

# Criteria II Teaching-Learning Evaluation 2024-25







# Criteria II

# Teaching-Learning Evaluation

**Key Indicator: 2.6** 

### **Students Performance and Learning Outcomes**

2.6.1 Program Outcomes [POs] and Course Outcomes [COs] for all programs offered by the institution are stated and displayed on website.

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# Program Outcomes [POs] and Course Outcomes [COs]





# Programme Outcomes [POs], Programme Specific Outcomes and Course Outcomes [COs]

#### I. PREAMBLE:

Dr. Ghali College, Gadhinglaj has clear vision about outcome-based education process in accordance with UGC guidelines. Learning Outcomes of the Programs and Courses are highlighted and made aware to the students in the induction ceremony-cum-orientation programme at the beginning of the session. Moreover, it inculcates employability and entrepreneurial skills in the students. The importance of the learning outcomes has been discussed and communicated to the teachers. The curricula under NEP 2020 have been strengthened with the introduction of OBE and the courses have been reinforced with desirable outcomes. Course Outcomes are assessed at the completion of each course and the Programme Outcomes are measured at the time of completion of the programme. OBE enriches the courses offered in each programme, equips the teachers with knowledge and skill, and, empowers the learners with attainable outcomes of the programme. It develops the optimistic attitude in the learners towards vertical development in their future endeavours.





#### II. Graduate Attribute:

The graduate attributes of Dr. Ghali College, Gadhinglaj are aimed at the 'holistic development' of graduates and post-graduates. Our graduates have the features including knowledge, skills, attitude and values which are acquired by them through college. Students develop capability for widening current knowledge base and skills, gaining new knowledge and skills, undertaking future studies, performing well in a chosen career and playing a constructive role.

These attributes are aligned with the program specific outcomes, program outcomes and content, teaching methods and assessment.

#### 1. Educational Excellence

- ➤ Students in the College are equipped with the skills, motivation and confidence to engage in continuous learning to meet the personal, professional and vocational challenges of an ever changing world.
- ➤ Intellectual Capacity which includes domain knowledge, critical thinking, digital literacy, problem solving skills, research skills, analytical thinking, reasoning, innovation, self-learning, entrepreneurial skills.
- ➤ Ability to apply knowledge to the real word problems.



➤ Capacity to participate in collaborative learning and to deal with unfamiliar problems.

#### 2. Personality and Leadership

- ➤ Every effort is made to equip the students with confidence, capability, assurance, independence and enterprise so as to enable them to fulfil their personal and career aspirations.
- ➤ Capacity for self-reflection, self-discovery and personal development.
- ➤ An awareness of personal strengths and weaknesses.
- ➤ Confidence in taking risks and challenges.

#### 3. Communication Skills

- ➤ Ability to use proper communication skills for successful interaction in personal and public life.
- ➤ Ability to participate in constructive discussions and debates.
- ➤ Ability to express thoughts and ideas effectively in writing and orally.
- ➤ Ability to use appropriate style, methods and resources in communication.

#### 4. Global Citizenship:

➤ It is our goal to make the students accustomed to contemporary, social and cultural issues so that they make meaningful contributions to local, national and global communities.



- ➤ Various seminars and discussions organized by the college and different associations in the college ensure that students of our College fulfil the role of a good and engaged citizen.
- ➤ Students are expected to be aware of generally accepted norms of ethical behaviour and are encouraged to act in a socially responsible manner both in the campus and other settings.
- Ability to think globally about issues in their profession.

#### **5. Intellectual Competencies**

- ➤ Graduates of GCC have a comprehensive and incisive understanding of their domain of study as well as the capability for cross-disciplinary learning.
- ➤ They have the ability to apply the knowledge acquired through the curriculum as well as self-directed learning to a broad spectrum ranging from analytical thinking to synthesise new knowledge through research.
- > Forming independent individual opinions regarding academic cores and socially relevant issues

#### 6. Professional Ethics

- ➤ Graduates of GCC develop ethical and professional behaviour, which will be demonstrated in their chosen careers and constructive citizenship roles.
- ➤ They imbibe intellectual integrity and ethics in scholarly engagement and develop a spirit of inclusiveness through interactions with people of special needs and diversity.



#### 7. Holistic Skill Development

- ➤ Graduates of GCC develop critical thinking, problem-solving, effective communication, emotional and social skills
- > They develop digital competency to live, learn and serve in society.

#### 8. Service-Oriented Focus

- ➤ Graduates of GCC have sensitivity to social concerns and a conviction toward social justice through a commitment to active social engagement.
- They are endowed with a strong sense of environmental awareness through the curriculum and campus eco-system.

#### 9. Information/digital literacy:

- ➤ Capability to use ICT in a variety of learning situations
- ➤ Demonstrate ability to access, evaluate, and use a variety of relevant information sources
- > Use appropriate software for analysis of data.

#### 10. Lifelong learning:

Ability to acquire knowledge and skills, including learning how to learn, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/re-skilling.



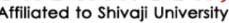
BLOOM'S TAXONOMY		
( reate		<b>Use Existing Information to make something new</b> Invent, Develop, Design, Compose, Generate, Construct
	Evaluate	Make judgments based on sound analysis Assess, Judge, Defend, Prioritize, Critique, Recommend
	Analyze	<b>Explore relationships, causes, and connections</b> Compare, Contrast, Categorize, Organize, Distinguish
	Apply	Use existing knowledge in new contexts Practice, Calculate, Implement, Operate, Use, Illustrate
	Understand	Grasp the meaning of something Explain, Paraphrase, Report, Describe, Summarize
	Remember	Retain and recall information Reiterate, Memorize, Duplicate, Repeat, Identify





