Adhyapak Shikshan Mandal's

C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda Dist Nandurbar

Programme Outcomes (Under Graduate Level)

After graduating from science faculty, a student should have:

- Acquired knowledge with facts and figures related to various subjects in basic sciences such as Chemistry, Botany etc.
- Understood the basic concepts, fundamental principles, and scientific theories related to various scientific phenomena and their relevance in day-to-day life.
- Acquired skills in handling scientific instruments, planning and performing laboratory experiments nothing down the observations and drawing logical inferences from them.
- Analyzed the given scientific data critically and systematically and drawing objective conclusions.
- Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.
- Realized how developments in any one-science subject help in the development in other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for sustainable developments.
- Developed scientific outlook not only with respect to science subjects but also in all aspects related to life.
- Realized that knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc can greatly and effectively influence & inspire in evolving new scientific theories and inventions.
- Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
- Developed various communication skills such as reading, listing, speaking, etc.,
- Which we will help in expressing ideas and views clearly and effectively.
- Realized that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude all necessary qualities for leading a successful life.
- Developed a flair for participating in various social and cultural activities voluntarily, in order to spread knowledge, creating awareness about the social evils, blind faith, etc.

After completing the post-graduation studies in any subject belonging to science, the student should have...

- Acquired a deep knowledge on possible in the subject concerned by making use of reference books, research journals & periodicals, internet, etc.
- Known in detail how the subject matter has progressed from ancient times till the date with important discoveries, inventions, theories, the scientists who contributed to this.
- Understood how scientific theories are proposed and how they are accepted or rejected by experimental evidences.
- Judged the presently accepted theories by considering their strength and weakness and provide better explanations for the modification or improvement of the theory.
- Explained how the subject has influence the progress in the other areas of science and technology useful in the betterment of life of common man.
- Acquired high level skills in laboratory experimentation and inferring the logical conclusions.
- Participated in Project works, doing independent designing & execution of the research work.
- Participated in seminars and workshops and acquires theoretical thinking skills and practical skills.
- Developed the faculty of creative thinking (Convergent & divergent) to provide solutions to the unsolved problems or designing new experimental verification procedures.
- Conceived where and how subject knowledge can be used in future for a betterment of mankind.
- Recognized the areas where there is no further research work done or the areas which are not yet explored.
- Taken up an independent research project in a R & D organization or in any industrial organization.
- Developed a strong faith that ethical, moral and social values are necessary for pursuing a scientific career.
- Accepted that scientific knowledge plays most important role in overcoming social evils, blind faith, poverty, health issues, and can certainly improves the quality of human beings.
- Comprehended necessary measures for sustainable development and controlling environmental pollution hazards.

After completing the graduation in the faculty of humanities/Arts/Social sciences, the student should have:

- Acquired knowledge with facts and figures related concerned with subjects such as Hindi.
- Understood the basic concepts, fundamental principles, and various theories in the above mentioned subjects.
- Realized the importance literature in creating aesthetic, mental, moral, intellectual development of an individual and increasing a healthy society.
- Understood how issues in social science influence literature and how literature can provide solutions to the social issues.
- Gained the analytical ability to analyze critically the literature and social issues, appreciate the strength and suggest the improvements for better results.
- Appreciated that social issues are no longer permanent and largely depend on political, economicchanges and also on the developments in science and technology.
- Convinced himself/herself that study of literature and social sciences not only help to evolve better individual and better society but also help to make the life of an individual more happyand meaningful. Participated in various social and cultural activities voluntarily.
- Written articles, novels, stories to spread the message of equality, nationality, socialharmony, etc.
- Emerged as a multifaceted personality who is self dependant; earning his own bread andbutter and also creating opportunities to do so.
- Realized that pursuit of knowledge is a lifelong process and in combination with untiringefforts and positive attitude are necessary qualities for leading a successful life.
- Developed various communication skills such as reading, listing, speaking, etc., which will helpin expressing ideas and views clearly and effectively.

After completion the Post-Graduation in Humanities, the student should have -

- Acquired a deep knowledge as possible in the subject concerned by making use of reference books, research journals, periodicals and internet facilities.
- known in detail how the subject matter has developed from ancient time till this date withimportant landmarks, theories and people have contributed to achieve these.
- Critically evaluated the works of various authors or social scientists by considering thestrength and weakness and suggestions probable modifications for improvement.
- Understood how the developments in the field of Humanities have improves the quality of life and how they have satisfied the aspirations, intensions likes and dislikes and how they could modify them.
- Realized how the studies in Humanities have led to various social, economical, political changes over last few centuries.
- Predicted the future course of the developments in the subject and the various factors that are likely to influence them and how they will change the life of common man.
- Taken up an independent research project, plan and execute it and present the results and conclusions systematically at the end.
- Taken up independent creative writing or various aspects in literature, social, economic political, environmental issues in the form of story, poetry, research articles, reports, etcin various periodicals &journals.
- Recognized the areas where there is no further research work or areas which are not yetexplored.
- Developed a strong belief that study of humanities will lead to development of soul, giving immense pleasure & satisfaction for any individual.
- Recognized that studies in humanity will dissolve differences & inequalities due to caste, creed and religion, social status etc leading to human dignity which will help to create social & national integration.
- Participated & led various activities related to literature & social issues in order to create social awareness and harmony.

Programme Outcomes (Under Graduate and Post Graduate Level)

Bachelor of Commerce (B.Com)

- To equip students with the necessary soft skills to enhance their competitive edge in the job market
- To imbibe in students positive attitude towards life and work
- To help students excel in their individual and professional lives using the soft skills
- Understand the significance and essence of a wide range of soft skills
- Learn how to apply soft skills in a wide range of routine social and professional settings.
- Learn how to employ soft skills to improve interpersonal relationships.
- Learn how to employ soft skills to enhance employability and ensure workplace and career success.
- Learn The Law & Legal Principals of Contract Act 1872.
- Draft legal documents including partnership deed & service tax returns.
- Understand the basic structure, rules & powers of consumer protection act.
- To know the provision regarding strikes and lock outs under industrial dispute act.
- Be acquainted with development of patents and environment protection act.
- Students to gain a better underrating of the negotiable instrument act.
- Learn how to analysis the legal constraints on business.
- Be able to face the problems on various sides of Business and Tax Law.
- To acquaint the students with modern updated computerized accounting system and software.
- To develop an understanding of the rules of measurement and reporting relating to various components of corporate financial transactions.
- To provide working knowledge of accounting principles and procedures for recording of transactions related to corporate entities.
- To provide working knowledge for preparing the corporate accounts and statements in accordance with the statutory requirements.
- To Understand the Objectives of Computerized Accounting.
- To Know the Principles Of Tally Software.
- To acquire Computing Skills.
- To Study various features of Tally.
- To Acquaint with Modern Technology In Accounting.
- To study of Goods and Services Tax Act
- To use Tally with GST
- Demonstrate a basic understanding of computer hardware and software.
- Demonstrate problem-solving skills.
- Apply logical skills to programming in a variety of languages.
- Utilize web technologies.
- Present conclusions effectively, orally, and in writing.
- Demonstrate basic understanding of network principles.
- Working effectively in teams.
- Apply the skills that are the focus of this program to business scenarios.
- Students will be able to get the Job as an accountant in GST
- Students may get the job as an assistant in GST Tax consultancy firm
- Students may get the job of GST Practical Instructor in Educational Computer Institute
- To improve the knowledge, skills & competencies of the potential & existing entrepreneurs in various sector.
- To improve life management skills of children and youth.
- To provide intellectual resources to youth for their best future.
- To improve social and economic skills.
- To provide diverse opportunities for participation.
- To empower to people to create business opportunities.
- To boost the Entrepreneurship Development Programme.
- To boost women and rural entrepreneurship.
- To understand different methods to assess the attractiveness of business opportunities

- To understand what characterizes an attractive business opportunity and common pitfalls during the entrepreneurial process
- To products or services to market
- To understand different methods that can be used to minimize uncertainties at different stages of the entrepreneurial process
- To understand the dynamics of how teams develop and function as well as the various types of conflicts that can arise during teamwork
- To acquaint students with the new concepts of Banking
- To update the students about new changes in Banking
- To know the relevance Banking practices in modern competitive world
- To make understandable of Banking operations
- Explain the various functions of money, and how money has evolved over time.
- Show that modern banking systems include both privately owned commercial banks and government-owned central banks.
- Explain how commercial banks create money through the process of taking deposits and making loans.
- List what is included in the various measures of the money supply
- To Introduce Basic Retailing Management Concepts.
- Empowering Students with the Most Modern Techniques and Practices of Retailing as Seen and
- Experienced around the Globe.
- Imparting Theoretical and Practical Knowledge to Ensure Understanding of the Dynamic of Modern Organized Retail Trade.
- To understand analysis of store location, merchandising, products and pricing.
- The learner will be able to determine a level of interest in pursuing a career in retail management.
- To equip students with the necessary soft skills to enhance their competitive edge in the job market
- To imbibe in students positive attitude towards life and work
- To help students excel in their individual and professional lives using the soft skills
- To understand the essential terminologies used in the Indian Partnership Act and the structure of legal document
- To acquire the knowledge of various terms included in the Factories Act and Industrial dispute Act
- To understand the basic structure, rules & powers of the Consumer Protection Act.
- To be acquainted with the Environment Protection Act.
- To be acquainted with the Goods and Services tax Act.
- Describe the legal system and the legal environment of business.
- Describe the relationship of ethics and law in business.
- Define relevant legal terms in business.
- Explain basic principles of law that apply to business and business transactions.
- Describe business law in the Indian context.
- Describe current law, rules, and regulations related to settling business disputes.
- Understand different technical terminology used in this act
- Discussed and consult businesses on related issues of business laws
- A comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity.
- The ability to account for a range of advanced financial accounting issues
- The ability to prepare consolidated accounts for a corporate group.
- Demonstrate a basic understanding of computer hardware and software.
- Demonstrate problem-solving skills.
- Apply logical skills to programming in a variety of languages.
- Utilize web technologies.
- Present conclusions effectively, orally, and in writing.
- Demonstrate basic understanding of network principles.
- Working effectively in teams.
- Apply the skills that are the focus of this program to business scenarios.
- To understand different methods to assess the attractiveness of business opportunities
- To understand what characterizes an attractive business opportunity and common pitfalls during the entrepreneurial process
- To products or services to market

- To understand different methods that can be used to minimize uncertainties at different stages of the entrepreneurial process
- To understand the dynamics of how teams develop and function as well as the various types of conflicts that can arise during teamwork
- To acquaint students with the new concepts of Banking.
- To update the students about new changes in Banking.
- To know the relevance Banking practices in modern competitive world.
- To make understandable of banking operations.
- Explain the central role of retail in industrialized societies, and the impact of key market/retail trends upon this sector in the local and global contexts.
- Identify the key stakeholders and the roles/responsibilities of retail towards these stakeholders Understand and apply appropriate frameworks to develop high level retail marketing strategy, and identify the role of marketing strategies in the building of brand equity and shareholder value in the retail industry
- Evaluate the implementation of marketing strategy through the retail mix including product and merchandise mix, pricing, location and store- design, promotions, and store management to improve the total customer experience and retailer market competitiveness.
- Interpret retail problems and be capable of critically evaluating and applying appropriate retail management models and theories to generate strategic and tactical solutions
- Analyse how retail managers can make informed strategic choices in relation to managing channel partners, retail form (online vs. bricks and mortar), global sourcing, and managing staff to improve strategic outcomes.

Outcome of B Sc Chemistry Programme Outcome (B.Sc Chemistry)

 \Box To promote understanding of basic facts and concepts in Chemistry while retaining the excitement of Chemistry.

□ To make students capable of studying Chemistry in academic and Industrial courses.

 \Box To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of chemical sciences.

 \Box To develop problem solving skills in students.

 \Box To expose the students to different processes used in Industries and their applications.

 \Box To develop ability and to acquire the knowledge of terms, facts, concepts, processes, techniques and principles of subjects,

 \Box To develop ability to apply the knowledge of contents of principles of chemistry.

□ To inquire of new knowledgeof chemistry and developments therein.

 \Box To expose and to develop interest in the fields of chemistry

 \Box To develop proper aptitude towards the subjects.

 \square To develop the power of appreciations, the achievements in Chemistry and role in nature and society.

 \Box To develop skills required in chemistry such as the proper handling of apparatus and chemicals.

Outcome of M. Sc. Organic Chemistry

- To equip students with the knowledge and generic skills for employment or further training in R&D, science based industry and establishments, education, and for training at management levels in other professions.
- To stimulate intellectual development, develop powers of critical analysis and ability to solveproblems
- Understand the synthesis by various mechanism and characterization of organic compounds and natural compounds.
- To train students in the practical skills necessary for the safe manipulation of chemicals To generate interest in, and understanding of, the wider role of chemistry in society e.g. health, industry.
- To enable students to develop independent learning skills as well as the experience of working as part of ateam.
- Understand the Stereochemistry of the natural product and organic compounds.
- Perform the organic preparation of one, two and three stage preparation by green andchemical approach.
- Understanding application of organic compounds like antibacterial, anticancer and antifungaletc. in medical and pharmaceutical field.
- To introduce student to chemical research methodology through carrying out a researchproject.
- Understanding application of IR, NMR, GCMS for characterization of organic compounds. To understand professional responsibility and ethics in Chemistry.

Course outcome UG

- This course offers self-employment to the student like horticulture related business like nursery, food industry like Pickle, tomato ketchup and fruit jam preparation etc.
- They become technically sound in area like tissue culture and green house technology.
- They are able to understand plant structures in the context of physiological activities of plants.
- Students will be well versed with various processes such as mushroom production, cut flower production, and compost production.
- They are able to understand structural organization and variation in chromosomes.

Course outcome PG:

- Department of Botany offer PG course in Botany designed in the North Maharashtra
- This course rigorously train students in the extensive activities run in seed companies, as well as tissue culture companies.
- They are able to realize the environmental problems like air pollution, water pollution and soil pollution and are able to handle these problems.
- They are also able to handle subject related projects.
- Study of a-biotic stresses with respect breeding in different crops which is one of the burning issues in Indian agriculture.

On Completion of the B.Sc. (Zoology) students are able to

Understand the nature and basic concepts of cell biology Understand the basic concepts about chordates and non-chordates Understand the concepts of Goatary and Lac culture. Understand the various Applications of Biotechnology Understand the Lamarckism, Neo-Lamarckism and Darwinism. Understand the term ELISA technique and DNA fingerprinting. Understand the process of evolution.

Course outcome UG:- Computer Science

- Know about Software Coding & Testing
- know about functions and services of operating system
- get introductory knowledge about android operating system.
- Create and manipulate databases for various applications.
- Aware about different web techniques used in PHP.
- On completion of the course, students are able to develop interactive static as well as dynamic websites.
- By using ASP.Net create dynamic web pages

After Completing Bachelor of Commerce (B.Com) course, students are able to:

- To build a strong foundation of knowledge in different areas of Commerce. To develop the skill of applying concepts and techniques used in Commerce.
- To develop an attitude for working effectively and efficiently in a businessenvironment.
- To integrate knowledge, skill and attitude that will sustain an environment ofl earning and creativity among the students.
- To expose students about entrepreneurship.
- To enable a student to be capable of making decisions at personal and professional level.
- Solve problems (programming networking database and Web design) in the Information Technology environment. Function effectively on teams to accomplish a common goal, Demonstrate professional behavior.
- Develop IT-oriented security issues and protocols. Able to design and implement a web page.
- Improved communication and business management skills, especially in providingtechnical support.
- On completion of B.A. (Economics), Students are able to Understand basic concepts of economics.
- Analyze economic behavior in practice. Understand the economic way of thinking.
- Analyze historical and current events from an economic perspective. Write clearly expressing an economic point of view.
- Find alternative approaches to economic problems through exposure to coursework inallied fields.
- Create students ability to suggest solutions for various economic problems.

On completion of B.A (English), students are able to:

- Use correct English in oral as well as written form.
- Inculcate of human values for one"s transformation of behavior.Interpret the literary works by critical analysis.
- Compare literary works of the great philosophers using their logic and literary capacity.

On Completion of the BA (Geography) Students are able to:

- To understand overall structure of Geography and its importance in Society
- Importance of Geographical knowledge in day to day life.
- To Study the land forms and related processes.
- Understand the structure, composition of different spheres of the earth
- Understand importance of oceans, rivers and water and Conservation
- Understand the Function and importance of Biogeography
- Understand the science of Remote Sensing
- Job opportunities in the Field of GIS, Surveying, Climate, Ocean etc.
- To Understand aware the students about use of resources with prudence.
- Tounderstand acquaint the students with different environmental policies.
- Understand acquaint the students with the knowledge of economic realm in the world.
- Highlight the different economic activities.
- Understand mineral and power resources in the specific regions of the world.

B.A. in HINDI

After completion of B. A. Hindi student will able to

Develop Attitude of Literary Forms. (Hindi Poetry & Fiction)

Develop Reading, Writing & Communication Skills of Students.

Get information about the history of ancient, medieval and modern Hindi Literature.

learn the literary works on the basis of the foundation laid by the scholars.

Get information about Literary Theory.

Develop Approach of Hindi Linguistics & Grammar.

M.A. in HINDI

After completion of M. A. Hindi student will able to understand

Applications of Literature and Language concepts.

The literary works on the basis of the foundation laid by the scholars.

The basic need for strengthening the language capacity.

The latest development of literary works in the world and within the country

B.A. History

On completion of the BA (History) special, students will be able to

Understand the basic themes, concepts, chronology and the Scope of Indian History.

Acquaint with range of issues related to Indian History that span distinct eras.

Understand the history of countries other than India with comparative approach.

Think and argue historically and critically in writing and discussion.

Prepare for various types of Competitive Examinations

Critically recognize the Social, Political, Economic and Cultural aspects of History.

On Completion of the B.A.(MARATHI) students are able to:

- \Box Understand the basic themes, concepts, chronology and the Scope of Marathi. \Box \Box
- Think and argue Marathi writing Skill and discussion. \Box
- Prepare for various types of Competitive Examinations
- Consulting on the progress of modern Marathi novels.

On Completion of the B.SC(Marathi) students are able to:

- To explain the basic concepts of Marathi classical to the students
- Develop linguistic skills for students

• Introduce students to the storytelling type of storytelling

On completion of the B.COM (Marathi) Programme, students are able to:

- Introduce business skills to Student
- Explain the concept of business to Student through the example of an entrepreneur
- Introduce Student to different entrepreneurs and introduce them to life journey
- Make the students aware of the various aspects in Social Behaviour.

Courses Outcomes Department of Botany

Class	Course	Outcomes (After completion of this course, the students will be able to)
	SEM I & SEM II	
F.Y.B.Sc.	BOT-101 Microbial	1. To study the diversity among Microbes.
	Diversity, Algae& Fungi	2. To study systematic, morphology and structure of Bacteria, Viruses, Algae and Fungi.
		3. To study the life cycle pattern of Bacteria, Viruses, Algae and Fungi.
		4. To study the useful and harmful activities of Bacteria, Viruses, Algae and Fungi.
	Bot. 102: Plant Taxonomy	1 To study the diversity of angiosperms.
		2 To study the comparative account among the families of angiosperms.
		3 To study the economic importance of the angiosperm plants.
		4 To study the distinguishing features of angiosperm families.
	Bot. 201: Diversity of	1 To study salient features of Archegoniate.
	Archegoniates	2 To make students aware of the status of higher cryptogams& gymnosperms
		as a group in plant kingdom.
		3 To study the life cycles of selected genera.
		4 To study economic and ecological importance of Archegoniate.
	Bot. 202: Plant Ecology	1 To know scope and importance of the discipline.
		2 To study plant communities and ecological adaptations in plants.
		3 To know about conservation of biodiversity.
		4 To study the botanical regions of India and vegetationtypes of Maharashtra.
Class	Course	Outcomes (After completion of this course, the students will be able to)
	SEM III & SEM IV	
S.Y.B.Sc.	Bot. 301: Plant Anatomy	1. To know scope and importance of plant anatomy
		2. To study various tissue systems
		3. To know primary structure of dicot and monocot plants
		4. To study normal secondary growth in plants and their causes
		5. To study protective tissue system
	BOT.302: PLANT	1. To know importance and scope of plant physiology.
	PHYSIOLOGY	2. To study plant and plant cell in relation to water.
		3. To study different process in relation with structure of organism and its environment.
		4. To understand mechanism of absorption of water, gases and solutes.
		5. To understand growth at various level.
	BOT 401: PLANT EMBRYOLOGY	1. To know the scope and Importance of Embryology
		2. To study structure of micro and mega sporangium.

