation and Eigen value problems.

Co 4 : Students will also understand about numerical integration and numerical solution of ordinary differential equation using initial and boundary conditions.

Semester - VI

Paper : BM 361 Real and Complex Analysis.

Co 1 : Students will understand Jacobians Beta, Gamma functions, double and triple Integral.

Co 2 : Students will learn about Fourier series.

Co 3 : Students will acquire knowledge about the concept of complex functions, Cauchy-Riemann equations, harmonic function.

Co 4 : Students will also learn about mobius transformation and critical mapping.

Paper : BM 362 Linear Algebra

This course will enables the students to

Co 1 : Concept of vector spaces, subspaces, bases, dimension & their properties.

Co 2 : Compute eigen value, eigen vectors.

Co 3 : Learning about inner product spaces and their orthogonality.

Co 4 : Importance of adjoint of Linear transformation & its canonical form.

Paper : BM 363 Dynamics

Co 1 : Student will learn very important concepts Newton's law of motion, work, Power and Energy.

Co 2 : Students will be able to draw free body diagram for a particles or for a rigid body in plane motion.

Co 3 : Students will learn to analyse the general motion of a rigid body on smooth and rough planes.

Co 4 : Students will learn Kepler's law of planetary motion and will be able to solve various problems of applied physics and mechanical engineering.

Co 5 : Students will study Relative velocity and acceleration.

Co 6 : It will be helpful to understand simple Harmonic Motion and Elastic strings.

Program outcomes for B.Sc (Non Medical)

PSO1: By studying science subjects, you get to know the reasons for the things happening around you. As we come to know that why do we keep the fridge at home against the wall. If the fridge was so hot from outside, how would things get so cold from inside.

PSO2: After taking a science subject, your reasoning power also increases to a great extent, you are always curious to do something new, to know about it.

PSO3: The concepts of science are so difficult that you become so sharp minded while reading them that your thinking power also increases.

PSO4: If you study from non-medical, then you can go ahead and study in IIT too, I don't think there is any need to tell us about IIT, IIT is the world's largest educational institute. And later you can also be a symbol of pride for your country.

PSO5: After taking science, you can become an engineer, professor, broadcaster, media in-charge, medical lab technician. You can become a researcher, you can become CEO of any company by doing MBA. You can become IAS, IPS and IFS.

POOL OF AEC,VAC SEC,MDC

VALUE ADDED COURSE (VAC)

Name of the Course - Human Values and Ethics

Semester- 1

Course Code -B- VAC 101

Course Type: VAC

Course Learning Outcomes (CLO):

After completing this course, the learner will be able to know/understand:

- 301.1. The Need, Content and Process for Value Education.
- 301.2. The Human Values and Ethics
- 301.3. The theories of Integrated Personality and Well-being
- 301.4. The Professional Ethics and Global Citizenship

Semester -2

Name of the Course -Ethics and Culture

Course Code- B- VAC 203

Course Type – VAC

Course Learning Outcomes (CLO):

After completing this course, the learner will be able to know/understand:

- 301.1. The ethical values from Indian Cultural Heritage.
- 301.2. The Values and Life Skills.
- 301.3. The Ethical Dilemmas and Various Ethical Dimensions.
- 301.4. The Effective Communication in Everyday Life.

Name of the Course - Environmental Studies

Semester – 1 and 2

Course Code - B23-VAC-201

Course Type: VAC

Course Learning Outcomes (CLO): After completing this course, the learner will be able to:

- 1. Understand the concept of environmental studies, sustainable development and ecosystem.
- 2. Learn about the various natural resources and about biodiversity and its conservation.
- 3. Know about the types of pollution, solid waste management, global environmental issues and environmental laws.
- 4. Understand the concept of population growth and its impacts on environment and disaster management

Skill Enhancement Courses (SEC)

Subject -COMPUTER SCIENCE

Semester I

Name of the- Course Basic IT Tools

Course Code- B23-SEC-103

Course Type- SEC

Course Learning Outcomes (CLO):

After completing this course, the learner will be able to:

1. Identify the basic components of computers and terminology
2. Acquaint with Operating System and its applications for both desktop and mobile devices
3. Understand computer networks, and browse the internet, content search, email and collaborate with peers
4. Use e-Governance applications; and use computer to improve existing skills and learn new skills
5. to implement various spreadsheet tools practically.