#### Vidya Prasarak Mandal's

# DR. GHALI COLLEGE G A D H I N G L A J Affiliated to Shivaji University



# **PROGRAMME OUTCOMES [POs]**

	Programme Outcomes M.Sc.		
After the (	After the Completion of two years post-graduation programme, students will be		
	uire the following Attributes		
PO 1	Knowledge of the concepts through theoretical understanding of the		
	principles of Chemistry and Microbiology.		
PO 2	Basic understanding in the major area(s) of research and acquire basic		
	tools needed to carry out minor research projects.		
PO 3	The ability to implement chemistry in an integral activity of social,		
	economic and environmental problems.		
PO 4	Skills in problem solving, critical thinking and analytical reasoning in		
	designing problems in research.		
PO 5	Knowledge of for safe handling of chemicals in research and applied		
	chemical laboratory.		
PO 6	Inculcate the scientific temperament in the students and outside the		
	scientific community.		
PO 7	Employ critical thinking and the scientific knowledge to design,		
	carryout, record and analyze the results of chemical reactions.		
PO 8	Solve the problem and also interpret methodically, independently and		
	draw a logical conclusion.		
PO 9	Prepare students for pursuing research or careers in industry in		
	sciences and allied fields.		
PO 10	Create awareness to become an enlightened citizen with commitment		
	to deliver one's responsibilities.		





# Vidya Prasarak Mandal's

# DR. GHALI COLLEGE GADHINGLAJ



Affiliated to Shivaji University

<b>Programme</b>	Outcomes	B.Sc.
	Cuttoniites	

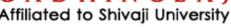
After the Completion of three years graduation programme, students will		
be able to acquire the following Attributes:		
PO 1	Gain the knowledge of fundamentals, models, the basic scientific	
	principles and methods.	
PO 2	Inculcating scientific thinking and awareness among the student.	
PO 3	Able to use proper communication skills for successful interaction in	
	personal and public life.	
PO 4	Ability to handle the unexpected situation by critically analyzing the	
	problem.	
PO 5	Understanding the issues related to nature and environmental contexts	
	and sustainable development.	
PO 6	Provide practical experience to the students as a part of the course to	
	develop scientific ability to work in the field of research and their own	
	interest and to make them fit for society.	
PO 7	Respond effectively to unfamiliar problems in scientific contexts.	
PO 8	Able to work both as an individual and to get her with people of	
	different socio-cultural backgrounds.	
PO 9	Able to acquire emerging knowledge and skills and adapt to the	
	changing needs of the times.	
PO 10	The student will learn professionalism, including the ability to work in	
	groups and in society and apply basic ethical principles.	





# Vidya Prasarak Mandal's DR. GHALI COLLEGE







Programme Outcomes M.Com.		
After the Completion of two years post graduation programme, students		
will be ab	le to acquire the following Attributes:	
PO 1	To acquaint the learners with skills and capabilities to handle	
	managerial and administrative responsibilities.	
PO 2	To demonstrate the decision-making ability by application of theories	
	in real life business situations.	
PO 3	To imbibe entrepreneurial temperaments, skills and capabilities among	
	the learners.	
PO 4	To demonststrate the knowledge of commerce and industry in business	
	applications.	
PO 5	To acquaint the knowledge of accounting, costing, taxation and	
	administration.	
PO 6	To acquaint with conventional and contemporary thoughts, ideas and	
	practices.	
PO 7	Able to use various costing tools for decision making.	
PO 8	Understand and use sense of corporate, social responsibilities and area	
	of expenditure. E.g. education, Poverty education etc.	
PO 9	Able to plan and implement tasks independently by project	
	management skill.	
PO 10	Acquire advanced knowledge of principles, theories and standard in	

commerce and management.







# **Programme Outcomes B.Com.**

After the Completion of three years graduation programme, students will be able to acquire the following Attributes:

be able to	acquire the following Attributes:	
PO 1	Excel in the field of Accounting, Finance, Auditing, Taxation,	
	Information Technology and related areas of Commerce	
PO 2	Possess with good administrative and managerial skills to succeed in	
	the competitive world	
PO 3	Analyze and evaluate the possible opportunities in business	
	environment and to excel in the field of entrepreneurship globally	
PO 4	Prepare for post graduate studies and professional courses to achieve	
	success in their career.	
PO 5	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 6	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 7	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 8	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 9	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 10	Obtain proficiency in fundamentals of Law, relating to Business	







# **Programme Outcomes M.A.**

After the Completion of two years post-graduation programme, students will be able to acquire the following Attributes:

will be ab	ole to acquire the following Attributes:
PO 1	Able to use knowledge of the disciplines concerned.
PO 2	Able to identify, analyze and find solution to real life problems.
PO 3	Able to develop critical and creative thinking.
PO 4	Able to feel accountable, accommodative and committed to
	team/organization.
PO 5	Able to understand social challenges, contemporary issues (political,
	social, economic, linguistic and cultural) and appreciate diversity in
	the world.
PO 6	Able to identify, analyse and find solutions to real life problems.
PO 7	Develop an urge to engage in the process of new learning
	beneficial to self and society.
PO 8	Able to follow ethical principles and display a sense of human values
	(truth, honesty, integrity, etc.).
PO 9	Able to undertake environmentally sustainable practices and minimize
	threat to ecological balance.
PO 10	Able to feel accountable, accommodative and committed to
	team/organization.