G V D G	1	3. To study pollination, fertilization, Endosperm and Embryogeny.
S.Y.B.Sc.		4. To give exposure of techniques in embryology
	BOT: 402 PLANT	
	METABOLISM	1. To know the scope and importance of plant metabolism.
		2. To study the properties, mechanism and classification of enzymes.
		3. To study the process of photosynthesis in higher plants, C3, C4 and CAM pathways.
		4. To study respiration in higher plants.
Class	Course	Outcomes (After completion of this course, the students will be able to)
Class	SEM V &	Outcomes (Arter completion of this course, the students will be able to)
	SEM V &	
T.Y.B.Sc	PAPER – I CRYPTOGAMS	1. To study salient features of Cryptogrammic plants.
SEM V		2. To make students aware of the status of cryptogams as a group in plant
		kingdom.
		3. To study the life cycles of selected genera.
		4. To study economic and ecological importance of Cryptogrammic plants.
	PAPER-II ANGIOSPERM	1. To study status of angiosperms in plant kingdom
	TAXONOMY	2. To study origin of Angiosperms with respect to time, place, origin and
		probable ancestor.
		3. To study Pre-Darwinian and Post- Darwinian systems of Classification.
		4. To study various angiosperm families emphasizing their morphology, distinctive
	PAPER- III CELL AND	1. To introduce the students with "Cell Science".
	MOLECULARBIOLOGY	2. To study Cell wall Plasma membrane, Cell organelles and cell division.
		3. To study the scope and importance of molecular biology.
		4. To study the biochemical nature of nucleic acids, their role in living systems
		experimental evidences to prove
		DNA as a genetic material.
		5. To understand the process of synthesis of proteins and role of genetic code i
		polypeptide formation.
	PAPER-IV	1) To learn and understand about mineral nutrition in plants.
	ADVANCED PLANT	2) To study the growth and developmental processes in plants.
	PHYSIOLOGY	3) To learn about movement in plants.
		4) To study the process of translocation of solutes in plants
		5) To Study the nitrogen metabolism and its importance
	PAPER-V PLANTECOLOGY	1. To know scope and importance of the discipline.
	AND PHYTOGEOGRAPH	2. To study plant communities and ecological adaptations in plants
	Y	3. To know about conservation of biodiversity, Non-conventional
		Energy and Pollution.
		4. To study botanical regions of India and vegetation types of
		Maharashtra. 5. To study Bionomodiation. Clabel morning and elimete shange
		5. To study Bioremediation, Global warming and climate change.
	PAPER VI [OPTIONAL	1. To know the concept of garden.
	PAPER-]	2. To study the special types of gardens.
	GARDENING	3. To study the different features of garden.
		4. To study the different ornamental garden plants.
		5. To study about the techniques of pot-culture, Bonsai, Topiary,
TVRS	PAPER I	Lawn. 1. To study Gymnosperms with respect to distinguishing characters,
	GYMNOSPERM	comparison with
	S &	Angiosperms, economic importance and classification.
	PALEOBOTAN	2. To study the life cycles of Pinus and Gnetum.
	Y	3. To study the scope of Pale botany, types of fossils and geological
		time scale.
		4. To study the various fossil genera representing different fossil
	Don on U	groups
	Paper-II ANATOMY	1. To know scope & importance of Anatomy and Embryology
	AND	2. To study various tissue systems.
	EMBRYOLO	3. To study normal and anomalous secondary growth in plants and
	GY	their causes. 4. To give exposure to techniques in anatomy
		H. 10 give exposure to techniques in anatomy

Paper - III	1. To introduce the students with "Science of Heredity".
GENETICS, PLANT	2. To study the role of genes in evolution of species.
BREEDING AND EVOLUTION - GENETICS	3. To study linkage, segregation and mutation of genes during evolution.
GENETICS	4. To introduce the student with science of plant breeding
PAPER- IV PLANT	1. To introduce the students with current status of Biochemistry.
BIOCHEMISTRY	2. To recognize the impact of Biochemistry on socioeconomic aspects of life.
	3. To develop the knowledge of industrial application of Biochemistry
	4. To inculcate the students with the importance of Bimolecular.
Paper – V Applied Botany	1. To know importance and scope of botanical science in the industries.
	2. To study role of microbial plants in fermentations process.
	3. To study the process of cultivation of cash crops.
	4. To study some plants which are used as herbal cosmetics.
	5. To study technique of plant tissue culture and its application.
	6. To study the role plants in forensic science.

	Paper VI: Optional Paper -	1. To know horticulture, its scope, disciplines and importance
SEM VI	Horticulture	2. To know horticulture zones of Maharashtra and India
		3. To understand different horticultural practices and their methods
		4. To study importance, principles and types of Bahar treatment
		5. To study role played by green and polyhouses in horticulture
		6. To study production technology, harvesting techniques and marketing of crops grown especially in Khandesh region of Maharashtra
Class	Course	Outcomes (After completion of this course, the students will be able to)
	SEM I & SEM II	
M.Sc.I	BOT - 101: Plant Systematics-I	1. To study salient features of Algae, Fungi and Bryophytes
		2. To know the diversity of Cryptogrammic plants in nature.
		3. To study the life cycle patterns in cryptogams.
	BOT-102 Taxonomy of	1. To study aims, principles and methods in taxonomy.
	Angiosperms	2. To study taxonomic structure of Angiosperms.
		3. To study Cronquist system of classification.
		4. To study recent APG system of classification and evolutionary trends.
		5. To study morphological peculiarities and biological importance of plants
	BOT 105 Applied Plant Biotechnology	1. To the fundamentals of totipotency, plant tissue culture techniques.
		2. To study transgenic technology for the improvement of quality and quantity of Plant and thereby product.
		3. To understand the advantages of in vitro propagation in various areas.
		4. To understand the application and importance of plant tissue culture and transgenic plant in
	(Pteridophytes, Gymnosperms	1. To know the Classification, economic importance of Pteridophytes& Gymnosperms.
	and Palaeo botany)	 To Know the distribution of Pteridophytes& Gymnosperms in India. To understand the biodiversity of Pteridophytes and Gymnosperms. Scope, importance, applied aspect of Palaeobotany& methods to study various fossils.
		5. To study the important fossils in different group of plants and Indian fossil record.
		1. To understand plant-water relationships
	Biochemistry	2. To understand the plant structures with respect to physiological functions of plants
		3. To understand physiology of photosynthesis and respiration in plants

	4. To understand lipid metabolism in plants
	5. To understand basic concepts in Biochemistry
	6. To understand the primary and secondary metabolites and their importance in the plants
BOT 203 Cytogenetics and MolecularBiology	1. To study structural organization and variation in the chromosome as well as karyo type analysis.
	2. To study extra-chromosomal inheritance in the plant system.

	1	3. To study molecular biology about genetic material, its inheritance,
		modification, replication, and repair. 4. To study transcription, translation post-translation modification of a protein.
	SEM III & SEM IV	5. To study gene regulation in prokaryotes and eukaryotes
MCaII		1. Able to differentiate vascular tissue.
M.Sc.II	BOT-301 plant development	
	AND REPRODUCTION	2. Able to identify embryological stages.
		3. Expertise in tissue culture technique.
	BOT-302 B MYCOLOGY SPECIAL PAPER-I	1. Able to know history of Mycology and Nomenclature of fungi.
		2. Able to describe life cycle patterns of various groups of fungi.
		3. Higher cognitive skills about taxonomy of fungi will develop.
	Bot.303Practical- (Core	1. To Study of stomatal types by peeling method.
	Course) Practical Based on Bot-301	2. To Study of Trichomes locally available plants.
		3. To Study of different types of woods by double stained preparation of a. Dicot woods (Covering different types)
	BOT.304 PRACTICAL-II (Core course) (Based on BOT. 302 B Mycology Special Paper I)	Study of the representative genera belonging to following groups with respect to observations made based on accessory organs, asexual and sexual structures, fruiting body ascocarp/ basidiocarp/ Pycnidia. (Study should be based on genera collected from the regular field trips and outside tours.)
	Core Course BOT-305 ABIOSTATISTICS AND BIOINFORMATICS	 Able to understand the ways to report the results in a scientific way. Able to recognize importance of Biostatistics in interpreting the biological data. Expertise in Bioinformatic stools to analyze different protein or nucleotide sequences.
	AC-301 D: Biodiversity and Conservation	Able to understand the concepts of Biodiversity and Conservation.
	BOT-401 B MYCOLOGY SPECIAL PAPER-II	 This paper acquaints students with maintenance and preservation industrial important fungi. Able to know fermentation technology, mushroom technology, fungal toxins, soil microflora, importance of soil microflora, nitrogen fixation, fungal ecology, fungal genetics and fungal biotechnology.
	BOT. 402 B MYCOLOGY SPECIAL PAPER-III	 Able to know concept, scope and importance of the plant pathology. Able to describe development of disease, pathogenesis, defense mechanism. Higher cognitive skills about abiotic and biotic diseases of plants will develop.
	BOT-403 Practical (Core Course) (Based on BOT. 401 B and 402 B)	Able to know the practical knowledge of various things of Mycology.
	BOT-404 Practical (Core Course) Project Dissertation	Submission of project work certified by Guide. Presentation of project work using LCD.
	BOT-405 B: Industrial Botany	This paper acquaints students with various plant materials and microbes viz. Algae, Fungi, Bacteria used on large scale for industrial purpose like food industry, Sugar industry, Paper industry, Oil industry, Medicine (Space food).
	AC-401 C: Banana Fruit Processing	Able to understand the Banana Fruit Processing.

DEPARTMENT OF CHEMISTRY Course Outcomes under Graduate Level

F.Y.B.Sc. CBCS (Chemistry Courses)

		Course Outcomes (Students will be able to)	
		Semester -I	
	• Develop an ability to behavior	o use conceptual and mathematical tools to express and predict atomic and molecular	
CH-101: Physical and Inorganic	• Predict atomic structure, chemical bonding or molecular geometry based on accepted models.		
	• Convert scientific ed	quation in straight line to get physical parameter for slope and intercept.	
	 Understand deviation 	n of real gas from ideal behavior.	
Chemistry-I	• Understand critical	constant and vanderwall"s constant.	
	• Understand the gene	ral properties of organic compounds, applications of organic compounds.	
	• Understand the Mono functional compounds - Common and IUPAC nomenclature of various type of organic compound.		
CH-102:	• Understand the the alkane by many organic reaction.		
Organic and norganic	• Understand of S- blo	ock Elements of alkali metals and Alkaline earth metals	
Chemistry-I	• Understand Arrhenius theory, Bronsted- Lowry theory, and Lewis theory.		
J -	Understand ionic product of water, Buffer solutions.		
	• Calibrate the appara	tus like volumetric flask, pipette and burette.	
	• Understand the determination of heat of solution, equivalent weight, surface tension etc.		
СН-103:	Carry out qualitative analysis of acidic and basic radicals.		
Chemistry	Learn the applications of types of titrations for various estimations		
Practical-I	Carry out quantitative analysis by gravimetric method		
	Carry out quantitative analysis by volumetric method		
		Semester -II	
		• Identify methods and instruments that can be used to study chemistry	
		• Evaluate data generated by experimental methods for chemical characterization.	
	sical and Inorganic	• To understand specific and equivalent conductance.	
Chemistry-I	Ι	• To understand cell constant and use of it to obtain specific and equivalent conductance.	
		 To know Kolhaurash's law and application of it. 	

	• Understand the preparations, reactions and properties of Monohalogen and
	Dihalogen derivatives of Alkane.
	• Understand the preparations, reactions and properties of Alcohol, Ether and Epoxide.
CH-202: Organic and Inorganic	• Understand the preparations and reactions of carbonyl group.
Chemistry-II	• Understand the preparation of carboxylic acids.
	• Determine the Molecular weight, formula weight, equivalent weight of organic compounds.
	• Understand the Electronic structures, size of atoms and ions, ionization energy, metallic and nonmetallic of p block elements.
	• Handle viscometer to determine the viscosity and relative viscosity of liquids .
	• Carry out quantitative analysis by instrumental method using Conductometer.
CH-203: Chemistry Practical-II	• Estimate of aniline / phenol.
	 Perform qualitative analysis of organic compounds.
	Carry out quantitative analysis by volumetric method and gravimetric methods

SYBSc CBCS (Chemistry Courses)

Course	Outcomes Students are able to
	Semester – III
	Understand the properties of solution
	• Understand concept of and application of colligative properties
CH 301: Physical	Understand concept of vapor pressure of liquids
and Inorganic	 Learn about the D-block elements and its properties in periodic table
Chemistry(Core	Understand the concept of physical properties of metals
Course)	• Learn about standard electrode potential and magnetic properties of elements
	• Review the concept of isomers and discuss the isomer which results from free rotation of C-C single bond, from a chirallity, from restricted rotation, R, S and E, Z nomenclature
CH 302: Organic	 Study of heterocyclic and polycyclic aromatic compounds
and Inorganic	• Study of donar and acceptor properties.
Chemistry(Core	• Understand the concept of molten salts, solvents for electrochemical reactions, purity of solvents
Course)	• Know the importance of differentiating and leveling solvents.
	• Learn about the co-solvating agents.
	• Learn the concept of soft and hard acid and bases
	• Understand the technique and process of physical chemistry experiment
	• Understand the use/application of volumetric titration
CH 303: Practical Chemistry	Use of chromatography in sample analysis
	Carryout the preparation of organic compounds (derivatives)

Ch-304 Basic Analytical	• Understand the concept of analytical chemistry
Chemistry (Skill Enhancement Course)	• Understand Good laboratory practices: Material Safety Data Sheet (MSDS), fire safety, Handling of chemicals
SEC-I	Know about titration method use for analysis
	• Understand the concept and application of Acid-Base titration
	• Understand the concept and application of precipitation titration
	• Understand the concept of Chromatography and its application in analytical chemistry
	Semester - IV
	• Understand the concept of electrochemistry
CH 401: Physical	• Understand concept of chemical thermodynamics and its use
and Inorganic	Understand about basic concept of co-ordination chemistry
Chemistry(Core	• Understand the general properties of metals
Course)	Understand about type and application of Semiconductor
	• Understand the concept and application of synthetic reagents
CH 402: Organic	• Understand the synthesis of synthetic reagents and their synthetic utility
and Inorganic	• Know the concept of organometallic compounds and its use in synthesis
Chemistry(Core	• Understand the concept of Molecular Orbital Theory (MOT)
Course)	• Understand the use of molecular orbital treatment for Homo and Hetero nuclear diatomic species
	• Understand the technique and process of physical chemistry experiment
	Carry out qualitative analysis of organic compounds
CH 403: Practical Chemistry	Determine critical solution temperature
	Perform gravimetric analysis
	Preparation of inorganic compounds synthetically in the laboratory
CH 404: Advanced Analytical	• Understand the concept and application of redox titration
CH 404: Advanced Analytical Chemistry (Skill	• Understand the concept and application of complex metric titration
Enhancement Course) SEC-II	• Understand the concept and application of gravimetric analysis

		Sem-V
TYBSc	Course	Outcomes
	CH-501 Principles	Understand the significance of wave function and postulates of quantum mechanics.
	of Physical	Deduce rate equations and half-life equations for first and second
	Chemistry-	order reactions.
	Ι	Draw and explain the one and two component system phase
		diagrams.
		Explain the principles of electrode processes and apply them during
		practical.
	CH-502	Learn about the VSEPR theory and how it can be used to explain
	Inorganic Chemistry	molecular shapes.
		Learn about the VBT to describe the formation of covalent bonds in
		terms of atomic orbital overlap.
		Learn about stability of complexes using CFSE.
		Learn about MOT to draw energy diagrams and to predict bond order.
	CH-503	Students will learn organic reactions like nucleophilic
	Organic Reaction	substitution, electrophilic substitution, nucleophilic addition,
	Mechanism	electrophilic
		addition and elimination.
		Students will be able to write/ explain mechanisms of those types of reactions.
		Students will understand how a reaction takes place in one or more
		steps.
		Students will understand the types of intermediates formed in
		different reactions.
		Students will learn how reagent attacks the substrate molecule and
		accordingly how bonds break and formed.
		Students will learn how change in structure of substrate, reagent and
		solvent changes the product formed and its stereochemistry.
		Students will be able to predict the products and to suggest the
	CH-504	mechanisms.
	Industrial Chemistry	Basic requirements of Chemical Industry, different terms, operations and processes involved in chemical Industry.
	industrial Chemistry	Describe Copy Right Act, Patent Act and Trade Marks, Bureau
		of Indian Standards (BIS) and International Organization for
		Standardization (ISO).
		Basic requirements, raw materials, different processes and
		operations involved in Sugar Industry and also different grades of
		sugar
		and uses of by-products of sugar industry.
		Importance of fermented products, basic requirements, theory and process of alcohol making, fractional distillation and various
		terms involved in Fermentation Industry.
		Understand Occurrence of Petroleum, theories of formation of
		Petroleum and different terms Viz. Knocking, Anti-Knock
		Compounds, Octane number, Cetane number, Gasohol and Power
		alcohol etc.
		Manufacturing processes involved in Industrial Organic Synthesis
		such as Methanol, Isopropanol, Glycerol, Acetylene and Aromatic
	CII 505	hydrocarbon i.e. Toluene from petroleum with their uses.
	CH-505 A polytical	Explain the fundamentals of analytical methods and instruments for qualitative and quantitative Analysis.
	Analytical Instrumentation	Express the role of analytical chemistry in science.
		Express the role of untryfical chemistry in science.

	-
	Students will be able to function as a member of an interdisciplinaryproblem solving team.
CH-506(A) Biachamiatar	Students will study biomolecules like carbohydrates, amino acids,
Biochemistry	proteins, enzymes, lipids and nucleic acids.
	Students will understand definitions, classifications and examples of these biomolecules.
	Students will learn the detailed structure of these biomolecules alor
	with types of bonds or linkages present in their molecules.
	Students will learn the chemical properties of these biomolecules
	and the action of some reagents on them in the form of reactions of
	graphical presentation.
	Students will understand biochemical energetics of common energy
	rich compounds along with hydrolytic reactions.
	Students will learn metabolisms like Glycolysis, TCA cycle,
	Transamination, deamination and B- oxidation through reactions
	enzymes involved, outlines and energetics.
CH-506(B)	With this course, the graduate students will be able to understand
Green Chemistry	the twelve principles of green chemistry that will help to build the
	basic understanding of toxicity, hazards and risk of chemical
	substances.
	The course will help to understand stoichiometric calculations and
	relate them to green chemistry metrics. The students will learn
	about atom economy and understand its importance over percentag
	yield.
	The students will learn to design safer chemicals, products and
	processes that are less toxic than the conventional chemistry,
	understand significance of catalysis, use of renewable feed stock,
	renewable energy sources, importance of green solvents, etc. The course will train the students to appreciate green chemistry and
	boost the students to think and develop the skills to innovate and
	search for the solutions to environmental problems.
	Green chemistry is only way of future chemistry to ensure
	sustainability with absolute zero waste. The success stories and
	real-
	world cases will motivate the young generation to practice green
	chemistry.
CH-507	Students will get basic analytical and technical skills to work
Physical Chemistry	effectively in the various fields of chemistry.
Practical	Students will able to calibrate and handle instruments like
	conductometer, potentiometer, pH meter, colorimeter,
	spectrophotometer, polarimeter.
	<u>A</u>
	They have ability to perform accurate quantitative measurements with an understanding of the theory and use of contemporary
	chemical instrumentation, interpret experimental results, perform
	chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate
	chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions.
	chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of
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	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for
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Inorganic Chemistry	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for analysis and measurement. Student will able to determine cation& anion from inorganic mixtures by using qualitative analysis.
CH-508 Inorganic Chemistry Practical	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for analysis and measurement. Student will able to determine cation& anion from inorganic
Inorganic Chemistry	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for analysis and measurement. Student will able to determine cation& anion from inorganic mixtures by using qualitative analysis. Student will able to determine metal from ore & alloys.
Inorganic Chemistry	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for analysis and measurement. Student will able to determine cation& anion from inorganic mixtures by using qualitative analysis. Student will able to determine metal from ore & alloys.
Inorganic Chemistry	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for analysis and measurement. Student will able to determine cation& anion from inorganic mixtures by using qualitative analysis. Student will able to determine metal from ore & alloys. Students will be able to design & carry out scientific experiments a
Inorganic Chemistry	 chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions. They get skills required in chemistry such as the proper handling of apparatus and chemicals. They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetery techniques for analysis and measurement. Student will able to determine cation& anion from inorganic mixtures by using qualitative analysis. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments.