Semester -2

Name of the Course - Cloud Computing Skills

Course Code - B23-SEC-201

Course Type – SEC

Course Learning Outcomes (CLO): After completing this course, the learner will be able to:

1. Get acquainted with the term Cloud computing.
2. Understand various types of free and commercial clouds.
3. Understands various types of cloud services like SaaS, PaaS and IaaS.
4. Know how the Cloud Computing is changing software industry

Ability Enhancement Courses (AEC)

ENGLISH

Semester-I

Nomenclature of the Course: English Language and Communication Skills: Level 1

Course Code: B23-AEC-111

Course Type: AEC-1

Course Learning Outcomes:

After the successful completion of the course the student will be able to:

- E101.1. The students will learn various types of verbal and non-verbal communication.
- E101.2. They will understand the importance of interpersonal communication on workplaces and different ways of behavior and communication.
- E101.3. They will comprehend the importance of listening skills and its types.
- E101.4. They will be introduced to parts of speech and their role in language learning.

Semester-II

Nomenclature of the Course: English Language and Communication Skills: Level 2

Course Code: B23-AEC-211

Course Type: AEC-2

Course Learning Outcomes

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

E201.1. The students will be introduced to the phonetics and syllables in English.

E201.2. They will learn various components of speaking skills and their use in communication.

E201.3. They will learn the practical use of punctuation and capitalization.

E201.4. They will have the comprehensive knowledge of tenses.

HINDI

Nomenclature of the Course: हिंदी भाषा और व्याकरण

Course Code: B23-AEC-HIN-121

Course Type: AEC

SEMESTER -1

B23-AEC-HIN-121-1. The students will learn various aspects of Language.

B23-AEC-HIN-121-401-2. They will understand the importance of Grammar.

B23-AEC-HIN-121-3. They will comprehend the importance of language skills and its types.

B23-AEC-HIN-121-4. They will be introduced to parts of speech and their role in language Learning

SEMESTER -2

Nomenclature of the Course: हिंदी भाषा और सम्प्रेषण :मौखिकसम्प्रेषण

Course Code: B23-AEC-HIN-221

Course Type: AEC

Course Learning Outcomes

B23-AEC- HIN-221-1. The students will be introduced to the communication in Hindi language.

B23-AEC- HIN-221-2. They will learn various aspects of speaking skills and their use in communication.

B23-AEC- HIN-221-3. They will learn the practical use of punctuation and capitalization.

B23-AEC- HIN-221-4. They will have the comprehensive knowledge of communication

SANSKRIT
SEMESTER-I

Name of the Course Ability Enhancement Course
Course Code B23-AEC-131, संस्कृत भाषा एवं सम्प्रेषण.1

Course Learning Outcomes (CLO):

After completing this course, the learner will be able to:

CLO : 105.1 - इस घटक के द्वारा प्रत्याहार सूत्रों एवं वर्णों के उच्चारण स्थान का ज्ञान कराया जाएगा ।

CLO : 105.2 . इस घटक के द्वारा संस्कृत भाषा में प्रयुक्त पुल्लिंग, स्त्रीलिंग, नपुंसकलिंग तथा सर्वनाम शब्दरूपों का अवबोध कराया जाएगा ।

CLO : 105.3 - इस घटक के द्वारा वर्तमान, भूत, भविष्यत् काल में प्रयुक्त होने वाले लट्, लङ् और लृट् लकारों की मुख्य क्रियाओं का ज्ञान कराया जाएगा ।

CLO : 105.4 - संस्कृत टिप्पणी लेखन द्वारा संस्कृत लेखन कौशल का विकास करना इस घटक का उद्देश्य है ।

SEMESTER-II

Name of the Course : Ability Enhancement Course

Course Code : B23-AEC-132 संस्कृत भाषा एवं सम्प्रेषण.

