

Department of Physics

Programme Specific outcomes

- 1) After completion of program, students have deep knowledge of basic concepts in Physics.
- 2) Students are expected to acquire core knowledge in Physics, including the major premises of Mechanics and Properties of matter, Modern Physics, Classical and Quantum mechanics, Electricity and Magnetism, Digital Electronics, Optics, Relativity, Heat and Thermodynamic, Solid State Physics, Mathematical and Statistical physics, Atomic, Molecular and Nuclear Physics, Laser and nonconventional energy sources.
- 3) Students are also expected to develop written and oral communication skills in communicating physics-related topics.
- 4) Students should learn how to design and conduct an experiment and understand the basic physics behind it.
- 5) Students will develop the proficiency in the handling of laboratory instruments.
- 6) Students will realize and develop an understanding of the impact of Physics on society and apply conceptual understanding of the physics in real life.
- 7) Students develop aptitude of doing research through undertaking small projects and research centre visit.
- 8) Students can develop interdisciplinary approach.

Program Outcomes

- 1) The syllabi are framed in such a way that it bridges the gap between the plus two and post graduate levels of Physics by providing a more complete and logical framework in almost all areas of basic Physics.
- 2) By the end of the first year (2nd semester), the students should have attained a common level in basic mechanics, Optics, Heat and Thermodynamics and Electricity and Magnetism. They were developed their experimental and data analysis skills through experiments at laboratories.
- 3) By the end of the second year (4th semester), the students should have been introduced to powerful tools for tackling a wide range of topics in, Modern Physics, General Electronics, Mathematical and Statistical Physics and Solid State Physics They develop their experimental and data analysis skills through a wide range of experiments through practical at laboratories.
- 4) By the end of the third year (6th semester), the students should have developed their understanding of core Physics by covering a range of topics in almost all areas of physics

including Classical and Quantum Mechanics, Electrodynamics, Laser, Fiber optics, semiconductor devices and Non-conventional Energy Sources.

5) They had experience of independent work such as projects; seminars etc. The experimental skills were developed through a series of experiments. Students will design and conduct an experiments and processes. Students will demonstrate an understanding of the impact of physics on Society.

Learning outcomes of the physics undergraduate program

F.Y. B. Sc.

(SEMESTER – I & II)

Sr. No	Course	Learning Outcomes
1	Physics Paper I Mechanics Properties of Matter and Sound	1. Understanding of Newton’s law and apply them into calculation of the motion of simple system.
		2. The properties of solids especially knowledge of elasticity help the students to identify the materials suitable for the construction of buildings, houses etc.
		3. Properties of fluids especially knowledge of viscosity and surface tension help the students in their daily life and agriculture.
		4. Use of Bernoulli’s theorem in real life problems.
		5. Sound gives knowledge or reverberation of hall, echoes and will helpful for the construction of good acoustical condition of hall.
2	Physics Paper II Heat and Thermodynamics	1. This course gives knowledge about the heat flow, thermal conductivity real gases and transport phenomena.
		2. Study of Van der waal’s equation and constants of it.
		3. Understood mean free path and transport phenomenon of gas.
		4. Analyze heat engines and calculate Thermal efficiency
		5. Understood property entropy and derive some thermodynamically relations using entropy concept.
3	Physics paper III Practical	1. Acquire technical and manipulative skills in using laboratory equipment, tools and Materials
		2. Demonstrate to collect data and interpret it.

		3. Demonstrate an understanding of laboratory procedures including safety and scientific methods
4	Physics paper IV	1. Acquire knowledge of optical system
	Geometrical and Physical optics	2. Understanding of Ramsden's and Huygens's eyepiece.
		3. Covering the very important and fascinating areas of interference, diffraction and polarization with many experiments associated with it.
5	Physics Paper V	1. Understands dot cross product, vector triple product, curl, divergence, Gauss divergence theorem and Stokes theorem.
	Electricity and Magnetism	2. To understand Coulombs law and Gauss law in details.
		3. Demonstrate and understanding of Biot-Savart and Ampere's law
		4. Understanding of L, C and R concept and study LCR Circuits.
6	Physics paper VI	1. Acquire technical and manipulative skills in using laboratory equipment, tools and Materials
	Practical	2. To understand theories behind the experiments.
		3. Make a set up carry out practical's independently.

S.Y. B. Sc.

SEMESTER – III & IV

Sr. No.	Course	Learning Outcomes
1	Physics Paper VII Mathematical, Statistical Physics and Relativity	1. Understanding of Scalar and Vector product and various Physical concepts using mathematical tools
		2. Understand Partial equations
		3. To study the Probability concept in details and study Maxwell-Boltzmann law
		4. Understand Bose-Einsteins and Fermi- Dirac Principle
		5. This course is intended to introduce principles of spectroscopy and special theory of relativity.
2	Physics Paper VIII	1. This course gives knowledge about the Photoelectric effect.
		2. Study of X-rays, bragg's law and laue method
		3. Understood different Nuclear forces and models

	Modern and Nuclear Physics	4. Understood different accelerators and Counters.
		5. Understood working of nuclear models, fission and fusion.
3	Physics paper IX Practical	1. Acquire knowledge of instruments able to use it.
		2. Determine the different constants using experimental values.
		3. Compare the result by Calculation and graph.
4	Physics paper X Practical	4. Design the circuit and calculate the unknown values
		5. Study spectroscopic techniques for to study Newton's Law and R.P. of Telescope.
		6. Analyse the data and plot appropriate graphs.
5	Physics Paper XI General Electronic	1. Understands Diode, transistor and FET in detail with Circuit diagram.
		2. To understand amplifiers and Op-Amp in details.
		3. Demonstrate and understanding of Oscillators and Multivibrators
		4. Understanding of Modulation and demodulation
6	Physics Paper XII Solid State Physics	1. This course is intended to provide an introduction to the physics of Solid Matter.
		2. This study attempts to explain various types of phenomena like electro-magnetic properties, super-conductivity.
		3. Material science is a very wide branch where extensive research is going on.
		4. Thermal, electrical, optical and magnetic properties of matter provide a strong foundation in that direction
7	Physics paper XIII Practical	1. To design and Run experiments like Carry Fosters Bridge, thermister and Oscillating Disc
		2. To understand the basic physic behind the experiments.
		3. Keep well maintained and instructive laboratory manuals.
8	Physics paper XIV	4. Design the circuit and analyze the outputs of the circuit.
		2. Find the unknown Parameters of the Oscillators.
		3. Understood the Theory behind the Practical's

	Practical	4. Analyse the data and plot appropriate graphs and reach the conclusions from your data analysis.
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T.Y. B. Sc.

SEMESTER - V & VI

Sr. No.	Course	Learning Outcomes
1	Physics Paper XV Classical and Quantum Mechanics	1. Understanding of Newton's law and apply them into calculation of the motion of simple system.
		2. Solve problems related to Lagrangian Equation
		3. This course is a prelude to advanced theoretical studies in Condensed Matter Physics, Spectroscopy and Hamiltonian, Schrödinger Theory and applications of it.
2	Physics Paper XVI Electrodynamic	1. Students can use Maxwell equations in analysing the electromagnetic field due to time varying charge and current distribution.
		2. They can describe the nature of electromagnetic wave and its propagation through different media and interfaces.
		3. Understood Faraday's, Lenz and Maxwell's Equation
		4. Explain Electromagnetic wave concept in details
		5. Understood B,E, D and H and boundary conditions
3	Physics paper XVII Practical	1. To increase the understanding depth of theoretical concept thermodynamics, magnetism and dielectric concepts.
		2. Understanding and Analysis of data and plot appropriate graphs and reach the conclusions from your data analysis using Excel Sheet
4	Physics paper XVIII Practical	1. To increase the understanding depth of theoretical concept Semiconductors, impedance and grating.
		2. The student will demonstrate the ability to think critically and to use appropriate concepts to analyze qualitatively problems or situations involving fundamental principles of Physics

		3. Practise of setting up and conducting experiments with due regards to minimizing error.
5	Physics Paper XIX Atomic, Molecular Physics and LASER	1. Understands dot cross product, vector triple product, curl, divergence, Gauss divergence theorem and Stokes theorem. 2. To understand Coulombs law and Gauss law in details. 3. Demonstrate and understanding of Biot-Savart and Ampere's law 4. Understanding of L, C and R concept and study LCR Circuits. 5. The basic of LASER is insisted and different types of LASERS.
6	Physics Paper XX Non-conventional energy sources and optical fiber	1. This course is expected to provide necessary back ground for applications of nonconventional energy sources. 2. Students will familiarise with Photovoltaic systems and applications of it. 3. Understanding concept of fiber cables and optical fibbers and fabrication processes. 4. Useful to understand the applications of Fiber cables.
7	Physics paper XXI Practical	1. The student will demonstrate the ability to think critically and to use appropriate concepts to analyze qualitatively problems or situations involving fundamental principles of Physics 2. Understanding and Analysis of data and plot appropriate graphs and reach the conclusions from your data analysis using Excel Shit 3. Understand concept of Refractive Index, Thermocouple and spectroscopic techniques.
8	Physics paper XXII Practical	1. Practise of setting up and conducting experiments with due regards to minimizing error. 2. Handling of LASER Sources and precautions to be taken at the time experiment. 3. Understand concept of optical fiber and e/m techniques.

		4. Understanding and Analysis of data and plot appropriate graphs and reach the conclusions from your data analysis using Excel Shit
		5. Work in group to plan, implement and report on a project/experiment.

Department of Chemistry (UG)

Programme outcome

B.Sc. Chemistry introduces basic concepts, experimental techniques and applications of chemical sciences and introduces cheminformatics, Green chemistry and micro analytical techniques.