	Organic Chemistry	Separate and analyze binary water-soluble mixture.
	Practical	Estimate - Acetamide, Glucose and Glycine by volumetric method.
		Estimate basicity of various acids.
		Synthesis of various organic compounds through greener
		alternatives.
		Understand Thin Layer Chromatographic techniques and physical
		constant.
TYBSc	SEM VI	
	CH-601	Analyze the rotational spectra of diatomic molecules and determine
	Principles	the bond length.
	of Physical	Explain and apply the radioactivity principles for various chemical
	Chemistry-	and biological investigations.
	II	Describe the mechanism of fluorescence, phosphorescence and photochemical reactions.
		Analyze the given crystal structure and determine the indices of
		planes, inter-planer distances and type of crystal structure.
	CH-602	Learn about basic principles and synthesis of nanomaterials.
	Chemistry of	Learn about classification, composition and processing of cement.
	Inorganic Solids	Learn about classification and composition of alloys.
		Learn about types manufacture and applications of fertilizers.
	CH-603	Students will learn interaction of radiations with matter. They will
	Spectroscopic	understand different regions of electromagnetic radiations. They
	Methods of	will know different wave parameters.
	Structure	Students will learn principle of mass spectroscopy, its
	Determination	instrumentation and nature of mass spectrum.
		Students will learn principle of mass spectroscopy, its
		instrumentation and nature of mass spectrum.
		Students will understand principle of UV spectroscopy and nature of
		UV spectrum. They will learn types of electronic excitations.
		Students will be able to calculate maximum wavelength for any conjugated system. And from the value of λ -max they will be able to
		find out extent of conjugation in the compound.
		Students will understand principle of IR spectroscopy, types of
		vibrations and the nature of IR spectrum.
		From IR spectrum, they will be able to find out IR frequencies of
		different functional groups. And thus, they will be able to find out
		functional groups present in the compound.
		Students will understand principle of NMR spectroscopy and will
		understand various terms used in NMR spectroscopy. They will
		learn measurement of chemical shift and coupling constants. Students will be able to interpret the NMR data and they will be able
		to use it for determination of structure of organic compound.
		Students will be able to determine structure of simple organic
		compounds on the basis of spectral data such as λ max values, IR
		frequencies, chemical shift (d values).
	CH-604	Describe the industrial production of a number of important organic
	Chemistry of	and inorganic compounds / chemicals and products of end use.
	Industrially	Gain comprehensive knowledge of cutting-edge developments in a
	Important Des du sta	field of different chemical industries.
	Products	Importance of Cosmetics Industry and a general study including
		preparation and uses of the Hair dye, hair spray, shampoo, suntan

	lotions, lipsticks, talcum powder, nail enamel, creams (cold, and shaving creams).
	Perfumes and identify the distinguishing features of its
	components and also an essential oils and their importance in
	cosmeticindustries with reference to Eugenol, Geraniol,
	sandalwood oil, eucalyptus, rose oil, 2-phenyl ethyl alcohol,
	Jasmone, Civetone,
	Muscone etc.
	Know about pesticides both natural and synthetic, benefits and
	adverse effects of it, also synthesis, manufacture and uses of
	pesticides viz. Organochlorines (DDT, Gammexene,);
	Organophosphates (Malathion, Parathion); Anilides (Alachlor and
	Butachlor).
	Definition, classification, raw material used in soaps and
	detergents, reaction involved in it, Manufacture of Soaps and
	cleansing
	action of soaps and detergents.
	Definition, properties of good dyes, relation between colour an
	constitution, classification of dyes according to their mode of
	application and chemical constitution.
	Importance"s, definition and meaning of the different terms
	involved in Drugs and Pharmaceuticals Industry and also synthesis,
	uses, properties and industrial manufacture of Paracetamol, Aspir
	and Chloramphenicol.
CH-605	Compare the Instrumental methods and non instrumental methods
Analytical Techniques	
,	Solve the problem of detection and separation using analytical
	instruments.
	Students will be able to explore new areas of research in both
	chemistry and allied fields of science and technology.
	Students will be able to explain why chemistry is an integral activ
	for addressing social, economic, and environmental problems.
CH-606(A)	Define terms like monomer, polymer, polymerization,
Polymer Chemistry	polydispersity index, etc., classify polymers based on their orig
	native
	backbone chain, and thermal response. Know glass transition temperature and its determination, various
	ways to express molecular weights of polymers and polydispersit
	index.
	Identify different mechanisms of polymerizations <i>viz</i> . free radical
	ionic, and condensation polymerizations.
	Distinguish techniques of polymerization based on physical
	Distinguish techniques of polymerization based on physical
	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry.
	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of
	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborator or industry. Familiar with preparation, properties, and applications of industrially important selected polymers.
	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods and
Research	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods an impact of chemical research on society through pure and applied
Research Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods an impact of chemical research on society through pure and applie research.
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Research	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods an impact of chemical research on society through pure and applie research. Students will learn how to analyze research in chemistry drawn fn contemporary primary chemical literature.
Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborator or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods and impact of chemical research on society through pure and applied research. Students will learn how to analyze research in chemistry drawn fr contemporary primary chemical literature. Student will formulate thesis topic, explain its significance and
Research Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods and impact of chemical research on society through pure and applied research. Students will learn how to analyze research in chemistry drawn fr contemporary primary chemical literature. Student will formulate thesis topic, explain its significance and propose the methodology to be used in the thesis topic research.
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Research Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods an impact of chemical research on society through pure and applie research. Students will learn how to analyze research in chemistry drawn fn contemporary primary chemical literature. Student will formulate thesis topic, explain its significance and propose the methodology to be used in the thesis topic research. Student will demonstrate proficiency in scientific writing which includes: o Ability to interpret and synthesize primary research literature related to the student's thesis topic.
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Research Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods an impact of chemical research on society through pure and applie research. Students will learn how to analyze research in chemistry drawn fr contemporary primary chemical literature. Student will formulate thesis topic, explain its significance and propose the methodology to be used in the thesis topic research. Student will demonstrate proficiency in scientific writing which includes: o Ability to interpret and synthesize primary research literature related to the student's thesis topic. o Ability to write a coherent narrative that explains the significance of the thesis research with regard to the primary researchliterature.
Research Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborato or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods and impact of chemical research on society through pure and applier research. Students will learn how to analyze research in chemistry drawn fr contemporary primary chemical literature. Student will formulate thesis topic, explain its significance and propose the methodology to be used in the thesis topic research. Student will demonstrate proficiency in scientific writing which includes: o Ability to interpret and synthesize primary research literature related to the student's thesis topic. o Ability to write a coherent narrative that explains the significance of the thesis research with regard to the primary researchliterature. o Ability to report original research results in a coherent narrative o Ability to explain and defend conclusions draw from original results in narrative form.
Research Methodology for	Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laborator or industry. Familiar with preparation, properties, and applications of industrially important selected polymers. Students will learn about what is research, research methods and impact of chemical research on society through pure and applied research. Students will learn how to analyze research in chemistry drawn fr contemporary primary chemical literature. Student will formulate thesis topic, explain its significance and propose the methodology to be used in the thesis topic research. Student will demonstrate proficiency in scientific writing which includes: o Ability to interpret and synthesize primary research literature related to the student's thesis topic. o Ability to write a coherent narrative that explains the significance of the thesis research with regard to the primary researchliterature. o Ability to report original research results in a coherent narrative o Ability to explain and defend conclusions draw from original

	Students will be able to design and carry out scientific
	experiments as well as accurately record and analyze the results
	of such
	experiments.
	Students will be skilled in problem solving, critical thinking and
	analytical reasoning as applied to scientific problems.
	Students will be able to communicate the results of scientific work
	in oral, written and electronic formats.
	Students will appreciate the central role of chemistry in our
	society and use this as a basis for ethical behaviour in issues
	facingchemists including an understanding of safe handling of
	chemicals, environmental issues and key issues facing our
	society in
	energy, health and medicine.
CH-607	Students will get basic analytical and technical skills to work
Physical Chemistry	effectively in the various fields of chemistry.
Practical	Students will able to calibrate and handle instruments like
	conductometer, potentiometer, pH meter, colorimeter,
	spectrophotometer, polarimeter.
	They have ability to perform accurate quantitative measurement
	with an understanding of the theory and use of contemporary
	chemical instrumentation, interpret experimental results, perform
	calculations on these results and draw reasonable, accurate
	conclusions.
	They get skills required in chemistry such as the proper handling o
	apparatus and chemicals.
	They will have ability to present scientific and technical
	information resulting from laboratory experimentation in both
	written and
	oral formats.
	Students will apply conductometer, potentiometer, pH meter,
	colorimeter, spectrophotometer, polarimetery techniques for
	colorimeter, spectrophotometer, polarimetery techniques for analysis
CH-608	analysis
CH-608 Inorganic Chemistry	analysis and measurement. Students will be able to prepare co-ordination compounds.
	analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using
Inorganic Chemistry	analysis and measurement. Students will be able to prepare co-ordination compounds.
Inorganic Chemistry	analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal.
Inorganic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments and statements.
Inorganic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments.
Inorganic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activities
Inorganic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems.
Inorganic Chemistry Practical	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry.
Inorganic Chemistry Practical CH-609	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture.
Inorganic Chemistry Practical CH-609 Organic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture.
Inorganic Chemistry Practical CH-609	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture.
Inorganic Chemistry Practical CH-609 Organic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture.
Inorganic Chemistry Practical CH-609 Organic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture. Estimate - Acetamide, Glucose and Glycine by volumetric method Estimate basicity of various acids.
Inorganic Chemistry Practical CH-609 Organic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture. Estimate - Acetamide, Glucose and Glycine by volumetric method
Inorganic Chemistry Practical CH-609 Organic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture. Estimate - Acetamide, Glucose and Glycine by volumetric method Estimate basicity of various acids. Synthesis of various organic compounds through greener alternatives.
Inorganic Chemistry Practical CH-609 Organic Chemistry	 analysis and measurement. Students will be able to prepare co-ordination compounds. Students will be able to determine amount of metal by using quantitative analysis. Students will be able to calculate Rf value of metal. Students will be able to design & carry out scientific experiments a well as accurately record & analyze the results of experiments. Students will be able to explain why chemistry is an integral activit for addressing social, economic & environmental problems. Understand the purification technique use in organic chemistry. Separate and analyze binary water insoluble mixture. Separate and analyze binary water soluble mixture. Estimate - Acetamide, Glucose and Glycine by volumetric method Estimate basicity of various acids. Synthesis of various organic compounds through greener

MSc (Organic Chemistry Courses)

Class	Course	Outcome
M. Sc. I	SEM – I	
	CH-110: Physical Chemistry – I	Apply the quantum mechanical principles to simple systems of chemical interests
		Differentiate between the nature of chemical bond concept from MOT and VBT
		To identify and write the different types of equilibriums in a given nuclear decay process
		To explain the concept of Radiation dose measurement and its practical applications
		To be able to calculate the ionic strength and activity coefficients by using the basic concepts underlying.
	CH-130: Inorganic Chemistry – I	Apply the fundamental knowledge about the synthesis, structure, bonding and properties of some selected main group elements which are very important in different fields.
		Apply fundamental knowledge about molecular symmetry, MOT, organometallic compounds, ionic solids and bioinorganic compounds.
		Explain various concepts and theories of various topics from inorganic chemistry.
	CH-150: Organic Chemistry – I	Apply the fundamental concepts of organic reaction mechanism in theoretical and practical work, may be in academic, research laboratories, and industries.
		Understand the importance and types of organic reactions and their applications.
		Acquire knowledge of important characteristics of organic compounds.
	CH-190: Industrial	Understand the importance of laboratory safety.
	Safety and Good	Aware and follow healthy laboratory practices.
	Laboratory Practices	Acquire the knowledge about personal protective equipment.
	CH-P-1 (A): Physical	Students will understand the preparation for each experiment.
	ChemistryPractical – I	Setup and standardize the potentiometer, P ^H meter and conductometer.
		Identify thermodynamics and kinetics of simple systems.
		To know Safety requirements and lab skills to perform physico- chemical experiments.
		To apply the principles and techniques to different systems.
	CH-I-1 (A): Inorganic	Students will understand the process of over analysis.
	ChemistryPractical-I	Students able to apply their knowledge for binary mixture separation of inorganic compounds using quantitative analysis
		Students can analyze contents present in drug
		Students able to evaluate the lattice energy of binary salt
	CH-O-1 (A): Organic ChemistryPractical-I	Students understand the important of safety techniques and handling of chemicals.
		Students are made aware of carrying out different types of reactions and their workup methods.

	Students are able to apply their knowledge for development of experiment involve green chemistry.
	Students able to perform purification techniques in organic chemistry like recrystallization, distillation, steam distillation and
	extraction.
AC-101: Practicing	Identify need at of cleanliness at home/office and other public
Cleanliness	places.
	Plan and observe cleanliness programs at home and other places.
	Practice cleanliness practices in day to day life.
CH - 210: Physical	Students will gain an understanding of Joule-Thomson effect, third
Chemistry – II	law of thermodynamics, absolute entropy, standard entropy
	and residual entropy and partial molar quantity and its significance
	Students should understand the importance of statistical
	thermodynamics and concept of partition functions.
	Students should able to understand core study of chemical kinetics
	and spectroscopy.
CH - 230: Inorganic	Understand the concept of microstates, spectroscopic terms and
Chemistry –II	orgel diagram of inorganic compounds.
	Gain knowledge about magnetic properties and charged transfer
	spectra of transition metal complexes.
	Students are able to analyze structure reactivity and reaction
	mechanisms of metal complexes.
CH - 250: Organic	Students will learn the basic name reactions and rearrangement
Chemistry – II	reactions.
	Students will understand the applications of reagents in organic
	synthesis.
	Students will apply the basic knowledge about core study of
CII 000	spectroscopy and stereochemistry
CH - 290:	Explain various theoretical concepts of analytical chemistry.
Instrumentation andAnalysis	Build up ability to solve the numerical problems.
anuAnaiysis	Apply theoretical principles, working of various classical and
	modern instrumentation techniques.
CH-P-1 (B): Physical	Students will understand the preparation for each experiment.
ChemistryPractical	Setup and standardize the potentiometer, P ^H meter and
– II	conductometer.
	Identify thermodynamics and kinetics of simple systems.
	To know Safety requirements and lab skills to perform physico-
	chemical experiments.
	To apply the principles and techniques to different systems.
	i o uppij nie principies and teeninques to anterent systems.
CH-I-1 (B): Inorganic	
	Students are able to synthesize and evaluate the complex and also able to determination of complex purity.
ChemistryPractical-	Students are able to synthesize and evaluate the complex and also
ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity.
ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis
ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis techniques.
ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis
ChemistryPractical- II	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis techniques. Students able to perform estimation of inorganic compounds. Students are trained to different purification techniques in organic
ChemistryPractical- II CH-O-1 (B): Organic ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis techniques. Students able to perform estimation of inorganic compounds. Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation
ChemistryPractical- II CH-O-1 (B): Organic ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis techniques. Students able to perform estimation of inorganic compounds. Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction.
CH-I-1 (B): Inorganic ChemistryPractical- II CH-O-1 (B): Organic ChemistryPractical- II	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis techniques. Students able to perform estimation of inorganic compounds. Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction. Students are made aware of safety techniques and handling of
ChemistryPractical- II CH-O-1 (B): Organic ChemistryPractical-	Students are able to synthesize and evaluate the complex and also able to determination of complex purity. Students understand the techniques of chromatography and its application in analysis. Students able to handle and perform the instrumental analysis techniques. Students able to perform estimation of inorganic compounds. Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction.

	AC-201(A): Soft Skills AC-201(B): Practicing Sports Activities AC-201(C): Practicing Yoga AC-201(D):		This practical course is designed to make student aware of green
			chemistry and role of green chemistry in pollution reduction.
А			
			Students are aware about the use of soft skills in the personal and professional development.
			Aware about various sports and its importance in physical strength
			development.
А			Develop interest in various sports.
			Students are motivated towards sports and provide them required training.
			Students are motivated towards yoga and provide them required training.
			Students are motivated towards Indian music and provide them minimum required training.
I	ndian Musi	c	Identify different types of Indian music.
			Develop more interest to learn and practice Indian music.
Semester]	III		
		Compare	the major and minor product of variety of organic reaction.
		·	nd accepted mechanism of organic reaction including all intermediates
		• Solve the problems on Taft and Hammet constant.	
CH-350: Organic	Reaction		nd Concave upward and downward deviation.
Mechanism			type"s hydrolysis of ester.
			blems on Anchimetric assisted reaction.
		-	nd principle and instrumentation of 1H NMR, 13 C NMR and Mass
CH-351:		spectrosc	opy.
Spectroscopic		 Investigation 	te structures on these techniques.
Methods in Struc	cture	• Resolve s	tructure of organic compounds by 2D NMR techniques.
Determination			eaction sequences by using spectroscopic technique.
Understand the basic concepts of stereo chemistry		nd the basic concepts of stereo chemistry	
			ructure of organic molecules.
		learn Three dimensional structure of cyclic and acyclic compounds	
CH-352: Organic	2	• Use selectivity of reagents for chemical reactions.	
Stereochemistry		• Compare the major and minor product of asymmetric synthesis.	
		• Solve the examples on ORD and CD.	
			nd term quantum yield, and electronic states and transitions in molecules.
			nd Norrish-I and Norrish-II cleavages, Paterno-Buchi reaction.
CH-353: Free rad	ical,		nd Photochemistry of olefins and arenes: 1, 2-, 1, 3- and 1, 4- additions.
photochemistry,			nd free radical reaction contain Halogen, Sulphur, and, Selenium Group
transfer re		transfer re	eaction.
their application		• Understan	nd selection rule for thermal and photochemical reactions.

	• Understand Frontier molecular orbital approach [FMO] and Aromatic transition state
	approach according to Huckel and Mobius system.
Semester- IV	
	Know concept of biogenesis of natural products.
	• Classify sources of various vitamins.
	• Learn biological importance of vitamins B1, B2, B6, folic acid, B12, C, D1, E, K1, and
CH-450: Chemistry of	K
Natural Products	• Understand and apply the role of enzyme in reactions.
	Synthesize natural organic compounds by chemical methods.
	Learn the stereochemistry of natural product.
	• Understand Transition metal complexes in organic synthesis, Grubb"s catalyst, Ziegler
	Natta catalyst.
	Design the organic compounds by use of synthetic reagents
CH-451: Synthetic Methods	Understanding role of Umpolung in organic synthesis.
in Organic Chemistry	• Understanding Protection and deprotection in the synthesis of polypeptide and
	polynucleotide.
	• Know basic principles of green chemistry and design green synthesis.
	• Use ecofrindly green reagents, solvents, catalysts and reaction conditions.
	• Know the main synthetic routes and reactivity for variety of heterocyclic compounds
	and applications.
CH-452: Heterocyclic	• Understand Important Terms –Receptor, therapeutic index, bioavailability, Drug assay
chemistry, Chiron approach	and Drug Potency used in medicinal chemistry.
and chiral drugs	• Understand Structure of triose, Pentose, hexose, Stereochemistry and reaction of
	Glucose. • Understand Synthesis and Pharmacological activity of S-Ibuprofin, S-Metaprolol, (+)
	Ephedrime
	• Understand basic Pharmacokinetics of drugs, anti Microbial drugs, Antifungal,
	Antibacterial, antiviral, antiprotozoals.
	Separate organic compounds in different phases.
	• Perform qualitative test to analyze functional group of organic compounds.
CH-O-2: Organic	• Learn distillation technique.
Preparation Practical	• Detect elements N, S, and X in organic compounds.
	• Use purification techniques of organic compounds .
	• Perform three stage preparation.
	Draw the reaction mechanism.
CH O 3. Three Store	Purify the organic compounds by crystallization.
CH -O-3: Three Stage Preparations	
	Perform chromatographic technique to check completion of reaction.
	Apply the knowledge about different reaction conditions.
	• Survey literature for the topic of the project.
	• Learn to apply reaction conditions for synthesis, isolation of product and give
CH-O-4: Short Research	mechanism.Handle instruments for analysis and discuss their experiment al results.
Project	
	• Used ICT tools to prepare project reports and present it using Power point presentation.
	• Work within a small team to achieve a common research goal.

Department of Commerce

Class	Departme	
Class	Course	Outcomes (Students will be able to)
	3	
F.Y.B.Com	104 Financial	To lay a foundation for understanding the Accounting
Sem –I &	Accounting and	Standards issued by the ICAI.
Sem – II	Costing	To lay down a theoretical foundation for the recording of
	costing	financial transactions concerning specialized area related to
		Non-corporate entities and for preparing the related accounts
		or statements.
		To gain the ability to solve problems relating to settlement of
		obligations on dissolution of partnership firm and also
		relating to their business combinations
		To introduce the concepts used in Cost Accounting, elements
		of costs and the concept of cost sheet. To lay a foundation for the preparations of financial statements
		from incomplete record.
		To lay a foundation for understanding the Accounting
		procedure for Material cost and price methods.
	105 Computing Skills	To familiarize the Students with basics of Internet.
	The computing similar	To understand the use of Office application.
		To know the role of word processor, Spread sheet, presentation
		in industry.
		To understand the how of accounting software works.
		To know the relevance of Tally accounting package in modern
		competitive world.
	106 a - Elective -	To understand the concept of office management.
	Modern office	To acquire operational skills of office management.
	Management	To develop the interest in methods and procedures of office
	Management	management.
		To know the secretarial procedure.
		To understand office layout and environment in modern
		context.
		To acquire the basic knowledge of office appliances and
		machines.
		To understand office system.
		To acquire knowledge of office meetings and proceedings.
	107 a - Elective-	Knowledge of evolution of banking.
	Principles & Practices	To enlighten the students with Introduction of banking concept and
	of Banking-I	dynamic services
		Understanding structure of Indian Banking
		Understanding primary and secondary functions of a bank.
		Understanding the concepts related to lending and ratios.
		Understanding the process of opening and operating procedure of
		bank accounts.
		Understanding various types of bank accounts holders
		Understanding various methods of remittance.
	107 c - Elective -	To create awareness about marketing & advertising
	Marketing &	To understand basic concepts of marketing & advertising
	Advertising	To establish link between business and marketing &
		advertising
		To know the relevance of marketing & advertising in modern
		competitive world
		To develop an analytical ability to plan for various
ļ		marketing& advertising strategy.
	204 Financial	To lay a foundation for understanding the Accounting
	A accounting and	Standards issued by the ICAI.
	Accounting and	To low down a the constinuit from 1 for 1 for 1
	Costing	To lay down a theoretical foundation for the recording of financial transactions concerning specialized area related to
	e	financial transactions concerning specialized area related to
	e	financial transactions concerning specialized area related to Non-corporate entities and for preparing the related accounts
	e	financial transactions concerning specialized area related to Non-corporate entities and for preparing the related accounts or statements.
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	e	financial transactions concerning specialized area related to Non-corporate entities and for preparing the related accounts or statements. To gain the ability to solve problems relating to settlement of obligations on dissolution of partnership firm and also

		To lay a foundation for the preparations of financial statements
		from incomplete record.
		To lay a foundation for understanding the Accounting
	205 Quantitativa	procedure for Material cost and price methods.
	205 Quantitative Technique	To train students in quantitative techniques.
	rechnique	To prepare students for logical and data presentation and analysis
		aspects.
		Students will be able to understand essential quantitative techniques
		Students will be ready with Data Presentation and Data Analysis Skills
	206 a - Elective -	To understand the concept of office management.
	Modern Office	To acquire operational skills of office management.
	Management	To develop the interest in methods and procedures of office
	1 uningeniene	management.
		To know the secretarial procedure.
		To understand office layout and environment in modern
		context.
		To acquire the basic knowledge of office appliances and
		machines.
		To understand office system.
		To acquire knowledge of office meetings and proceedings.
	207 a - Elective-	Knowledge of evolution of banking.
	Principles & Practices	To enlighten the students with Introduction of banking concept and
	of Banking	dynamic services
		Understanding structure of Indian Banking
		Understanding primary and secondary functions of a bank.
		Understanding the concepts related to lending and ratios.
		Understanding the process of opening and operating procedure of
		bank accounts.
		Understanding various types of bank accounts holders
		Understanding various methods of remittance.
	207 c - Elective -	To create awareness about marketing & advertising
	Marketing &	To understand basic concepts of marketing & advertising
	Advertising	To establish link between business and marketing &
		advertising
		To know the relevance of marketing & advertising in modern
		competitive world
		To develop an analytical ability to plan for various
		marketing& advertising strategy.
SYBCOM	301Business Skill	Understand the significance and essence of a wide range of
Sem-III &		soft skills
Sem-IV		Learn how to apply soft skills in a wide range of routine social
		and professional settings.
		Learn how to employ soft skills to improve interpersonal
		relationships.
		Learn how to employ soft skills to enhance employability and
		ensure workplace and careersuccess.
		Draft legal documents including partnership deed & service
	Laws	tax returns.
		Understand the basic structure, rules & powers of consumer
		protection act.