Course Type : AEC-2(CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VA

Course Learning Outcomes (CLO):

After completing this course, the learner will be able to:

CLO : 205.1 - कारक एवं विभक्ति संस्कृत भाषा के आधारभूत तत्त्व हैं, जिनका प्रारम्भिक ज्ञान इस घटक के माध्यम से कराया जाएगा ।

CLO : 205.2 - इस घटक के द्वारा ईशोपनिषद् के प्रारम्भिक 10 मन्त्रों का अवबोध कराया जाएगा ।

CLO : 205.3 - संस्कृत मन्त्रों एवं श्लोकों का सरलार्थ करना एवं लेखन करना सिखाना इस घटक का उद्देश्य है ।

CLO : 205.4 - इस घटक के माध्यम से सरल संस्कृत वाक्यों द्वारा स्वपरिचय देने में छात्रों को समर्थ बनाया जाएगा ।

MDC Subjects:

Political Science

Semester- I

Name of the Course- Indian Polity - I

Course Code- B23-POL-104

Course type- MDC

Course Learning Outcomes (CLO) :After completing this course, the learner will be able to:

1. Comprehend the salient features of the Indian Constitution and develop an understanding of Fundamental Rights and duties.
2. Develop an understanding of the powers, position and functions of the Union Executive
3. Comprehend the functioning of the Union legislature.
4. Comprehend the functioning of the Indian judicial system.

Semester – 2

Name of the Course - Indian Polity-II

Course Code - B23-POL-203

Course Learning Outcomes (CLO): After completing this course, the learner will be able to:

1. Understand the powers, position and functions of the State Executive.
2. Develop an understanding of the powers, position and function of the State legislature
3. Comprehend the functioning of the Indian Judicial system.
4. Comprehend the functioning of local self-government

ECONOMICS

Semester- I

Name of the Course- Basics of Economics

Course Code - B23-ECO-104

Course type – MDC

Course Learning Outcomes (CLO):

After completing this course, the learner will be able to:

- 1 Have knowledge about basic concepts of Economics.
2. Have Knowledge of basic concepts of Micro Economics: nature and scope of Micro Economics and understanding the key components of Micro Economics for developing economic theories.
3. Have Knowledge of basic concepts of Macro Economics, understanding the various concepts of National Income and developing the ability to construct some basic Macroeconomic Model for analysis of Economic Theories.

4. Have Understanding the basis for trade between two economies, Measure the benefits accrued from International Trade and knowledge of different measures of Economic Development.

Semester- 2:

Name of the Course- INDIAN ECONOMIC ENVIRONMENT

Course Code - B23-ECO-204

Course Learning Outcomes (CLO)

1. To understand and analyze the nature of growth & development of India Economy.
2. Understanding and evolution of Agriculture sector in India.
3. Understanding and evolution of Industrial sector in India.
4. Utilize the detailed skills and techniques to address the problems of Indian economy like poverty, inequality, unemployment

COMMERCE:

Semester I

Name of the Course -Personal Finance

Course Code- B23-COM-105

Course Type – MDC1

Course Learning Outcomes (CLO)

After completing this course, the learner will be able to:

1. Understand the basics of personal finance and personal financial planning.
2. Gain the knowledge of investment and different investment avenues available for managing finance.
3. Understand the relationship between investment risk and return and the role of regulatory environment in managing personal finance.
4. Do insurance planning, tax and estate planning and retirement planning.

Semester – 2

Name of the Course- Fundamentals of Banking and Insurance

Course Code- B23-COM-205

Course Learning Outcomes (CLO)

After completing this course, the learner will be able to:

1. Know the basics of banking.
2. Understand the banking instruments.
3. Understand the basics of insurance.
4. Learn about various types of insurance.

COURSE OUTCOMES

Name of Programme- M.A. (English)

Semester- I

Paper: MENG 101 Literature in English:1550-1660 (Part- I)

Course Description: The paper envisages to acquaint the students with the literary historical movement i.e. Renaissance, Jacobean, Puritanism, Rise and fall of drama and development of English Literature during the period.

CO1: The students will come to know about the major literary figures/movements of the above-mentioned period.

CO2: They will also learn how the literature of the period paved the way for upcoming writers.

CO3: The students will also learn about the different genres of literatures such as tragedy, comedy, romantic-comedy, melodrama, problematic drama and poetic forms will also be familiarized with.