B.Sc. Chemistry

Programme Specific Outcome

- ✓ Inorganic Chemistry
- ✓ Methodology and Perspectives of Sciences and General Informatics
- ✓ Organic Chemistry
- ✓ Physical Chemistry
- ✓ Practical papers– Inorganic, Volumetric, Organic, Physical and Gravimetric experiments

Course Outcome

Course Code	Name of Course	Outcome
B-2143	Inorganic Chemistry I	The student will acquire knowledge in <ul style="list-style-type: none">✓ Atomic Structure✓ Periodic properties✓ Electronic Configuration and Periodicity✓ S block element✓ P block element
B-2144	Organic Chemistry II	The student will acquire knowledge in <ul style="list-style-type: none">✓ Structure and bonding✓ Reaction Mechanisms✓ Stereochemistry✓ Alkane and alkene✓ Arenes and Aromaticity✓ Alkyl and Aryl halides
	Lab course I	<ul style="list-style-type: none">✓ Volumetric analysis✓ Qualitative Analysis by microscale methods of a mixture containing two acidic and two basic radicals✓ Eudiometer, viscometer, Staglianometer✓ Chemical kinetics

L-2001	Physical Chemistry IV	The student will acquire knowledge in <ul style="list-style-type: none"> ✓ Mathematical concept ✓ Gaseous states ✓ Liquid states ✓ Solids states ✓ Colloidal states ✓ Chemical kinetics and catalysis
L-2002	Inorganic Chemistry V	The student will acquire knowledge in <ul style="list-style-type: none"> ✓ Chemistry of Nobel gases ✓ Chemical bonding ✓ Nuclear chemistry ✓ Theory of volumetric analysis
	Lab course II	<ul style="list-style-type: none"> ✓ Organic qualitative analysis ✓ Organic estimation
L-2145	Organic Chemistry VII	The student will acquire knowledge in <ul style="list-style-type: none"> ✓ Alcohols, Phenols ✓ Aldehydes and Ketones ✓ Carboxylic acids ✓ Organic compounds of nitrogen
L-2146	Physical Chemistry VIII	<ul style="list-style-type: none"> ✓ Thermodynamic I ✓ Thermodynamic II ✓ Chemical Equilibrium
	Lab course III	<ul style="list-style-type: none"> ✓ Non instrumental experiment ✓ Inorganic gravimetric estimation ✓ Coplexometric titration
L-2005	Inorganic Chemistry X	The student will acquire knowledge in <ul style="list-style-type: none"> ✓ Chemistry of element of first Transition series ✓ Co-ordination compounds ✓ Chemistry of lanthanides ✓ Chemistry of actinides ✓ Acids and bases ✓ Non aqueous solution
L-2006	Physical Chemistry XI	The student will acquire knowledge in <ul style="list-style-type: none"> ✓ Phase Equilibrium ✓ Electro-chemistry I ✓ Electro-chemistry II

	Lab course IV	<ul style="list-style-type: none"> ✓ Instrumentation – ✓ Conductometric, pH, Polarimetric, Colourimetric ✓ Organic derivatives ✓ Organic estimation
L-2143	Physical Chemistry XIII	<p>The student will acquire knowledge in</p> <ul style="list-style-type: none"> ✓ Elementary quantum mechanics ✓ Spectroscopy ✓ Photo chemistry ✓ Physical properties and molecular structure ✓ Nano material
L-2144	Organic Chemistry XIV	<ul style="list-style-type: none"> ✓ Spectroscopy ✓ Organometallic compound ✓ Organic synthesis via enolates ✓ Fats, oils, Detergents
	Lab course V	<ul style="list-style-type: none"> ✓ Binary mixture ✓ Inorganic qualitative analysis ✓ Gravimetric estimation ✓ Volumetric estimation
L-2003	Inorganic Chemistry XVI	<ul style="list-style-type: none"> ✓ Metal ligand bonding in transition metal complexes ✓ Electronic spectra of transition metal complexes ✓ Organometallic chemistry ✓ Bioinorganic chemistry ✓ Chromatography
L-2004	Organic Chemistry XVII	<p>The student will acquire knowledge in</p> <ul style="list-style-type: none"> ✓ Heterocyclic Compounds ✓ Carbohydrate ✓ Synthetic Polymers ✓ Synthetic dyes and Drugs
	Practical VI	<ul style="list-style-type: none"> ✓ Organic estimation ✓ Organic preparation ✓ Instrumental and Non instrumental experiment

Dept. Of Mathematics

Programme outcome:

1. A student should be able to understand the proof techniques in Mathematics and importance of theorems for sorting out typical examples.
2. A student should acquire sufficient technical competence to solve the problems of varying difficulty levels and high notational complexity.
3. A student should be able to make observations, experimentation and pattern recognition which would stimulate the research potential
4. A student should acquire the communication skill to present technical Mathematics so as to take up a career in Teaching Mathematics at various levels including schools, colleges, universities, etc.

Programme Specific outcome

1. Mathematicians develop important analytical skills and problem-solving strategies to assess a broad range of issues in commerce, science and the arts
2. Mathematical models and simulations, and the interpretation of their results, are being called on increasingly in global decisions, as business, politics and management all become more quantitative in their methods
3. The application of mathematics is also in demand in the social sciences, particularly economics, where mathematical tools are used to formulate models of the complex interactions in an economic system
4. Communicate effectively both orally and in writing
5. Work effectively in teams
6. Exhibit ethical and professional behaviour
7. Propose new mathematical and statistical questions and suggest possible software packages and /or computer programming to find solutions to these questions
8. Learn tactics that can improve student motivation through interactive problem-solving activities
9. Give students the confidence and skills to successfully transition to college
10. Teach mathematical skills to prepare students for college level courses
11. Students will simplify and evaluate algebraic expressions
12. Enhance critical thinking skills through self-exploration and class experiences
13. Foster positive relationships with peers, faculty, and staff at Goodwin College
14. Reflecting the broad nature of the subject and developing mathematical tools for continuing further study in various fields of science
15. Enhancing students' overall development and to equip them with mathematical modelling abilities, problem solving skills , creative talent and power of communication necessary for various kinds of employment

16. Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

Curriculum outcomes

F.Y. B.Sc.

Calculus:

1. To study the basics of calculus
2. To study calculus in advance level
3. To discuss Del operator (∇) and Laplace operators
4. Applications of Stoke's theorem
5. To be able to integrate various types of functions
6. To study different integrals
7. To understand the concept of integral as antiderivative
8. Find maxima, minima and critical points of functions
9. Be able to sketch the graph of function
10. Expand the function using Taylor's and Maclaurin's series

Differential Equations:

1. Distinguish between linear, nonlinear, partial and ordinary differential equations.
2. Recognise and solve variable separable differential equations.
3. Recognise and solve linear differential equations.
4. Recognise and solve an exact differential equation.
5. Find particular solution to initial value problem.
6. Solve basic application problems described by first order differential equation.
7. To study about some important models that can be apply to population growth, carbon dating, medicine and ecology.
8. Find the complimentary function and particular integrals of linear differential equation

S.Y. B.Sc.

1 Number Theory

1. Prove results involving divisibility and g.c.d.
2. Solve system of linear equations.
3. Define the concepts of divisibility, congruence relation, and prime factorisation.
4. To classify numbers as primitive roots and quadratic non residues.
5. Produce proofs centred at material of number theory most notably in the mathematical induction and well ordering principle.
6. To improve the ability of mathematical thinking.

2. Numerical Methods

1. Be familiar with notion bonding off numbers to n significant digits and decimal places.

2. Find the solution of algebraic and transcendental equation using bisection method and the method of false position.
3. Able to find solution of first order ordinary differential equation using Taylor series method, Euler's method and Runge Kutta method.
4. Integral Transforms
5. Understands how integral transform can be used to solve variety of differential equations.
6. Ability to demonstrate range of applications of all the methods studied in the course.
7. Analyze different forms of equations and finding their roots
8. Derive numerical methods for approximating the solution of problems of continuous mathematics

3. Mechanics.

1. To describe relative motion, inertial and non inertial reference frames.
2. Application of vector theorems of mechanics and interpretation of their result
3. To describe Newton's laws of motion and conservation principal
4. Introduction to analytical mechanics as a systematic tool for problem solving

T.Y. B.Sc.

Real Analysis:

1. Explain the completeness of system of real numbers, least upper bound, and greatest lower bound of real numbers.
2. Describes fundamental properties of real numbers that lead to the formal development of real analysis.
3. Define and utilise the concepts of sequence, sub sequence, monotone sequence, Cauchy sequence and discontinuous sequence.
4. Justify convergence and divergence of given series.
5. Define Riemann integrals and Riemann sum.
6. Gives knowledge of some simple technique of convergence of sequence and series of functions and confidence in applying them to get an idea of examples for problem solving.

Abstract Algebra.

1. To understand the basic concepts of Group and their applications in algebraic and geometric context
2. To build mathematical thinking and skill
3. To focus on elementary concepts of Rings and Fields and focus on their results
4. To build up more interest in further studies

Ordinary Differential Equations

1. To find solution of higher order differential equations.
2. Solve basic application problems described by second order linear differential equations with constant coefficient.

DEPARTMENT OF BOTANY

Programme Outcomes

- Students know about different types of lower & higher plants their evolution in from algae to angiosperm & also their economic and ecological importance.
- Students know about different types of lower & higher plants their evolution in from algae to angiosperm & also their economic and ecological importance.
- Cell biology gives knowledge about cell organelles & their functions
- Molecular biology gives knowledge about chemical properties of nucleic acid and their role in living systems.
- Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal aberrations & multiple alleles.
- Structural changes in chromosomes.
- Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.
- They know economic importance of various plant products & artificial methods of plant propagation.
- Use modern Botanical techniques and decent equipment's.
- To inculcate the scientific temperament in the students and outside the scientific community

Programme Specific Outcomes

- Students acquire fundamental Botanical knowledge through theory and practical's.
- To explain basis plant of life, reproduction and their survival innature.
- Helped to understand role of living and fossil plants in our life.
- Understand good laboratory practices and safety.
- To create awareness about cultivation, conservation and sustainable utilization of biodiversity.
- To know advance techniques in plant sciences like tissue culture, Phytoremediation, plant disease management, formulation of new herbal drugs etc.
- Students able to start nursery, mushroom cultivation, bio fertilizers production, fruit preservation and horticultural practices.

Semesters	Name of Papers	Outcomes
Sem. I	Diversity of Cryptogams -I	<ul style="list-style-type: none"> • Study of cryptogams to understand their Diversity. • Know the systematics, morphology and structure of algae, fungi • Know life cycle pattern of cryptogams. • Know economic importance of cryptogams.
Sem. I	Morphology of Angiosperms	<ul style="list-style-type: none"> • Understand the habit of the angiosperm plant body. • Know the vegetative characteristics of the plant. • Learn about the reproductive characteristics of the plant. • Understand the plant morphology
Sem. II	Diversity of Cryptogams – II	<ul style="list-style-type: none"> • Learn about the importance of the plant diversity • Know the systematics, morphology and structure of algae, fungi ,bryophytes, and Pteredophytes • Know evolution of algae, fungi, bryophytes and Pteredophytes.
Sem. II	Histology, Anatomy and Embryology	<ul style="list-style-type: none"> • Be enlightened about the mechanism of pollination and basic structure of the embryo. • Understand external and internal structure of plants • Get knowledge on structure and development plant embryo. • Acquire knowledge on the physiological functions of plants.
Sem. III	Taxonomy of Angiosperms	<ul style="list-style-type: none"> • Understand economic importance of angiosperms. • The Students will understand various Angiosperm plant habits. • Learn about vegetative and reproductive structural features of Angiosperms. • Comprehend the concepts of plant taxonomy and classification of Angiosperms • Learn about various Angiosperm families and its economic value.
Sem. III	Plant Ecology	<ul style="list-style-type: none"> • Know the biotic and abiotic components of ecosystem. • Food chain & food web in ecosystem. • Understand diversity among various groups of plant kingdom. • Understand plant community & ecological adaptation in plants. • Scope , importance and management of biodiversity
Sem. IV	Gymnosperms and Utilization of Plants	<ul style="list-style-type: none"> • Systematic study of gymnosperms • Understand economic importance of gymnosperms. • Understand the scope of economic botany. • Know the botanical resources like non wood forest products. • Understand the scope of economic botany.

