Course Outcomes of English

At the end of Semester 1 and 2 students will be able to:

CO1: appreciate the writings of Indian and foreign story and prose writers and relate to them relate them to their sociocultural milieu

CO2: comprehend the meaning of texts and answer questions related to situations episodes, themes, and characters depicted in them

CO3: understand fundamental grammatical rules governing tenses, the use of modal verbs, voice, narration, word order, pronouns, determiners, relative clauses and make correct usage in their language

CO4: independently write paragraphs on any given topic, personal letters to friends and family

At the end of the semester 3 and 4 students will be able to:

CO1 develop an understanding of the poems, relate to the sociocultural background of England and be able to answer questions regarding tone, style, and central idea

CO2: to comprehend the basics of grammatical rules governing adjectives, adverbs, conjunctions, prepositions, and phrasal verbs

CO3: enhance their reading and analyzing power of texts through guided reading strategies and skills

CO4: enrich their vocabulary with definitions, academic word list and words in contexts exercises from Making Connections

At the end of Semester 5 and 6 students will be able to:

CO1: widen their knowledge about various literary devices used in poetry such as tone, style, imagery, figures of speech, symbolism etc.

CO2: analyze and appreciate the dramatic technique, plot development, and art of characterization in the play All My Sons by Arthur Miller

CO3: analyze and appreciate the fiction technique, plot development, and art of characterization in the novel The Guide by RK Narayan

CO4: comprehend, appreciate and critically analyze one-act plays

CO5: develop skills for report writing, formal letter writing, and resume writing

Course Outcomes of Elective English

At the end of semesters 1 and 2 the students will be able to:

CO1: understand various figures of speech and literary devices by studying the poems of prescribed poets

CO2: understand the basics of dramatic genre, social and women related issues with reference to the play A Doll's House by Henrik Ibsen

CO3: learn about the manners and affectations of upper-class English people of 18th century with reference to the play The School for Scandal by Richard Sheridan

CO4: know the basic traditions of Indian society and conflicts that are caused by caste system with reference to the novel The Untouchable by Mulk Raj Anand

CO5: understand various literary terms and their significance

CO6: recognize phonetic symbols of English and transcribe monosyllabic words

At the end of semester 3 and 4, students will be able to:

CO1: acquire an understanding of sustained allegory as well as the basic tenants of Marxism and kept in his am and social implications of these theories with reference to the novel Animal Farm by George Orwell

CO2: to understand various figures of speech and literary devices used in the poetry of the prescribed poets

CO3: have a glimpse of different cultures of the world by reading various stories from Commonwealth countries depicted in the stories from the text Dispelling Silence

CO4: acquire an understanding of various social issues on global level as portrayed in various essays prescribed from the text Modern Prose

CO5: awareness about social concepts and vocabulary enhancement by intensive reading of the articles from the book New Directions

Recognition of phonetic symbols of the English language and be able to transcribe disyllabic and polysyllabic words

At the end of the semester 5 and 6, students will be able to:

CO1: learn the basic features of comedy from Arms and the Man by G. B. Shaw

CO2: analyze and appreciate the fiction technique, plot development, and art of characterization in the novel A Raisin in the Sun by Lorraine Hansberry

CO3: understand Indian writer Khushwant Singh's novel technique, plot development, art of characterization, and presentation of partition of India with reference to his novel a Train to Pakistan

CO4: appreciate English writer Graham Greene's novel technique, characterization and presentation of social issues with reference to his novel The Power and the Glory

CO5: have comprehensive understanding of Background History of English Literature

Course Outcomes of Communication Skills in English

At the end of the semester 1 and 2 students will have:

CO1: reading skills that will facilitate them to become efficient readers

CO2: writing skills which will make them proficient enough to express ideas in clear and grammatically correct English

CO3: enhancement of listening skills with the help of listening exercises based on conversation, news and TV reports

CO4: speaking skills enabling them to take active part in group discussions and present their own ideas

CO5: ability to plan, organise and present ideas coherently on a given topic

Course Outcomes of Physics

- Understanding basic concepts: Students will understand the fundamentals of physics, such as classical mechanics, quantum mechanics, statistical mechanics, optics, and electromagnetism.
- Experimentation: Students will be able to conduct experiments in a variety of areas, including condensed matter physics, photonics, electronics, and plasma physics.
- Computational skills: Students will learn how to use computational tools and scientific software.
- Research and development: Students will develop the skills and expertise needed to work in research and development.
 - Develop effective communication skills.
 - Develop experimental skills and independent work culture through a series of experiments that compliment theories and projects.