#### **Programme Outcomes B.A.** After the Completion of three years graduation programme, students will be able to acquire the following Attributes: Motivation to learn and use new and beneficial things for personal and **PO 1** societal benefit. Able to practice ethics in public life and demonstrate adherence to PO<sub>2</sub> human values. Able to use natural and community resources with a sense of **PO 3** responsibility and engage in environmentally sustainable practices. **PO 4** Able to understand and interact with people belonging to diverse backgrounds (social, cultural, economic, religious and linguistic) and use culture-specific norms. Effective speaking, active listening, giving and receiving feedback, **PO 5** empathy and respect for others. Able to use appropriate individual and group behaviour in real life **PO 6** situations. Able to use skills acquired during the programme in real life situations. **PO 7** Able to analyse problems objectively and find solutions. **PO 8** Able to apply techniques, skills and tools in new contexts. **PO 9** Acquire knowledge of fundamentals, principles and methods. **PO 10**







# **Programme Outcomes BBA**

After the Completion of three years graduation programme, students will be able to acquire the following Attributes:

be able to	acquire the following Attributes:	
PO 1	Acquire fundamental education in management and business	
	principles.	
PO 2	Acquire professional skills as a management profession.	
PO 3	Deep understanding and development of important business skills such	
	as leadership communication skills, critical thinking and decision	
	making.	
PO 4	Build up self-confidence and competency to take up self-employable	
	business ventures.	
PO 5	Inculcate Entrepreneurship skills.	
PO 6	Identify the different functional aspects of business world and	
	recognize different opportunities of business	
PO 7	Acquire the different employability skills, entrepreneurial skills	
	necessary for the professional attitudes	
PO 8	Recognize and solve business problem in an ethical manner.	
PO 9	Analyze the importance of innovation and research, tackle the	
	contemporary needs and accordingly grab the opportunities.	
PO 10	Develop effective and oral communication especially in business	
	applications, with the use of appropriate technology.	







# **Programme Outcomes B.Com.IT**

After the Completion of three years graduation programme, students will be able to acquire the following Attributes:

1 11001 0110	completion of time years graduation programme, statement with	
be able to	acquire the following Attributes:	
PO 1	Excel in the field of Accounting, Finance, Auditing, Taxation,	
	Information Technology and related areas of Commerce	
PO 2	Possess with good administrative and managerial skills to succeed in	
	the competitive world	
PO 3	Analyze and evaluate the possible opportunities in business	
	environment and to excel in the field of entrepreneurship globally	
PO 4	Prepare for post graduate studies and professional courses to achieve	
	success in their career.	
PO 5	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 6	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 7	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 8	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 9	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	
PO 10	Obtain proficiency in fundamentals of Law, relating to Business and	
	commercial activities	







#### **Programme Outcomes BCA** After the Completion of three years graduation programme, students will be able to acquire the following Attributes: Appreciate and apply mathematical organization. Computing and **PO** 1 domain information for the conceptualization of computing models from clear harms. PO<sub>2</sub> Talent to classify, significantly evaluate and prepare complex computing problems using fundamentals of computer knowledge and request domains. Apply knowledge of ICT in solving business problems. **PO 3** Learn various programming languages and custom software. **PO 4 PO 5** Design components, or processes to meet the needs within realistic constraints. **PO 6** Identify, formulate, and solve problems using computational temperaments. Comprehend professional and ethical responsibility in computing **PO 7** profession. Express effective communication skills. **PO 8 PO 9** Utilize the techniques, skills and modern tools, for actual development process. Recognize the need for interdisciplinary, and an ability to engage in **PO 10** lifelong learning.





# **Programme Specific Outcomes and Course Outcomes**

# **SCIENCE**

Programme Specific Outcomes: M.Sc. Chemistry	
After Completion on the two years' post-graduation programme in M.Sc.	
Chemistry, Students will able to -	
PSO 1	Apply the knowledge of Chemistry in daily life and job place.
PSO 2	Interpret the structure of the synthesized compounds
PSO 3	Explain good laboratory practices and safety.
PSO 4	Apply the subjected oriented skills to society.
PSO 5	Use of sophisticated instruments/equipment's.



# M.Sc. I Semester I (NEP)

# **Paper I: Inorganic Chemistry–I)**

Course Outcomes: M.Sc. Chemistry		
At the end of	At the end of the course Students will able to	
CO 1	Students will be able to explain the basic chemistry of transition	
	metals and its compounds, nomenclature, reactions and applications.	
CO 2	Students will obtain knowledge about Preparation, structure,	
	physical and chemical properties of metal carbonyls of	
	transition metals.	
CO 3	Students will be able to understand and the all aspects of synthesis,	
	bonding, structure and reactivity of organometallic compounds and	
	their applications in homogenous catalysis.	
CO 4	Student will be able to determine the stability of the complexes and	
	will be able to explain the nuclear ability and reactions.	

# Paper II: Organic Chemistry–I

At the end of	At the end of the course Students will able to	
CO 1	Students will able to differentiate between various organic reactive	
	intermediates.	
CO 2	Students can recognize, classify, explain, and apply fundamental organic reactions.	
CO 3	Students will have ability to distinguish between different kinds of isomers.	
CO 4	Course will develop interest in writing and finding mechanisms of new reactions.	



# **Paper III: Analytical Chemistry-I**

At the end of	the course Students will able to
CO 1	Students would acquire the knowledge about the fundamentals of
	Analytical Chemistry including the sampling, sample pre-treatment,
	basic techniques, methods and data handling, processing and
	statistical analysis of the same.
CO 2	Students would acquire the knowledge and understand the
	scope of Analytical Chemistry spanning various fields. The
	students will earn fundamentals of qualitative analysis using
	conventional techniques.
CO3	Students will earn the chromatographic techniques, choice of
	chromatographic techniques and tuning of the chromatographic
	technique as per the need based on the samples to deal with, learn
	electro analytical techniques and computation chemistry which
	would groom them for alternative analytical strategies which form
	one of the important components of analytical chemistry.
CO 4	Students will learn about refer into the standard reference books and
	information from the same. Analytical case study problems would
	be discussed familiarize with the scope and advantages of
	Analytical Chemistry.

# Paper IV: Research Methodology

At the end of the course Students will able to	
CO 1	Students who complete this course will be able to understand and comprehend the basics in research methodology and applying them
	in research/ project work.
CO 2	This course will help them to select an appropriate research design.



CO 3	With the help of this course, students will be able to take up and
	implement a research project/ study.
CO 4	The course will also enable them to collect the data, edit it properly and analyse it accordingly. Thus, it will facilitate students' prosperity in higher education.
CO 5	The Students will develop skills in qualitative and quantitative data
	analysis and presentation.