		<ul style="list-style-type: none"> • Know the botanical resources like non wood forest products.
Sem. IV	Plant Physiology	<ul style="list-style-type: none"> • Know scope and importance of plant physiology. • Understand plant & water relation. • Understand process of photosynthesis, C3, C4, CAM pathways. • Understand the process of respiration, growth and developmental process in plant. • Understand the biochemistry of cell. • Understand the different biochemical reaction of biomolecules in plant cell. • The Students will learn about absorption, translocation and utilization of water and other minerals.
Sem. V	Cell Biology and Molecular Biology	<ul style="list-style-type: none"> • Gain knowledge about cell and its function. • Learn the scope and importance of molecular biology. • Understand ultra-structure of cell wall, plasma membrane and cell organelles • Understand the biochemistry of cell. • Understand the biochemical nature of nucleic acid and their role in living systems.
Sem. V	Plant Pathology	<ul style="list-style-type: none"> • Know the concept, scope and importance of Plant pathology. • Account of Plant disease classification. • Know disease cycle and disease development. • Know the effect of plant diseases on economy of crops. • Know the methods of studying plant diseases. • They can identify the plant diseases like bacterial, fungal and nematodal disease. • Know the disease forecasting. • Know the prevention and control measures of plant diseases.
Sem. VI	Genetics and Biotechnology	<ul style="list-style-type: none"> • Understand the Mendelian and neo Mendelian genetics. • Know about interaction of genes, multiple alleles and linkage and crossing over. • Know about sex linked inheritance, chromosomal aberrations. • Know the evolutionary sequence of various groups of plants. • Understand the fundamental of recombinant DNA technology.
Sem. VI	Microbiology and Disease Management	<ul style="list-style-type: none"> • The student will understand how to analyse the basic concepts, methods, scopes, classifications, characterization, diseases and economic importance of microorganisms. • Understand the importance of microorganisms. • Learn about the pathogenic microorganisms and their mode of entry and control measures.

Department of Zoology

Programme Outcomes

1. Demonstrate, solve and an understanding of major concepts in all disciplines of Zoology.
2. Solve the problem and also think methodically, independently and draw a logical conclusion.
3. Understand the evolution, history of phylum.
4. Create an awareness of the impact of Zoology on the environment, society, and development outside the scientific community.
5. To study and understand the classification of whole phyla includes in Non chordates with the help of charts/models/pictures.
6. To inculcate the scientific temperament in the students and outside the scientific community.
7. Use modern techniques and decent equipments
8. To help students build-up a progressive and successful career in Zoology

Programme Specific Outcomes

1. Gain the knowledge of Zoology through theory and practical's.
2. Study and understand the DNA Recombinant technology.
3. Understand the testing of hypothesis.
4. Use modern Zoological tools, Models, Charts and Equipments.
5. Know structure-activity relationship.
6. Understand good laboratory practices and safety.
7. Develop research oriented skills.
8. Make aware and handle the sophisticated instruments/equipments.
9. After completion of program, students will be able to have in-depth knowledge of basic concepts in Zoology.
10. Students develop aptitude of doing research through undertaking small projects.
11. Student will have set his foundation to pursue higher education in Zoology.
12. After completing the program student will have developed interdisciplinary approach and can pursue higher studies in subjects other than Zoology
13. To learn the basics of systematic and understand the hierarchy of different categories.
To learn the diagnostic characters of different phyla through brief studies of examples.
14. To obtain an overview of economically important invertebrate fauna.
Impart to the student a concrete idea of the evolution, hierarchy and classification of invertebrate phyla
15. Understanding the basics of systematic by learning the diagnostic and general characters of various groups
16. Getting an overview of typical examples in each phyla
17. To study the economic importance of invertebrates.

Course outcomes

Semesters	Name of Papers	Outcomes
SEM I	ZOL-101 Paper – I (Protozoa to Annelida) ZOL-201 Paper – IV Arthropoda to Echinodermata And Protochordata	<ol style="list-style-type: none"> 1. Understand the evolution, history of phylum. 2. Understand about the Non Chordate animals. 3. To study the external as well as internal characters of non chordates. 4. To study the distinguishing characters of non chordates. 5. Understand the economical importance of Molluscs 6. Understand the various internal systems like Digestive system, nervous system with the help of charts. 7. Understand the functions of Gemmules and spicules. 8. Understand the economical importance of Molluscan shells. 9. To obtain an overview of economically important invertebrate fauna. 10. Impart to the student a concrete idea of the evolution, hierarchy and classification of invertebrate phyla To inculcate in the student a love and understanding of the fascinating world of invertebrates 11. Impart to the student a concrete idea of the evolution, hierarchy and classification of invertebrate phyla 12. Understanding the basics of systematic by learning the diagnostic and general characters of various groups 13. Getting an overview of typical examples in each phyla
SEM I	ZOL-102 Paper – II Cell Biology	<ol style="list-style-type: none"> 1. Understand the Scope of cell biology, because cell is the basic unit of life. 2. Understand the Main distinguishing characters between prokaryotic and eukaryotic cell. 3. To study and understand the whole cell organelles with their structure and function. 4. Understand the cell cycle and know the importance of various cells in body of organism. 5. Understand the various applications of cells by using cell biology like study of various cancer tumours. 6. To prepare and observe chromosomal arrangements during cell division 7. To study chromosomal aberrations in man 8. Understand the Animal cells and various cell organelles by using microphotographs. 9. Aware the students for Cancer. 10. Understand the Tools and Techniques in cytology.
SEM II	ZOL-202 Paper – V Genetics - I	<ol style="list-style-type: none"> 1. Depicting the mechanism of sex determination and dosage compensation in human and other model organisms. 2. To understand basic principles of Mendelian inheritance. 3. To study cell division & chromosome segregation 4. To acquire the chromosome structure, chromatin organization and variation. 5. To learn the concepts of Linkage concept of sex determination and sex linked inheritance. 6. To perform routine blood analysis.

SEM III	ZOL-301 Paper – VII Vertebrate Zoology	<ol style="list-style-type: none"> 1. Understand the evolution, history of phylum. 2. Understand about the Chordate animals. 3. To study the external as well as internal characters of chordates. 4. To study the distinguishing characters of chordates. 5. Understand the various internal systems like Digestive system, nervous system etc. with the help of charts. 6. To obtain an overview of economically important vertebrate fauna. 7. Impart to the student a concrete idea of the evolution, hierarchy and classification of vertebrate phyla 8. To inculcate in the student a love and understanding of the fascinating world of vertebrates 9. Impart to the student a concrete idea of the evolution, hierarchy and classification of vertebrate phyla 10. Understanding the basics of systematic by learning the diagnostic and general characters of various groups 11. Getting an overview of typical examples in each phyla
SEM III	ZOL-302 Paper – VIII Genetics- II	<ol style="list-style-type: none"> 1. To educate the students on the underlying genetic mechanism operating in man and state of the art bio-techniques 2. To learn the mechanism of crossing over and inheritance patterns in man. 3. Evolution of the concept of the gene and fine structure of gene. 4. To understand the principles and techniques involved in DNA technology. 5. Strengthening of genetics and cytogenetics principle in light of advancements in understanding human genome and genomes of other model organisms. 6. Description of expression of genome revealing multiple levels of regulation and strategies to manipulate the same in the benefit of the mankind. 7. Imparting knowledge regarding gene mutation, types of gene mutations, methods for detection of induced mutations. 8. To study the structure of population
SEM IV	ZOL-401 Paper – XI Animal Physiology (Special Emphasis On animals)	<ol style="list-style-type: none"> 1. To understand Reproductive organ: male and female gonads, duct systems and sex accessories, external sexual dimorphisms 2. Understand the Reproductive patterns: Environmental factors and breeding, continuous and seasonal breeders. 3. Understand the Sexual cycles: puberty, oestrous and menstrual cycles. 4. Ovarian event: follicular phase, cycling of non-pregnant uterus and vagina. 5. To understand Pregnancy: conception and blastocyst formation, implantation and delayed implantation, placenta: formation, types and functions, hormones in pregnancy.
SEM.IV	ZOL-402 Paper – XII Biochemistry & Endocrinology	<ol style="list-style-type: none"> 1. To learn the structure and functions of bio-molecules and their role in metabolism 2. Understand the structure and function of carbohydrate, amino acids, proteins, and lipids. 3. Understand the concept Enzymes and also Vitamins and minerals.

		<ol style="list-style-type: none"> 4. Understand the Principle role of Vitamins in metabolism and deficiency diseases. 5. To improve the student's perspective of health and biology through in-depth study of human Physiology 6. Describe the structure of the major human organ and Explain their role in the maintenance of healthy individuals. 7. Explain the interplay between different organ system & how organs & cells interact to maintain biological equilibria in changing environment
SEM V	ZOL-501 Paper –XV Ecology	<ol style="list-style-type: none"> 1. Know the biotic and abiotic components of ecosystem. 2. Food chain & food web in ecosystem. 3. Understand diversity among various groups of animal kingdom. 4. Understand Animal community & ecological adaptation in animals. 5. To understand Scope , importance and management of biodiversity 6. Understand the Population and community ecology, wetland forest and their conservation. 7. Appreciate concepts and method from ecological and physical science and their application in environmental problem solving. 8. Be able to collect and analyse environmental sample, perform statistical analysis of data and interpretation and presentation of research results 9. Knowledge of chemical properties of different compound and a biological effects and important cycles, understanding environmental pollution and toxicology
SEM V	ZOL-502 Pape XVI (Elective) Entomology I	<ol style="list-style-type: none"> 1. To understand the origin, evolution and inter relationship of insects with other arthropods. 2. To understand classification and phylogeny of Apterygotes, Exopterygote and Endopterygote insects. 3. To understand the comparative and histological studies of systems such as digestive, respiratory, nervous, circulatory, excretory and reproductive system. 4. To understand Integument and its derivatives. 5. Understand the Studies of the following systems: Digestive, reproduction, nervous co-ordination 6. To understand Light and sound producing organ. 7. To understands Integument: Structure, Chemistry, sclerotization, functions. 8. Ventilators mechanisms and their control.
SEM VI	ZOL-601 Paper XIX Evolution	<ol style="list-style-type: none"> 1. To understand Origin of life with respect to prokaryotic and eukaryotic cells. 2. Understand the evidences of organic evolution by anatomical embryological list, paleontological, physiological, genetics and molecular biology evidences. 3. Understand theories of organic evolution, isolation, and speciation. 4. Understand geological time scale, methods and classification of animal distribution and factors affecting animal distribution 5. To create a deep understanding of how evolution worked and general knowledge about the how evolution works. 6. To introduce the student major principles of evolutionary theory and origin of life.
SEM VI	ZOL-602 Paper XX Entomology II	<ol style="list-style-type: none"> 1. Understand the fundamentals of agricultural, forest, medical and veterinary entomology. 2. Understand Morphology and Anatomy of Insects. 3. Understand intra specific and inter specific relationships among insects. 4. To understand significance of beneficial and harmful insects with

Department of Computer Science

<p>Programme Outcomes</p>	<ul style="list-style-type: none"> • To attract young minds to the potentially rich & employable field of computer science. • To train & equip the students to meet the requirements of the Industrial standards. • To develop problem solving abilities using a computer. • To build the necessary skill set and analytical abilities for developing computer-based solutions for real life problems. • To develop scientific attitude and critical thinking among student. • To prepare necessary knowledge base for research and development in Computer Science. • Understand the basic concepts of system software, hardware and evolution of computer graphics. • Apply the technologies in various fields of Computer Science, including Web site development and management, databases, and computer networks. • To help students to build-up a successful career in Computer Science.
<p>Programme Specific Outcomes</p>	<ul style="list-style-type: none"> • To impart basic introduction to computer hardware components, the working of CPU, fundamentals of algorithms and flowchart as well as different type of software. • To impart basic knowledge in digital logic and circuits and to understand the concept of Number System, Logic Gates, Boolean Laws, Theorems, Flip flops and Counter • To introduce students the basic functioning of operating systems process states, scheduling, Memory and I/O Management techniques. • To expose students to algorithmic thinking and problem solving to impart moderate skills in programming using C Language. • To teach students various data structures and to explain algorithms for performing various operations on these data structures. • To understand object-oriented programming concepts using C++ Programming Language. • To educate students with fundamental concepts of Data Base Management System, Data Models, Relational Algebra and Normalization. • To familiar with the basics of data communication and various types of computer networks. • To assist the students in understanding the basic theory of software engineering, and to apply these basic theoretical principles to a group software development project. • To develop Web based applications by HTML, JavaScript and CSS to have an interactive application. • To study Cyber Laws and regulatory tools. • To understand the role of government and jurisdiction in technology.