Course Name: PAPER - I A: DIVERSITY OF

MICROBES

Class: B Sc. (Medical)Semester - I

Course Outcomes:

A) Knowledge and Understanding:
Understand the diversity among Algae, the systematic, morphology and structure, of
Algae, Fungi, Bacteria, Viruses and Lichens.
B) Intellectual Cognitive /Analytical skills:
Students will be able to identify the major
groups of organisms and be able to classify
them. Students will be able to compare and
contrast the characteristics of plants, algae,
and fungi that differentiate them from each

other and from other forms of life.

C) Practical skills: Gram staining of Bacteria, Microscopic observation and identification of algae, fungi, and lichens. Observation of crop plants infected by the pathogens included in the syllabus and study of

symptoms and causative agents.

D) Transferable skills: Students will be able to communicate orally as well as express in the written form the knowledge gained by them in the field of microbes diversity. Course Name: PAPER – I B:

DIVERSITY OF CRYPTOGAMS

Class: B Sc. (Medical)Semester - I

Course Outcomes:

e) Knowledge and Understanding: The range of cryptogamic diversity in terms of structure, function and environmental relationships and the evaluation of

cryptogam diversity.

f) Intellectual Cognitive /Analytical skills: Students will be able to identify the major groups of cryptogams and be able to classify them. Students will be able to compare and contrast the characteristics of bryophytes and pteridophytes that differentiate them from each other and from

other forms of life.

g) Practical skills: Students will be able to identify the lower plants and assign them to different categories of plants like bryophytes or pteridophytes based on the microscopic examination of plant parts and other

characters.

h) Transferable skills: Students will be able to communicate orally as well as express inthe written form the knowledge gained by them in the field of cryptogams diversity. Course Name: PAPER - II

A: CELL BIOLOGY

Class: B Sc. (Medical) Semester - II

Course Outcomes:

(e) Knowledge and Understanding: Students will gain knowledge about Cell Science and understand cell wall, plasma membrane, cell organelles. Students will understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material.

(f) Intellectual Cognitive /Analytical skills: Students will be able to explain how organisms function at the level of the gene, genome, cell, tissue, organ and

organ-system.

(g) Practical skills: Observation and analysis of electron micrographs of cell organelles, microscopic techniques to study the structural organization of cells, stomata, plastids etc.

(h) Transferable skills: Students will be able to work as an individual as well as in a team to work on different aspects of cell biology and will be able to communicate about these aspects. Course Name: PAPER - II B: GENETICS

Class: B Sc. (Medical)Semester - II

Course Outcomes:

(a) Knowledge and Understanding: Learn the scope and importance of molecular biology, understand the hereditary and

genetic principles.

(b) Intellectual Cognitive /Analytical skills: Students will be able to analyse the genetic principles of inheritance and understand the different hereditary patterns and their application in the field of improving the plant varieties.

(c) Practical skills: Training students to prepare micro preparation and showing the stages of mitosis (Onion root tips) and showing permanent slides/photographs of

mitosis and meiosis.

(d) Transferable skills: Convey the knowledge gained in the field of genetics to the scientific as well as non scientific audience and help people in making them aware about role of genetics in the improvement of plant varieties. Course Name: PAPER - III A - STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS - I.