Paper: MENG 102 Literature in English: 1660-1798 (Part- I)

CO1: The writers included in the semester are William Congreve, R. B. Sheridan, John Dryden and Alexander Pope.

CO2: The prescribed books written by above writers are 'The way to the world', 'The school for Scandal Absalom and Achitophel' and 'The Rape of the Lock'.

CO3: By reading these books students get the idea of Restoration age. They come to know about the living standard of aristocratic of the age.

Paper: MENG 103 Literature in English: 1798-1914 (Part- I)

CO1: This paper represents the Victorian age. Students learn about the romantic Poet William Wordsworth's Philosophy and his love for nature.

CO2: John Keat's poems fill the students with the spirit of imagination in life

CO3: By regarding George Eliot's 'The mill on the floss' and Charles Dickens' 'oliver Twist', students learn that Literature is the reflection of life.

Paper: MENG 104 Literature in English: 1914-2000 (Part- I)

CO1: Students will able to understand the Era of literature in English.

CO2: In this paper they understand the circumstances of pre and post war i.e. in post modernism Literature (1914-2000).

CO3: Students come to know the writings of writer's like- T. S. Eliot, Philip Larkin, E. M. Forster and Lucky Jim Etc.

CO4: It gives a better understanding of the world which is not experienced by the students.

CO5: Beyond the simple entertainment of a good story in Literature, students gain compassion for a wide range of people across cultures and time periods.

Paper: MENG 105(I) Study of a Genre Fiction (Part-I) (Option- i)

CO1: The fifth paper in M.A. English Previous has three options: (1) Poetry (2) Drama (3) Fiction. Students opted fiction.

CO2: In fiction there are stories which inspire the students how to deal with the difficult situations in life.

CO3: Virginia Woolf's 'To the Lighthouse' gives the idea of fixed direction. E.M. Forster's 'Aspects of the Novel' suggest the students about the different parts of the novel such as Rhythm, Flat and Round Characters etc.

CO4: Students get the knowledge of Literacy devices of the English Language.

CO5: In the second semester Jane Austen and James Joyce are the important writers in the prescribed syllabus. By reading the books of these writers' students are able to know about different aspects of life and literature.

Semester- II Paper: MENG 201 Literature in English: 1550-1660 (Part II)

Course Description- The paper envisages to acquaint the students with the literary historical movement i.e. Renaissance, Jacobean, Puritanism, Rise and fall of drama.

CO1: In this course students will come to know about the major literary figures i.e. John Milton, Shakespeare etc.

CO2: They will also learn the major movements of the period.

CO3: They will also learn how the classical Literature paved the way the upcoming writers.

CO4: Students will also learn about the different genres of Literature such as tragedy, comedy, melodrama, Moral plays etc.

Paper: MENG 202 Literature in English: 1660-17

CO1: In the second semester the prescribed writers are Robinson Crusoe, Joseph Andrew, Josep Addison and Richard Steele and Samuel Johnson.

CO 2: Students compare the manners of the age with the manners of Indian culture. They conclude that one should adopt fait means not foul means to be successful in life.

CO 3: By reading the above Writer's books, students get the knowledge about Realism and Symbolism in Literature.

Paper: MENG 203 Literature in English: 1798-1914 (Part II)

CO1: In the second semester the poems of Robert Browning fill the students with optimistic attitude. Thomas Hardy, Bernard Shaw and Gustav Flaubert are the important Writers prescribed in the syllabus.

CO2: The novel of the above writers is very useful in life and Literature.

CO3: This paper represents the Victorian Age.

Paper: MENG 204 Literature in English: 1914-2000 (Part II)

CO1: This course gives a better understanding of writers in the era of 1914-2000. CO2: R. K. Narayan's 'The Guide' is most interesting novel about Indian culture village.

CO3: The poetry of Nissin Ezekiel presents an Indian aspect to the students.

CO4: Indianness, Patriotism is presented in very colloquial language.

CO5: By 'Death of a Salesman', 'The Outsider' compassionate story, they can understand post modernism Literature. Paper:

MENG 205 Study of a Genre Fiction (Part II) (Option-i)

CO1: In fiction there are stories. So, students inspired and dials with life situations.