FYBSc

Course Code	Subject Name	Course Outcomes
CSO1	Computer Fundamentals	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand the concept of input and output devices of computers and how it works and recognize the basic terminology used in computer programming • Equipped with the of basic computer hardware architecture and are able to design fundamental logic circuits. • Introduced five generations of computer system. • Thrust with concept and need of primary and secondary memory.
CSO2-	DigitalElectronic	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand the concept of Number System, Logic Gates, Boolean Laws, Theorems, flipflops and counter. • Use De Morgan's Theorem to simplify a negated expression. • Create circuits to solve problems using gates to replicate all logic functions.
CSO4	Operating System I	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Notice the services provided by and the design of an operating system. • Get knowledge of different types of operating system. • Use different types of scheduling Algorithms. • Introduced the concepts of deadlock.
CSO5	Programming in C	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Analyze a given problem and develop an algorithm to solve the problem. • Design, develop and test programs written in 'C' • Use different data types in a computer program. • Design programs involving decision structures, loops and functions. • Differ one dimension and multidimensional array.
CS313	Practical Paper	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Create, Save, Copy, Delete, Organize various types of files. • Manage the desk top in general, use a standard word. • Design and implement binary Adder subtract or shift registers using Flip-flop • Implement the different scheduling algorithm. • Use the conditional expressions and looping statements to solve problems associated with conditions and repetitions.

SYBSc

Course Code	Subject Name	Course Outcomes
CSO7	Advance in C Programming	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand a functional hierarchical code organization. • Manage data structures based on problem subject domain. • Work with textual information, characters and strings. • Use concept of pointer and diff data conversion function. • Work with different file handling function.
CSO8	Data Structure	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand concept of stack and linked list. • Solve problems based upon different data structure & also write programs. • Choose an appropriate data structure for a particular problem. • Work with queue and link.
CSO11	Programming in C++	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Get knowledge of difference between object-oriented programming and procedural oriented language. • Do program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc. • Simulate the problem in the subjects like Operating system, Computer networks and real-world problems. • Understand the concept of constructor and destructors.
CSO12	DBMS Using SQL	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Gain a good understanding of the architecture and functioning of database management systems as well as associated tools and techniques. • Acquired Principles of data modeling using entity relationship and develop a good database design and normalization techniques to normalize a database. • Understand the concept of functional dependency anomalies. • Acquired a good understanding of database systems concepts and to be in a position touse and design databases for different applications.
CS813	Practical Paper- I	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Identity the appropriate data structure for given problem • Get practical knowledge on the application of data structures. • Handle operations like insertion, deletion, searching and traversing on various data structures.

		<ul style="list-style-type: none"> • Design, implement, test, debug, and document programs in C. • Program with pointers and arrays, perform pointer arithmetic, and use the preprocessor • Design and implement Data structures and related algorithms.
CS914	Practical Paper-II	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand object-oriented concepts and how they are supported by C++. • Use inheritance and Pointers when creating or using classes and create templates. • Apply object-oriented programming features to program design and implementation. • Analyze, use, and create functions, classes, to overload operators. • Gain knowledge about SQL Fundamentals. • Perform Unary & Binary table operations. • Normalize relation with 1NF 2NF and 3NF. • Draw E-R Diagram of different relation.
TYBSc		
Course Code	Subject Name	Course Outcomes
CS015	Software Engineering	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Select and implement different software development process models. • Extract and analyze software requirements specifications for different projects. • Develop some basic level of software architecture/design. • Define the basic concepts and importance of Software project management concepts, Agility Process. • Apply different principle that guide practice, Communication Principles, Construction principles.
CS016	Web Designing	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand, analyze basic of languages like HTML, DHTML, CSS. • Understand, analyze and create web pages using HTML, DHTML and Cascading Styles sheets. • Understand, analyze and build dynamic web pages using JavaScript. • Understand, analyze and build interactive web applications. • Student will be familiar with concepts of DOM.
CS019	Data Communication and Networking	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Familiar with the basics of data communication. • Familiar with various types of computer networks;

		<ul style="list-style-type: none"> • Understand different type of Transmission Media. • Understand the fundamentals and various computational processing of mobile networks.
CSO20	Ethics and Cyber Law	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Identify and analyze statutory, regulatory, constitutional, and organizational laws that affect the information technology professional. • Understand, Explore, And Acquire A Critical Understanding Cyber Law. • Get the role and function of certifying authorities. • Understand and follow professional ethics and responsibilities. • Understand the ethics of computer security and related issue.
CS1413	Practical Paper- I	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Understand and demonstrate basic knowledge in software engineering. • Identify requirements, analyze and prepare models. • Implement interactive web page(s) using HTML, CSS and JavaScript. • Design a responsive web site using HTML5 and CSS3. • Analyze a web page and identify its elements and attributes.
CS1513	Practical Paper-II (Seminar and Project)	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Apply critical and creative thinking in the design of projects. • Plan and manage time effectively as a team. • Apply knowledge of the ‘real world’ situations that a professional engineer can encounter. • Design and develop a functional product prototype while working in a team • Orally present and demonstrate your product to peers, academics, general and industry community • Manage any disputes and conflicts within and outside team.

English

Course Outcomes

B. A. English

Sr. No.	Programme	Course Objectives	Programme Specific Outcome
	B. A. English	1. To provide in depth knowledge of language and literary concepts. 2. To familiarize with contemporary and recent trends and advances in language and literature. 3. To improve language competence. 4. To introduce students to some advanced areas of language study. 5. To prepare students to go for detailed study and understanding of literature and language.	1. After completion of programme, students will be able to have in depth knowledge of language and literary concepts. 2. They became familiarize with contemporary and recent trends and advances in language and literature. 3. Language competence improved. 4. Students got introduced to some advanced areas of language study. 5. They become confident to prepare to go for detailed study and understanding of literature and language.

Courses offered: Under graduate level

Sr.No	Class	Course	Course Outcomes
	F. Y, B. A.	Compulsory English: Visionary Gleam: A Selection of Prose and Poetry	1. Students familiarized with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English. 2. Students got exposure to native cultural experiences and situations in order to develop humane values and social awareness. 3. Developed overall linguistic competence and communicative skills of the student

		<p>Optional English: Interface: English Literature and Language</p>	<ol style="list-style-type: none"> 1. Students got exposure to the basics of literature and language. 2. They familiarized with different types of literature in English, the literary devices and terms so that they understand the literary merit, beauty and creative use of language 3. Got introduced to the basic units of language so that they become aware of the technical aspects and their practical usage. 4. Students prepared to go for detailed study and understanding of literature and language. 5. Developed an integrated view about language and literature in them
	<p>S. Y. B. A.</p>	<p>Compulsory English: Literary Landscapes</p>	<ol style="list-style-type: none"> 1. Developed competence among the students for self-learning. 2. Students familiarized with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English. 3. Developed students' interest in reading literary pieces. 4. Got exposure to native cultural experiences and situations in order to develop humane values and social awareness. 5. Developed overall linguistic competence and communicative skills of the students

		<p>General English(G-2): Study of English Language and Literature</p>	<p>1) Students got exposure to the basics of short story, one of the literary forms. 2) Familiarized with different types of short stories in English. 3) They understood the literary merit, beauty and creative use of language. 4) Got introduction to some advanced units of language so that they become aware of the technical aspects and their practical usage. 5) Students prepared to go for detailed study and understanding of literature and language 6) Developed integrated view about language and literature in them</p>
		<p>Optional English(S-1): Appreciating Drama</p>	<p>1. Students acquainted and familiarized with the terminology in Drama Criticism (i.e. the terms used in Critical Analysis and Appreciation of Drama). 2. Students got encouraged to make a detailed study of a few sample masterpieces of English Drama from different parts of the world 3. Developed interest among the students to appreciate and analyze drama independently 4. Enhanced students awareness in the aesthetics of Drama and to empower them to evaluate drama independently</p>
		<p>Optional English(S-2): Appreciating Poetry</p>	<p>1. Students acquainted and familiarized with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems) 2. Students got encouraged to make a detailed study of a few sample masterpieces of English poetry. 3. Enhanced students awareness in the aesthetics of poetry and to empower them to read, appreciate and critically</p>

		evaluate the poetry independently
T. Y. B. A.	Compulsory English: Literary Pinnacles	<ol style="list-style-type: none"> 1. Students introduced to the best uses of language in literature. 2. Students familiarized with the communicative power of English. 3. Students to become competent users of English in real life situations. 4. Students got exposure to varied cultural experiences through literature. 5. It contributed to students' overall personality development by improving their communicative and soft skills.
	General English(G-3): Advanced Study of English Language and Literature	<ol style="list-style-type: none"> 1) Students got exposure to some of the best samples of Indian English Poetry. 2) Students experienced Indian English poetry expresses the ethos and culture of India. 3) They understood creative uses of language in Indian English Poetry 4) Students got introduced to some advanced areas of language study. 5) It helped students to prepare to go for detailed study and understanding of literature and language.
	Optional English(S-3): Appreciating Novel	<ol style="list-style-type: none"> 1. Students introduced to the basics of novel as a literary form 2. Students got exposure to the historical development and nature of novel 3. They became aware of different types and aspects of novel 4. Developed literary sensibility and sense of cultural diversity in students 5. Students got exposure to some of the best examples of novel

		Optional English(S-4): Introduction to Literary Criticism	<ol style="list-style-type: none"> 1. Introduced students to the basics of literary criticism 2. They became aware of the nature and historical development of criticism 3. They became familiar with the significant critical approaches and terms 4. Students got encouraged to interpret literary works in the light of the critical approaches 5. Developed aptitude for critical analysis
	S. Y. BSc., Comp. Sci. and Biotech	Optional English: Literary Vistas	<ol style="list-style-type: none"> 1. Students acquainted with the different modes of Communication in the context of modern life. 2. They became effective and efficient users of language. 3. They realized the importance and value of Communication in personality development and career prospects. 4. Enhanced their employment opportunities in communication based careers.
	F. Y. BCom.	Compulsory English: A Pathway to Success	<ol style="list-style-type: none"> 1. Students realized the beauty and communicative power of English through good pieces of prose and poetry. 2. They got exposure to native cultural experiences and situations so that they understood the importance and utility of English language. 3. Developed overall linguistic competence and communicative skills among the students. 4. Developed oral and written communicative skills among the students so that their employability enhanced and English becomes the medium of their livelihood and personality.