Class: B Sc. (Medical)Semester - III

Course Outcomes:

e) Knowledge and Understanding: The students will get to know about the structural and anatomical variations in the shoot system and leaves of plants in reference to variation in growth habit.

f) Intellectual Cognitive /Analytical skills: Students will be able to differentiate the monocots and dicots on the basis of morphological and anatomical characters of plants and further evaluate the adaptive characters of plants growing in different conditions.

g) Practical skills: preparation of temporary and stained mounts of the anatomical sections of the stem and leaves and identify various types of plants based on anatomical characters.

h) Transferable skills: Students will be able to communicate orally as well as express in the written form the knowledge gained by them in the field of structural organization in plants. Course Name: Paper – III B: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS – II Class: B Sc. (Medical)Semester - III

Course Outcomes:

(a) Knowledge and Understanding: Students will come to know about historical development of embryology, understand structure and development of microsporangium, megasporangium, embryo and endosperm, know the methods

of pollination and fertilization.

(b) Intellectual Cognitive /Analytical skills: Students will be able to understand the applications of embryology in plant tissue culture and realize the applications of

palynology in human welfare.

(c) Practical skills: Microscopic examination of the embryological preparations to understand anther structure, embryo sacs, different types of ovules, placentation types etc.

(d) Transferable skills: Students will be able to work as an individual as well as in a team to work on different aspects of plant anatomy and embryology and will be able to communicate about these aspects. Course Name: Paper – IV A: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS –

Class: B Sc. (Medical)Semester - IV

Course Outcomes:

(a) Knowledge and Understanding: the students will get the knowledge about the morphological anatomical and developmental aspects of the gymnosperms like Cycas, Pinus, Ephedra and Ginkgo.
(b) Intellectual Cognitive /Analytical skills: Students will be able to analyze the morphological and developmental differences of the seed bearing and non seed bearing plants as well as be able to differentiate the gymnosperms from angiosperms on the basis of their structural and anatomical variations.

(c) Practical skills: section cutting and microscopic examination of the roots, stem, leaves etc of Cycas, Pinus, Ephedra and Ginkgo. The evolution of reproductive parts from sporophylls in cycas to cones in Pinus evolving to primitive flowers in Ephedra.
(d) Transferable skills: Convey and express the knowledge gained in the field of Gymnosperm diversity and evolutionary role for the development of angiosperms. Course Name: Paper – IV B: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS – II Class: B Sc. (Medical)Semester – IV

Course Outcomes:

(a) Knowledge and Understanding: Students will learn about the characters of biologically important families of angiosperms, know the floral variations in angiospermic families, their phylogeny and evolution, understand various rules, taxonomy and understand major evolutionary trends in various parts of

angiospermic plants

(b) Intellectual Cognitive /Analytical skills:
Critically evaluation of ideas through relevant in formation about the plants in order to identify and classify plants and use taxonomical information to evaluate and formulate a position of plant in taxonomy.
(c) Practical skills: study the morphological variations in flowers of different angiospermic families and microscopic examination of the ovary sections of the flowers.

(d) Transferable skills: Students will be able to communicate orally as well as express inthe written form the knowledge gained by them in the field of angiosperm taxonomy. Course Name: PAPER – V

A: PLANT PHYSIOLOGY

Class: B Sc. (Medical)Semester - V

Course Outcomes:

(a) Knowledge and Understanding: Students will know about movement in plants, understand the process of translocation of solutes in plants, photosynthesis, growth and development in plants.

(b) Intellectual Cognitive /Analytical skills: Students will be able to analyze the physiological status of the plants by observing the physical state of plants growing in different conditions and thus apply the knowledge for improving the plant growth through environmental

manipulations.

(c) Practical skills: apply appropriate
techniques, resources, and modern
instruments and equipments for cellular and
physiological activities of plants
(d) Transferable skills: students will be able
to interact with different sections of society
and contribute towards the improved
vegetational profile through nutrient and
other environmental manipulations to
improve the physiological status of the
plants.

Course Name: PAPER - V

B: BIOCHEMISTRY AND BIOTECHNOLOGY

Class: B Sc. (Medical)Semester - V

Course Outcomes:

(a) Knowledge and Understanding: Students will know the chemical nature of biomolecules and understand the different types of interaction in Biomolecules understand plant structures in the context of physiological functions of plants. (b) Intellectual Cognitive /Analytical skills: Realize the application and importance of plant tissue culture and transgenic plants. (c) Practical skills: apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants.