	-
	To know the provision regarding strikes and lock outs under
	industrial dispute act.
	Be acquainted with development of patents and environment
	protection act.
	Students to gain a better underrating of the negotiable instrument act.
	Learn how to analysis the legal constraints on business.
	Be able to face the problems on various sides of Business and
	Tax Law.
304 Corporate	To acquaint the students with modern updated computerized
Accounting	accounting system and software.
	To develop an understanding of the rules of measurement and
	reporting relating to various components of corporate
	financial transactions.
	To provide working knowledge of accounting principles and
	procedures for recording oftransactions related to corporate
	entities.
	To provide working knowledge for preparing the corporate
	accounts and statements inaccordance with thestatutory
	requirements. Students will be able to handle issues related to corporate
	accounting.
305 Computing	Demonstrate a basic understanding of computer hardware and
Management	software.
8	Demonstrate problem-solving skills.
	Apply logical skills to programming in a variety of languages
	Utilize web technologies.
	Present conclusions effectively, orally, and in writing.
	Demonstrate basic understanding of network principles.
	Working effectively in teams.
	Apply the skills that are the focus of this program to business
	scenarios.
Paper : 306 a –	to understand different methods to assess the attractiveness of
Business	business opportunities
Enterpreneurship	to understand what characterizes an attractive business
	opportunity and common pitfalls during the entrepreneurial
	to products or services to market
	to understand different methods that can be used to minimize
	uncertainties at different stages of
	the entrepreneurial process
	to understand the dynamics of how teams develop and
	function as well as the various types of
	conflicts that can arise during teamwork
	1.Explain the various functions of money, and how money has
Banking & Financial	evolved over time.
System	2. Show that modern banking systems include both privately owne commercial banks and government-owned central banks.
	3. Explain how commercial banks create money through the proce
	of taking deposits and making loans.
	4. List what is included in the various measures of the money
	4. List what is included in the various measures of the money
	supply.
307 (c) – Retail	supply.
	supply.
	supply. Explain the central role of retail in industrialised societies, an the impact of key market/retail trends upon this sector in the local and global contexts.
	supply. Explain the central role of retail in industrialised societies, and the impact of key market/retail trends upon this sector in the local and global contexts. Identify the key stakeholders and the roles/responsibilities of
	supply. Explain the central role of retail in industrialised societies, ar the impact of key market/retail trends upon this sector in the local and global contexts. Identify the key stakeholders and the roles/responsibilities of retail towards these stakeholders
307 (c) – Retail Management	supply. Explain the central role of retail in industrialised societies, and the impact of key market/retail trends upon this sector in the local and global contexts. Identify the key stakeholders and the roles/responsibilities of retail towards these stakeholders Understand and apply appropriate frameworks to develop hig
	supply. Explain the central role of retail in industrialised societies, and the impact of key market/retail trends upon this sector in the local and global contexts. Identify the key stakeholders and the roles/responsibilities of retail towards these stakeholders Understand and apply appropriate frameworks to develop hig level retail marketing strategy, and identify
	supply. Explain the central role of retail in industrialised societies, and the impact of key market/retail trends upon this sector in the local and global contexts. Identify the key stakeholders and the roles/responsibilities of retail towards these stakeholders Understand and apply appropriate frameworks to develop hig level retail marketing strategy, and identify the role of marketing strategies in the building of brand equit
	supply. Explain the central role of retail in industrialised societies, an the impact of key market/retail trends upon this sector in the local and global contexts. Identify the key stakeholders and the roles/responsibilities of retail towards these stakeholders Understand and apply appropriate frameworks to develop hig

	merchandise mix, pricing, location and store- design,
	promotions, and store management - to improve the
	total customer experience and retailer market competitiveness.
	Interpret retail problems and be capable of critically evaluating
	and applying appropriate retail
	management models and theories to generate strategic and
	tactical solutions
	Analyse how retail managers can make informed strategic
	choices in relation to managing channel
	partners, retail form (online vs. bricks and
	mortar), global sourcing, and managing staff to improvestrategic outcomes.
401Business Skill	· · ·
401Business Skill	Understand the significance and essence of a wide range of sol skills
	Learn how to apply soft skills in a wide range of routine social
	and professional settings.
	Learn how to employ soft skills to improve interpersonal
	relationships.
	Learn how to employ soft skills to enhance employability and
	ensure workplace and career
	success.
	Describe the legal system and the legal environment of busine
Laws	Describe the relationship of ethics and law in business.
	Define relevant legal terms in business.
	Explain basic principles of law that apply to business and
	business transactions.
	Describe business law in the Indian context.
	Describe current law, rules, and regulations related to settling
	business disputes.
	Understand different technical terminology used in this act
	Discussed and consult businesses on related issues of business
	laws
404 Corporate	A comprehensive understanding of the advanced issues in
Accounting	accounting for assets, liabilities and
	owner"s equity.
	The ability to account for a range of advanced financial
	accounting issues
	The ability to prepare consolidated accounts for a corporate
	group.
405Cost Accounting	Demonstrate a basic understanding of computer hardware and
	software.
	Demonstrate problem-solving skills.
	Apply logical skills to programming in a variety of languages.
	Utilize web technologies.
	Present conclusions effectively, orally, and in writing.
	Demonstrate basic understanding of network principles.
	Working effectively in teams.
	Apply the skills that are the focus of this program to business
	scenarios.
406(a)Business	to understand different methods to assess the attractiveness of
	business opportunities
Entrepreneurship	
Entrepreneurship	to understand what characterizes an attractive business
Entrepreneurship	to understand what characterizes an attractive business opportunity and common pitfalls during the entrepreneurial process

	1	
		to understand different methods that can be used to minimize uncertainties at different stages of
		the entrepreneurial process
		to understand the dynamics of how teams develop and function
		as well as the various types of
		conflicts that can arise during teamwork
	Paper: 407 (a) – Modern	1. To acquaint students with the new concepts of Banking.
	Banking and Financial	2. To update the students about new changes in Banking.
	System	3. To know the relevance Banking practices in modern competitive
		world.
		4. To make understandable of Banking operations.
	407 (c) – Retail	Explain the central role of retail in industrialised societies, and
	Management	the impact of key market/retail trends upon
		this sector in the local and global contexts.
		Identify the key stakeholders and the roles/responsibilities of
		retail towards these stakeholders
		Understand and apply appropriate frameworks to develop high
		level retail marketing strategy, and identify
		the role of marketing strategies in the building of brand equity
		and shareholder value in the retail industry
		Evaluate the implementation of marketing strategy through the
		retail mix – including product and merchandise mix, pricing,
		location and store- design, promotions, and store management -
		to improve the total customer experience and retailer market
		competitiveness.
		Interpret retail problems and be capable of critically evaluating
		and applying appropriate retail management models and theories
		to generate strategic and tactical solutions
		Analyze how retail managers can make informed strategic
		choices in relation to managing channel partners, retail form
		(online vs. bricks and mortar), global sourcing, and managing
T X 7		staff to improve strategic outcomes.
T.Y.	502 & 602	1) Understand the concept of Audit and its various types,
B.COM	-Principles of Auditing	2)Prepare and implement an audit programme,
Sem-V		3) Vouch the transactions recorded in the books of accounts of
& Sem-		an organisation,
VI		4) Verify the assets and liabilities, and 5) Mointain the necessary documentation in relation to the cudit
		5) Maintain the necessary documentation in relation to the audit,6)Understand the concept of Investigation, internal check and
		internal control,
		7) Understand the various provisions of the Companies Act,
		2013 in relation to the appointment of auditors, and their
		powers, duties and liabilities,
		8) Understand the manner of auditing the capital and borrowing
		raised by a limited company,
		9)Understand the contents of an audit report.
	503 & 603	Understand the contents of an addit report.
	- Business Management	concepts, principles and skills.
		• Learn how to apply Management concepts, principles and skills
		in business setting and improving businessenvironment.
		Learn how to employ Management skills to enhance
		employability and ensure workplace and career success
		• Understand the significance and essence of management
		concepts, principles and skills.
		• Learn how to apply management concepts, principles and
		skills in business setting and improving businessenvironment.
		Learn how to employ Management skills to enhance
		employability and ensure workplace and career success.

504 - Income Tax	1. Understand the various provisions relating to Income Tax
	2. Determine the basic concepts of the Income Tax Act 1961
	3. Describe the elementary knowledge of scheme of taxation in
	India
	4. Compute Income and Tax of an Individual assesse under the
	Act
	5. Utilize working knowledge with application skill.
604 - Goods & Services Tax (GST)	 To develop basic understanding of procedural aspects of Goods & Service Tax Law.
	 To provide overview of various provisions under GST Law. understand Registration under GST
	4. Know about how to Maintenance of Records and Input Tax
	Credit
	5. Understand about Offences and Penalties
505 a &	1. Students can know concepts, principles and practices of
605a-Human	HRM.
Resource Management	2. Familiar with concepts of HR Planning , job analysis, recruitment and selection.
management	3. Development in total personality of students as future
	human resource of India.
	4. Acquaint the knowledge of recent trends in HRM.
	5. Students have the knowledge of management development
	and training procedure to Human Resource.
	6. Students are familiar to the recent trends in Human
	Resource Management.7. Total Personality of students can be develop as a future
	Human Resource of India.
	8. Acquaint the knowledge of various dimensions of Human
	Resource Management.
	9. Familiar with work culture and discipline.
506a & 606a-:Advance	d 1. Understand the various concepts of Advanced Accounting
Accounting–I	2. Utilize working knowledge with application skill of Advanced Accounting.
	3. Preparing the Bank Companies Statements in accordance
	with the statutory requirements.
	4. Prepare Statements regarding Royalty Accounts and Insolvency Accounts.
	5. Understanding knowledge of Hire Purchase, Banking Companies and Farm Accounting.
	1. Understand the various concepts of Management Accounting
	2. Describe the elementary knowledge of Financial Statement
	Analysis and Interpretation.
	3. Utilize working knowledge with application skill of Management Accounting.
	4. Compute Ratio Analysis and Prepare Fund Flow and Cash Flow Statements.
	5. Understanding knowledge of Budget and Budgetary Control.

507 a & 607 a-	1. Understand the various concepts of Corporate Sector
Advanced Accounting –	Accounting.
II	Developing techniques of reconstruction of Companies financial statement.
	3. Preparing the Reconstructed Financial Statements.
	 Understanding knowledge of Liquidation of Companies Utilize working knowledge with application skill of Advanced Accounting.
	6. Understand the various concepts of Advanced Accounting
	7. Preparing the Government Accounts in accordance with the statutory requirements.
	8. Prepare Statements regarding Service Sector and Independent Branch.
	Understanding knowledge of Accounting of Educational Institution and Insurance Claim.

Department of Computer Science

Class	Course	Outcomes (Students will be able to)
FYBSc	CS 101 Basics of	Understand the History of Computers.
	Computer	Understand What is Computer and Basic concepts of computer.
		Aware about various types of Computers, types of input and outputdevices.
		Preparation of Algorithm and Flowchart of Program.
		• Learn computer networks, its types and basics ofInternet.
		• Understand computer viruses and itstypes.
	CS 103 LAB Course on Essential of	How LAN work in laboratory, Sharing of Computer and printer in Network
	Computer and C programming	Creation of an e-mail account, sending and receiving emails with attachment
		To Study various editors and perform program using standard input output Statements.
	CS 202 C Programming	• Design programs using Functions, Pointers, Structures and Unions in C language.
	Language- II	• Write a program using FileHandling.
		• Writing programs for drawing different graphicalshapes.

	CS-203 LAB Course on InternetComputing	On completion of the course, students are able to develop programs C
	and C Programming	To meet real world needs and able to develop their ownwebsites.
		This course provides platform
		To enhance student's basic skills required for advanced programming.
SYBSc	COMP 211 : Data	
51050	Structure-I	• Know what is data structure and basic algorithmic notations.
	Structure 1	• Analyse the time and space requirement of anyalgorithm.
		• Understand different linear data structures for conversion of
		mathematical expressions and polynomialrepresentations.Know the filestructures.
	COMP 212 :	
	OOAD &	Be familiar with Object Oriented ProgrammingEnvironment.
	Introduction to C++	• Differentiate between Structure oriented programming and object orientedprogramming.
		• Understand different object modelling techniques and analysis like
		Generalization, Aggregation and Metadata.
		• Write Reusable, Extensible and Robust programs inC++.
	CS SEC-I (Skill Enhancement Course- I)	To understand Software & Hardware Installation Skills.
	Software & Hardware Installation Skills	
	COMP 213: Practical Course	• On completion of the course, students are able to develop programs using C++ based on object oriented conceptsand
		write the ROBUST, EXTENSIBLE and EFFICIENT programs.
	COMP 221 : Data Structure – II	• Know different non-linear data structures that can be used to represent hierarchical relationship betweenobjects.
		• Traverse and represent the graphs in computer.
		• Understand the different approaches of sorting and searching elements in thearrays.
		• Understand different techniques of designing thealgorithms.
	COMP 222 :	• Explore polymorphism using Function and OperatorOverloading.
	Programming in	• Write programs for handling runtime errors using exception.
	C++	• Understand the concepts of pointers inC++.
		• Understand the different aspects of hierarchy of classes and
		theirextensibility.

	CS SEC-II (Skill	To understand objectives of Network Security.
	Enhancement Course- II)	
	Network Security	
		• On completion of the course, students are able to develop
	COMP 223 :	programs using C++ based on object oriented concepts and write
	Practical Course	the ROBUST, EXTENSIBLE and EFFICIENT programs.
Class	Course	Outcomes (After completion of this course, the students will be able to)
	SEM V	
T.Y.B.Sc	CS-501 System	Understand details about system software
	Programming	Students are familiar with language processing activities- function of translators, loader and linkers
		To do basic system program like development of editors lexical analyzers etc
	CS-502:	Solve real world problems using appropriate set, function, and
	Database	relational models.
	Management	Design E-R Model for given requirements and convert the same into database tables.
	System	Use SQL.
	CS-503	Students are able to perform the E-R Diagram, DFD, Data
	Software	dictionary, Decision tree about software.
	Engineering	They can also design the software in learned language using the
		Course content Get the knowledge of types of testing & how testing is performed
		in industry
	CS-504	Differentiate between interactive and non-interactive graphics.
	Com	Study line Drawing and Circle Drawing techniques and algorithm
	puter Aide	Perform 2D and 3D transformation on different images
	d	Know about detail working of 2D and 3D clipping and windowing
	Grap	
	hics CS – 505Python	Explain basic principles of Python programming language
	Programming - I	Construct and apply various filters for a specific task.
		Apply the best features of mathematics, engineering and natural
		sciences to program real life problems.
	CS-506B JAVA	Get knowledge of JDK environment
	Programming I	Explore polymorphism using method overloading and method overriding
		Understand the different aspects of hierarchy of classes and their extensibility
		Understands the concept of streams and files
		Write programs for handling run time errors using exceptions
I	CS-507	Explain basic principles of Python programming language
	LAB on Python	
	Programming – I	Construct and apply various filters for a specific task.
		Apply the best features of mathematics, engineering and natural
	CS-508:	sciences to program real life problems.
	Computer aided	Hands on of using standard graphics library
	Graphics	Hands on of implementation of DDA, Bresenham"sLine,Circle
		Drawing Algorithm
		Hands on of implementation of 2D Transformation: Translation,
		Scaling and Rotation
		Hands on of implementation of Cohen-Sutherland line clipping
		algorithm
	CS-509B : Lab on JAVA	Explore polymorphism using method overloading and method
		overriding

Programming I	Understand the different aspects of hierarchy of classes and their
-	extensibility
-	Understands the concept of streams and files
	Write programs for handling run time errors using exceptions
SEM-VI	
CS-601 : Operating	Students should familiar with Operating System Services.
System -	Understand CPU scheduling algorithms, memory Management
	Techniques, Disk Drum Scheduling algorithms,
	Deadlock preventions and avoidance.
	Introduction to android operating systems – its architecture,
	applications and uses.
CS-602	Design E-R Model for given requirements and convert the same into
:Relational Database	database tables.
Management	Use database techniques such as SQL & PL/SQL.
Systems	Explain transaction Management in relational database System.
	Use advanced database Programming concepts
CS-603 :Computer	Students understand the information exchange done across the
Network	network with the help of OSI & TCP/IP models.
-	Student understands how errors are captured & handled in network.
-	Understand the different aspects of hierarchy of classes and their
	extensibility
	Understands the concept of streams and files
-	Write programs for handling run time errors using exceptions
CS-507 LAB	
on Python	Explain basic principles of Python programming language
Programming	Construct and apply various filters for a specific task.
– I	Apply the best features of mathematics, engineering and natural
CC 500. LAD an	sciences to program real life problems.
CS-508: LAB on Computer Aided	Hands on of using standard graphics library
Graphics	Hands on of implementation of DDA, Bresenham"sLine,Circle
-	Drawing Algorithm
	Hands on of implementation of 2D Transformation: Translation,
-	Scaling and Rotation
	Hands on of implementation of Cohen-Sutherland line clipping
CG 500D L 1	algorithm
CS-509B : Lab on JAVA	Explore polymorphism using method overloading and method
Programming I	overriding
	Understand the different aspects of hierarchy of classes and their
-	extensibility
-	Understands the concept of streams and files
	Write programs for handling run time errors using exceptions
SEM-VI	
CS-601 : Operating	Students should familiar with Operating System Services.
System -	Understand CPU scheduling algorithms, memory Management
	Techniques, Disk Drum Scheduling algorithms,
	Deadlock preventions and avoidance.
	Introduction to android operating systems – its architecture,
	applications and uses.
CS-602	Design E-R Model for given requirements and convert the same into

:Relational Database	database tables.
Manageme	Use database techniques such as SQL & PL/SQL.
Systems	Explain transaction Management in relational database System.
	Use advanced database Programming concepts
CS-603 :Co Network	Students understand the information exchange done across the
Network	network with the help of OSI & TCP/IP models.
	Student understands how errors are captured & handled in network.

	Understand the different aspects of hierarchy of classes and thei extensibility
	Understands the concept of streams and files
	Write programs for handling run time errors using exceptions
CS-507 LAB	Explain basic principles of Python programming language
on Python Programming	Construct and apply various filters for a specific task.
– I	Apply the best features of mathematics, engineering and natural sciences to program real life problems.
CS-508: LAB on	Hands on of using standard graphics library
Computer Aided – Graphics	Hands on of implementation of DDA, Bresenham"sLine,Circle Drawing Algorithm
	Hands on of implementation of 2D Transformation: Translation Scaling and Rotation
	Hands on of implementation of Cohen-Sutherland line clipping algorithm
CS-509B : Lab on JAVA	Explore polymorphism using method overloading and method overriding
Programming- I	Understand the different aspects of hierarchy of classes and the extensibility
	Understands the concept of streams and files
	Write programs for handling run time errors using exceptions
SEM-VI	
CS-601 : Operating	Students should familiar with Operating System Services.
System –	Understand CPU scheduling algorithms, memory Management Techniques, Disk Drum Scheduling algorithms,
	Deadlock preventions and avoidance.
	Introduction to android operating systems – its architecture, applications and uses.
CS-602	Design E-R Model for given requirements and convert the same
:Relational	into database tables.
Database	Use database techniques such as SQL & PL/SQL.
Management	Explain transaction Management in relational database System.
Systems	Use advanced database Programming concepts
CS-603 :Computer	Students understand the information exchange done across the
Network	network with the help of OSI & TCP/IP models.
	Student understands how errors are captured & handled in network.

	Student understands various attack & its prevention techniques.
CS-604:	Understanding the use of Sets, Relations and Graphs.
Theoretical Computer	Understand Languages in TCS.
Science	Introduction of Regular Languages and Expressions.
	Understanding Pumping Lemma and its applications.
	Explore the knowledge of Pushdown Automata.
	Understanding Normal Forms with Examples.