F.Y.B.A. Functional English	Paper 1: An Introduction to English Language and Writing Skills in English	<ol style="list-style-type: none"> 1. Students introduced to major features of spoken English 2. Awareness about using language according to the situation 3. Learners overcame common problems of Indian speakers of English 4. Reinforcement of grammar studied up to std. XII 5. Learners acquired the basic skills of effective writing.
	Paper II: Oral Communication in English	<ol style="list-style-type: none"> 1) improved oral competence. 2) acquainted with standard pronunciation 3) Effective use of communicative manners
S.Y.B.A. Functional English	Paper III: Advanced Writing Skills and Introduction to Electronic Media	<ol style="list-style-type: none"> 1. Enhanced students' ability to communicate in written mode 2. Trained students in extended writing in different formats 3. Developed awareness about the need to change language according to situation 4. Helped students to recognize the need for reference work 5. Students acquainted to career options in electronic media and equipped them to be prepared for the same 6. Students became aware about change in language use as per the nature of Media 7. Initiated students into research through scrape book, bibliography etc.
	Paper IV: Oral Communication in English: Intermediate & Key Competency Modules	<ol style="list-style-type: none"> 1) Built confidence in communicative English through active participation 2) Students to learned through activities 3) Students got introduction to a wide variety of conversational situations, both formal and informal 4) Created awareness about what to say and when to say it 5) Created awareness about developing voice quality for effective oral communication

			6) Students became aware of proper use of body language during interaction or in video media
T.Y.B.A. Functional English	Paper V: Introduction to Print Media and Writing for Mass Media & Key Competency Modules		1) Students acquainted with new career options and equipped them to be prepared for the same 2) Students prepared for various careers in language like translation, technical writing, writing for mass media, advertising, free lancing 3) Awareness about language change from one media to the other 4) Encouraged students to observe, compare and analyze the language activities of media through exposure
	Paper VI: Entrepreneurship development, Project Report & Oral Communication in English: advanced		1. Encouraged students to thrash out the possibility of self employment 2. Provided them with basic sources of information regarding SSI 3. Promoted the idea of self employment through field work, study reports and interviews 4. Students to overall development of personality through key competency modules 5. Initiation by students into research through project report 6. Basic information about ethics, business ethics, role of an individual in society so as to develop a value-base among students through Key Competency Modules 7. Students exposed to work environment and work experience through visits and field work

Skill Developmentprogramm

Sr. No.	Programme	Course Objectives	Programme Specific Outcome
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1	Soft skill for base-line staff	1. To develop communication skills of the learnwrs. 2. To develop self-confidence through soft skill trainig	1. Learners should aquients with new career options and equipped them to be prepared for the same. 2. They prepared for various careers in language like translation, technical writing, writing for mass media, advertising, free lancing
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Remedial Course

Sr No	Program	Course objectives	Program specific outcomes
1	Remedial Course	➤ To prepare the student to reach at par with the average student with special care taken on the weaker areas of the students	<ul style="list-style-type: none"> Improvement of English proficiency.
		➤ To develop English language skills-reading, writing, speaking and listening.	<ul style="list-style-type: none"> Effective of the writing process method on students' performance in English composition
		Bridge Course	
Sr No	Program	Course objectives	Program specific outcomes
	Bridge Course	➤ To develop the basic writing skills of students	
2		<ul style="list-style-type: none"> To introduce the new students to the basic language skills like Listening, Speaking, Reading and Writing. 	<ul style="list-style-type: none"> Developing basic skills in English language.
		<ul style="list-style-type: none"> To encourage students to develop their communicative competence in English language. 	<ul style="list-style-type: none"> Enhancing communicative approach in English through self exploration and class experiences.

Dept of History

Program outcomes:

1. To get student vast knowledge
2. Students should understand academic honesty, a concept presented to them in all history classes
3. Students should understand the basic skills that historians use in writing
4. To Develop historical (subject specific) skills including the ability of critical and logical thinking
5. To develop view of historical research
6. To increase the students knowledge of the areas of history in which they wishes to specialize.
7. To understand the basic skills that historians use in research
8. To understand the basic tools of historical analysis.
9. To prepare students for history related careers in teaching and public govt. service.

Program specific outcomes

1. They get related to history various type knowledge, its useful for public sector competitive examination, they introduce cultural, religious, Scio-economic, and political events and condition.
2. Increase Critical Thinking, Students will learn to apply historical methods to evaluate critically the record of the past and how historians and others have interpreted it.
3. Increase research skills, Students will acquire basic historical research skills, including (as appropriate) the effective use of libraries, archives, and databases.
4. Increase communication skills, students will learn to organize and express their thoughts clearly and coherently both in writing and orally.
5. Students were able to explain and critique the historical schools of thought that have shaped scholarly understand of their fields of study.
6. Students were able to demonstrate broad knowledge of historical events and periods and their significance.
7. Reviewing the state of the field to identify a new topic and locate their work within larger scholarly conversations.
8. Many students got greater success in teaching and public sector fields.

Course outcomes:

Chh. Shivaji and His Times (1630 to 1707)

1. Students got knowledge of concept of Shivaji and his times.
2. Student view increased of Nationalism and Secularism.
3. Students got knowledge of administration of Shivaji Maharaj.
4. Introduced to student social, economic and religious condition.

History of Modern Maharashtra (1818-1960)

1. Student know the history of modern Maharashtra from an analytical perspective;
2. To point out to them the dialectical relationship between continuity and change in Maharashtra;

3. Students understand the ideas, institutions, forces and movements that contributed to the structural changes in Maharashtra.
4. Students understand various interpretative perspectives.
5. To help them in articulating their own ideas and views leading to orientation for research.
6. To introduce the student to regional history within a broad national framework.

History of Marathas (1707- 1818)

1. Student's understand administrative system of the Marathas in an analytical way, to acquaint the student with the nature of Maratha Polity.
2. Students understand basic components of the Maratha administrative structure, to enable the student to understand the basic concepts of the Maratha polity.

20th century Maharashtra

1. Students get knowledge of concept History of modern Maharashtra.
2. Modern Maharashtra history is useful to student for MPSC examination.
3. National and social movement in Maharashtra introduced to students.
4. Student got knowledge of Maharashtra Philosophers and their philosophy

History of early India

1. It enables the students to engage with general issues regarding culture and civilization of the ancient period.
2. It inculcates awareness among the students about the cultural heritage of mankind.
3. It develops a sound knowledge about the changes that took place among the major cultures of world civilization.
4. It gives an idea about the harmonious existence of the different sections of the people.

History of Delhi sultans and Mughal India:

1. Students get an idea about the social, cultural and administrative features of India during medieval period.
2. It makes the students to aware the linkage effect of this period in subsequent centuries.
3. Students appreciate the administrative system and economic reforms of the Delhi sultans and the Mughals.
4. They also appreciate the architectural contributions of the Mughals.

Historiography:

1. To acquaint the students with the culture, art, literature scriptures of that particular period
2. To familiar the students with the traditions, customs, spiritual and religious preaching's of the particular period

History of Indian national Movement: (1885-1947)

1. Students get awareness about the causes, leaders, centers, results and nature of the revolt of 1857.
2. It provides in-depth information on the role of important socio-religious reformers and their organizations in the removal of evils that existed in the same realm of India during the second half of the 19th century.
3. It creates good socio-political reformers and leaders among students to protest against the evils that are existing in the contemporary India's social and political issues.

4. It creates the feeling of nationalism and patriotism among the students. Pupils get consciousness on the role of the India National Congress for the realization of India's independence.
5. It gives clear picture on different techniques adopted by the Moderates and the Extremists in India's struggle for independence.
6. Students become aware of the impact of the First World War on Indian nationalism.
7. Students clearly understand different techniques adopted by Mahatma Gandhi in the Indian national movement. It depicts the role of Mahatma Gandhi in connection with Non-co-operation, Civil Disobedience etc. for the attainment of India's freedom.
8. Students get clear picture about revolutionary movements in India especially the role played by Bhagat Singh.
9. Pupils become aware of the impact of the Second World War in India.
10. They get awareness on how communalism contributed to the partition of India in 1947

History of India (1757-1885)

1. Students understood the history of 'Modern' India in an analytical perspective.
2. To made them awareness of the multi-dimensionality of Modern Indian History.
3. Students were the dialectical relationship between continuity and change in India
4. To highlight the ideas, institutions, forces and movements that contributed to the shaping of the Indian modernity
5. To acquainted the student with various interpretative perspectives
6. To helped them in articulating their own ideas and views leading to the research orientation.

Fields of History (Archaeology, museology and tourism):

1. It develops the basic skills in Archaeology, museology and tourism
2. Students get functional knowledge in the field of Archaeology, museology and tourism.
3. It creates awareness about Archaeology, museology and tourism.
4. It creates awareness about social issues and concerns in the use of digital technology.
5. The students familiarize with the evolution of Indian culture with special reference to the society and polity of ancient period.
6. It helps students to develop understanding about the cultural heritage of India.

Landmark in the history of Modern world

1. The students familiarize the various changes that took place in the history of modern world.
2. They get an idea about the various revolutions and their impacts.
3. They develop an understanding about the liberal ideas and freedom struggles.
4. They analyses the agenda of the imperialistic powers in Latin America and Africa.
5. Students familiarize the significance of the unification movement in Italy and Germany.
6. They get an idea about the First and Second World War.
7. They get an idea about the circumstances in which Germany and Italy emerged as world powers.
8. They evaluate the achievements and failure of the International organizations.

Glimpses of the history of Marathwada

1. Students develop a clear idea about the early Marathwada history.

2. Students identify the geographical features which influences the History of Marathwada.
3. They get awareness about the rise of new kingdoms in Pre-modern Marathwada.
4. They familiarize with the different sources which reconstruct the early Marathwada history.

Political science

Program Outcomes:

1. Students enable to develop academic proficiency in the subfields of Indian Government and Politics, Comparative Government, International Relations, Public Administration, Political Theory, and Political Ideology.
2. Students enable to develop and be able to demonstrate skills in conducting as well as presenting research in political science.
3. Students enable to analyze political and policy problems and formulate policy options.
4. Students enable to discuss the major theories and concepts of political science and its subfields, and also deliver thoughtful and well articulated presentations of research findings.

Program specific outcomes

1. Serve as a politician
2. Work as a teacher in colleges, schools and high schools
3. Serve as political party member, political adviser, and well citizen of India. Work in elections and political as well as administrative system.
4. Serve in forest department as forest conservator.
5. Can admit to MA Politics, LLB, MSW, MBA,
6. Work in NGOs.
7. Can Prepare for Competitive exams.

Course outcomes

Basic concepts of political science

1. Political Science seeks to offer students advance knowledge of political concepts and practices in a manner that enables students to relate them to the contemporary local, national and international event.
2. It seeks to emphasize both the knowledge and skill element by exposing students to new ideas not only by classroom teaching, but by also engaging in continuous experiential learning through field visits, seminars, discussions etc.
3. Understanding of the institutions, processes, constitutional background, and policy outcomes of Indian government and the ability to compare Indian government to other countries around the world.
4. Knowledge of key theories and concepts, historical developments, organizations, and modern issues in international relations.