(d) Transferable skills: students will be able to interact and communicate with different sections of society and contribute towards the improvement of plants through modern technologies like plant tissue culture and transgenics. Course Name: Paper-VI.

A: ECOLOGY

Class: B Sc. (Medical)Semester - VI

Course Outcomes:

(a) Knowledge and Understanding: Students will get the knowledge of the interaction of living organisms with biotic and abiotic aspects of their environment. Population, community and ecosystem ecology are examined along with a consideration of topics in evolutionary ecology like life history

theory, and social behaviour.

(b) Intellectual Cognitive /Analytical skills: The students will be able to analyze the aspects related to conservation of biological diversity and the impact of human activities

on natural systems.

(c) Practical skills: Sampling techniques used in ecological studies like use of quadrates,point frames etc. and techniques involved in soil testing, leaf area injury as a

parameter of pollution levels etc.

(d) Transferable skills: Students will be able to describe the principles of field sampling and conduct field research using a variety of sampling techniques, interpret field results, perform simple statistics and write reports, research an ecological topic and communicate the results in a written report, oral presentation and/or poster. Course Name: Paper-VI

B: ECONOMIC BOTANY

Class: B Sc. (Medical)Semester - VI

Course Outcomes:

(a) Knowledge and Understanding: Students will gain an understanding of plants as a source of food, beverages, herbs and spices, fibres and medicine. Detailed information regarding the timber yielding, firewood plants, bamboos and rubber

cultivation and processing.

(b) Intellectual Cognitive /Analytical skills: Students will be skilled to identify and describe the impact of economic botany on

the environment and society.

(c) Practical skills: Students will become proficient in utilizing the modern techniques involved in the metabolite and microchemical studies of the plants and

plant products.

(d) Transferable skills: Economic Botany will provide knowledge base information necessary for communication of information concerning basic plant structure and function, the role of plants in society, and plants of the region.

Punjabi

ਅੰਡਰ ਗ੍ਰੈਜੂਏਟ ਕਲਾਸਾਂ ਲਈ ਮੁਢਲੀ ਪੰਜਾਬੀ

Basic Punjabi for UG Classes

Sr. No.	PROGRAMME OBJECTIVES
1.	ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਸਮਝ ਵਿਕਸਤ ਕਰਨਾ ਅਤੇ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਪੜ੍ਹਨਾ-ਲਿਖਣਾ ਸਿਖਾਉਣਾ।
2.	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਵਿਆਕਰਨਕ ਬਾਰੀਕੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।
3.	ਅਖਾਣ-ਮੁਹਾਵਰਿਆਂ ਤੇ ਪ੍ਰਤੀ-ਕੋਡਨ ਰਾਹੀਂ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਕਰਨਾ।
4.	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਗੁਰਮੁਖੀ ਆਰਥੋਗ੍ਰਾਫੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।
5.	ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਸ਼ਬਦ ਭੰਡਾਰ ਵਿਚ ਵਾਧਾ ਕਰਨਾ।

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Programme Objective & Outcomes of Compulsory Punjabi for UG

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Sr. No.	PROGRAMME OBJECTIVES
1.	ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਸਾਹਿਤਕ ਅਤੇ ਆਲੋਚਨਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ।
2.	ਪੰਜਾਬੀ ਭਾਸ਼ਾ, ਸਾਹਿਤ ਅਤੇ ਸਭਿਆਚਾਰ ਪ੍ਰਤੀ ਚੇਤਨਤਾ ਪੈਦਾ ਕਰਨਾ।
3.	ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਸਿਰਜਨਾਤਮਕ ਹੁਨਰ ਪੈਦਾ ਕਰਨਾ।
4.	ਵਿਦਿਆਰਥੀ ਨੂੰ ਦਫ਼ਤਰੀ ਤੇ ਨਿਜੀ ਮਾਮਲਿਆਂ ਨੂੰ ਸੰਬੋਧਨ ਕਰਨਯੋਗ ਬਣਾਉਣਾ।
5.	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਦੀ ਸ਼ਖ਼ਸੀਅਤ ਨੂੰ ਉਸਾਰਣਾ।