	Understanding Turing Machine.
CS – 605	Explain basic principles of Python programming language
Python – Programming -	Implement object oriented concepts, database applications.
Π	Construct regular expressions for pattern matching and apply to to various filters for a specific task.
	Design and implement Database Application and Content providers.
	Apply the best features of mathematics, engineering and natura sciences to program real life problems.
CS-606B : JAVA	Program using graphical user interface with Swing classes
Programming II	Handle different kinds of events generated while handling GU components
	Create programs using menus and dialog boxes
-	Program to create applets
	Understand advanced java concepts like JDBC, Java Beans
CS-LAB-607 LAB on Python	Design and implement Database Application and Content providers.
Programming – II –	Apply the best features of mathematics, engineering and natura sciences to program real life problems.
	Implement object oriented concepts, database applications
CS-Lab 608): Lab on RDBMS	To use SQL & PL/SQL.
	To perform advanced database operations.
	Create database tables in postgreSQL
-	Write and execute simple, nested queries

Department of Economics

Class	Course	Outcomes
	Eco G-101 (A) Principles of Micro Economics-I	• Students will be aware about fundamental concepts of economics
		• Students will be able to understand economic approach& what is

		a utility of demand theory.
		Students will be able to know role of market in real life.
		• Student gets knowledge of cost and production to apply on ground.
	Eco G-201(A) Principles of	• Students will be aware about various forms of market
	Micro Economics-I	• What is a real competition in market and what to do company for
		market capturing" Too aware about concept of Rent, profit, Interest
SYBA	DSC Eco 231 C- (02) ** General Paper	• Students will be able to understand nature of Indian economy
		 Students will be able to understand population & economic development
		• Students will be able to understand infrastructure and economic development
		• Students will be able to understand role of agriculture in Indian economy
	DSC C - (02) ** General Paper	• Students will be able to understand industrial sector in India
		• Students will be able to understand cooperative sector in economy
		• Students will be able to understand economic planning in India
		• Students will be understand recent structural changes in economy able to
SYBA	DSE Eco 233 A Advanced Macro Economics-I	• Students will be able to understand macro-economic analysis
		Able to understand of national income
		• Able to understand classical & Keynesian theories of output and employment
		Able to understand consumption & Investment function
	DSE Eco 243 B Advanced Macro Economics-II	• Students will be able to understand process of credit creation by commercial banks
		• Students will be able to understand Quantity theory of money.
		• Students will be able to understand various macroeconomic problems.
		• Students will be able to understand various macroeconomic policy
SYBA	DSE Eco 232 A Agricultural Economics-1	Students will be able to understand economics of agriculture
		Students will be able to understand Indian agriculture sector
		Students will be able to understand agricultural prices, marketing & subsidies in India
	DSE Eco 242 B Agricultural Economics-II	Students will be able to understand economics of agricultural production
		Students will be able to understand technology in agriculture
		 Students will be able to understand management of animal genetics resources
SYBA	SEC Eco 234 (Research Methodology In Economics-I)	Students will be able to understand methods of data collection & analysis
		Students will be able to understand contents of report writing
		Students will be able to understand concepts of research designing
		Students will be able to understand concepts of hypothesis testing methods
	SEC Eco 244 (Research	Student gets knowledge of survey.
	Methodology In Economics-II)	**
		How to write research paper in various subjects.
		Job opportunity in in various companies for Demand Forecasting.
TYBA	ECO 351 - Indian Economy	• Students will be able to understand Indian financial system

since 1980 – III	
	• Students will be able to understand money & banking
	• Students will be able to understand India's foreign trade
	• Students will be able to understand concept of globalization
ECO 361-Indian Economy since 1980 – IV	• Students will be able to understand federal fiancé in India
	• Students will be able to understand Indian tax system
	• Students will be understand public expenditure in India able to
ECO 242- Advanced Micro Economics – II	Studentswillbeableto understand price determination of facto
	Students willbeabletounderstand various theories offactors
	Students willbeableto understand concept of profit &Interest
	Students willbeableto understand market equilibrium of firm monopolisticmarket.
ECO 233- Advanced Macro Economics – I	• Students will be able to understand macro-economicanalysis
	• Able to understand of national income.
	• Able to understand classical & Keynesian theories of output a employment

	ECO 243- Advanced Macro Economics – II	 Students will be able to understand process of credit creation by commercial banks Students will be able to understand Quantity theory of money.
		• Students will be able to understand various macro economic problems.
		• Students will be able to understand various macro economic policy.
TYBA	ECO 351 - Indian Economy since 1980 – III	• Students will be able to understand Indian financial system.
		• Students will be able to understand money & banking.
		• Students will be able to understand India's foreign trade.
		• Students will be able to understand concept of globalization
	ECO 361-Indian Economy since 1980 – IV	• Students will be able to understand federal fiancé in India
		• Students will be able to understand Indian tax system
		Students willbeableto understand public expenditure in India
		• Students will be able to understand public debt& deficit finance
	ECO-352(A)- Public Finance and Policies-I	• Students will be able to understand concept of public fiancé
		• Students will be able to understand concept of publicrevenue
		• Students will be able to understand incidence & approaches oftaxation
		• Students will be able to understand governmentintervention
	ECO-362(A) - Public Finance and Policies-II	• Students will be able to understand concept of publicexpenditure
		• Students will be able to understand concept of publicdebt
		• Students will be able to understand concept of fiscalpolicy
		• Students will be able to understand concept of budget & deficit finance.

ECO-353(A) - International Trade and Practices-I	• Students will be able to understand international tradetheories
	• Students will be able to understand gains from international trade & trade policy.
	• Students will be able to understand concept of BOP &BPT
	• Students will be able to understand concept of exchange rates.
 ECo 262(D) Economics of	• Students will be able to understand international capital
ECo-362(B) - Economics of Indian Agriculture-II	• Students will be able to understand international capital movements &MNCs

Department of English

Class	Course	Programme Specific Outcome
	Outcome	

F.Y.B.A. (CBCS)	Compulsory English Core Course- Reading Literature: Short Stories andPoems	 To enable the students to understand the written text To inculcate the human and moral values amongst the students. To develop the communicative competence of studentswith special reference to congratulation, compliments, thanks, expressing an apology and making inquiries. To develop the writing skills of students with special reference to reporting, notice, agenda, minutes and letter writing. To acquaint the students with formal and informal style in using English This, being discipline specific course invites the students toknow about the treasure of English literature The Course introduces two basic forms of literature- short story and poem which are very near and dear to every human heart. As per the guidelines of CBCS, this course contains the simple stories and poems. The prescribed texts not only meetthe primary function of literature i. e. entertainment but also the secondary function of value inculcation. The course will enhance the skills of appreciation and creativity of the Students. 	 1. The students will understand the written text 2. The students will inculcate the human andmoral values amongst the students. 3. The students will develop the communicativecompetence of students with special reference to congratulation, compliments, thanks, expressing an apology and making inquiries. 4. The students will develop the writing skills ofstudents with special reference to reporting, notice, agenda, minutes and letter writing. 5. The students will acquaint with formal andinformal style in using English 1. The course will introduce the basic forms of literature to the students. 2. The course will develop the liking of reading inthe students. 3. The course will inspire students to develop theircreative ability. 4. Consequently, the course will develop readingskill and creative and expressive ability of the students.
F.Y.B.Com.	Compulsory English	To understand the technical writing skills	Banking, Advertisements, Sales, Medical Representatives, Hotel Management BPOS, Translators Tourists Guide, MediaRadio, Television Competitive Examination Administrative ServicesIndustries, Call Centers Computer Services Business Communication Journalism Railway Service Sector

Optional English	To understand efforts taken different businessman.	Students will understand the detail information about different business & businessman.
F.Y.B.Sc. (CBCS)	 To introduce the students with writing and reading skill To acquaint the students with the use of English language through different means To acquaint the students with the creative use of English language 	 the students will know writing and reading skill the students will acquaint the use of Englishlanguage through different means the students acquaint the creative use of Englishlanguage

S.Y.B.A.	Compulsory	To enable the students to	1. The students enable to understand the
(CBCS)	English	understand the written text	writtentext
SEM.PATTERN	2	To inculcate the human	2. The students will inculcate the
(with effect from		and moral values amongst	human andmoral values amongst the
2019-20)		thestudents.	students.
2017 20)		To develop the communicative	3. The students will develop the
		competence of students with	communicativecompetence of students with
		special reference to	special reference to congratulation,
		congratulation, compliments,	compliments, thanks, expressing an apology
		thanks, expressing an apology	and making inquiries.
		and making inquiries.	4. The students will develop the writing
		To develop the writing skills	skills of students with special reference to
		of students with special	reporting, notice, agenda, minutes and
		reference to reporting, notice,	letter writing.
		agenda, minutes and letter	5. The students will acquaint with
		writing.	formal and informal style in using
		To acquaint the students with	English
		formal and informal style in	English
		using English	
	Special Paper-I:	1. To acquaint students with	1. The students will acquaint with the
	16th and 17th	the major dramatists and	major dramatists and essayists of the
	Century English	essayists of the 16th and 17th	16th and 17th Century English
	Literature	Century English Literature.	Literature.
	DSE 1 A and B	2. To make the student aware of	2. The students will make aware of the
	(Equivalent o S-	the literary history, salient	literary history, salient features and cultural
	(Equivalentito S-	features and cultural	background of the period.
	1)		3. The students will help to grasp the
		background of the period.	
		3. To help the students to	content and critical appreciation of the
		grasp the content and critical appreciation of the	prescribed texts.
		prescribed texts.	4. The students will inculcate amongst a
		•	liking forthe Elizabethan and post-
		4. To inculcate amongst students a liking for the Elizabethanand	Shakespearean literature.
		•	
	Special Paper-II:	post-Shakespearean literature.	1. The students will impart basic ideas
	18th and 19th	1. To impart basic ideas about the 18th and 19th	about the 18th and 19th Century English
	Century English	CenturyEnglish Literature	Literature with special reference to Poetry
	Literature	with special reference to	and Novel.
	DSE 2A and B	Poetry and Novel.	2. The students will make aware of the
	(equivalent to Special Paper-II)	2. To make the students aware	literary history, salient features and cultural
	special Paper-II)	of the literary history, salient	background of the Romantic and Victorian
		features and cultural background	age.
		of the Romantic and Victorian	3. The students help to grasp the
		age.	content and critical appreciation of the
		3. To help the students to grasp	prescribed Texts.
		the content and critical	
		appreciation of the prescribed	
		Texts. 4. To inculcate amongst	

	Students a liking for the	4. The students will inculcate a liking for the
	Romantic and Victorian	Romantic and Victorian literature.
	literature.	
English General	1. To develop the interest of	1. The students will acquaint with the
Paper-II: The	students in reading/understanding	essential aspects of novel & drama as a
Study of Novel	novel and drama.	form of literature.
& DramaDSC 1	2. To acquaint students with	2. The students will orient to different
C (equivalent to	Novel and Drama as genres of	types of English novel & drama
Sp.	literature.	3. The students will enable to trace the
English -General	3. To develop students	development of the English novel &
Paper II)	competence 4. To study,	drama
	understand, analyze and Interpret	4. The students will develop competence to
	novel and drama.	systematically study and analyze a novel &
	4. To introduce students	drama
	with the key terms useful in	5. The students will introduce to the recent
	thestudy of novel and	trendsin novel& drama form.
	drama.	
	5. To orient students with major	
	types of novel and drama.	

	 To acquaint the students with notion of applied perception To develop scientific attitude of understanding theirsubject To put on record their own observations and hone theirskill of explanation To observe the local investigation topics and suggestremedies. 	 The students will acquaint with the essential aspects of novel & drama as a form of literature. The students will become conversant withdifferent types of English novel & drama The students will enable to mark out thedevelopment of the English novel & drama The students will develop ability to systematically study and scrutinize a novel &drama The students will introduce to the recent trendsin novel& drama form.
Skill Enhancement Course(SEC) SEC-I: English for Competitive Examinations	for the competitive exams of various kinds especially meant for testing ability in English language. 2. To introduce students with the common question typesasked in competitive examinations concerning English- grammar, vocabulary, comprehension, and other significant topics. 3. To encourage students to appear and prepare for thecompetitive exams. 4. To help the students to overcome the fear about English asa compulsory subject in various competitive exams.	
SYBA English Sem. IV DSC 3 D Minor Study Project	 To motivate students for research To inspire them to participate research oriented activitieslike Avishkar, Indradhanushy, Anweshan etc. To orient them for grasping the concept and features of 	
	Research 4. To inculcate in them skills like analysis, interpret andvisualize	
	 To introduce the new techniques of technical communication To train the students to use English for specific purposeand situation in real life To enable the students to face the world of competitionand challenges of the changing world To equip the students with enough English to enable themto enter the usual professions open to them To inculcate the basic human values amongst the students To enable the students for oral and written communication in English To equip the students to communicate effectively in the changed circumstances and the 	 The students enable to understand the writtentext The students will inculcate the human andmoral values amongst the students. The students will develop the communicativecompetence of students with special reference to interview, presentation skills. The students will develop the writing skills ofstudents with special reference to reporting, notice, agenda, minutes and letter writing. The students will acquaint with formal and informal style in using English The students will be familiarized with verities of English through the reading of the prescribed novels.

ENG 233	1)To acquaint the students with	1) The students will be acquainted with the
and 243 :	the term "research"	term research"
Basics of	2) To introduce the	2) the students with the will be introduced a
Research in	students with the basic	basicelements of research in English
	elements of research in	0
English		language and English literature.
Language	English language and	3) the students will be familiar with
and	English literature.	difference in he research of English
Literature	3) To make the students	language and
	familiar with difference	literature.
	in theresearch of English	4) The students will be acquainted with
	language and literature.	nature, aspects, types and areas of research
	4) To acquaint the students	in English language and literature.
	with nature, aspects, types	5) The students will be acquainted with
	andareas of research in	researchquestions, methods and framing of
	English	outlines.
	language and literature.	
	5) To acquaint the students with	
	research questions, methodsand	
	framing of outlines.	
ENG 234 and	1. To acquaint the students	1. The students will be acquainted with
244 (B) :	with selected masterpieces	selectedmasterpieces in American
American	in American Literature.	Literature.
Literature	2. To acquaint the students with	2. The students will be acquainted with
	the development of different	the development of different genres in
	genres in American Literature.	AmericanLiterature.
	3. To make the students aware	3. the students will be aware about social,
	about social, political and cultural	politicaland cultural issues reflected in
	issues reflected in	American Literature.
	American Literature.	4. The students will be introduced with the
	4. To introduce the students with	trendsand tendencies in American
	the trends and tendencies in	Literature.
	American Literature.	
	- monoun Encruture.	

<u>Class</u>		Course Outcome	Programme Specific Outcome
T.Y.B.A	Developing	1.To acquaint students	1. Students will be acquainted with various
(CBCS)	Communicatio	with various modes of	modesof communication.
	nSkills	communication	2. Students will acquire the skill of varied
		2. To intimate students about	types of written communication.
		various types of written	3. Students will get the knowledge of
		communication	varioustypes of oral communication.
		3. To inform students about	4. Students will practice various
		To give practice to students	modes of
		in various modes of	Communication.
		communication	
	(DSE 3 A)	1. To explain the students	1. The course will introduce the
	Twentieth	development of poetry in	development of poetry in English.
	Century	English	2. Students will get the detail knowledge of
	English	2. To acquaint the students	features, types and development of poetry in
	Literature	with features and types of	twentieth century English Literature
		modern poetry, drama and	3. Students will acquire the knowledge of
		novel	major poets, novelists and dramatists in
		3. To introduce the students	modern
		with major poets, novelists and	English literature.
		dramatists in modern	Ligion inclutio.
		English literature.	

1	DOE 4 ENC	1) The international data data to	1. Students will be introduced to the
	DSE 4 ENG	1) To introduce the students to	
	A: The Study	the properties, styles, and	properties, styles, and varieties of English
	ofEnglish	varieties of English language.	language.
	Language	2) To acquaint the students	2. Students will get the knowledge of
		with grammatical forms and	grammatical forms and functions in English
		functions in English language.	language.
		3) To enable the students learn	3. Students will be able to understand and
		and practice morphological	practice morphological concepts and word
		concepts and word formation	formation processes.
		processes.	4. Students will learn the basic concept
		4) To introduce the students	concepts in semantic, lexis and syntax in
		to the basic concepts in	English language.
		semantic, lexis and syntax in	
		English language.	
	DSC ENG 1	1.To introduce students with	Students will get the idea of the
	E: Indian	development of English	development of English Literature by Indian
	Writingin	Literature by Indian	2. Students will study the major writers of
	English Writers.		IndianEnglish Literature
		2. To acquaint students with	3. Students will be acquainted with the
		major writers of Indian English	content, techniques and styles of Indian
		Literature.	writers in English
		3. To introduce students with	
		content, techniques and stylesof	
		Indian writers in	
		English.	
	SEC ENG:	1. To enable students learn and	1. Students will learn the practical use of
	English for	practice usages in spoken	spoken
	Practical		

B: Film and Literatureconcept of film and itsorigin and development.and itsorigin and developmentb) To make the students able to understand the similarities and differences in film and literatureand differences in film and literaturec) To enable the students explore the process of adaptationand come to an understanding of how3. Students will understand the relation of film andculture. The different between film and theatre.film and understanding of how4. Students will develop the ability to analyze andjudge film as an adaptation of literary textd) To help the students andyze and judge film as an adaptation of literary text5. Students will develop the ability to comprehendd) To help the students analyze and judge film as an adaptation of literary text1.e) To develop among the students the ability to comprehend1.	Purposes 3 & 4	 and written English 2. To introduce students various skills in using practicalEnglish in real life situation 3. To encourage students prepare for attending job interviews, develop presentation skills, Learn professional skills in communicative English. 4. To make students able to exercise spoken and written English skills for their career Development. 	and written English. 2. Students will use various skills in English in reallife situation 3. Students will learn attending job interviews; develop presentation skills and communicative skill. 4. Students will be able to use spoken and written English skills for their career Development
Literaturedevelopment.2. Students will understand the similarities and differences in film and literature2. Students will understand the similarities and differences in film and literatureb) To make the students and differences in film and literaturec) To enable the students explore the process of adaptationand come to an understanding of how Film interacts with other cultural forms such as theatre andfiction.4. Students will develop the ability to analyze and judge film as an adaptation of literary text e) To help the students analyze and judge film as an adaptation of literary textd) To help the students analyze and judge film as an adaptation of literary text e) To develop among the students the ability to comprehendStudents will develop the ability to comprehend	GE Eng. A and B: Film and	a) To introduce the students the concept of film and itsorigin and	1. Students will know the concept of film and itsorigin and development
b) To make the students able to understand the similarities and differences in film and literature c) To enable the students explore the process of adaptationand come to an understanding of how Film interacts with other cultural forms such as theatre andfiction. d) To help the students analyze and judge film as an adaptation of literary text e) To develop among the students the ability to comprehend	Literature		
iii		÷	
and differences in film and literaturefilm andculture. The different between film and theatre.c) To enable the students4. Students will develop the ability to analyze andjudge film as an adaptation of literary textadaptationand come to an understanding of howliterary textFilm interacts with other cultural forms such as theatre andfiction.Students will develop the ability to comprehendart of cinema making from a literary text.d) To help the students analyze and judge film as an adaptation of literary textliterary text.e) To develop among the students the ability to comprehendprovelop among the students the ability to comprehend		,	
Identifiedliteratureand theatre.c) To enable the students4. Students will develop the ability to analyze andjudge film as an adaptation of adaptationand come to an understanding of howanalyze andjudge film as an adaptation of literary textFilm interacts with otherStudents will develop the ability to cultural forms such as theatre andfiction.Students will develop the ability tod) To help the students analyze and judge film as an adaptation of literary textliterary text.e) To develop among the students the ability to 			
 c) To enable the students explore the process of adaptationand come to an understanding of how Film interacts with other cultural forms such as theatre andfiction. d) To help the students analyze and judge film as an adaptation of literary text e) To develop among the students the ability to comprehend 			
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andfiction. literary text. d) To help the students analyze and judge film as an adaptation of literary text e) To develop among the students the ability to comprehend		Film interacts with other	Students will develop the ability to
d) To help the students analyze and judge film as an adaptation of literary text e) To develop among the students the ability to comprehend		cultural forms such as theatre	comprehendart of cinema making from a
analyze and judge film as an adaptation of literary text e) To develop among the students the ability to comprehend		andfiction.	literary text.
adaptation of literary text e) To develop among the students the ability to comprehend		d) To help the students	
e) To develop among the students the ability to comprehend		• • •	
students the ability to comprehend		· ·	
comprehend			
		•	
art of cinema making from a		art of cinema making from a	
literary text.		e	

Department of Geography

Class	Course	Outcomes (Students will be able to)
FYBSc	Gg.101,& 201 Paper I (Section A) Physical	• Understand the effect of rotation of revolution the Earth
	Geography (Lithosphere Part –I & II)	• Know the internal structure of the earth know the importance of longitudes & latitudes International Date line and Standardtime
		• Understand interior structure of theearth
		• Understand Theory regarding of Origin of Continents andoceans
		• Study the formation of Rocks Understand the work of internal and external forces and their associatedlandforms.
		To study external forces operating on the Earth surface.
		To enable students to acquire knowledge of their physical environment.
	Gg.102 & 202 Paper - II (Section B)Physical Geography (Atmosphere & Hydrosphere)	 Understand the importance of Atmosphere Understand the composition of atmosphere Know Measurement of Atmospheric Pressure and formation of PressureBelts Understand the types of winds To introduce the students to the basic concepts of Oceanography. To introduce the origin and effects of Tsunami. To make the student aware about the application of Oceanography in different areas.
	Paper - III (Section A & B Lab.) Gg. 103 & 2032Practical Geography (Cartographic Techniques) (Practical Geography Map Projections)	To understand the concept of scale at the initial stage. To know how to draw the maps on various scale. To acquaint the students with the principles of Classification and Choice of map projections.
SYBSc	Gg: 301 (DSC) Sem. III Paper I - Environmental Geography	 To create the environmental awareness amongst the students. To acquaint the students with fundamental concepts of Environmental Geography. To aware the students about the processes and patterns in the natural environment. To acquaint the students with past, present and future utility and potentials of Environmental Geography at regional, national and Global levels. To make aware the students about the judicious use of resources.
	Gg: 302 (DSC) Sem. III Paper II –Physical Geography of Maharashtra	To Understand Natural, Historical and Political Geography Of Maharashtra

Gg: 303(DSC) Sem. III (LAB-III) Paper III - Interpretation of Topographical, Weather Maps andWeather Data Analysis	 To develop the interpretation skill among the students. To introduce the students about the information recorded on topographical and weather maps. To acquire various information from the maps.
Gg: 304 Sem. III SEC I - Regional Planning and Development	 To introduce general problems of regional development and their application to rural areas. To introduce basic methods of elaboration regional development studies The student is able to explain the role of regional policy and desire the tools used to regional development support To understanding of social and regional relation of the rural development
Gg: 401(DSC) Sem. IV Paper I - Human Geography	 This course is to acquaint the students with the nature of man- environment relationship and human capability. To adopt and modify the environment under its varied conditions from primitive life style to the modern living; To identify and understand environment and population in terms of their quality and spatial distribution pattern. To comprehend the contemporary issues facing the global community.
Gg: 402 (DSC) Sem. IV Paper II - Socio – Economic Geography of Maharashtra	 To accustom the students with utility and applications knowledge got from the study of Socio-Economic Geography in different walks of the life. To acquaint the student with basic knowledge of Maharashtra state. To acquaint the student with prospects and problems of agriculture, industries, trade and transport of Maharashtra.
Gg: 403 (DSC) Sem. IV (LAB-IV) Paper III - Surveying and Area Measurement by GPS	 To develop the surveying skill among the students. To introduce the students about working and practical utility of GPS. To acquaint the students about the field survey.
Gg: 404 Sem. IV SEC II - Field Techniques and Survey based Project Report	 To inculcate in students the analytical approach towards their geographical environment through field study/work of a selected area. To aware students that how does a field work form an important part of geographical learning? To develop the skill of selection of appropriate technique for field study. To enable the student to frame different types of questionnaires to conduct a field study. To develop the ability of analysis, interpretation and report writing based upon the data collected during a field study.