5. Understanding of government institutions, electoral processes, and policies in a variety of countries around the world and the ability to compare the effectiveness or impact of differing political arrangements across countries.
6. Knowledge of some of the philosophical underpinnings of modern politics and government and the legal principles by which political disputes are often settled.
7. Ability to use the comparative case study method of analysis, quantitative forms of analysis, and legal analysis in oral communication and in written research.

Government and politics of Maharashtra

1. Students enable to explain the role of British imperial on local government in India.
2. Students enable to understand the contributions of various committees on local government.
3. Students enable to describe the features and provisions of Constitutional Amendment
4. Acts regarding Local Government Institutions.
5. Students enable to equip the learner to play an active and responsible leadership role in the functioning of Local Government Institutions.
6. Students enable to describe the significance and role of Grama Sabha in Maharashtra.
7. Student enables to study one state in an in-depth manner to understand how the political process evolves at the state level.
8. Student enables to do assignments based on field studies. The study is to be done from socio-historical as well as political economy perspectives.
9. Students enable to know the changes in the political process over the period of over half a century from Congress domination to a bipolar competition and from Maratha hegemony to the crisis of hegemony.

SY

Indian government and politics:

1. Students enable to understand the philosophy of Indian constitutions.
2. Students enable to identify the causes, impact of British colonial rule.
3. Students enable to appreciate the various phases of Indian national movement.
4. Students enable to create value in young youth regarding the patriotism.
5. Students enable to understand the various Government of Indian acts their provision and reforms.
6. Students enable to know the salient features in making of Indian constitution

7. Students enable to appreciate the socio-economic political factors which lead to the freedom struggle.
8. Students enable to appreciate the fundamental rights and duties and the directive principle of state policy
9. Students enable to evaluate the evolution, functioning and consequences of political parties in India.
10. Students enable to identify how electoral rules and procedure in India effect election outcomes.

International Politics:

1. Students enable to understand the evolution, scope and significance of international relations
2. Students enable to demonstrate an understanding of: the key historical events and also they enable to understand contemporary international system; and the key actors which shaped the international Politics.
3. Students enable to discuss the main international relations theories.
4. Students enable to analyze importance of International relation in process of nation progress.
5. Students enable to appreciate the foreign policy their determinants features & its relevance.
6. Students enable to introduces the evolution and important of various theories.
7. Students know a brief history of international politics.
8. They understanding what are happening in the world and the levels of analysis.
9. Competing theories are presented.

Indian political thinkers

1. Student enables to know major traditions of thought that have shaped political discourse in different parts of the world over the last three millennia.
2. Student stresses the great diversity of social contexts and philosophical visions that have informed the ideas of key political thinkers across epochs.
3. The chief outcome is Student project the history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
4. Student knows the key ideas of political thinking in modern India as it shaped in the colonial context.

5. Student enable to understand and decipher the diverse and often contesting ways in which ideas of nationalism, democracy and social transformation were discussed by leading Indian thinkers.

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Political ideologies

1. Student enables to understand the difference between ideology and thought as well as between theory and ideology.
2. Students enable to understand the relationship between ideas and politics.
3. Student enables to understand the core doctrines of each of the ideologies and to make sense of politics through different ideological perspectives.

Economics Department

Programme Outcome: - The Principal aims of objectives of the BA Economics programme are:

- 1) To provide students a well-founded education in Economics.
- 2) To provide and adapt curricula that prepare our graduates for employment and further study as Economics.
- 3) To provide the students with opportunity to pursue course that emphasizes quantitative and theoretical aspects of Economics.
- 4) To provide to students with opportunity to focus on applied and policy issues in Economics.
- 5) To provide programmes that allow that students to choose from a wide range of Economics specialization.

Paper Name	Outcome
Micro Economics – ECO – 101	<ol style="list-style-type: none">1) This course is designed to provide basic understanding of micro Economic concepts behavior of Economic agent-consumer-producer and factor and factor owner-price-fluctuation in market.2) The module includes in this course deal with the, concepts of consumer behavior production, market, factor pricing and welfare Economics.
Indian Economics ECO – 102	<ol style="list-style-type: none">1) Students will aware about recent Economic affairs such as demonetization, universal basic Income, cashless Economy skill and training development schemes, make in India etc.2) Student will get benefit about various Economics issues at local national and global level.3) Students will get knowledge about various business ideas such as Mall – e – commerce even management.

Price Theory ECO – 103	<ol style="list-style-type: none"> 1) It provides basic understanding of price theory concepts. The students are expected to learn the simple relationship in theories of consumption, production, cost and revenues. 2) Understanding the functioning of good and factor markets. 3) Develop skill in Economics reasoning and solving aggregate economics problems.
Money Banking and Finance ECO-104	<ol style="list-style-type: none"> 1) Students will learn the role of can central and commercial banks in the process of money creation and control.
Macro Economics ECO – 105	<ol style="list-style-type: none"> 1) It provides basic understanding of macro economics concepts the students are expected to learn simple relationship in the theories of consumption production and revenue. 2) This course equips the students to understand systems facts and the latest theoretical development in macro economics.
Development Economics ECO 106	<ol style="list-style-type: none"> 1) The students are expected to develop an integrated approach to resource use and how properly measured and coefficient used measure inequalities. 2) Students will get benefit on conceptual approach of growth mode is which are applied for the
Public Finance ECO 107	<ol style="list-style-type: none"> 1) This course will be useful for students aiming towards, careers is in the government sector, policy analysis, business and journalism. 2) Fostering the Economic activities via budget and fiscal policies.
Statistical Method ECO 108	<p>The students are expected to acquire statistical skill that are necessary for further studies in most branches of social sciences.</p>
International Economics ECO 109	<ol style="list-style-type: none"> 1) The students are expected to acquire skill that will help them to take a rational decision in issue relating to International Economics.

	2) The objectives of this course to arrive at an understanding of theories of International trade and to Examine the impact of the trade policies on the dynamic gains.
Agriculture Economics ECI 110	<ol style="list-style-type: none"> 1) Students will obtain information regarding various agriculture issues in India and remedies for it. 2) Student also can get information about co-operative movement in India and its performance and role in rural development. 3) Making awareness about self employment through various local business like Agro tourism, Travel agents, Horticultural, Floriculture fishery and animal husbandry.
Labour Economics ECO 111	1) Labour is the main input of any Industry. This paper provides a deep knowledge regarding recent labour policies in India. The main work of this paper is to provide detailed Information to students about labour market, employment were determination and industrial dispute.
Project Works (Annually)ECO 112	1) Project work This course will inform students about the project writing skill as per the study of research methology techniques. It is also deals with the deep study of specific topic.
Research Methodology ECO 113	<ol style="list-style-type: none"> 1) Studies will get ideas about application of various research method and mathematical tools, for analyzing and presenting Economics issues and theories. 2) The Main works of this paper is to provide information about social sciences research to the students of Economics.
Industrial Economics ECO 114	<p>The student aims to give students basic knowledge and skill to continue with Advanced studies in Industrial Economics.</p> <ol style="list-style-type: none"> 1) Interpret, evaluate and present a company and business. 2) Apply methods for cost accounting and capital investment budgets. 3) Conduct basic book-keeping and accounting for a smaller firm.
Economy of Maharashtra ECO 115	The Economy of Maharashtra is the largest in India. It is the third most Urbanized State with an Urban population of 45% of the

	whole populate. The village Ralegaon sidhi in Ahmednagar District is heralded as a sustainable model of village development, tourism in Maharashtra, Industry, Agriculture, Transportation, Economy of different regions, greatest progress.
Project of Works ECO 116	It helps the students to develop their critical approach and creative thinking skill.

DEPARTMENT OF SOCIOLOGY

Program Specific Outcomes:-

- a) Acquaintance with social transactions, social relations, social formations, social control, social values and culture.
- b) Knowing the significance of social institution, caste system, religion nationalism, integrity, equality and justice.
- c) Getting the knowledge of the works of social reformers all over the nation.
- d) Ability to follow new stream of thoughts and theories of social thinkers.
- e) Getting the deep knowledge about various social groups like tribal community, women bulk etc.
- f) Ability to deal with research in sociology.

Paper Name	Course Outcome
I. Introduction of sociology 1. Introduction 2. Basic concepts 3. Perspective in Sociology 4. The uses of sociology	1. To study the basic concepts of sociology 2. To equip the students with the importance and origin of sociology 3. To understand the brief knowledge between human and society.
II. Individual and society 1. Culture and socialization 2. Social structure 3. Social stratification 4. Social change 5. Social control	1. To study the different section of society, social structure etc. 2. To make the students aware with the social changes 3. To acquaint the students with social stratification and different factors.
III. Introduction to subfields of sociology. 1. Sociology and society – Urban sociology, Rural sociology. 2. Sociology and Interaction Psychology, Political Society. 3. Sociology and culture Anthropology. 4. Applied form of sociology Industrial sociology.	1. To study the different issues related to society. 2. To study the sociology in terms of culture. 3. To thrust the different forms of applied sociology.
IV. Indian Social Composition 1. Features of Indian society unity, diversity, values. 2. Indian Population 3. Democracy and secularism. 4. Rural and Agrarian culture	1. To study the Indian social composition. 2. To acquaint the students with problems due to population 3. To study Indian constitution and its characteristics.
S.Y.B.A.	
V. Problems of Rural India. 1. Institutional Issues.	1. To introduce the Indian rural structure.

<ol style="list-style-type: none"> 2. Education and health. 3. Rural Economy. 4. Major issues in Development. 	<ol style="list-style-type: none"> 2. To discuss the various problems in Indian society. 3. To study the issues like dropout, illiterate, malnutrition.
VI. Contemporary Urban Issues <ol style="list-style-type: none"> 1. Urbanization 2. Problems of Urbanization. 3. Urban Planning. 4. Globalization and Urban changes. 	<ol style="list-style-type: none"> 1. To study the concept of urbanization and its problems. 2. To study the importance of urban planning in terms of housing and infrastructure. 3. To study the effect globalization and urban change.
VII. Population in India. <ol style="list-style-type: none"> 1. Basic concepts 2. Human Population Dynamics 3. Demographic Transition. 4. Population Policy 	<ol style="list-style-type: none"> 1. To study the causes and consequences of population. 2. To study the various stages of demographic transition. 3. To study population policy in relation to world scenario.
VIII. Sociology of Development. <ol style="list-style-type: none"> 1. Conceptual perspectives on Development. 2. Development Issues 3. Development Approaches. 4. Indian experience of Development. 	<ol style="list-style-type: none"> 1. To study the socio-economic disparities in society. 2. To equip in students with different approaches. 3. To study the development issues.
T.Y.B.A.	
IX. Sociological Traditions. <ol style="list-style-type: none"> 1. Emergence of sociological thought. 2. The pioneers – compete, Spencer, Durkheim. 3. The classical tradition, Marx, Weber. 	<ol style="list-style-type: none"> 1. To provide information with the understanding of historical, social economics and intellectual forces of the rise of sociological theories. 2. To acquaint the students with the sociological thoughts of different sociologists.
X. Introduction to Research Methodology. <ol style="list-style-type: none"> 1. Basic concepts 2. Types of Research 3. Scientific Research Process. 	<ol style="list-style-type: none"> 1. To introduce the students with various research skills. 2. To study different types of research and issues in research. 3. To motivate the students to undertake social research.
XI. Social Problems in India. <ol style="list-style-type: none"> 1. Corruption and crime. 2. Displacement and Rehabilitation. 3. Problems of Inequality 	<ol style="list-style-type: none"> 1. To study the social problems in India. 2. To acquaint the students with corruption and crime. 3. To find out solution for social problems.
OR XI. Urban Sociology <ol style="list-style-type: none"> 1. Introduction 	<ol style="list-style-type: none"> 1. To study the nature and scope of urban society. 2. To acquaint the students with different urban sociological theories.