#### M.Sc. I Semester II

# **Paper V: Organic Chemistry-II**

At the end of the course Students will able to	
CO 1	Illustration of modern synthetic methods and applications of
	reagents.
CO 2	Provide knowledge of different organo metallic compounds and
	various coupling reactions.
CO 3	Understand principle and applications of protection and deprotection
	of various functional groups.
CO 4	It will elaborate to understand the concept of chemoselectivity,
	region selectivity and enantioselectivity.

# Paper VI: Physical Chemistry–II

At the end of	At the end of the course Students will able to	
CO 1	Knowledge of the course will form the basis or essential	
	requirement for the course "Advanced Quantum Chemistry"	
CO 2	The objective of this course is for students to gain a firm	
	understanding of the mathematical and physical aspects of the	
	behaviour of chemical systems, classical and statistical	
	thermodynamics, chemical kinetics, and the properties of matter.	



CO 3	Able to study photochemical and photo physical phenomena
CO 4	Capable of understand the electrochemical aspects of
	materials, ionic processes and electrochemical sensors, battery
	materials and characterizations etc.
CO 5	Able to study electro kinetic effects and their applications in the
	field of protein separation, characterization etc.

# Paper VII: Analytical Chemistry-II

At the end of	the course Students will able to
CO 1	Students will acquire the knowledge of spectroscopic
	tools/instruments used in chemical analysis and interpretation of
	the data. The scope and limitations of the spectroscopic tools
	would be discussed so that the students learn about the type of
	samples which could be analyzed by these tools of faring choices
	among the spectroscopic tools.
CO 2	Students will learn about the simple and advanced instruments used
	for analysis like NMR, MS, AAS, ICP and thermal analysis (TGA,
	DTA, DSC etc.) techniques spanning wide variety of samples to be
	considered for analysis.
CO 3	Students will learn about the instrumentation, sample preparation
	and handling of sample, analysis and data interpretation and
	structural elucidation.
CO 4	Learning about different instruments will give them idea about
	appropriate choice of the instrument for analysis based on the source
	and type of analyse(s) in the sample under consideration.

# Paper VIII: On Job Training

At the end of the course Students will able to	
CO 1	When new employees learn applicable skills for their role while in
	the workplace.
CO 2	It's a practical training method focused on a hands —on approach in



	a live or simulated training environment, typically under the guidance of a supervisor or mentor.
CO 3	Trainees start learning the easier parts of their job first. As such, they can take on small responsibilities before they even complete training.
CO 4	Employee retention is crucial in any industry. However, employees aren't as effective if they are unsure of what exactly their job details.

# M.Sc. II Semester III

# **Paper IX: ACH-3.1 Advanced Analytical Techniques**

At the end of	the course Students will able to
CO 1	Develop knowledge of fundamental, instrumentation and working
	of state of art instrumental analytical techniques, effective use and
	choice of technique, written and/or oral communication of the
	concepts of analytical chemistry which will be useful as analytical
	chemist and R&D.
CO 2	Acquire knowledge of mass spectrometry, type of MS, ionization
	type's and specific practical applications of MS.
CO 3	Acquire knowledge of basics of nanochemistry, nonmaterial's and
	nanotechnology and application orientated synthesis and
	characterization of nonmaterial's.
CO 4	This course gives wide understanding about the instrumental
	analytical techniques (SEM, TEM, EDS, STM, AFM, Raman,
	XFS, ESR, XPS, AES, SIMS etc.) Employed for qualitative and
	quantitative analysis for contemporary research.

# Paper X: ACH-3.2 Organic Analytical Chemistry

At the end of the course Students will able to			
CO 1	Students will ga	nin knowledge of the	instruments used at the



	interface of Analytical-Organic chemistry useful for R&D and structural elucidation using-Visible, IR, 1H & 13CNMR, Mass spectrometry data and Interpretation of the same.
CO 2	Students will acquire knowledge about the drug, their classification, sources of impurities (chemical, atmospheric and microbial contamination) in pharmaceutical raw materials and analysis of the same.
CO 3	Students will gain knowledge about the conventional and advanced analytical approaches for analysis of Drug, vitamin, body fluids and clinical samples.
CO 4	Students will have an Idea of commonly used pesticides and their analysis and also about forensic Science and forensic sample analysis.

Paper XI: ACH-3.3 Electro analytical Techniques in Chemical Analysis

At the end of	At the end of the course Students will able to	
CO 1	Fundamental knowledge of electrochemistry, electrodes, types of	
	electrodes, its construction will lay foundation for the course.	
CO 2	Students will gain knowledge and skill in electro analytical	
	techniques like cyclic voltammeter and its types, palaeography,	
	coulometer and dynamic light scattering technique for qualitative	
	and quantitative analysis.	
CO 3	Students will be familiar with the advanced electrodes used for	
	chemical analysis, liquid-liquid membrane electrodes, enzymes and	
	gas electrodes.	
CO 4	Students will earn about electrophoresis techniques, advances in	
	electrophoresis techniques and its analytical applications.	



# Paper XII: ACH-3.4 Environmental Chemical Analysis & Control

At the end	At the end of the course Students will able to	
CO 1	Students will acquire knowledge about sampling, criteria of good	
	sampling, handling, preservation and storage of the samples, pre-	
	treatment and post treatment of samples.	
CO 2	Students will acquire knowledge of conditions and strategies	
	required during sampling and Electrochemical and spectral	
	methods for analysis of environmental samples.	
CO 3	Students will earn about the air and water pollution, Sources of pollution, typical parameters and properties (physical, chemical and	
	biological) to be measured in Air and water pollution with relevance to	
	specific case Studies.	
CO 4	Students will be acquainted with organic pollutants and their analysis	
	with special reference to pesticide Analysis.	