CO2: Students know the difference between Rhythm and Character etc.

CO3: Fames Joyce and Jane Austen are writers who play great role in fiction.

CO4: By reading the books in this paper, students can understand psychological and different concept of life.

Semester- III Paper:

MENG 301 Critical Theory (Part- I)

CO1: Students are able to develop the skills of criticism, means to judge someone by his qualities as well as weakness.

CO 2: Engage students activate high order thinking skill such as logical reasoning, evolution.

CO3: This paper develops the student's ability to express an opinion, arguments and sum up the ideas.

CO4: Students are able to understand the rules to criticism of poetry, prose and other forms of Literature.

CO5: Students enjoyed a lot to the theory of Rosa And Bhava in 'Natyashastra' through actions and gestures.

Paper: MENG 302 American Literature (Part- I)

Course Description: A survey of American Literature from period of exploration and settlement to the present. Students will study works of prose, poetry, drama and fiction in relation to their historical and culture contexts.

CO1: Critical Thinking- This course develops critical thinking, creative thinking, innovation, inquiry and analysis, evaluation and syntheses of information.

CO2: Communication-To include the effective development, interpretation and expression of ideas through written and visual communication.

CO3: Social Responsibility: This course develops intercultural competence, knowledge of Civic responsibility, and the ability to engage effectively in regional, national and global communities. CO4:

Personal Responsibility- This course develops the ability to connect choices, actions, and consequences to ethical decision-making.

Paper: MENG 303 Indian Writing in English (Part-I)

Course Description: This course introduces nineteenth century Reform Movements in India, The Indian National Movement; Rise of the Indian Novel; Caste- Class; The new Indian Woman. It also offers the details study of the themes and techniques of the Indian Novel in English.

CO1: Social, Political and Culture issues- It makes the students aware, political and critical issues reflected in Indian Writing in English.

CO2: It also aware the students about Indian social reformation, Freedom struggle, women education and empowerment in nineteenth century.

CO3: Language- Students would appreciate the artistic and innovative use of language employed by the writers to instill the values and develop human concern in students through exposure to literary texts.

Paper: MENG 304(II) Colonial & Post Colonial Literature (Part- I) (Option ii)

CO1: The Syllabus prescribed for this paper is colonial and Post Colonial studies.

CO2: In the third Semester the Topic describes The Empire writes Back by B.Ashcraft and culture and Imperials by Edward said.

CO3: Students learn about the Theory and Practice in Post colonial Literature by G.Griffiths and H.Tiffin.

Co 4: In this paper students will find out Rudyard kepling's Kim and Karambhumi by Premchand.

MENG 305(I) Literature and Gender (Part- I) (Option i)

CO1: This paper shows the contributions of women writers in English Literature.

CO2: In the previous era female writers had not the right to write in Literature but a few female writers raised the voice of Protest and began to write.

CO3: The prescribed book for this paper gives the idea that women are equal to men.

Semester- IV

Paper: XVI Critical Theory (Part- II)

CO1: In this paper students are able to study the essay of Virginia, Woolf, T.S. Eliot and I. A. Richards.

CO2: Wordsworth's 'Preface to Lyrical Ballad' is an introduction to the study of Lyrical Ballad.

CO3: Arnold's 'Essay in criticism' presents the critical views about study of poetry, John, Keats.

CO4: Saussure 'Object of study', Showalter 'Feminist criticism in Wilderness'. These essays built a new aspect in students about Literature.

CO5: Better understanding of Literature and critical aspect gives compassion to the student.

Paper: XVII American Literature (Part- II)

Course Description: A survey of American Literature from the period of exploration and settlement of the present. Students will study works of prose, poetry, drama and fiction in relation to the historical and cultural contexts.

CO1: This course develops critical thinking and creative thinking among the students.

CO2: This course develops the understanding of American Literature among the students.

CO3: This course develops the ability to connect choices, actions and consequences to ethical making.

CO4: This course develops intercultural competence, knowledge of civic responsibility and the ability to engage effectively in regional, national and global communities.