<ul style="list-style-type: none"> 2. Process of Urban development. 3. Urban sociological Theories. 	
XII. Project Work	
XIII. Sociological Theories. <ul style="list-style-type: none"> 1. Functionalism. 2. Conflict Theory 3. Symbolic Interaction. 	<ul style="list-style-type: none"> 1. To acquaint the students with various sociological theories. 2. To train the students in the application of social theories to social situations.
XIV. Social Research Methods. <ul style="list-style-type: none"> 1. Techniques of sociological Investigation. 2. Computer application-. 3. Utility of social Research. 	<ul style="list-style-type: none"> 1. To study the techniques of sociological investigation. 2. To introduce the students with computer application and statistics.
XV. Social Disorganization in contemporary India. <ul style="list-style-type: none"> 1. Problems of Disorganization. 2. Violence and Social disorder. 3. Regionalism. 	<ul style="list-style-type: none"> 1. To introduce the problems of disorganization in contemporary India. 2. To acquaint the students with effects of violence and social disorder.
OR XV. Urban Society in India. <ul style="list-style-type: none"> 1. Urban India 2. Social problems of Urbanization. 3. Urbanization and Industrialization. 	<ul style="list-style-type: none"> 1. To Familiarizes social problems of urbanization. 2. To introduce the students with the role of industrialization. In urban society.
XVI. Project Work	<ul style="list-style-type: none"> 1. To study the significance of the research work. 2. To attract the students to understand various skills during practical work.

Department of Commerce

Course Outcomes

Year	Course Code	Name of Course	Outcomes
B.Com-I		Financial Accounting	<p>1) To familiarize the students about the principles and concepts of financial accounting.</p> <p>2) To acquaint the students with the emerging issues in business.</p> <p>3) To introduce the trade and commerce regarding maintaining and presenting the accounting and financial facts.</p>
		Computer Application in Business	<p>1) To expose the students to the innovations in Computer Application and its potential application in business.</p> <p>2) To provide computer skills & knowledge among students</p> <p>3) To enhance the students for understanding the use of computing skills in business operations.</p>
		Business Mathematics & Statistics	<p>1) To enable the students to apply statistical techniques</p> <p>2) To impart knowledge of logical reasoning.</p> <p>3) To thrust various statistical & mathematical techniques for logical & scientific decisions in business Operations.</p>
Year	Course Code	Name of Course	Outcomes
		Business & Industrial Economics	<p>1) To acquaint the students with the principles of business economics.</p> <p>2) To introduce the students with different concepts like flexibility,</p>

			<p>demand & supply ratio etc.</p> <p>3) To insert leadership, motivation, management, SEBI etc..</p>
		Business Organization & Management	<p>1) To provide basic knowledge of organization & management of business enterprises</p> <p>2) To study the concepts like marketing Maslow Need Hierarchy Theory, Make in India Movement</p> <p>3) To inculcate social responsibility & ethics</p>
		Entrepreneurship Development	<p>1) Familiarize the students with latest programs of the government authorities in promoting small and medium industries.</p> <p>2) To motivate the students to start new entrepreneurship.</p> <p>3) To introduce the students with new principles of entrepreneurship.</p>
B. Com-II		Corporate Accounting	<p>1) To expose the students to the accounting practices prevailing in the corporate sector</p> <p>2) To introduce the students with the knowledge regarding share market.</p> <p>3) To give information to the students about final accounts of joint company</p>
		IT Application in Business	<p>1) To expose the students to the innovations in informatory technology and its potential application in business.</p> <p>2) To study the concepts like Ecommerce, Electronic market, E business etc.</p> <p>3) To introduce future trends of market among the students.</p>
Year	Course Code	Name of Course	Outcomes

		Principles of Business Management	<p>1) To develop business skills among students relevant to various business situations.</p> <p>2) To enable the students to study the different theories like Leadership Theory, Business Theory, Traditional Theory etc.</p>
		Business Regulatory Frame Work	<p>1) To enable the students to apply the provisions of business laws in business activities.</p> <p>2) To study the concepts of Human Rights.</p>
		Marketing Management-II	<p>1) To familiarize the students with the management practices.</p> <p>2) To create awareness about E advertising, Green Marketing, Event Marketing, etc.</p> <p>3) To provide knowledge of social, ethical & legal aspects of marketing.</p>
B. Com III		Advanced Financial Accounting	<p>1) To equip the students in preparation of accounts of various business areas.</p> <p>2) To study the functioning of stock market.</p> <p>3) To enable the students to maintain different types of account.</p>
		Management Accounting	<p>1) To equip the students to interpret financial statements with specific tools of management accounting.</p> <p>2) To equip the students with ability to analyze, to interpret, accounting information in managerial decisions.</p> <p>3) To study various types of budgets.</p>
Year	Course Code	Name of Course	Outcomes
		Cost Accounting	<p>1) To familiarize the students with cost concepts</p> <p>2) To study the concepts like labour, overheads & different plans.</p>

			<p>3) To study the concepts & objectives of material control.</p> <p>4) To familiarize the students with cost concepts</p>
		Direct & Indirect Tax (GST/Income Tax)	<p>1) To impart the basic knowledge and understanding of the concepts and practices of income tax law in India.</p> <p>2) To expose the students with basic tax concepts & legislations.</p> <p>3) To study various taxes as Central Excise, Custom Laws, Service Tax & VAT. etc.</p>
		New Auditing Trends	<p>1) To understand principles and practice of Auditing.</p> <p>2) To enable the students information about auditing procedure.</p> <p>3) To study the duties & liabilities of an Auditor.</p>
		Banking and Insurance	<p>1) To expose the students to the changing scenario of Indian Banking.</p>
			<p>2) To familiarize students with banking & practice of banking.</p> <p>3) To equip the students with the knowledge of modern banking.</p> <p>4) To develop employability of students in banking, financial & other economic sectors.</p>

Outcomes of Department of Public Administration

Year	Name of Paper	Outcomes
B.A-I	Principles and Concepts of Public Administration	<ol style="list-style-type: none"> 1. To know about the meaning of public administration 2. To know about the Organizational principles 3. To know the concepts of public administration
	Public Administration in India	<ol style="list-style-type: none"> 1. To know about the Evolution of Indian Administration. 2. To know the Constitutional Framework. 3. To Know the Central Legislature. 4. To know the Right of Information Act-2005.
	Maharashtra Administration	<ol style="list-style-type: none"> 1. To know the formation of Maharashtra State. 2. To know the State Executive, Judiciary and Legislature of Maharashtra. 3. To Know the Constitutional and Statutory bodies of Maharashtra
	District Administration	<ol style="list-style-type: none"> 1. To know the Evolution of District Administration 2. To know the Power about District Collector. 3. To know the District Police Administration.
B.A-II	Personnel Administration	<ol style="list-style-type: none"> 1. To know the Public Services in India 2. To know the Administrative Training Institutions in India 3. To know about the Problems of Personnel Administration. 4. To know the Administrative Tribunals in India.
	Panchayat Raj and Rural Development	<ol style="list-style-type: none"> 1. To know the Evolution of Panchayat Raj in India. 2. To Know the Panchayat Raj System in Maharashtra 3. To know about the Rural Development.
	Financial Administration,	<ol style="list-style-type: none"> 1. To know about the Finance Ministry in India. 2. To know about the Account and Audit. 3. To know about the Parliamentary Control 4. To know about the New Economic Policy in India.
	Urban Local Self Governance and Urban Development.	<ol style="list-style-type: none"> 1. To know about the Consequences of Urbanization. 2. To know about the Ministry of Urban Development. 3. To know about the Problems of Urbanization.
	Human Resource Development	<ol style="list-style-type: none"> 1. To know about the Ministry of Human Resource Development. 2. To know about the Institutions in Human Resource Development. 3. To know about the Human Resource Management and Planning.

B. A- III	Education Administration in India.	<ol style="list-style-type: none"> 1. To know about the Historical Background of Education 2. To know about the Institution in Higher Education 3. To know about the Globalization and Higher Education.
	Administrative Thinkers	<ol style="list-style-type: none"> 1. To know about the Scientific Theory 2. To know about the Behavioral Theory. 3. To know about the Ecological Approach.
	Public Policy and Development	<ol style="list-style-type: none"> 1. To know about the Formulation of Public Policy. 2. To know about the Public Policies in India. 3. To know about the Challenges before Development.
	Health Administration in India.	<ol style="list-style-type: none"> 1. To know about the Indian Health Care System. 2. To know about the Health Welfare Ministry. 3. To know about the Challenges of Health Care System in India.
	Recent Trends in Public Administration and Important Laws	<ol style="list-style-type: none"> 1. To know about the Various Recent Trends in Public Administration. 2. To know about the Various Important Laws

BCA (Bachelor of computer Application)

Program Outcomes:

- 1) To provide thorough understanding of nature, scope and application of computer and computer languages
- 2) To develop interdisciplinary approach among the students
- 3) Improves communication skill so that the can effectively present technical information in oral and written reports.
- 4) Prepare to create design innovative methodologies for solving complex and real life problems for the betterment of the society.
- 5) Demonstrate use of appropriate techniques to effectively manage business challenges.
- 6) Develop programming skills, networking skills; learn applications, packages, programming languages and modern techniques of IT.
- 7) Get skill and info not only about computer and information technology but also in organization and management

Program specific Outcomes:

1. An ability to apply knowledge of mathematics, computer science and management in practice.
2. An ability to enhance not only comprehensive understanding of the theory but its application to in diverse field.
3. The program prepares the young professional for a range of computer applications, computer organization, techniques of computer networking, software engineering-Commerce, Web Designing, C, C++, VB, JAVA.
4. An ability to design a computing system to meet desired needs within realistic constraints such as safety, security and applicability in multidisciplinary teams with positive attitude.
5. An ability to communicate effectively.
6. In order to enhance programming skills of the young IT professionals, the program has introduced the concept of project development in each language/technology learnt during semester.

Course Outcomes

Year	Course Code	Name of Course	Outcomes
BCA- I		Financial Accounting(I&II) & Cost Accountancy	<ol style="list-style-type: none">1) To familiarize the students with cost concepts2) To study the concepts like labour, overheads& different plans.3) To study the concepts & objectives of material control.4) To familiarize the students with cost Concepts5) To familiarize the students with cost concepts6) To study the concepts like labour, overheads& different plans.7) To study the concepts & objectives of material control.8) To familiarize the students with cost concepts

		<p>Industrial Economics</p>	<ol style="list-style-type: none"> 1) Identify and compare different market structures (Perfect competition, monopolistic competition, monopoly and oligopoly), as well as, compare their price and output implications 2) Describe and apply the fundamentals of game theory and its application to entry deterrence, and oligopoly theory in respect of price and quantity competition, and international trade 3) Identify and assess the implications of product differentiation for welfare. Implications of asymmetric information for quality of goods. Implications of market structure for vertical dominance 4) Describe and compare different views of profits persistence based on market structure and innovation 5) Use course materials to judge the behavior of firms in today's economy
		<p>Business Statistics & Mathematics</p>	<ol style="list-style-type: none"> 1) To develop an understanding of the theory of probability, rules of probability and probability distributions. 2) To comprehend the decision making process under uncertainty using statistical tools. 3) To become aware of the concepts in sampling, sampling distributions and estimation. 4) To understand the meaning and process of hypothesis testing including one-sample and two-sample tests. 5) To appreciate the importance and application of non-parametric tests in hypothesis testing. 6) To understand the meaning and importance of correlation and regression analysis including both simple and multiple correlation and regression. 7) To study the concept of logarithms 8) To understand the concept of different types of matrices. 9) To understand the concept of permutation combination & binomial theorem.