#### **M.Sc.II Semester IV**

#### **Paper XIII: 4.1 (Modern Separation Method in Analysis)**

At the end	At the end of the course Students will able to	
CO 1	Students will learn about modern separation and chromatographic used	
	for analysis of different type of samples	
CO 2	The student will understand instrumentation and mechanism of	
	various separation techniques.	
CO 3	Student will acquire knowledge regarding various choice of instrument	
	and detectors to be used for analysis depending on the sample and	
	matrix	
CO 4	Student will learn fundamentals of extractive chromatography, types	
	of extraction techniques, advances in extraction methods and their	
	hyphenations with chromatography leading to address in challenging	
	problems in analytical chemistry	



# **Paper XIV: Organic Industrial Analysis**

At the end	of the course Students will able to
CO 1	Acquire knowledge of handling and investigating the characteristics
	of the oils, fats, detergents and soap samples and analysis of
	The same providing opportunity in cosmetic, Pharmaceuticals, dyes
	and polymers industries.
CO 2	Student will gain knowledge and Importance of food quality, probe
	for food adulteration and adulterants, food preservative, food flavours
	and analysis of their components.
CO 3	Students will also gain knowledge about the animal food stuff and
	the additives added in the animal food stuffs antibiotics, dietary
	supplements and growth promoting drugs, preservatives etc. and
	analysis of the same.
CO 4	Student will learn about the analysis of cosmetics, face powder, hair
	dyes and hair care products, types of cosmetics, precautionary
	measures and composition of the cosmetics and specific roles of the
	ingredients. Will acquire knowledge about the paints, pigments and
	petroleum products, composition and analysis of the same using
	conventional and instrumental techniques.

# Paper XV: Advanced Methods in Chemical Analysis

At the end of the course Students will able to		
CO 1	Students will be skilled in the techniques like fluorescence,	
	phosphorescence, types of quenching, FRET and applications of the	
	same in analytical Chemistry and for addressing research problems.	
CO 2	Students will gain knowledge of the kinetic methods of analysis	
	supporting the analysis and data procured in research.	
CO 3	The students will acquire the knowledge of advanced method of	
	chemical analysis XPS, XRF, fluorescence and phosphorescence	
	spectroscopy which will be beneficial in research.	



CO 4	Students will acquire knowledge of identifying types of plastic and
	will also be able to and determination of metallic impurities in plastics.

# **Paper XVI: Industrial Analytical Chemistry**

At the end	At the end of the course Students will able to	
CO 1	The students will acquire knowledge of analysis of metals, alloys, minerals and ore commonly used in the industry.	
CO 2	The students will be acquainted with the analysis of real samples like cement, plaster of Paris, different commercial ores, soil composition, soil fertility, fertilizers etc using conventional and instrumental methods of analysis.	
CO 3	Students will also gain the knowledge of analysis of commercial materials, explosives, polymers, resins, rubber, luminescent paints, lubricants and adhesives.	
CO 4	These would of opportunity to the students to get employment in industries for quality assurance and quality control (QA-QC) of the product.	



Pro	Programme Specific Outcomes: B.Sc. Chemistry	
After Comple	After Completion on the three years' graduation programme in B.Sc. Chemistry,	
Students will	able to -	
PSO 1	Develop ability and to acquire the knowledge of terms, facts,	
	concepts, processes techniques and principles of subjects.	
PSO 2	Develop ability to apply the knowledge of contents of principles of	
	chemistry.	
PSO 3	Increase working knowledge of instruments and obtaining the	
	knowledge of Pharmaceutical tablets.	
PSO 4	To develop skills required in chemistry such as the proper handling	
	of apparatus and chemicals and Social awareness about the quality	
	of water.	
PSO 5	Learn laboratory skills and safety to transfer and interpret	
	knowledge entirely in the work in environment.	
PSO 6	Awareness about plastic garbage	

#### **B.Sc. I Semester I NEP**

# **Paper I: Inorganic Chemistry**

Course Outcomes : B.Sc. Chemistry		
At the end of	the course Students will able to	
CO 1	The size, shape and electron distribution in shells and sub- shells of	
	an atom.	
CO 2	The different types of bonds and nature of bonding in inorganic	
	compound, Calculation of different energies associated with ionic	
	bonding.	
CO 3	The properties and uses of the compounds of p-block elements.	
CO 4	The role acids and bases in chemistry, the study is useful in all	
	chemical areas.	



#### **Paper II: Organic Chemistry**

At the end of the course Students will able to	
CO 1	The fundaments and basic principle involved in organic chemistry.
CO 2	The spatial arrangements of atom of organic molecules and type of
	stereoisomer.
CO 3	The general properties and fundamental reactions of aromatic
	compounds.
CO 4	The basics of heterocyclic compounds along with their physical,
	chemical and synthetic properties.
CO 5	Fundamentals of Reaction Mechanism.

# **B.Sc. I Semester II**

#### **Paper III: Physical Chemistry**

At the end of	At the end of the course Students will able to	
CO 1	Basic concepts and rules of logarithms, graphs, derivatives and	
	integration.	
CO 2	The basic concept in thermodynamics.	
CO 3	Basic concept in kinetics and first order, second order reactions with	
	characteristics and suitable examples	
CO 4	Basics in surface tension, viscosity and refractive index with	
	examples.	
CO 5	Basic concept in electrochemistry, conductors, conductivity cells	
	along with measurement of conductance with examples and	
	numerical problems.	

#### **Paper IV: Analytical Chemistry**

At the end of	At the end of the course Students will able to	
CO 1	Analytical procedures and importance of sampling	
CO 2	Classical and industrial chemistry with their distinctions and basic	
	concept and concentration term.	
CO 3	Chromatography separation technique and terms for paper and thin	
	layer chromatography.	



CO 4	Type of titrations, neutralization curves and indicators.
CO 5	The chemical nature and cleaning action of soap.