Paper: XVIII Indian Writing in English (Part- II) Course Description: This course introduces the Indian National Movement, Rise of the Indian novel and novelist, Caste-class and The New Indian Woman. It also offers the detail study of the themes and techniques of the Indian novel in English. CO1: It makes the students aware of social, political and culture issues reflected in Indian writing in English. CO2: Through this course students also aware about Indian Social reformation, freedom struggle, women education and empowerment in nineteenth century.

CO3: Students would appreciate the artistic and innovative use of language use by the writers.

CO4: This course also teaches students the feelings of Indian woman and Indian tradition through Jayanta Mahapatra and Kamala poetry.

Paper: XIX(II) Colonial & Post colonial studies.

CO1: The syllabus prescribed for this paper is colonial and post colonial studies.

CO2: Students learn about Doris Lessing's *The Grass is Singing* and Salman Rushdie's *Midnight's Children*.

CO3: Students get the knowledge about Chinua Achebe's *Things Fall Apart*.

CO4: Students read the *Great Indian Novel* by Shashi Tharoor.

Paper: XX(I) Literature and Gender (Part- II) (Option i)

CO1: Feminism is the main concept and topic in the paper.

CO2: Female writers raised the voice of women on behalf of women all over the world.

CO3: Students are able to understand the position of women in all over world in past or present.

CO4: So, reading of this paper and understanding of concept make students aware.

Programme Outcomes (POs) for M.A. (English)

PO1: The students acquire knowledge in the field of Literature and Language.

PO2: The students are able to know the tendencies and traditions of different ages of English Literature.

PO3: The M.A. Programme enhances the confidence of the students through carefully chosen the option prescribes in the syllabus.

PO4: The M.A. Programme enables the students the students to acquire the knowledge with human values.

PO5: The students prepare themselves according to the bold characters given in the novels and plays.

PO6: The students are given exposure to think of the solutions of various issues in life.

PO7: The M.A. Programme empowers the students to appear for various competitive examinations.

PO8: The M.A. Programme enhances the knowledge of the students about history of English Literature.

Programme Specific Outcomes (PSOs) for M.A. (English)

PSO1: The postgraduates will be acquainted with the philosophical and Psychological thinking. PSO2: The programme will enable the students to think and act over for the solution of various problems prevailed in the human life.

PSO3: The programme will impart the practical knowledge of Literature and languages.

PSO4: The programme will empower the students to acquire in-depth knowledge of effective presentation.

PSO5: The students will understand the concept of literary terms applied to the novels.

PSO6: The students will understand the rhythmic and tonic concepts of Poems.

PSO7: The programme will prepare the students to avail opportunities available in the literary field and also in the co-corporate field.

PSO8: English is an international language. So, its importance can be felt in every field of education and technical field.

COURSE OUTCOME
Name of Programme: M.COM

Semester 1

Paper Mc 101 organisational behaviour

CO1 To understand human behaviour perception in the organisation

CO2 Basic understanding of psychological attributes like personality wise behaviour of the clients

CO3 Understanding of behavioural manifestation also helps students to understand the transaction.

Paper :MC 102 Business environment

Co1: Student will be able to understand the business environment and its components

co2:Students will be able to apply the techniques available for scanning monitoring

CO3: Students will be able to ANALYSE the economic policies related with industrial development

Co4: Students will be able to demonstrate the knowledge of the trade practices provision of the competition act RTI and consumer protection act

Paper MC 103 MANAGERIAL ECONOMICS

CO 1 Develop awareness about legal documents of company and its formation procedure

CO2 Students are able with the knowledge about economic

CO3This helps students to understand price and output determination

CO4 This course also helps them in various trade cycles in economy

Paper MC 104 COMPANY LAW

CO1 Students will be able to describe the basic rules and concepts of company law such as limited liability of company directors

CO2 Develop awareness about legal documents of the company and procedures

CO3 To make students about the procedures of merger winding up of company

Co4 Develop an awareness of the socio legal and economic dimensions of company law

MC 105 Accounting For Managerial Decision

CO1 This course provide knowledge about the role of management and how the responsibilities are ascertained.

CO2 This teaches how reporting is done at various levels of management

CO3 This course teaches the way of formatting different types if budget and their uses.