		Programming in C	<p>1) Learn how to build by the algorithms for problems.</p> <p>2) Learn how to create pictorial representations of the program.</p> <p>3) Learn how to apply logic for problems.</p> <p>4) Enhance their programming skills.</p>
		Principal of Management	<p>1) 1) To develop business skills among students relevant to various business situations.</p> <p>2) To enable the students to study the different theories like Leadership Theory, Business Theory, Traditional Theory etc.</p>
		Business Communication	<p>1) To enable the learner to communicate effectively and appropriately in real life situation</p> <p>2) To use English effectively for study purpose across the curriculum.</p> <p>3) To develop and integrate the use of four language skills:</p> <p>a) Reading</p> <p>b) Writing</p> <p>c) Listening</p> <p>d) Speaking</p> <p>4) To revise and reinforce structure already learnt.</p> <p>5) To know the process of Interview Techniques & Group discussion.</p>
		Basic Web Technology(I&II)	<p>1) Ability to develop web pages using HTML and Cascading Style Sheets.</p> <p>2) Skill to create XML documents and Schemas.</p>

			<p>3) Knowledge of client-side (JavaScript) and server-side scripting (PHP, ASP.NET) languages to build dynamic web pages.</p> <p>4) Familiarization with Web Application Terminologies, Internet Tools, E – Commerce and other web services.</p> <p>5) Ability to develop database applications with MySQL.</p>
BCA- II		OPPS Using C++	<p>1) Familiarization with a widely used programming concept – Object Oriented Programming.</p> <p>2) Develop logical thinking.</p> <p>3) Skill to write codes in C++ by applying concept of OOP, such as Objects, Classes, Constructors, Inheritance etc., to solve mathematical or real world problems .</p> <p>4) Ability to isolate and fix common errors in C++ programs.</p>
		Buisness Law(I,II&III)	<p>1) On completion of this course, learners will be able to: appreciate the relevance of business law to individuals and businesses and the role of law in an economic, political and social context.</p> <p>2) Identify the fundamental legal principles behind contractual agreements.</p> <p>3) Examine how businesses can be held liable in tort for the actions of their employees.</p> <p>4) Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as an employer.</p>

			5) Acquire problem solving techniques and to be able to present coherent, concise legal argument.
		DBMS	<p>1) Familiarization with Database Management System.</p> <p>2) Comprehensive knowledge of database models.</p> <p>3) Ability to code database transactions using SQL.</p> <p>4) Skill to write SQL Queries.</p>
		E-Business Essential	<ol style="list-style-type: none"> 1. Demonstrate an understanding of the foundations and importance of E-commerce 2. Analyze the impact of E-commerce on business models and strategy 3. Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational. 4. Describe the infrastructure for E-commerce 5. Describe the key features of Internet, Intranets and Extranets and explain how they relate to each other. 6. Discuss legal issues and privacy in E-Commerce 7. Assess electronic payment systems 8. Recognize and discuss global E-commerce issues
		Data Structure & Algorithm	1) Skill to analyze algorithms and to determine algorithm correctness and their time efficiency.

			<p>2) Knowledge of advanced abstract data type (ADT) and data structures and their implementations.</p> <p>3) Ability to implement algorithms to perform various operations on data structures.</p>
		Java Programming	<p>1) Skill to write Java application programs using OOP principles and proper program structuring.</p> <p>2) Ability to create packages and interfaces.</p> <p>3) Ability to implement error handling techniques using exception handling.</p>
		MIS&DSS	<p>1) Relate the basic concepts and technologies used in the field of management information systems;</p> <p>2) Compare the processes of developing and implementing information systems.</p> <p>3) Outline the role of the ethical, social, and security issues of information systems.</p> <p>4) Translate the role of information systems in organizations, the strategic management processes, with the implications for the management.</p> <p>5) Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization.</p>
		Entrepreneurship development	<p>1) Familiarize the students with latest programs of the government authorities in promoting small and medium</p>

			<p>industries.</p> <p>2) To motivate the students to start new entrepreneurship.</p> <p>3) To introduce the students with new principles of entrepreneurship</p> <p>4) To familiarise the students with the fundamentals of entrepreneurship and its role in economic development and to motivate them towards entrepreneurial activities.</p>
		Advance Networking	<p>1) Knowledge of uses and services of Computer Network.</p> <p>2) Ability to identify types and topologies of network.</p> <p>3) Understanding of analog and digital transmission of data.</p> <p>4) Familiarization with the techniques of Network Security.</p> <p>5) Know the basic of network, network type's reference model and layers in network</p> <p>6) Understand the routing algorithm and protocols that are used in network communication</p>
BCA-III		Management Accounting	<p>1) To understand the basic concepts and processes used to determine product costs, 2) To be able to interpret cost accounting statements.</p>

			3) To be able to analyze and evaluate information for cost ascertainment, planning, control and decision making
		Organizational Behavior	<p>1) Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.</p> <p>2) Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.</p> <p>3) Analyze the complexities associated with management of the group behavior in the organization.</p> <p>4) Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization</p>
		Business Elective –I (banking and insurance)	<p>1) To make the students understand the concept of role of banking sector in the services of banks</p> <p>2) To enable the students to understand the application of marketing principles in banking sector.</p>
		RDBMS Using ORACLE	<p>1) To prepare students to acquire front end development skills using Visual Basic.</p> <p>2) The students can be able to build the front end application using the latest industry required technology.</p>
		VB	<p>1) know the working environment of visual basics using a control structure</p>

			<p>2) Understand the module, components and menu editor and its concept in a simple manner</p> <p>3) Analyze a controls such text box, rich text box and etc...write coding easily</p> <p>4) develop the project with database using ODBC, DAO, ADO and visual data manager</p> <p>5) Include the active controls and other control to perform particular task</p>
		Soetware Testing and Quality Assurance	<p>1) Familiarization with the concept of software engineering and its relevance.</p> <p>2) Understanding of various methods or models for developing a software product.</p> <p>3) Ability to analyze existing system to gather requirements for proposed system.</p> <p>4) Skill to design and code a software.</p> <p>5)familiar with different testing techniques</p> <p>6) Understand tools and techniques of software engineering</p>
		System Programming	<p>1)Detailed knowledge of Compilation process of a program.</p> <p>2) Knowledge of internal working of macro processor.</p> <p>3) Familiarization with Assembly language.</p>

			4) Understanding the working of linker and loaders – components used during the process of program execution.
		Service Marketing	<ol style="list-style-type: none"> 1) The students will be able to explain the nature and scope of services marketing 2) The students will be able to provide a theoretical and practical basis for assessing service performance using company examples 3) effectively understand what quality means in service delivery and how perceptions of service quality are developed by customers 4) Identify critical issues in service design including the nature of service products & markets, building the service model.
		Project	<ol style="list-style-type: none"> 1) Skill to apply Software Development Cycle to develop a software module. 2) Ability to use the techniques, skills and modern engineering tools necessary for software development. 3) Develop a software product along with its complete documentation

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1. B. A. Geography (UG) Program Outcomes:

1. Demonstrate knowledge of physical condition and environment that shape human experience and civilization.
2. Acquire knowledge in the field of map making or exploration, remote sensing and GIS.
3. Career choice is GIS planning, environmental work and population and site analysis.
4. Entry into government agencies such as census Bureau, Forestry service.
5. Start their career as climate change analyst, geomorphologist, meteorologist, Remote sensing analyst soil conservationist.
6. Understand the structure of atmosphere and different type of climate and its characteristics.

2. Subject & Learning Outcomes:

A. Knowledge of Geographic Principles:

Students will demonstrate a proficiency in knowledge of essential concepts of physical and human geography including:

1. Describing human-environment, and nature-society interactions as well as global human and environmental issues.
2. Identifying and explaining the planet's human and physical characteristics and processes, from global to local scales.

B. Scientific Inquiry, Tools and Critical Thinking:

Students will demonstrate the ability to analyze, interpret, and draw conclusion about geographic problems and information including:

1. Demonstrating proficiency in using geographical research tools including spatial statistics, cartography, remote sensing, GIS and GPS.
2. Identifying, interpreting and analyzing geographic problems and processes.
3. Formulating a research methodology and executing a formal student-led research project.
4. Applying knowledge of global issues to a unique scientific problem.
5. Identifying human and environmental issues on global, regional, and local scales and critically assess various perspectives on the issue.
6. Evaluating the impacts of human activities on natural environments.
7. Applying knowledge of global issues to local circumstances to evaluate the local effects of the issues.

C. Communication Skills:

Students will demonstrate the ability to communicate geographic information utilizing both oral and written outlets by:

1. Defending and communicating facts, ideas and research results via written, oral, graphical and quantitative outlets.
2. Demonstrating the ability to evaluate and solve geographic problems effectively in collaborative settings working with other students.

D. Ethical and Social Responsibility:

Students will appreciate the relevance of geographical knowledge to everyday living by:

1. Applying geographical knowledge to everyday living.
2. Demonstrating an appreciation and respect for the diversity of perspectives, world-views and cultures.
3. Showing an awareness and responsibility for the environment.

M.A. Geography Program Outcomes:

M.A. in Geography by completing an M.A. program, a student will be able to:

1. Demonstrate knowledge of physical condition and environment that shape human experience and civilization.

2. Acquire knowledge in the field of map making or exploration, remote sensing and GIS.
3. Career choice is GIS planning, environmental work and population and site analysis.
4. Entry into government agencies such as census Bureau, Forestry service.
5. Start their career as climate change analyst, geomorphologist, meteorologist, Remote sensing analyst soil conservationist
6. Understand the structure of atmosphere and different type of climate and its characteristics.
7. Brief knowledge of history & development of geographical thoughts.
8. Understand the Science of Remote Sensing and the use of GIS and GPS Software.
9. Understand the structure, composition of different Sphere of the Earth.

A. Geography master's Subject & learning Outcomes:

A) Scientific Inquiry, Tools and Critical Thinking:

Students will demonstrate the ability to analyze, interpret, and draw conclusion about geographic problems and information including:

1. Demonstrating proficiency in using geographical research tools including spatial statistics, cartography, remote sensing, GIS and GPS.
2. Identifying, interpreting and analyzing geographic problems and processes.
3. Formulating a research methodology and executing a formal student-led research project.

B. Communication Skills:

Students will demonstrate the ability to communicate geographic information utilizing both oral and written outlets throughout their thesis research by defending and communicating facts, ideas and research results via written, oral, graphical and quantitative outlets.