FYBCom	Paper: 107 g - Elective Geography of Disaster Management (Part – I) Paper: 207 g - Elective - Geography of Disaster Management (Part – II)	To understand basic concepts in Disaster Management. To create awareness on disasters through intensive public education To Understand Types, Categories and impact of Disasters. To know role & responsibilities of Different Agencies &Government. To know the Importance of planning in disaster preparedness. To get information regarding disaster medicine.
FYBA	Gg 101 PHYSICAL GEOGRAPHY: PART– I (Lithosphere)	 Understand the effect of rotation of revolution the Earth. Know the internal structure of the earth know the importance of longitudes & latitudes International Date line and Standard time Understand interior structure of the earth Understand Theory regarding of Origin of Continents and oceans Study the formation of Rocks Understand the work of internal and external forces and their associated landforms. To study external forces operating on the Earth surface. To enable students to acquire knowledge of their physical environment.
	Gg. 201 PHYSICAL GEOGRAPHY: PART- II (Atmosphere & Hydrosphere)	 Understand the importance of Atmosphere Understand the composition of atmosphere Know Measurement of Atmospheric Pressure and formation of PressureBelts Understand the types of winds To introduce the students to the basic concepts of Oceanography. To introduce the origin and effects of Tsunami. To make the student aware about the application of Oceanography in different areas.
SYBA	Gg. 231 (DSC) Sem. III General Cartography	To understand the concept of scale at the initial stage. To know how to draw the maps on various scale. To acquaint the students with the principles of Classification and Choice of map projections.
	Gg. 241(DSC): G2 Human Geography	 Understand the relationship of man and environment Studies of races of mankinds.

• Un	derstand the modes of life of Eskimo, pigmy, gonad, Bhil And
nag	gas.
• Imp	portance of Right to Information Acts.
Gg. 232 (DSE 1 A) Sem. 1. T	o develop and communicate basic conceptual frame work of Geo
III Geography of Tourism Tou	rism.
2. T	o realize its potentials and against achieved in the Indian context.
3. T	o understand the various Geo tourism. geography.
4. T	o know the role and responsibilities, economic growth of Tourism
indu	istry in India.
5. T	o evaluate the role of various organization of tourism 7. To
deve	elop Socio cultural aspects for the Tourism
6. T	o know the importance of the sustainable tourism
	_

Gg. 242 (DSE 1 B): i.	. To make the students able to understand Geographical Personality
GEOGRAPHY OF INDIA o	
In iii iv p p	 i. To study minerals and power resources in the specific regions of ndia. ii. To study the nature of industries and their development in India. v. To aware the students about agricultural and demographic problems and make them able to find remedial measures on those problems.
GEOGRAPHY (Scale and Map Projections)	 To give basic information about various tools and techniques used n making maps. To understand the concept of scale at the initial stage . To know how to draw the maps on various scale. To acquaint the students with basic of Scale, Map Projections and cartographic Techniques 5. To enable the students to use Scale Map Projections and cartographic techniques
GEOGRAPHY (Surveying)	 To acquire knowledge of survey language and sense of technique of surveying. To know the scale and distance of surveying. To know how to draw layout by surveying of region. To acquaint the students with basic knowledge and technique of ground survey. To acquire the knowledge of survey instruments To provide basic information about mechanism of survey instruments. To acquaint the knowledge how to use survey instruments. To acquaint the knowledge how to use survey instruments.
AND	1. Student will become well aware about the Regional Planning and Development.
DEVELOPMENT	
	2. Students will get the knowledge of planning, its limitation. plans
	and Agro Ecological Zones of Maharashtra.3. Students will be able to participate in planning and regional davalopment.

	 and Agro Ecological Zones of Maharashtra. Students will be able to participate in planning and regional development.
	 4. Students will get knowledge about various approaches and models of regional planning and development. 5. Students will be aware of the Special area development.
Gg. 244 (SEC 2): REMOTE SENSING AND GPS BASED PROJECT REPORT	 To understand the principles of Remote Sensing. of GPS based survey. To acquaint the students with fundamental concepts of Aerial Photography. To introduce students with advance techniques for data collection. To learn principles and applications To learn basics of GPS.

	Gg. 245 (DSC 3D): MINOR STUDY PROJECT	 To motivate the students towards Research. students. To understand the various problems in the field of Geography. To introduce research methodology and to inculcate research aptitude. To enhance analytical thinking and report writing ability of the students. Investigate components and function of GIS Study GIS Datamodels. Introduce GPS and ItsFunctions. Make use GIS & GPSsoftware.
Class	Courses	Outcomes (After completion of this course, the students will be able to)
	SEM V	
Т.Ү.В.А	Gg. 351 (DSC 1E) Environmental Geography	To make the environmental awareness amongst the students.
•		Awareness among the students about use of resources with prudence.
		To identify environmental problems and their solution in day to day life
	Gg. 352 (DSE 3A) Economic Geography	To understand current economic situation in relation with geography
		To identify different economic problems in India & World
		Understanding of efficient use of resources for economic sustainable development
	Gg. 353 (DSE 4A) Practical in Human	To understand the practical approach of Human Geography

Geography and Geo-	To know the importance of statistical techniques in
Statistics.	Human Geography.
	To understand techniques useful in various research work
Gg. 354(SEC 3)	Understanding & experience of the analytical skill of
Field	field-work.
Techniques	Development of skill in preparing research method while working on filed
and Introduction to	Understanding of preparation of questionnaires, methodology and Research Report
Project Report.	methodology and Research Report
Gg. 355 (GE 1A) Disaster Risk	Understanding the types and kind of disaster
Reduction.	To know what to do in pre, during and post disaster time
	Understating of participation in different NGO"S and their role in disaster management
SEM-VI	
Gg. 361 (DSC 1F) Population	Understanding of concept of population and its properties
Population Geography.	Understanding of population as a resource with examples
	Understanding of recent problems of population in day to

Γ	day life and solutions
Gg.362 (DSE 3B) Political Geography	Understanding population geography in relation with National & Global politics
	Understanding geo politics & related theories
	Understanding problems of polities & its relation with geography
Gg. 363 (DSE 4B)	Understanding of SOI topsheets& its ground applications
Practical in Physical Geography	Reading, Understanding & interpretation of IMD maps
0 I I	Understanding an importance of Village survey & tour Report
Gg. 364 (SEC 4) Geographical	Understanding fundamental concept of GIS & related field
Information System.	Knowing applications of GIS in various filed
-	Understanding of different type of Job opportunities in various GIS companies
Gg. 365 (GE 1B):	Understanding actual concept of Sustainable developmen
SUSTAINABILITY	& its importance
AND	Understanding role of individual in sustainable
DEVELOPMENT	development while living day to day life
	Understanding problems associated with sustainable development

Department of Hindi

Class	Course	Outcomes (Students will be able to)
FYBCom	HIN 102 - F. Y. B COM - OPTIONAL HINDI	develop Hindi reading and linguistic comprehension ofstudents.
		 develop interest in literature, fiction and poetry.
		• use their vocabulary for developing moral and social sense inlife.
		make special use of language for their expression
FYBA	HIN 111 General Hindi	Develop the comprehensiveability.
		Inculcate moral and human values within themselves.
		Understand the basic forms of fiction and poetry.
SYBA	HIN 231 S.Y.B.A GENERAL 2 :- Short Story	• Develop literarytendencies.
		Understand the types of Hindi Short storywriting.
	HIN 232 S.Y.B.A SPLCIAL I :- Kavyashatra	• Know Indian Poetry structure in ancient and modernera.
		Know the importance of criticism.
		Increase vision regarding literaryvalue.
		Know the concept and process of literature.
	HIN 233 S.Y.B.A SPLCIAL II :- Upnyas and Natak	understand novel forms and theirtypes
		know the concept and process ofdramatics
Class	Course	Outcomes (After completion of this course, the students will be able to)
T.Y.B.A	SEM V	
	MIL-III Hindi DSC	To make student aware of media intaface Language to make student aware of editionals in newpapers
	DSC-E(A) Hindi	To make student aware of basic Principlas of "YatraSahitya"
	SEC-III Hindi	To make student aware of grammar and Sentence Compositions in Hindi language.
	DSE - III (A) Hindi	To make student aware of History & Hindi Litreture
	DSE VI-(A) Hindi	To make student aware development in Hindi language .
	GE-(A) Hindi	To introduce students with "Hindi KavyaDhara"
T.Y.B.A	SEM VI	
	MIL-IV Hindi DSC	To introduce students with the History & Hindi Cinema.
	DSC-F (A) Hindi	To introduce students to BhartiyaSantKavya.
	SEC-IV Hindi	To introduce students with Standerdlanguage.
	DSE - III (B) Hindi	To make student aware of History & Hindi Litreture
	DSE - III (B) Hindi	To make student aware devlopement in Hindi language .
	GE-I (B) Hindi	To introduce students Khandesh FlokLitreture.
MA-I	HIN 1110 : General level – Katha Sahitya	Get information about the Novel and StoryLiterature.
		Get information about Hindi Literature Forms.
		Understand Socio-Cultural & Political Impact on HindiLiterature.

HIN 1120 : S Aadikalinava inkavya	nMadhyayug • get information about Sant poet & theirLiterature.
	 get information about Hindi"s Historical LiteratureForms.

	get information Well Known poet Vidyapati&SantTulasidaas
HINLI 30: Npeciallevel: Bhar	
HIN1130:Speciallevel;Bhar tiyakavyashastrakesiddha ntavama	know Indian Poetry structure in ancientera
	know the importance of criticism.
	 increase vision regarding literaryvalue.
	know the concept and process of literature.
HIN 1140 : Special level :	• get information Well Known female writer in Hindi
Aatmkatha	get information wen known female writer in finiter
	 know the literary contribution of femalewriter
	 know the gender equality among theliterature.
	know the importance offeminism.
	know the characteristics of feminineliterature.
HIN 1210 : General level :	get introduction of Hindiwriter.
kathetargadyasahitya	
	• get information about the autobiography, essay and dramaLiterature.
	 get information about Hindi Literature Forms.
	• understand Socio-Cultural & Political Impact on HindiLiterature.
HIN 1220: Spl. – Ritikalinkavya	• know the Medieval Hindiliterature
	get information about Hindi"s Historical LiteratureForms.
	• get information Well Known poet Bihari, Ghananand&Bhushan
HIN 1230 : Spl. Level – Paschatyakavyshastraevam Vaad	know western Poetry structure in ancient and modernera
	know the importance of riticism.
	 increase vision regarding literaryvalue.
	know the concept and process ofliterature.
HIN 1240 : Spl. Optional : Dalit Vimarsh	• get introduction of Dalit agitation (India &World)
	• know the history of the Dalit movement inIndia
	study of literature in Dalitapproach.
HI 2310 : General level : poetry	 get acquainted with the language, poetic style, diction of the age to which itbelongs.
	learn values through literaryworks.
 HI 2320 : Spl. level : Bhashavigyan	• know the importance of language in humanlife.
	• know the various methods to the the study of language.
	understand the communication process and method
HI 2330 : Spl. level : Hindi sahityakaEtihas	Study the historical Development of HindiLiterature.
Surrey united stilled	• know the brief literature in sameperio

		know the various literary form in sameperiod.
-	HI 2340 : Spl. level optional : Loksahitya	know the concept of folk-literature.
		 know the tradition of folk literature inIndia
		know the co-relation between folk literature and otherbranches.
		 know the new trends study of folk literature in newera.

	HI 2410 : General level : poetic Drama, New Poetry and Gazal	• know the new trends study of poetic Drama, New Poetry and Gazal
	and Gazal	literature in newera.
		• get acquainted with the poetic style, diction of the age to which itbelongs.
		learn values through literaryworks.
	HI 2420 : Spl. level – Hindi Bhasha	• know the importance of language in humanlife.
		 know the various methods to the study of Hindilanguage.
		 understand the communication process and method.
		know the importance of Devnagari Script
	HI 2430 : Spl. level – Hindi SahityakaaadhunikEtihas	2000periods.
		 know the brief literature in sameperiod.
		 know the various literary form in sameperiod.
		•
	HI 2440 : Spl. level optional- Prayojanmoolak Hindi	 understand the communication process and method
		 introduce the mediawriting
		 introduce the Devnagari script variousaspect.
		•
Class	Course	Outcomes (After completion of this course, the students will be able to)
T.Y.B.A	SEM V	
	MIL-III Hindi DSC	To make student aware of media intaface Language to make student aware of editionals in newpapers
	DSC-E(A) Hindi	To make student aware of basic Principlas of "YatraSahitya"
	SEC-III Hindi	To make student aware of grammer and Sentence Compositions in Hindi language.
	DSE - III (A) Hindi	To make student aware of History & Hindi Litreture
	DSE VI-(A) Hindi	To make student aware devlopement in Hindi language .
	GE-(A) Hindi	To introduce students with "Hindi KavyaDhara "
Class	Course	Outcomes (After completion of this course, the students will be able to)
T.Y.B.A	SEM VI	
	MIL-IV Hindi DSC	To introduce students with the History & Hindi Cinema.
	DSC-F (A) Hindi	To introduce students to BhartiyaSantKavya.
	SEC-IV Hindi	To introduce students with Standerdlanguage.
	DSE - III (B) Hindi DSE - III (B) Hindi	To make student aware of History & Hindi Litreture To make student aware devlopement in Hindi language .

Department of History

Class	Course	Outcomes (Students will be able to)
FYBA	HIS-101-History of India (1857-1950	• To introduce various perspectives of the Indian Freedom Movement.
		• To develop the spirit of nationalism among students.
		• To bring an awareness among the students as responsible citizen of the country.
		• To bring an awareness among the students as responsible citizen of the country.
		• To bring an awareness among the students as responsible citizen of the country.
		• To inculcate the rational thinking among the students.
SYBASem. III	HIS-231-History of Marathas (AD 1605 - AD1750)	• To Create and enhance interest about regional History among the students.
		To acknowledge students how ShivajiMaharaj created the empire in adverse circumstances.
		• To motivate students for the research work of the Maratha History
		• Useful for the preparation of the competitive examinations.
	HIS-232- History of United States of America (A.D.1776 - A.D. 1945)	• To understand the importance of America (USA) in the world history.
		• To study the foreign policy of America (USA).
		• To study the foreign policy of America (USA).
		• To evaluate the progressive era of America (USA) and its important the world.
		• To study and the Role of America between two world wars.
		• Focus on the Human Rights Movement in America (USA).
	HIS-233-History of Ancient India (B.C 3000 to B.C 600)	• • To acquaint the students with different sources of Ancient Indian History. To enable the students to understand the Political, Socio-Economic and Cultural Developments in the Periods under study and appreciate the rich Cultural Heritage in India.
		• To Survey the Sources of History of Ancient India. The Course intends to Provide and Understanding of the Social, Economic, Religious and Institutional Bases of Ancient India.
		•
	HIS-234 Research Methodology in History(SKILL COURSE)	The paper is designed to provide adequate conceptual base, bring better
		• understanding of history and its forces, help interrogate existing paradigms and challenge the outdated, help in developing critique, help research in terms of formulating hypotheses and develop broad frames of interaction with other social sciences and attain certain level of Interdisciplinary approach.
		•
SYBA Sem.IV	HIS-231-History of Marathas (AD 1605 - AD 1750)	• To Create and enhance interest about regional History among the students.
		To acknowledge students how ShivajiMaharaj created the empire in adverse circumstances.
		• To motivate students for the research work of the Maratha History
		• Useful for the preparation of the competitive examinations.

United States of America	To understand the importance of America (USA) in the world history.
r	To study the foreign policy of America (USA).

	Focus on the Role of America (USA) in world politics.
	To evaluate the progressive era of America (USA) and its important the world.
	To study and the Role of America between two world wars.
	Focus on the Human Rights Movement in America (USA).
HIS-233-History of Ancient India (B.C 3000 to B.C 600)	To acquaint the students with different sources of Ancient Indian History. To enable the students to understand the Political, Socio- Economic and Cultural Developments in the Periods under study and appreciate the rich Cultural Heritage in India.
	To Survey the Sources of History of Ancient India. The Course intends to Provide and Understanding of the Social, Economic, Religious and Institutional Bases of Ancient India.
HIS-234 Research	The paper is designed to provide adequate conceptual base, bring better
Methodology in History(SKILL COURSE)	understanding of history and its forces, help interrogate existing paradigms and challenge the outdated, help in developing critique, help research in terms of formulating hypotheses and develop broad frames of interaction with other social sciences and attain certain level of Interdisciplinary approach.
DSC- HIS-241- History of the Marathas (A.D. 1605- A.D. 1750)	To Create and enhance interest about regional History among the students.
	To acknowledge students how Shivaji Maharaj created the empire in adverse circumstances.
	To motivate students for the research work of the Maratha History
	Useful for the preparation of the competitive examinations.
 DSE - HIS - 242 History of United States of America (A.D. 1776 - A.D.1945)	To understand the importance of America (USA) in the world history.
	To study the foreign policy of America (USA).
	Focus on the Role of America (USA) in world politics.
	To evaluate the progressive era of America (USA) and its
	important the world. To study and the Role of America between two world wars.
	To study and the Role of America between two world wars.
DSE-HIS- 243 History of Ancient India (B.C 600 - A.D 1206)	To acquaint the students with different sources of Ancient Indian History. To enable the students to understand the Political, Socio- Economic and Cultural Developments in the Periods under study and appreciate the rich Cultural Heritage in India.
	To Survey the Sources of History of Ancient India. The Course intends to Provide and Understanding of the Social, Economic, Religious and Institutional Bases of Ancient India.

SEC-HIS-244 An Introduction to Archives in India	To create awareness among the students about the role of Archives in the preservation of Heritage.
	To introduce the importance of Archives in study of History.
	To create awareness to conserve the historical records in their local areas.
	To create interest of students to pursue career in the field of Archives.
	To encourage students to visit Archives.
	• Understand emergence of feudal system in Indiansociety

		• Understand the History of Satvahanas, Shungas, Kushans, andHunas.
		• Know about the Sangam age, the Cholas, Pallavas and Chalukyas.
	SEM - V	
T.Y.B.A	HIS -351 -History of	1. Students will be able to Understand the concept and
(History)	Modern Europe(AD 1781 - AD 1913)	meaning of the` History of Modern Europe.
DSC-1E		2. Students will be able to Explain important information of the `History of modern Europe`.
		3. Students will be able to introduce various perspectives of the History of modern Europe.
		4. Students will be able to Cover an Important topic of the `History of Modern Europe`1781 to 1945.
		5. Students will be able to inculcate Liberty, Equality and fraternity among the students.
DSE 1 C	HIS 352 History of India	1. To introduce various perspectives of the Modern India
	(AD 1750 – AD 1857)	
		2. To develop the spirit of nationalism among students.
		3. To bring an awareness among the students as responsible citizen of the country.
		4. To inculcate Liberty, Equality, and Fraternity among the students.
		5. To inculcate the rational thinking among the students.
DSE 2 C	HIS 353 History of India(AD 1206 – AD 1526)	1. Students learn about the various polity and sultanate period"s (1206-1526) in India.
		2. Students understand and review about the social, Economic and cultural information during the Sultanate period in Medieval India.
		3. Students understand and review detail about the agricultural, trade and commerce position of women and religious condition in sultanate period.
SEC 3	HIS 354 Travel and Tourism in India	1. Students will be able to Understand the concept and types of Tourism.
		 Students will be able to Acquire adequate knowledge about various aspects in Tourism planning.

		3. Students will be able to Explain important information of
		some Historical tourist places.
		4. Students will be able to Develop career in Tourism
		industry.
GE 1 A	HIS 355 Making of	1. This course presents some important vignettes of a
OLIA	Contemporary India -	complex, highly diverse India that is also witnessing
	1	unprecedented
		changes since its formal independence in 1947 from Great
		Britain.
		2. The course revolve around social dimensions of change,
		political democracy, economic transition from the state to
		the
		market, gender relations, India's economic globalization and
		changing world view.
		3. It would be helpful if students are aware of the socio
		political dynamics at play in contemporary India and keep
		themselves abreast with current affairs and debates in the
		country to fully appreciate the various dimensions and
		contours if
		the subject matter in the course.
T.Y.B.A (History)	Semester-VI	
DSC 1 E	HIS 361	1. Students will be able to Understand the concept and
DSC 1 F	History of Modern	meaning of the` History of Modern Europe.
	Europe	

	(AD 1914 - AD 1945)	
		2. Students will be able to Explain important information of the `History of modern Europe.
		3. Students will be able to introduce various perspectives of the History of modern Europe.
		4. Students will be able to Cover an Important topic of the `History of Modern Europe 1781 to 1945.
		5. Students will be able to inculcate Liberty, Equality and fraternity among the students.
DSE 1 D	HIS 362 History of India(AD 1750 – AD 1857)	1. To introduce various perspectives of the Modern India
		2. To develop the spirit of nationalism among students.
		3. To bring an awareness among the students as responsible citizen of the country.
		4. To inculcate Liberty, Equality, and Fraternity among the students.
		5. To inculcate the rational thinking among the students.
DSE 2 D	HIS 363 History of India (AD 1526 – AD 1707)	1. Students learn about the various polity and sultanate period's (1206-1526) in India.
		2. Students understand and review about the social, Economic and cultural information during the Sultanate period in

		Medieval India.
		3. Students understand and review detail about the agricultural, trade and commerce position of women and religious condition in sultanate period.
SEC 4	HIS 364 An Introduction to Museums inIndia	1. Grasp the concept of Museum.
		2. Acquire adequate knowledge about Historical Importance of Museums as Sources of History.
		3. Understand Management of Museums.
		4. Acquire important information of some Famous Museums in India.
		5. Develop career in Tourism industry.
GE 1 B	HIS 365 Making of Contemporary India – 2	1. This course presents some important vignettes of a complex, highly diverse India that is also witnessing unprecedented changes since its formal independence in 1947 from Great Britain.
		2. The course revolve around social dimensions of change, political democracy, economic transition from the state to the market, gender relations, India's economic globalization and changing world view.
		3. It would be helpful if students are aware of the socio political dynamics at play in contemporary India and keep themselves abreast with current affairs and debates in the country to fully appreciate the various dimensions and contours if the subject matter in the course.
		4. This course presents some important vignettes of a complex, highly diverse India that is also witnessing unprecedented changes since its formal independence in 1947 from Great Britain.