ਅੰਡਰ ਗ੍ਰੈਜੂਏਟ ਕਲਾਸਾਂ ਲਈ ਚੋਣਵੀਂ ਪੰਜਾਬੀ: ਪ੍ਰੋਗਰਾਮ ਦੇ ਉਦੇਸ਼ ਤੇ ਨਤੀਜੇ

Programme Objective & Outcomes of Elective Punjabi for UG Classes

Sr. No.	PROGRAMME OBJECTIVES
1.	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਨਿਕਾਸ-ਵਿਕਾਸ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।
2.	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਦੇ ਭਿੰਨ-ਭਿੰਨ ਰੂਪਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।
3.	ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਾਹਿਤਕ ਰੁਚੀਆਂ ਪੈਦਾ ਕਰਨਾ ਅਤੇ ਸਾਹਿਤ ਸਿਰਜਣਾ ਦੀਆਂ ਸੰਭਾਵਨਾਵਾਂ ਪੈਦਾ ਕਰਨਾ।
4.	ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਵਿਸ਼ਲੇਸ਼ਣ ਦੇ ਕਾਬਲ ਬਣਾਉਣਾ।
5.	ਵਿਦਿਆਰਥੀ ਨੂੰ ਗੁਰਮੁਖੀ ਲਿਪੀ ਅਤੇ ਮਾਤ ਭਾਸ਼ਾ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ ।

Computer Outcomes

- Efficiently use Office Automation Tools like word processors, spreadsheets and presentation tools.
- Develop simple programming constructs in a Programming Language (eg. C,C++,Python)
- Use multimedia authoring tools to design small applications using sound, audio, and video/animation.
- Develop simple websites using HTML/DHTML, CSS and JavaScript programming codes.
- Graduate with a portfolio of work fit to present to potential employers. Depending on the chosen pathway, you can focus on particular areas of interest such as machine learning, web development, data science and video games.
- ▶ Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- Develop programming skills, networking skills; learn applications, packages, programming languages and modern techniques of IT.

SEMESTER I

MATHEMATICS

ALGEBRA

COURSE OUTCOMES:

C.O 1 Students will be able to solve problems based on matrices, where they will learn how to find the rank of the matrices. Students will recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix.

C.O 2 In this unit students will be able to find eigenvalues and corresponding eigenvectors for a square matrix

C.O 3 The student will able to comprehend the concept of quadratic form in form of matrix.

C.O 4 The last unit of the syllabus will help the student to solve problems based on third and fourth degree polynomial.

SEMESTER II

MATHEMATICS

CALCULUS

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1 comprehend the concept of lub, glb, properties of Real numbers, limit, continuity, differentiation, concavity and convexity and point of inflexion

C.O 2. Find derivatives of hyperbolic functions and inverse hyperbolic functions, derivatives of nth order by Leibnitz theorem, Taylor's expansions of sinx, cosx, logx etc., and limits by L' Hospital Rule

C.O 3 find Asymptotes and primitive nth root of unity

C.O 4. Solve integration of hyperbolic function, some standard integrals by reductions formulae.

SEMESTER III MATHEMATICS

ANALYSIS

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: Study the behavior (convergence or divergence or oscillation) of sequence, monotone and bounded sequence, Cauchy's criterion and Theorems on limits of sequences

C.O 2: Study the behavior (convergence or divergence or oscillation) of series by different tests

C.O 3: To understand the concepts of lower and upper Integral, Riemann integral, condition of existence Riemann integral .Algebra of integral function.