#### **B.Sc. II Semester III**

# **Paper V: Physical Chemistry**

At the end of the course Students will able to	
CO 1	Conductivity and transport number and apply this knowledge to
COI	solve numerical problems.
	solve numerical problems.
CO 2	Basics in thermodynamics and entropy concept.
CO 3	Meaning of kinetics, order of reaction, third order reaction with
	respect to its characteristics, examples, methods to determination of
	order of reaction and numerical problems.
CO 4	Ideal and real gases and their dependence on pressure, temperature
	and volume.
CO 5	Introductory part about the liquid crystals and their applications.

#### **Paper VI: Analytical Chemistry**

At the end of	At the end of the course Students will able to	
CO 1	Basics in gravimetric analysis.	
CO 2	Various analytical techniques for water analysis.	
CO 3	Concept of corrosion, electroplating along with their principle and	
	mechanism.	
CO 4	Terms in chromatography, details on column and ion-exchange	
	chromatography and their applications.	
CO 5	Working of petroleum industries, concept of biofuels, details about	
	copyrights and trademarks.	

#### **B.Sc. II Semester IV**

# Paper VII: Inorganic Chemistry

At the end of the course Students will able to	
CO 1	Basic concepts in coordination complexes.
CO 2	Chelates and their applications in Chemistry.



CO 3	d-block elements and their properties
CO 4	f- block elements, their properties and separation method.
CO 5	Qualitative analysis of inorganic Compounds.

# **Paper VIII: Organic Chemistry**

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At the end of	At the end of the course Students will able to	
CO 1	Organic synthesis, reactivity and applications of carboxylic acids	
CO 2	Diazonium salts for their classifications, preparation methods and	
	utilities	
CO 3	Carbohydrates – Classification, configuration and structure	
CO 4	Aldehydes and Ketones with respect to nomenclature and reactivity	
CO 5	Concept of stereochemistry, their terms and conformational analysis	
	of few compounds.	

#### **B.Sc. III Semester V**

# **Paper IX: Inorganic Chemistry**

At the end of the course Students will able to	
CO 1	Pearson's HSAB Concept &Useful for the study of role of acids and
	bases in Chemistry.
CO 2	CFT & MOT
CO 3	Semiconductors, Superconductors & their applications.
CO 4	Synthesis and structural study of Organometallic Compounds.
CO 5	Mechanism and applications of catalyst in industrial fields.

#### **Paper X: Organic Chemistry**

At the end of the course Students will able to	
CO 1	Understanding of energy associated with electromagnetic radiation
	and its use in analytical technique.
CO 2	Knowledge of chromospheres, auxochrome and calculation of $\lambda_{max}$ .
CO 3	Knowledge of vibrational transitions, regions of IR spectrum,
	functional group recognition.



CO 4	Understanding of magnetic-nonmagnetic nuclei, shielding-
	deshielding, chemical shift, splitting pattern
CO 5	Knowledge of molecular ion, fragmentation pattern and different
	types of ions produced.

# **Paper XI: Physical Chemistry**

At the end of the course Students will able to	
CO 1	To create knowledge regarding Atomic Structure.
CO 2	Enhancement of knowledge on phase diagram.
CO 3	Identification on types of solutions.
CO 4	Determination of type of electrodes.
CO 5	To study the different types of solutions.

# **Paper XII: Analytical Chemistry**

At the end of the course Students will able to	
CO 1	Learning and understanding the techniques of gravimetric analysis.
CO 2	Knowledge of instrumental analysis of alkali and alkaline earth
	elements.
CO 3	Understanding, working and applications of optical methods as an
	analytical tool.
CO 4	Understanding theory and applications of potentiometric titrations.
CO 5	Understanding the basics of ion exchange and column adsorption
	chromatography.

#### **B.Sc. III Semester VI**

#### **Paper XIII: Inorganic Chemistry**

At the end of the course Students will able to	
CO 1	Different types of Inorganic Reaction Mechanisms.
CO 2	Electronic configuration of 4f/5f series elements and their
	properties.
CO 3	Nuclear reactions and study of radioisotopes as tracers.
CO 4	Thermodynamic and Kinetic aspects of Inorganic complexes.



CO 5	Biological Role of different elements Na/K/Fe/Ca.
	Biological Role of afficient elements itality of ea.

# **Paper XIV: Organic Chemistry**

At the end of the course Students will able to	
CO 1	Learning and understanding applications of Drug.
CO 2	Knowledge about reagent and its applications.
CO 3	To impart knowledge about the reactions and its mechanism.
CO 4	To study reactions of C=C.
CO 5	To study Retrosynthesis Reaction Pattern.

# **Paper XV: Physical Chemistry**

At the end of the course Students will able to	
CO 1	To create interest among the students about Crystal Lattice.
CO 2	To impart knowledge on Adsorption and Absorption.
CO 3	To understand expression on Thermodynamics.
CO 4	Learning and understanding the knowledge of distribution law, its modifications, applications of distribution laws.
CO 5	Learning of kinetics, Simultaneous reactions such as i)opposing reaction ii)side reaction iii)consecutive reactions iv) chain reaction v) explosive reaction

# **Paper XVI: Analytical Chemistry**

At the end of the course Students will able to	
CO 1	Learning and Understanding theory of Tritrimetric Analysis.
CO 2	Introduction of different types of Chromatographic Techniques.
CO 3	Impart knowledge about Colorimetry and Spectrophotometry.
CO 4	Learning and understanding Potentiometric Titrations.
CO 5	Study different principles in Analytical Chemistry.



Progr	ramme Specific Outcomes : M.Sc. Microbiology	
After Comple	After Completion on the two years' post graduation programme in M.Sc.	
Chemistry, St	Chemistry, Students will able to -	
PSO 1	It helps in developing competent Microbiologists who can progress	
	to diverse fields of microbiological interests in various fields of	
	industries, research, teaching, medical science and entrepreneurship.	
PSO 2	The course is aimed at adding to the knowledge base of	
	Microbiology graduates through significant inputs of latest	
	information on the subject.	
PSO 3	It also envisages that the students read original research publications	
	and develop the ability of critical evaluation of the study.	
PSO 4	Development of communication skills as well as laboratory work	
	and team work, creativity, planning and execution are also a major	
	objective of this program.	
PSO 5	Educational tour to various institutes and or industries provides	
	actual microbiological applications in various fields of	
	Microbiology.	