CO4 This course will teach the students about the method of finding out variance between actual and standard so that they can remove with in time

MC 106 MARKETING MANAGEMENT

CO1 The students will know the concept , scope and importance of marketing

CO2 The course will help in understanding the marketing mix and marketing environment.

CO3 To make aware the students about different types of consumer behaviour

CO4 It helps in acquiring the knowledge about different promotion programme

SEMESTER 2

MC 201 HUMAN RESOURCE MANAGEMENT

CO1 Students will get knowledge regarding various aspects of human resources

CO2 Through this course students will gain insight regarding various system of human resources

CO3 With the help of this course students will get to know about various components of HRM

CO4 After completion students can apply their acquired knowledge role playing in assignment

MC 202 INTERNATIONAL BUSINESS ENVIRONMENT

CO1 Students will be able explain how different environment factors encountered international market place.

CO2 Apply that trade theories foreign exchange theories .

CO3 Students will learn about various international financial institution and their work

CO4 It develop an understanding about foreign exchange determination

MC 203 STRATEGIC MARKETING

CO 1 This course will enable the student to understand about strategic marketing

CO2 Students will able explain to understand competitive analysis .

CO3 Students will able explain the marketing and strategic concept

CO4 It enhance the further knowledge of student about marketing strategy implication .

MC 204 FINANCIAL MANAGEMENT AND POLICY

CO1 This course teach to manage the finance to teach the way of calculate the financial need.

CO2 Student understands the techniques of financial planning and forecasting

CO3 It provides knowledge about capital budgeting decisions

CO4 It teaches the methods to calculate the cost of capital and working capitals

MC 205 CORPORATE ACCOUNTING

CO1 Understand the concept of amalgamation and reconstruction

CO2 .To develop knowledge of holding company accounts

CO3 The students to prepare the financial statement of a company

Co4 To understand the difficult issues related to issue and redemption of shares

MC 206 BUSINESS STATISTICS

CO1 It will help to interpret statistical tools to analysis various aspects of business units .

CO2 It through this course students will understand the concept of correlation and regression of two or more variance

CO3 Students will get knowledge about how to use statistical of daily business problems like index numbers and time series .

CO4 It will help in understanding the concept of probability theoretical and practical.

MC 301 COMPUTER APPLICATIONS IN BUSINESS

CO1 Students understand the concept of computer application in daily life

CO2 Students come to know how to use computer for their day to day life and business purpose.

CO3 Students learn to prepare how to use MS WORD, EXCEL, ACCESS AND POWERPOINT .

CO4 Student can enhance their ability to understand and utilise computer apps for make their life easy

MC 303 ADVANCED FINANCIAL MANAGEMENT

CO1 Students will come to know about dividend decisions and models .

CO2 Students enables about capital structures concept and meaning

CO3 Capital restructure ,need and broad areas of corporate restructuring ,objectives.

CO4 They will be able to understand the merger and takeover of company policies.

MC 304 FINANCIAL INSTITUTION AND MARKETS

CO 1 Students come across the meaning and concept clarity of financial system and markets.

CO2 They have deep knowledge about money market and capital market

CO3 They will understand about merchant banking and how to use it

CO4 Student understand about mutual funds scheme

MC 309 ADVERTISEMENT MANAGEMENT

CO1 Students will understand about advertisement management

Co2 Student comes to knows about copy development and testing

CO3 They learn about media planning and media scheduling

CO4 Students will be come insights of organisation and control of advertising effects

MC 314 ENTREPRENEURIAL DEVELOPMENT

CO1 Students will comes to know about how to entrepreneurial activities as their profession

CO2 They will be able to understand entrepreneurship development programme

CO3 They know how to overcome stress

CO4 Students will understand how to prepare personal protection equipment for safety at work

MC 316 HUMAN RESOURCE DEVELOPMENT

CO1 They will be able to understand the concept of human resource development

CO2 Students have clear insights about knowledge management

CO3 Students learns about employee socialization and orientation

CO4 Organisation health and environment have a deep insights about business

SEMESTER 4

MC 401 IT AND E COMMERCE

CO1 Students will be able to understand the concept of IT and how to use it for business purpose