C.O 4: To understand the concept of Improper Integrals, Comparison test for convergence of improper integrals, Abel' s Test and Dirichlet test, Beta and Gamma functions

SEMESTER III MATHEMATICS

ANALYTICAL GEOMETRY

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: comprehend the concepts of change of origin, rotation of axes in two and three dimensions. And Invariants, joint equation of pair of straight lines, equation of bisector.C.O 2: Know about the properties of Parabola

C.O 3: Understand the properties of ellipse, hyperbola

C.O 4: Solve problems based intersection of three planes, sphere

SEMESTER IV

MATHEMATICS

STATICS AND VECTOR CALCULUS

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: Comprehend concept of the resolution and composition of a number of forces, parallel forces and couples, moments of forces and couples about a point and system of forces in equilibrium

C.O 2: Generalize the theory behind the friction and Centre of gravity.

C.O 3: Understand the differentiation and integration of vector functions and apply these in a plane and space

C.O 4: Solve problems based on Gauss, Green and Stokes theorems

SEMESTER IV

MATHEMATICS

SOLID GEOMETRY

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: Understand the concepts and properties of cylinder, right circular cylinder

C.O 2: Understand the concepts and properties of cone, right circular cone.

C.O 3: Understand the basic geometric views of shape, size, length, angle, rotation, translation, location etc. associated with figure ellipsoid, hyperboloid, paraboloid.

C.O 4: Comprehend the concepts of surface represented by general equation of second degree, tangent lines, tangent plane, and normal plane.

SEMESTER V

MATHEMATICS

DYNAMICS

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: Comprehend concept of rectilinear motion with constant accelerations and Newton Law's of motion.

C.O 2: Solve problems based on motion along inclined plane and SHM.

C.O 3: Understand the concept of projectile motion and oscillation.

C.O 4: Learn the concept of Work Power and Energy.

SEMESTER V

MATHEMATICS

Number Theory

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: Find solutions of specified linear Diophantine equation and they will learn about some fascinating discoveries related to the properties of prime numbers, and some of the open problems in number theory, viz., Goldbach conjecture.

C.O 2: Understand application of Number-theoretic function

C.O 3: Solve linear congruence and system of linear congruence.

C.O 4: Apply the Fermat's, Wilson's and Euler's theorem to solve numerical problems.

SEMESTER VI

MATHEMATICS

LINEAR ALGEBRA

COURSE OUTCOMES: After passing this course, the students will be able to:

C.O 1: Understand the concepts such as binary operation, groups, rings and fields, vector space and subspace of a vector space, linear dependence and linear independence, linear combination of vectors.

C.O 2: find the basis and dimension of vector space.

C.O 3: solve problems based on linear transformation, rank-nullity theorem, isomorphic spaces

C.O 4: understand matrix representation of a linear transformation.

SEMESTER VI

MATHEMATICS

NUMERICAL ANALYSIS

Course Outcomes: After passing this course, the students will be able to:

C.O 1. Know how to find the roots of transcendental equations and Algebraic equations with help of iteration method like Bisection, False Position and Newton Method etc.

C.O 2. Perform computation for solving a system of equations and understand its application in all branches of engineering.

C.O 3. Learn how to interpolate the given set of values. They will be able to compute numerical integration and differentiation,

C.O 4. Learn to solve differential equations with the help of numerical method.

Political Science

COURSE OBJECTIVES OF POLITICAL SCIENCE

Sem I

Course Objective:

Help students to learn basic concepts in subject and making them thorough in the concepts of political theory.

Widening their understanding about rights, liberty, equality and fraternity.

Sem II

Course Objective:

Builds the knowledge of the students to understand political practices and institutions.

Familiarise students with various political theories and their relevance. Imparts the knowledge about political concepts that is very basic to state's legitimacy.

Sem III

Course Objective:

Updates the students with the constitutional pledges to accountable governance.

Equips the students with actual working of political institutions in the country.

Sem IV

Course Objective:

Makes the students aware about the origin and evolution of Indian Political System.

Helps the students to have a deep look at the history of Indian Political Thought to understand the present paradigm of political philosophy.

Sem V

Course Objective:

Makes students aware political system of UK & USA

Deep acquaintance with comparative Political system of these two countries.

Sem VI

Course Objective:-

Apprises students about meaning and evolution of international politics as a discipline.

Enriches the students about how global cooperation and conflicts have bearings on country's polity and its working.