### M.Sc. I Semester I

**Paper I: MIC -101: Microbial Systematics** 

Course Outcomes : M.Sc. Microbiology	
At the end of the course Students will able to	
CO 1	To gain knowledge of systematics of Bacteria.
CO 2	To understand new trends in systematics of bacteria
CO3	To learn different approaches of bacterial systematics
CO4	To understand about microbial culture Collection.
CO 5	To understand the advances in chemotaxonomy.



## Paper II: MIC-102 Immunology

At the end of	the course Students will able to
CO 1	Understand classes of immunoglobulin, organization and expression
	of Immunoglobulin gene.
CO 2	Know details of major Histocompatibility complex and disease
	susceptibility.
CO 3	Understand cytokines and their medical significance.
CO 4	Understand hypersensitivity Reactions.
CO 5	Understand details of transplantation immunology and immunity to
	cancer.

## Paper III: MIC-103 Biochemistry

At the end of the course Students will able to	
CO 1	Understand basic concept in biochemistry.
CO 2	Understand structural features and chemistry of Macromolecules
CO 3	Know membrane transport mechanism in bacteria.
CO4	Understand basics about proteins.
CO5	Understand about the fatty acids.

# Paper IV: RM-MIC-106 Research Methodology

_	_ ·	
At the end of	At the end of the course Students will able to	
CO 1	Understand the research strategies and planning.	
CO 2	Know about research data collection and analysis techniques.	
CO 3	Understand the ethics in biological research	
CO 4	Understand about research paper writing Skills	
CO 5	Understand about Presentation Skills.	



#### M.Sc. I Semester II

### Paper V: MIC-201 Genetics and Molecular Biology

-	9.	
At the end of	At the end of the course Students will able to	
CO 1	To understand about origin of life, evolutionary basis and Molecular	
	basis.	
CO 2	To understand about Principles of mendelian inheritance.	
CO 3	Know the translation process in eukaryotes.	
CO 4	Understand the molecular mechanism of Homologous	
	recombination.	
CO 5	Understand about the cancer and oncogenesis.	

### **Paper VI: MIC-202 Fermentation Technology**

At the end of the course Students will able to	
CO 1	Basic understanding about fermentation equipment and use.
CO 2	Understand about fermentation media and fermentation economics.
CO 3	Understand about patents.
CO 4	Know the computer applications in fermentation tech enology
CO 5	To study the industrial production of various fermentation products.

### Paper VII: MIC-203-A Technique in Microbiology

At the end of the course Students will able to	
CO 1	To understand about enrichment culture techniques
CO 2	Understand good laboratory practices
CO 3	Know about chromatography techniques
CO 4	Understand about spectroscopy
CO5	Understand about electrophoresis.



# Paper VIII: On job training

At the end of the course Students will able to	
CO 1	Help student to study Microbiological aspects in the Industry.
CO 2	In On Job Training, the student is to take training in the industry for
	a period of at least two weeks.
CO 3	Development of communication skill as well as Laboratory work
	and team work
CO 4	Industries provide actual Microbiological Applications in various
	fields of Microbiology.
CO5	Develop interest in various fields of Industries.

### M.Sc. II Semester III

# **MMT-301: Quantitative Biology**

At the end of the course Students will able to	
CO 1	Understand the role of statistic in biological field especially in
	research.
CO 2	Understand application of different statistical parameters.
CO 3	Understand the use of computer software for analysis of biological
	data.
CO 4	Understand the role of different statistical test for validation of
	experimental data.
CO5	Understand quantitative methods used in the pharmaceutical and
	food industry.



# MMT- 302: Medical Microbiology and virology

At the end of the course Students will able to	
CO 1	Understand the new ways of microbial colonization during
	development of disease.
CO 2	Learn the measure of infectivity and virulence.
CO 3	Understand the role of exotoxin in disease development.
CO 4	Understand the cosmetic uses of exotoxins.
CO5	Will know about emerging viral disease.

## **MMT-303 C: Agriculture Microbiology**

At the end of the course Students will able to	
CO 1	Conduct different practical of agriculture microbiology
CO 2	Estimate different pesticide residues from the soil
CO 3	Learn details about PGPR
CO 4	Understand the bioremediation of soil.
CO 5	Understand about microbial ecology and element cycle.

# RP 306: Research Project

At the end of the course Students will able to		
CO 1	Student get the opportunity to apply the knowledge and skills	
CO 2	Develop a critically thinking about academic, professional or social	
	issues and to further develop their analytical and ethical leadership	
	skills.	
CO 3	To provide students with the opportunity to apply the knowledge	
	and skills acquired in their courses to a specific problem.	
CO 4	To allow students to extend their academic experience into areas of	
	interest and working with new ideas.	



CO5	To take on the challenges of teamwork, prepare a presentation in a
	professional manner, and document all aspects of work.

### **M.Sc.II Semester IV**

# MMT- 401: Food and dairy Microbiology

At the end of the course Students will able to		
CO 1	Understand different methods of food preservation.	
CO 2	Learn different food borne diseases.	
CO 3	Acquire knowledge about probiotic and different food safety	
	standards.	
CO 4	Commercial values of fermented food.	
CO5	Know the enzymes involved in food processing.	

# **MMT-402:** Molecular biology tools and applications

At the end of the course Students will able to	
CO 1	Understand modern tools and techniques in molecular biology
CO 2	Understand methods of cloning and its significance.
CO 3	Learn the role of recombinant DNA technology in industry.
CO 4	Understand the application of r DNA technology.
CO5	Study the cloning in eukaryotic cells.