Department of Marathi

CLASS	COURSE	OUTCOME
FYBA SEM - I	-Mar -111 A Specific Type of Study Story	understand the nature and characteristics of this type of story
		know the journey of Marathi Katha on the basis of highlights
		derstand the major components of story telling
FYBA SEM –II	MAR -121 A Specific Types of	understand the nature and features of this poetic type
	Study Poems	know the nature of two important types of poetry
		To know the expressions of different types of poems in the edited poetry collection
SYBA SEM III	DSC 1 MAR 232-A Modern Literature: Novel	know the nature and characteristics of this growing type of novel
		Consulting on the progress of modern Marathi novels.
		develop the vision of evaluating and evaluating the novel
SYBA SEM IV	DSC 1 MAR 242-B Modern Wadmay Type Poems	know the nature and features of these types of poems
		To consult the movement of modern Marathi poetry
		My University's evaluation of this collection of poems
SYBA SEM III	C (S2) Mar 233 ShityaVichar(Indian and Western)	roducing Indian and Western thought
		Understanding the experimental nature of the material
		To know various questions of literature production 4 To know the main and merit reasons of literature production
SYBA SEM IV	DSC (S2) Mar 243 ShityaVichar(Indian and Western)	Introducing Indian and Western literary ideas
		Understanding the nature and type of vocabulary while learning the nature of the language of literature
		To know the nature of happiness derived from literature
SYBA SEM III	DSC Mar 231 A Studies of Specific Literary Types	To introduce the tradition of ideological prose writing in Marathi
		To know about the life work of Mahatma JyotiraoPhule and his personal ideological connection
		To get information about the writings of Mahatma JyotiraoPhule

		Understanding the nature and characteristics of the conceptual content of farmers in Asud
SYBA	DSC Mar 241	1 To know the social and literary importance of writing
SEM IV	A The study of	autobiography.
	Character-	2. The students learned the inspiration behind the creation of
	Autobiography	medieval Marathi Vadmaya.
		3. The students learned the salient features of shayari poetry
	Writing	by observing its nature.
	DSE 4	1 The students learned the nature of language and its
	Marathi A	function.
		2 students were introduced to different colors of language
		stud.y
		3 The students got to know the opinions regarding
		the epithet of Marathi language and took note of the
		background of Marathi.
	GE Marathi A	1 students learned the concept of folklore.
		2 students got to know the nature
		of folk theater and got acquainted
		with the features .3 students
		learned the nature and features of
		traditional forms of kirtan and
		bharud .
	MIL Marathi	1 The students got a special
	3	introduction to the audio-visual
		medium of television .2
		students learned about the
		function of television and its
		usefulness.
		3 students learned the nature and technique of writing
		advertisements for television.
	SEC Marathi	1 Students acquired essay writing skills .
	3	
	5	2 Which he learned the nature of essay writing and its
		components.
		3 students practiced their writing considering the type of
		essay.
F.Y.B.SC	Study of story and	Notice the characteristics of the stories in the Mandeshi Manasan
SEM I/II	communication skills	story collection.
1/11		Notice the conflicting narrative and language features of the stories
		in this Mandeshi people collection.
		Performing formal and informal types of fairies
		Introduce the essentials for communication skills
	a	
S.Y.B.SC SEM I	Science fiction and record writing	Introducing this type of science fiction story
		Encourage writing in Marathi on various subjects in the field of
		science
		Learn the skills of people to write useful on various subjects in the
		field of science
S.Y.B.SC	Humorous stories	Introduce these types of comedy stories
SEM II	and science fiction writing	

Department of Mathematics

Class	Course	Outcomes
		Upon successful completion of this course the student will be able to:
		• understand concepts on matrix operations and rank of the matrix.
	1.MTH 101: Matrix	• understand use of matrix for solving the system of linear equations.
		 understand basic knowledge of the eigen values and eigen vectors.
	Algebra	• applyCayley-Hamilton theorem to find the inverse of the matrix.
		• know the matrix transformation and its applications in rotation, reflection, translation.
		Upon successful completion of this course the student will be able to:
		• understand basic concepts on limits and continuity
	2.MTH 102: Calculus	• understand use of differentiations in various theorems.
	2.1vi i i i 102. Calculus	 know the Mean value theorems and its applications.
		 make the applications of Taylor"s, Maclaurin"s theorem.
		know the applications of calculus.
		Upon successful completion of this course the student will be able to:
		• know the types of graphs
	3.MTH 103(B): Graph	• know the concept of trees
TUDO	Theory	know the directed graphs
FYBSc		know the applications of graphs
		Upon successful completion of this course the student will be able to:
		To understand the necessity of differential equations
	4. MTH 201: Ordinary	To learn about forming differential equations from physical situations
	Differential Equations	To know various types of differential equations
	Differential Equations	• To practice methods of solution for various types of differential equations.
		• It is used in all branches of engineering.
		Upon successful completion of this course the student will be able to:
		• To know about number system
	5. MTH 202: Theory of	To learn division algorithm and itsapplication
		To know about congruence classes
	Equations	• To understand the famous Fermat "stheorem.
		• To learn how to solve various types of equations.
		Upon successful completion of this course the student will be able to:
		• understand basic concepts on Laplace and Inverse Laplace transforms.
		• understand convolution theorem.
		• Know the applications in engineering.
		• to learn properties of Laplace and inverse Laplace transforms.

	Upon successful completion of this course the student will be able to
1.MTH -301: Calculus	understand:
of Several Variables	 limit and continuity of functions of several variables
of Several Variables	fundamental concepts of multivariable Calculus.
	series expansion of functions.
	• extreme points of function and their maximum, minimum values at those points.
	meaning of definite integral as limit as sums.
	 how to solve double and triple integration and use them to find area by double integration and volume by triple integration.
2. MTH -302(A): Group	Upon successful completion of this course the student will be able to:
Theory	 understand group and their types which is one of the building blocks of pure and applied mathematics.
	• understand concept of automorphism of groups
	 understand concepts of homomorphism and isomorphism
	• understand basic properties of rings and their types such as integral domain and field
	Upon successful completion of this course the student will be able to:
SYBSc and logic (SEC-I)	• understand the issues associated with different types of finite and infinite sets via countable uncountable sets
	 know the knowledge of the concepts and methods of mathematical logic, set theory, relation calculus, and concepts concerning functions which are
	included in the fundamentals of various disciplines of mathematics
	 provide the logical mathematical reasoning, formulate theorems and definitions
4. MTH -401: Complex	Upon successful completion of this course the student will be able to:
Variables:	• understand the concept of analytic function
	understand the Cauchy Riemann Equations
	understand harmonic functions

	 understand complex integrations understand calculus of residues. acquire the skill of contour integrations.
5. MTH-402(A):	Upon successful completion of this course the student will be able to
Differential Equations	 aware of formation of differential equations and their solutions understand the concept of Lipschitz condition
	 understand method of variation of parameters for second order L.D.E understand simultaneous linear differential equations and method of the solutions understand Pfaffian differential equations and method of their solution understand difference equations and their solutions
6. MTH 404: Vector	Upon successful completion of this course the student will be able to
Calculus(SEC-II)	 understand scalar and vector products
	 understand vector valued functions and their limits and continuity and use them to estimate velocity and acceleration of partials. Calculate the curl and divergence of a vector field. Set up and evaluate line integrals of functions along curves.

Department of Physics

Class	Course	Outcomes (Students will be able to)
F.Y.B.Sc.	PHY-101: Basic Mechanics	• Apply the concept of use of knowledge of mechanics to real life
		problems.
		 Empower the students to acquire engineering skills and practical
		knowledge which will help them in everyday life.
		• Understanding of the course will create scientific temperament.
	PHY-102: Dynamics and	• Kinematics and dynamics of rigid body in detail.
	Elasticity	 Study the elastic behavior and working of torsional pendulum To understand torsional pendulum and time period calculation
•	DUV 102. Lab I	• To understand torsional pendulum and time period calculation.
	PHY-103: Lab-I	 Understand the principles of measurement and error analysis and develop skills in experimental design.
		 To study the elastic behavior of materials
		 To study the classic behavior of materials To understand the calculations of moment of inertia.
	PHY-201: Electricity and	• This course helps the students to provide a foundation in electricity which
	Electrostatics	have the key role in the development of modern technological world.
		Have gained elaborated knowledge about electrostatics and laws
		governing the charge distribution.
	PHY-202: Dielectrics,	• The students should have understood the basics of electromagnetism.
	Magnetism and	 Understand the basic idea about types of magnetization.
ŀ	Electromagnetism	
	PHY-203: Lab-II	• Thermal conductivity of a bad conductor by Lee's method.
		• To study the variation of thermo e. m. f. across two junctions of a thermocouple with temperature.
		 To determine the Refractive Index of the Material of a given Prism using
		Sodium Light.
		 Study of spectrometer and determination of angle of prism.
		• Understand basics of electrical circuits.
S.Y.B.Sc.	PHY-301: Thermodynamics	• To apply the concept of use of knowledge of Thermodynamics and
	and kinetic theory of gases	kinetic theory of gases to real life problems.
		• Understand basic concept of thermodynamics and to distinguish between
		work done due to Adiabatic and isothermal changes.
		• To state laws of thermodynamics and concept of internal energy.
		• To understand Carnot's ideal heats engine, Carnot cycle and its
		efficiency, Carnot's theorem, Otto and Diesel engines with their efficiencies.
		 To understand Concept of entropy, Change of entropy in Reversible
		process and Irreversible process, T-Sdiagram.
•	PHY-302(A): Electronics-I	• Acquires knowledge about how a semiconductor diode rectifies an input
		a.c. signal.
		• To distinguish between P-N diode, Zener diode, LED, solar cell and
		Photodiode.
		• To understand half wave, full wave and bridge rectifiers.
		• To demonstrate voltage regulation using Zener diode.
		• To understand basic construction and operation of bipolar transistors
		(NPN and PNP)Know about various number systems and their applications.
		 To understand the Boolean algebra and simplification of logic circuits.
	PHY-303: Lab III	 To test thermal conductivity of a bad conductor.
		 To study the variation of thermo e.m.f across two junctions of a
		thermocouple with temperature.
		• To determine the Refractive Index of the Material of a given Prism using
		Sodium Light.
		 Study of spectrometer and determination of angle of prism.
		• Study of I-V characteristics of solar cell.
ŀ		• Experimental verification of logic gates.
	PHY-304: Skill Enhancement	Make interpretation about the renewable energy sources.
	course I	• Understand the types of energy, energy storage and energy conversion
		systems.Understand availability of solar radiation, solar geometry, instrument

	• Learn about the energy and environment, air pollution climate changes and its impacts on sustainable development
PHY-401: Waves, Oscillations and Acoustics	 To demonstrate Lissajous figures by mechanical, optical and electrical methods. To understand composition of two S.H.M.s of equal frequencies along same line of vibration, at right angles. To demonstrate Resonance and its types- Mechanical resonance,
	 Acoustic resonance, Electrical resonance and Optical resonance. To understand the concept of sound and to classify sound frequencies. To understand Doppler effect in sound and light and its application.

Class		Department of Zoology
	Course	Outcomes Students are expected to:
FYBSc	ZOO 101 Animal Diversity	architecture
		know the structural and functional details of cell.
		ind answers related to the scope of biotechnology eukaryotic cells
		understand how science works
		aware about biotechnology and its application in various fields
	ZOO 102 Animal Diversity	II Demonstrate theory and practical skills in different types of microscopy and their handling techniques and staining procedures
		Understand the fundamental biochemical concepts and familiarize with standard solution, buffer and reactions
		Describe the concepts of pH and its biological significance, buffers, HendersonHasselbalch equation, biological buffer systems and their importance
		Know the terms and terminologies related to basic biochemical aspects
		understand the Principle, general features and significance of biophysical terms like density, sedimentation, centrifugation, surface tension, adsorption
	ZOO 103 Animal Diversity I & II) Practical	Demonstrate practical skills in microscopy, laboratory equipment and their handling techniques and staining procedures.
		Know various stages of cell division and also understand the significance of each event during meiosis and mitosis
		Perform routine tasks safely and effectively
	ZOO 201 Comparativ e Anatomy	Overview of major biomolecules –carbohydrates, lipids, proteins, aminoacids, nucleic acids, classification, structure, function of the above mentioned biomolecules
	of Vertebrates	
		Specify the biological significance of biomolecules in metabolism
ļ		
	ZOO 202	Understand the basic microbial structure and study the comparative
	Developmental Biology of	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the
		Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand
	Developmental Biology of	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure
	Developmental Biology of	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae Learn aseptic techniques and be able to perform routine culture handling tasks
	Developmental Biology of	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae
	Developmental Biology of	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae Learn aseptic techniques and be able to perform routine culture handling tasks safely and effectively understand the Principle, working and applications of instruments viz, pH meters, spectrophotometer, centrifuge, viscometer, and laminar
	Developmental Biology of Vertebrates) ZOO 203 Comparative Anatomy & Developmental Biology	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae Learn aseptic techniques and be able to perform routine culture handling tasks safely and effectively understand the Principle, working and applications of instruments viz, pH meters, spectrophotometer, centrifuge, viscometer, and laminar
	Developmental Biology of Vertebrates) ZOO 203 Comparative Anatomy &	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae Learn aseptic techniques and be able to perform routine culture handling tasks safely and effectively understand the Principle, working and applications of instruments viz, pH meters, spectrophotometer, centrifuge, viscometer, and laminar air flow Demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures Understand the basic microbial practices and study the comparative
	Developmental Biology of Vertebrates) ZOO 203 Comparative Anatomy & Developmental Biology	Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and familiarize the structural similarities and differences among various microbes Know various Culture media and their applications and also understand various physical and chemical means of sterilization Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae Learn aseptic techniques and be able to perform routine culture handling tasks safely and effectively understand the Principle, working and applications of instruments viz, pH meters, spectrophotometer, centrifuge, viscometer, and laminar air flow Demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures

Department of Zoology

procedures.

ZOO 301 Physiology	understand basic concept of Gene, DNA
	study mutation and chromosomal variations
	earn basic aspect about gametogenesis and cell cycle.
	understand the Mendel''s laws.
ZOO 302 Biochemistry	develop an understanding of the various aspects of Bioprocess Technology
· · ·	aware with screening of Industrially Important Strains and culture collection centres
	understand principles underlying design of Fermenter, Fermentation Proce- upstream and downstream processing
ZOO 303 Physiology & Biochemistry Practical	acquaint with different problems regarding genetics
e e e e e e e e e e e e e e e e e e e	know various stages of cell division and understand the significance of eac event during meiosis and mitosis
	develop skill about isolation of industrially important microorganism and familiar with analytical techniques
ZOO-304 SEC I Apiculture	To understand commercial development of algal culture
	To aware about commercial utilization of algae
	To understand diversity of morphological and biochemical
	To know role of algae in industries
	Know about nutritional and medicinal value of edible mushrooms
	Learn about the cultivation techniques off mushrooms
	Gain knowledge on the present status of mushroom industry in india
ZOO 401 Genetics	understand basic structure of DNA
	understand central dogma of molecular biology
	understand the process of replication, transcription, translation.
	Learn regulation of all molecular processes.
ZOO 402 Evolutionary Biology	now the cellular ontogeny and organ involvement in immunity
	explain the principles of self-tolerance and autoimmunity
	know how the immune system can fight infections and cancer, including examples of immunodeficiency diseases
	know the difference between innate and adaptive immunity
	understand what antigens are and how they are presented
	understand the mechanisms involved in control of immune responses
	know about the basic concept in immunology.
ZOO 403 Genetics & Evolutionary Biology Practical	understand basics in serological practicals and its handling
	ware of molecular biology techniques about isolation of genetic material.
	aware and train spectrophotometric estimations of metabolites

	ZOO-404 SEC II Medical Diagnostics	Explain the functioning, maintenance and safety aspects of the basic apparatus used in a Biotechnology lab.
	Diugnobiles	Explain the principles and applications of Bioanalytical instrumentation
		Utilize the knowledge for the separation of proteins/peptides by selecting appropriate separation techniques
		Characterize certain functionalities of biomolecules by using techniques.
SYBSc	ZOO 231: Non Chordates-II	
		• Understand the internal as well as external morphology of thatanimal.
		 To study and understand the concepts-Metamorphosis, regeneration andautotomy. Understand the Mouthparts of insects.
		Understand the Violatiparts offiseets. Understand the Canal system insponges.
		Understand the Locomotion inProtozoa.
		• To observe and study the Foot inMollusca.
	ZOO 232: Medical Zoology	• To study and understand the scope and branches of MedicalZoology.
		 To aware the students for various parasites and diseases which spreads in human with the help of study of host-parasiterelationship. To increase awareness for the health instudents.
		• Understand the various disease causing vectors likeMosquitoes.
		• To aware about the typhoid, cholera likedisease.
		 Understand the importance of medical diagnostic and also understand the term forensicEntomology.
	ZOO 241: Chordates –II	• To study and understand the external as well as internal characters of class Aves, by studying animal Columbia liviadomestica.
		• Understand the various systems of pigeon.
		• Understand the General Topics like Accessory respiratory organs
		 Able to know the reptiles of Mesozoicera.
		Understand the adaptations in aquaticmammals.
		• Onderstand the adaptations in aquatientaminals.
	ZOO 242: Applied Zoology	• Introduce the term apiculture to thestudents.
		• To aware the students and provides the economical importance of Apiculture.
		• Understand the Bee keeping equipments and apiarymanagement.
		• To study and understand the various species ofBees.
	ZOO 233: Practical Sem-I	• Understand the external characters and water vascular system in sea star.
	200 233. i lacticai Still-I	• Understand the locomotion in protozoa and Modification of foot
		• To understand the viruses like chikungunya, Swine flu,tetanus.
		• To aware the students for virus carrying vectors, like Aedes, culex
		To understand the various diseases diagnosticmethods.
		r 10 understand the various diseases diagnosticineulous.
	ZOO 243:Practicals sem-II	Study of Evolutionary history of animals.
		• Study and understand the types offins.

	 Study and understand the diseases, pest, parasites and predators of HoneyBee. To study and aware the students for honey bee products and theiruses. To aware the students for Adulteration. 	
SEM V		
Zoo - 501: Reproductive Endocrinology	1. Understand the functioning of male and female reproductive systems particularly in humans.	

	2. Comprehension of the interplay of various hormones in the
	functioning and regulation of the male and female reproductive systems
	3. Know about modern contraceptive devices.
Zoo - 502: Cell and Molecular Biology (CMB)	1. Achieve the knowledge of cell structure and cellular system.
	2. Predict the outcome of various cellular reactions carried out in cell and cellular system under variousconditions.
	3. Predict the role of genes and its relevance to human genetics and diseases.
Zoo - 503: Mammalian Histology	1. Enrich themselves with histology of different tissues and systems for research and job opportunities in Pathology and Cancer research centers.
Zoo - 504: Animal Biotechnology	1. Acquire knowledge about animal cell and tissue culture techniques.
	2. Become familiar with genetically engineered products for human animal welfare.
	3. Developing embryo - transfer technology, cloning, transgenic animals.
	4. Understand applications of hybridoma technique and functions of antibodies.
	5. Acquire knowledge about stem cell research and its ethical issues.
Zoo - 505: Public Health and Hygiene	1. Get familiarised with various aspects of environmental risks and hazards.
	 Acquire knowledge regarding epidemiology, prevention, control and management of diseases of public health importance.
	3. Learn about diagnosis of various diseases and methods to prevent them.
Zoo – 506 (A): Pest Management	1. Impart basic awareness regarding pest problem and crop loss due to their dominance.
	2. Understand various pests affecting our local crops and select the best method for their control.
	3. Acquire basic knowledge and skills in agriculture management to enable the learner for self-employment
Zoo - 507: Corresponding practical to DSC Zoo 501& Zoo502 (CB)	 Understand the functioning of male and female reproductive systems particularly in humans. Achieve the Knowledge of cell structure and cellular system.
Zoo - 508: Corresponding practical to DSC Zoo 502 (MB)& Zoo503	 Predict the outcome of various cellular reactions carried out in cell and cellular system under various conditions. Enrich with Histology of different tissues and systems for research and job opportunities in Pathology and Cancer research centers.
Zoo - 509: Corresponding practical to DSC Zoo 504	1. Acquire knowledge about animal cell and tissue culture techniques
	2. Become familiar with genetically engineered products for human animal welfare,

3. Developing embryo - transfer technology, cloning, transgenic animals
4. Understand applications hybridoma technique and functions of antibodies
1. Understand the systematic position, habit and habitat of Leech and Calotes
 Acquire the knowledge about structural and functional details about Leech as invertebrates and Calotes as vertebrates
3. Compare structural and functional details in Leech and Calotes.
1. Understand various stages involved in the developing embryo.
2. Understand the initial developmental procedures involved in chick.
3. Understand the processes involved in embryonic development and practical applications of studying the chickembryology.
1. Practice of vermicomposting, vermiculturing and poultry farming.
2. Aspire to work in preparing bio compost, vermicomposting and vermiculturing and get employment accordingly.
3. Start business for rearing and production of birds and get employment accordingly.
1. Cell tissue structure, histology of tissues and details of
morphology of animals. Job opportunities in Health institutes, Hospitals and Pathological labs.
1. Understand some basic concepts of research and its methodologies.
2. Differentiate between the Quantitative and Qualitative Research and understand different types of Research Design.
3. Select and define appropriate research problem and parameters.
4. Organize and conduct research project in a more appropriate manner.
5. Writing of dissertations, project proposals, project reports, research papers.
6. Understand intellectual Property Rights – Biopiracy, copyrights, patent and traditional knowledge and plagiarism.
1. Develop an expert manpower to handle the own sericulture units/entrepreneurship/corporate sector units.
2. Provide gainful employment, economic development and improvement in the quality of life to the people in rural area.
1. Understand the systematic position, habit and habitat of Leech and Calotes
 Acquire the knowledge about structural and functional details about Leech as invertebrates and Calotes as vertebrates.
3. Compare structural and functional details in Leech and Calotes.
1. Practice of vermicomposting, vermiculturing and poultry farming.

to DSC Zoo 602 and Zoo 603	
	2. Aspire to work in preparing bio compost, vermicomposting and get employment accordingly.
	3. Rearing and production of birds and get employment accordingly.
Zoo - 609: Corresponding practical to DSC Zoo 604	 Cell tissue structure, histology of tissues and details of morphology of animals. Job opportunities in Health institutes, Hospitals and Pathological labs.