CO2 They have clear comparison insights about e commerce e auction RTGS ATM etc

CO3 Hey know how use online marketing and web based advertising

CO4 Cloud computing and how to use ERP system in a business

MC 402 CORPORATE TAX AND MANAGEMENT

CO1 Students know about the tax planning and assessment

CO2 They will be able to calculate the total income and tax finding on themselves

CO3 Students have clear insights about tax slabs and how to implement them accordingly

CO4 They have knowledge about special Tax provision like special tax zone ,economic zone backward areas

MC 403 PROJECT PLANNING AND CONTROL

CO1 They have knowledge about hoe to identify investment opportunities

CO2 They can do market and demand analysis like production technology , product mix

CO3 Students have do financial analysis like cost of capital ,financial projection etc

CO4 They can do performance appraisal and evaluation of project problem of time and cost overrun

MC 408 SALES MANAGEMENT

CO1 Students knows the concept of sales management and objectives functions

CO2 They have to know how to use sales planning and for -casting for their own

CO3 They can make territory and quota management ,need procedures

CO4 They can easily prepare control process analysis of sales

MC 409 SERVICE MARKETING

CO1 Students have clarity regarding service and its related concepts

CO2 They will know how to improve service quality and its benefit for the business

CO3 Students can do service development programmes at different levels

CO4 They have clear insights how to prepare price schedule for services and how to manage customers.

MC415 INTERNATIONAL HUMAN RESOURCE MANAGEMENT

CO1 Students have clear knowledge about nature meaning and trends

CO2 They can do comparative management like legal ethical cultural

CO3 Management styles and practices in JAPAN ,CHINA,KOREA,EUROPE

CO4 They have knowledge how to do motivation and perception of customer.

➤ PROGRAMME OUTCOME (PO) FOR M.COM

PO1 To acquaint the students with conventional as well as contemporary areas in commerce

PO2 To enable the student well versed in national as well as international trends

PO3 To provide in depth understanding of all core areas

PO4 To provide the student for conducting business accounting and auditing practices

PO5 To course a number of specialization and practical exposures global le

➤ SPECIFIC PROGRAMME OUTCOMES (PSO) FOR M.COM

After the completion of the M.com course ,a Student is asked

PSO1 For pursuing research in chosen areas

PSO2 For teaching in schools and colleges

PSO3 For working as data analyst

PSO4 To work as investment consultant

PSO5 To work as marketing manager ,sales manager.

Course outcome

Name of Programme-PGDCA

Paper-I: Computer Organisation and Networking Fundamentals

CO 1: To study basic concepts like hardware, software, storage device, number system and its conversion.

CO 2: To know Boolean functions and Combinational circuits like half adder, full adder, multiplexer, demultiplexer.

CO 3: To study various Flip Flop and registers which are used for storing data.

CO 4: To know basics of high speed networking technologies.

Paper-II, Problem Solving Through C

CO 1: To know programming fundamentals like to make algorithm and flow chart to solve problem.

CO 2: To study basic terminologies of C language like constant, variable, data type, operators used in C Language.

CO 3: To know conditional statements, Loops used in C Language, Arrays.

CO 4: To learn Strings, Pointers, Structure and Union, Functions used in C Language.

Paper-III, Data Structures

CO 1: To study basic concepts of data structure and algorithms and able to analyze algorithm correctness.

CO 2: To study basic concepts about Stack, Queue, Linked list

CO 3: Deep To knowledge about all the concept of Tree.

CO 4: Representations of graph and ability to summarize searching and sorting techniques.

Paper-IV, Data Base Management System

CO 1: To know various features and applications of DBMS.

CO 2: To learn how to design database using different data models

CO 3: To Acquire knowledge about database languages (DDL,DML,DCL) and To learn about normalization.

CO 4: To have practical knowledge of creating and maintaining database using MS Access.

Paper-V, Operating System

CO 1: To know various terminologies related to Operating System and CPU Scheduling.

CO 2: To learn Concept of memory management and deadlock.

CO 3: To know File management and storage structure and also protection mechanism

CO 4: To learn basic practical knowledge of Windows and Unix operating system.