	Department of	f Philosophy& Logic
Class	Course	Course outcomes
F.Y.B.A.	G-101: Introduction to	1. Understand key Philosophical foundation of the
Sem I	Philosophy – I	Jesuit intellectual tradition, particularly in so far the
		tradition has addressed issues of basic Philosophy.
		2. Understand use and assess the strength and
		weakness of Philosophical theories.
		3. Become effective writers, including writers of
		high-quality academic prose.
		4. Learn to use Philosophical theories to analyze
		situations and inform judgments about actions.
	G-101:	a) To understand fundamental terms, definitions,
	Traditional Logic –I	concepts principles and theories etc. of logic.
		b) To get acquainted with deductive logic.
		c) To understand modern logic as the study of
		inference.
		d) To differentiate various forms of statements and
		arguments. e) To apply formal techniques to
		arguments.
		f) To develop an ability of logical thinking.
		g) To develop interest in Traditional and modern
		logic.
F.Y.B.A.	G-201: Introduction of	
Sem II	Philosophy – II	Jesuit intellectual tradition, particularly in so far the
Selli II	T miosophy – n	tradition has addressed issues of basic Philosophy.
		2. Understand use and assess the strength and
		weakness of Philosophical theories.
		3. Become effective writers, including writers of
		high-quality academic prose.
		4. Learn to use Philosophical theories to analyze
	C 201: Propositional Logia	situations and inform judgments about actions.a) To understand fundamental terms, definitions,
	G-201: Propositional Logic – II	
	11	concepts principles and theories etc. of logic.
		b) To get acquainted with deductive logic.
		c) To understand modern logic as the study of inference.
		d) To differentiate various forms of statements and
		arguments. e) To apply formal techniques to
		arguments.
		f) To develop an ability of logical thinking.
		g) To develop interest in Traditional and modern
S.Y.B.A	DSC PHI 1 C (221)	logic.
	DSC-PHI 1 C (231)	To introduce the basic concepts of philosophy to
Sem -III	Indian Philosophy :	students from other disciplines.
	(Charvaka, Jainism, Buddhism)	To acquaint students with the key western
	DSCLogic-C231	Logic is the study of the methods and principles used
	Logic and Methodology of	to distinguish good (Valid) from bad (invalid)
	Science(Propositional Logic)	reasoning. The course aims to acquaint student with
		various techniques to identify validity and invalidity
		of argument and the basic rules as how to avoid
		fallacies in deductive and inductive arguments.
	SEC- PHI 1 PHI 234	To introduce the basic concepts of philosophy to
	Introduction to Philosophy	students from other disciplines.
		To acquaint students with the key

Department of Philosophy& Logic

		issues in both Indian and western philosophy.
Sem-IV	DSC- PHI 2 C (241)	To introduce the basic concepts of philosophy to
	Indian Philosophy :Orthodox	students from other disciplines.
		To acquaint students with the key western
		philosophy.
	DSCLogic-D241	Logic is the study of the methods and principles used
	Logic and Methodology of	to distinguish good (Valid) from bad (invalid)
	Science(Predicate Logic)	reasoning. The course aims to acquaint student with
		various techniques to identify validity and invalidity
		of argument and the basic rules as how to avoid
		fallacies in deductive and inductive arguments.
	SEC- PHI 2 PHI 244 Glimpses of Indian	To introduce the basic concepts of philosophy to students from other disciplines.
	Philosophy	To acquaint students with the key
		issues in both Indian and western philosophy.
T.Y.B.A.	DSC-PHI-1E(351)	Understanding the Modern Western thoughts of
Sem- V	Modern Western Thought	various philosophers and their science knowledge.
	DSC-LOG-1E(351)	Understanding the concepts of formal logic.
	Formal Logic	Advanced Predicate Logic, Relational Logic,
		Elements of set theory etc.
	GE- PHI- A (355) Philosophy	To impart knowledge on basic philosophical
	for Competitive Examinations	concepts and their relevance in the day to day human
		life.
		To enable the student appreciate the significance of
		ethics and logic in leading a responsible and
		meaningful life.
		To enable the students understand the moot
		philosophical issues that perturbed the human
		civilization from the time immemorial.
		To help the students to pursue a career in civil Services with philosophy as an optional subject.
	SEC-PHI - 1	To introduce some dominant trends in Bhakti
	PHI-3-354 Philosophy of	Philosophy with their distinctive characteristics in
	Saint - I	terms of epistemology, metaphysics and ethics.
Sem-VI	DSC-PHI-2F(361)	Understanding the Modern Western thoughts of
	Modern Indian Thought	various philosophers and their science knowledge.
	DSC-LOG-2F(361)	Understanding the concepts of Inductive logic.
	Inductive Logic	1) Inductive inference: Nature and types, 2) Grounds
	C	of induction, 3) Hypothesis and Inductive Methods
		etc.
	GE- PHI- B(365) Philosophy	To impart knowledge on basic philosophical
	for Competitive Examinations	concepts and their relevance in the day to day human
		life.
		To enable the student appreciate the significance of
		ethics and logic in leading a responsible and
		meaningful life.
		To enable the students understand the moot
		philosophical issues that perturbed the human
		civilization from the time immemorial.
		To help the students to pursue a career in civil
		Services with philosophy as an optional subject.
	SEC-PHI - 2	To introduce some dominant trends in Bhakti
	PHI-3-364 Philosophy of	Philosophy with their distinctive characteristics in
	Saint - II	terms of epistemology, metaphysics and ethics.

Department of Political Science

	*	of Political Science
Class	Course	Courses Outcomes
F.Y.B.A.	C.C. POL - G 101 - A –	This paper is a basic introduction to the process,
Sem – I	The Indian Constitution	concept and working of Indian constitution & its
		philosophy. India constitution is a social document of
		everyone. The Indian constitution accommodates
		conflicting impulses of liberty and justice, territorial
		decentralization and a strong union for instance
		within itself. This paper is really useful for learner of
		every discipline because they should understand basic
		concepts and specific days which are more important
		in day to day life. The main purpose of this paper is to
		perception or getting information of constitutional
		and political systems of today's perspective.
Sem - II	C.C. POL - G - 201 - B -	This paper is a basic introduction to the process,
	Indian Polity	concept and working of Indian constitution & its
		philosophy. India constitution is a social document of
		everyone. The Indian constitution accommodates
		conflicting impulses of liberty and justice, territorial
		decentralization and a strong union for instance
		within itself. This paper is really useful for learner of
		every discipline because they should understand basic
		concepts and specific days which are more important
		in day to day life. The main purpose of this paper is to
		perception or getting information of constitutional
		and political systems of today's perspective.
Sem - III	Pol – (DSC 1 C)	This paper is essential for students of any faculty –
Sem m	Introduction to	discipline. Because it is not only useful for G.K. but
	Administration of	also necessary for admire the history and
	Maharashtra	administration of our region. We should learn about
		how our administration is going on, what is the role
		of administrator of all internal section, features of
		government, internal branches of administration,
		structure of government etc. As well as this paper will
		help to create further administrator.
	Pol – (SEC 1)	This paper attempt to discuss the main concepts and
	Research Methodology in	methodology of research. Political science is the part
	Political Science.	of social science/humanities. And therefore under
		graduate students should learn suitable research topic
		for further research work, ability to write a research
		proposal/report. National education policy (2019) has
		decided to enhance quality research and publication
		In this context, at UG level students should admire
		and proper understanding methodology and hard
		work for quality.
Sem – IV	Pol – (DSC 1 D) Introduction	This paper is attempts to discuss about local and
~~~~ ```	to Local District	district administration of Maharashtra. It is very
	Administration of	useful for MPSC/UPSC/Other exams; purpose/aim of
	Maharashtra.	this paper understands the core of administration and
		enhances ability to get proper knowledge of rural –
		urban administration.
	Pol – (SEC 2)	This paper is attempts to discuss about principles,
	Election Management	structure, debate and practices of election
L		succession, accure and practices of election

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		management. It will be useful for proper understanding the process of election and management. As well as admire the concepts and thoughts of election administration. Each and every one has evolved in election process so we should get
		more information through this paper.
T.Y.B.A. Sem-V	DSC 1E Indian Political Thinker Part – I	This is an introductory paper to the concept ideas and theories developed in India. It deals with the main sources of the political traditions in modern India and focuses the development of social Institution and as various patterns of politics that emerged in modern India. This course will encourage students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre- and Post independence India. The main objective to study this paper is to understand key thinker's seminal contribution to the evolution of political theorizing in India.
	SEC -3 Journalism and Mass Communication	This paper deals with concepts and dimensions in journalism, mass communication and political journalism. It highlights various aspects of press, media and its type and methods. This course will help learners to understand dynamics within Journalism, Political journalism and communication means and ends and his process in society and nation. This course will give introduction to the students of journalism aims to provide voters with the information to formulate their own opinion and participate in community, Local to global matter that will effect then political journalism is provided through different mediums in print, broadcast, online reporting, instant coverage of campaign politics, event news, government status, elections updates etc.
	GE 1 A Indian Civil Services	This paper provides the conceptual framework of the civil services and good governance. It delves deep in meaning, origin, forms of civil services and good governance in general. This course will be helpful and encourage students to acknowledge civil services and good governance process in India. An intention of this paper is to understand origin, development, and challenges before good governance in India.
	DSC 1F Indian Political Thinker Part – II	This is an introductory paper to the concept ideas and theories developed in India. It deals with the main sources of the political traditions in modern India and focuses the development of social Institution and as various patterns of politics that emerged in modern India. This course will encourage students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre- and Post independence India. The main objective to study this paper is to understand key thinker's seminal contribution to the evolution of

	political theorizing in India.
SEC -4 Political Journalism	This paper deals with concepts and dimensions in
	journalism, mass communication and political
	journalism. It highlights various aspects of press,
	media and its type and methods. This course will help
	learners to understand dynamics within Journalism,
	Political journalism and communication means and
	ends and his process in society and nation. This
	course will give introduction to the students of
	journalism aims to provide voters with the information to formulate their own opinion and
	participate in community, Local to global matter that
	will effect then political journalism is provided
	through different mediums in print, broadcast, online
	reporting, instant coverage of campaign politics,
	event news, government status, elections updates etc.
GE 1 B Management and	This paper provides the conceptual framework of the
Good Governance	civil services and good governance. It delves deep in
	meaning, origin, forms of civil services and good
	governance in general. This course will be helpful
	and encourage students to acknowledge civil services
	and good governance process in India. An intention
	of this paper is to understand origin, development,
	and challenges before good governance in India.

Class	Course	Courses Outcomes
F.Y.B.A	CC-Soc G-101-Introduction	• To introduce the students to the Discipline of
Sem-I	to Sociology	Sociology.
		• To Familiarize students with the basic concepts of
		Sociology.
		• To provide basic understanding of the Social
		Structure of Society.
Sem-II	CC-Soc G-201-Foundation	• To introduce the students to the Discipline of
	of Sociology	Sociology.
		• To Familiarize students with the basic concepts of
		Sociology.
		• To provide basic understanding of the Social
S.Y.B.A.	DSC SOC 1 C (221) Indian	Structure of Society.
S.Y.B.A. Sem-III	DSC-SOC 1 C (231) Indian	1) To Sensitive the student to the Emerging social issues in India.
Sem-m	Society : Issues and Problems	2) To Enable them to acquire sociological
		understanding of these issues and problems over and
		above their commonsense understanding.
		3) To empower them to deal with these issues and
		problems.
	SEC-SOC 1 (234) Research	To understand the knowledge of social research
	Methodology in Sociology	introduction, Essential Stages and Techniques.
Sem-IV	DSC-SOC 2 C (241) Indian	1) To Sensitive the student to the Emerging social
	Society : Issues and Problems	issues in India.
		2) To Enable them to acquire sociological
		understanding of these issues and problems over and
		above their commonsense understanding.
		3) To empower them to deal with these issues and
	SEC SOC 2 (244) Descent	problems.
	SEC-SOC 2 (244) Research	To understand the knowledge of social research
	Methodology in Sociology	Sampling techniques, Data Collections and Data processing and Interpretation.
T.Y.B.A.	DSC-SOC 1 E (351) Indian	1. To introduce students the socio-cultural
Sem-V	Society : Structure and	background of the Indian society.
Seni v	Change	2. To familiarize students with the institutional
		changes in the Indian society since the ancient period.
		3. To get the basic understanding of the various social
		processes in the Indian Society.
	SEC-SOC 3 (354) Women in	1. To introduce students the basic concepts of the
	India	women studies.
		2. To understand overall situation of women under
		the system of patriarchy in India.
		3. To sensitize the student to the emerging women
		social issues in India.
	GE-SOC 1 A (355) Sociology	1. To impart knowledge on basic sociological
	for Competitive Examinations	concepts and various sociological perspectives.
		2. Students will demonstrate familiarity with the
		Sociological Imagination. 3. To practice the students for competitive
		Examinations of state and Central Government
		department.
		4. To help the students to achieve a career after

#### **Department of Sociology**

		graduation.
Sem-VI	DSC-SOC 1 F (361) Indian Society : Structure and Change	<ol> <li>To introduce students the socio-cultural background of the Indian society.</li> <li>To familiarize students with the institutional changes in the Indian society since the ancient period.</li> </ol>
		3. To get the basic understanding of the various social processes in the Indian Society.
	SEC-SOC 4 (364) Women in India	<ol> <li>To introduce students the basic concepts of the women studies.</li> <li>To understand overall situation of women under</li> </ol>
		the system of patriarchy in India. 3. To sensitize the student to the emerging women social issues in India.
	GE-SOC 1 B (365) Sociology for Competitive Examinations	<ol> <li>To impart knowledge on basic sociological concepts and various sociological perspectives.</li> <li>Students will demonstrate familiarity with the Sociological Imagination.</li> <li>To practice the students for competitive Examinations of state and Central Government department.</li> <li>To help the students to achieve a career after graduation.</li> </ol>

~1	Department of Defence and Strategic Studies				
Class	Course	Course Outcomes			
F.Y.B.A.	DEF-101-A- Military System	After understanding this course a student will be in a			
Sem-I	of Modern India (Up to -	position to –			
	1947)-I	1. To study the development of Indian Army, Navy			
		and Air Force.			
		2. Become familiar in evaluation of military system			
C H		of modern India.			
Sem-II	DEF-201-A Military System	After understanding this course a student will be in a			
	of Modern India (Up to -	position to –			
	1947)-II	1. To study the development of Indian Army, Navy			
		and Air Force.			
		2. Become familiar in evaluation of military system			
		of modern India.			
Sem-III	DSC-DFE – 231	To develop special subject knowledge on the vital			
Seni III	India's National Security-I	concept of National Security and the approaches to			
	india 5 Pational Security 1	achieve National Security (Special reference to			
		India.)			
	SEC- DEF - 234	This course introduces and discusses approaches,			
	Research Methodology in	strategic, and data collection method relating to			
	Defence and Strategic	research in Defence and strategic studies. Students			
	Studies-I(Skill Base Course)	will consider how to select the appropriate			
		methodology for use in study to be performed.			
Sem-IV	DSC-DFE - 241	To develop special subject knowledge on the vital			
	India's National Security-II	concept of National Security and the approaches to			
		achieve National Security (Special reference to			
		India.)			
	SEC- DEF - 244	This course introduces and discusses approaches,			
	Research Methodology in	strategic, and data collection method relating to			
	Defence and Strategic	research in Defence and strategic studies. Students			
	Studies-II (Skill Base Course)	will consider how to select the appropriate			
		methodology for use in study to be performed.			
Sem-V	DSC-DEF- E-	1] To create understanding the challenges to			
	351 International Security	International Security and World Peace among the			
	Issues- I				
	Issues- I	students.			
	Issues- I				
	Issues- 1	students. 2] To study the International strategic & Security issues.			
	Issues- 1	2] To study the International strategic & Security issues.			
	Issues- I	<ul><li>2] To study the International strategic &amp; Security issues.</li><li>3] To analyze and evaluate the International security</li></ul>			
		<ul><li>2] To study the International strategic &amp; Security issues.</li><li>3] To analyze and evaluate the International security issues.</li></ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students</li> </ul>			
		<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> </ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in</li> </ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> </ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement</li> </ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research</li> </ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research and defence production.</li> </ul>			
	SEC-DEF- 354	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research</li> </ul>			
	SEC-DEF- 354 Defence Research GE-DEFA- 355	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research and defence production.</li> <li>1] To understand the concepts of disaster and disaster</li> </ul>			
	SEC-DEF- 354 Defence Research GE-DEFA- 355 Disaster Management &	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research and defence research and defence production.</li> <li>1] To understand the concepts of disaster and disaster management.</li> </ul>			
	SEC-DEF- 354 Defence Research GE-DEFA- 355	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research and defence production.</li> <li>1] To understand the concepts of disaster and disaster management.</li> <li>2] To study the Structure, role and problems of</li> </ul>			
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	SEC-DEF- 354 Defence Research GE-DEFA- 355 Disaster Management &	<ul> <li>2] To study the International strategic &amp; Security issues.</li> <li>3] To analyze and evaluate the International security issues.</li> <li>1] To enhance the knowledge and skill of the students regarding India's defence research and production.</li> <li>2] To provide an overview of the progress of India in defence research and defence production.</li> <li>3] To make the students aware with the advancement and its development in the field of defence research and defence production.</li> <li>1] To understand the concepts of disaster and disaster management.</li> <li>2] To study the Structure, role and problems of</li> </ul>			

# **Department of Defence and Strategic Studies**

Sem-VI	DSC-DEF- E-	1] To create understanding the challenges to
	361 International Security	International Security and World Peace among the
	Issues- II	students.
		2] To study the International strategic & Security
		issues.
		3] To analyze and evaluate the International security
		issues.
	SEC-DEF- 364	1] To enhance the knowledge and skill of the students
	Defence Research	regarding India's defence research and production.
		2] To provide an overview of the progress of India in
		defence research and defence production.
		3] To make the students aware with the advancement
		and its development in the field of defence research
		and defence production.
	GE-DEFA- 365	1] To understand the concepts of disaster and disaster
	Disaster Management &	management.
	Security – II	2] To study the Structure, role and problems of
		disaster management in India.
		3] To assess the India's disaster management
		mechanism.

Class	Course	Course Outcomes
F.Y.B.A. Sem	HIS-G-101-B History of	To understand the history of civilization from the
- I	Civilization (From Stone Age to A.D.1453) -I	beginning of mankind, Ancient civilization and classical civilization.
Sem-II	HIS-G-201-B History of Civilization(From Stone Age to A.D.1453) –II	To understand the history of civilization main religions in the Ancient world, feudalism and Rise of growth and power of Islamic Powers.
S.Y.B.A. Sem-III	DSC-HIS-230 Social Formation and Cultural Patterns of the Ancient World	<ol> <li>To introduce the student for the culture of medieval world.</li> <li>To highlight Economic development in Europe.</li> <li>To get acquainted with basic concepts, theories and methodology of social Philosophy.</li> <li>To enable the students to understand the Economic, Religion, Societies and Cultural Development of Medieval World.</li> </ol>
Sem-IV	DSC-HIS- 240 Social Formation and Cultural Patterns of the Medieval World	<ol> <li>To introduce the student for the culture of medieval world.</li> <li>To highlight Economic development in Europe.</li> <li>To get acquainted with basic concepts, theories and methodology of social Philosophy.</li> <li>To enable the students to understand the Economic, Religion, Societies and Cultural Development of Medieval World.</li> </ol>
T.Y.B.A. Sem-V	DSC 2 E HIS 351 History of civilization	To understand the history of Socio-Economical Change in Europe from the 14th to 17th Century. To understand the history of Transition from Feudalism to Capitalism. To understand the history of Rise of Neo-imperialism and First World War.
Sem-VI	DSC 2 F HIS 361 History of civilization	<ol> <li>Syllabus covers the competitive Examinations. (UPSC, MPSC, NET, SET, Railway Board and Staff Selection etc.)</li> <li>To make awareness about Socio-economical World History.</li> <li>To highlight Economic development in Europe.</li> <li>To enable the student to understand the Economic Development of Modern World.</li> </ol>

# Department of History of Civilization