## **MET- 403 A: Industrial waste Management**

At the end of the course Students will able to	
CO 1	Characterize industrial effluents and their adverse effect on
	environment.
CO 2	Learn the role of microorganism in treatment of industrial waste.
CO 3	Know about the rules and regulations of waste disposal.
CO 4	Understand the characters of industrial waste.
CO5	Know about the industrial waste management treatment

# RP 406: Research Project

At the end of the course Students will able to		
CO 1	Student get the opportunity to apply the knowledge and skills	
CO 2	Develop a critically thinking about academic, professional or social	
	issues and to further develop their analytical and ethical leadership	
	skills.	
CO 3	To provide students with the opportunity to apply the knowledge	
	and skills acquired in their courses to a specific problem.	
CO 4	To allow students to extend their academic experience into areas of	
	interest and working with new ideas.	
CO5	To take on the challenges of teamwork, prepare a presentation in a	
	professional manner, and document all aspects of work.	



Progr	Programme Specific Outcomes: B.Sc. Microbiology		
After Comple	After Completion on the three years' graduation programme in B.Sc. Chemistry,		
Students will	able to -		
PSO 1	Develop ability and to acquire the knowledge of terms, facts,		
	concepts, processes techniques and principles of subjects.		
PSO 2	Develop ability to apply the knowledge of contents of principles of		
	chemistry.		
PSO 3	Increase working knowledge of instruments and obtaining the		
	knowledge of Pharmaceutical tablets.		
PSO 4	To develop skills required in chemistry such as the proper handling		
	of apparatus and chemicals and Social awareness about the quality		
	of water.		
PSO 5	Learn laboratory skills and safety to transfer and interpret		
	knowledge entirely in the work in environment.		

## **B.Sc. I Semester I NEP**

## (DSC I) Introduction to Microbiology

Course Outcomes: B.Sc. Microbiology		
At the end of	the course Students will able to	
CO 1	To develop a good knowledge of the development of the discipline of Microbiology and the contributions made by prominent scientists in this field.	
CO 2	To develop a very good understanding of the characteristic of different types of microorganisms, methods to organize/classify these into and basic tools to study these in the laboratory.	
CO 3	To explain the useful and harmful activities of the microorganisms and scope of different branches of Microbiology.	
CO 4	To describe characteristics of bacterial cells, cell organelles and	



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## (DSC II) Basic Techniques in Microbiology

At the end of the course Students will able to		
CO 1	To study the staining techniques for the observation of	
	bacteria and bacterial cell components.	
CO 2	To study the working principle, handling and use of microscopes for	
	the study of microorganisms.	
CO 3	To understand the principles of sterilization and disinfection of	
	culture media, glassware and plastic ware and other objects to used	
	for microbiological work.	

### **B.Sc. I Semester II**

## (DSC III)Bacteriology

At the end of the course Students will able to		
CO 1	Todescribethenutritionalrequirementsofbacteriaandotherm	
	icrobeswhichgrowunderextremeenvironments	
CO 2	Tounderstandthebasiclaboratoryexperimentstoisolate, cultivat	
	eanddifferentiatebacteria	
CO 3	To study the preservation of bacteria in the laboratory	

## (DSC IV) Applied Microbiology

At the end of the course Students will able to	
CO 1	To develop a very good understanding of applied
	branches of Microbiology.
CO 2	To develop the knowledge of how the microorganisms play role in



	Water Microbiology.
CO 3	To make well conversant about food preservation techniques.
CO 4	To develop knowledge of milk processing and milk testing.

### **B.Sc. II Semester III**

### Paper V: Microbial Physiology and Metabolism:

At the end of	At the end of the course Students will able to	
CO 1	Basic knowledge of metabolism and physiology.	
CO 2	Basic knowledge about effect environmental Factors on microbial growth.	
CO 3	Implement their knowledge in research.	
CO 4	Students get aware with applied topics in biochemistry.	
CO 5	Understood Microbial Metabolism.	

## Paper VI: Applied Microbiology

At the end of the course Students will able to	
CO 1	Basic Knowledge regarding air micro flora and its role.
CO 2	Study milk microbiology and quality control of milk.
CO 3	Basic understanding of industrial Microbiology.



CO 4	Students are able to analyze problems and get aware about research.
CO 5	Understood all concepts of microbiology, developed their skills in their course work.

#### **B.Sc. II Semester IV**

### Paper VII: Microbial Genetics and Molecular Biology

At the end of the course Students will able to	
CO 1	Basic knowledge about microbial genetics.
CO 2	Knowledge Regarding types of mutation.
CO 3	Students can work for enzyme production, production of
	pharmaceuticals such as insulin, Human growth hormone etc.
CO 4	Able to do transformation, conjugation, transduction like gene
	transformation procedures.
CO 5	Students are able to understand DNA repair Mechanism.

### Paper VIII: Basics in Medical Microbiology and Immunology

At the end of the course Students will able to	
CO 1	Basic concept of Medical Microbiology.
CO 2	Able to analyses & clarify laboratory practices in immunology.
CO 3	Interacts with clinical decisions making in the diagnosis of the
	diseases & the care of patients.
CO 4	Understood the defence mechanism of body.
CO 5	Students can apply immunology in tissue transplantation and
	immune therapy to treat diseases of immune system and cancers.

### **B.Sc. III Semester V**

Paper IX: Virology



At the end of the course Students will able to	
CO 1	Educating concepts in the area of Virology.
CO 2	Getting the idea about structure and reproduction of animal, plants and bacterial viruses.
CO 3	Understanding the viral dieses to human animals and plants.
CO 4	Understanding the cause and characteristics of Cancer

## Paper X: Immunology

At the end of the course Students will able to	
CO 1	Recall advanced knowledge of the underlying principal of
	immunology
CO 2	Knowledge of Antigen, Antibody complex formation and its
	mechanism

# Paper XI: Food and Industrial Microbiology

At the end of the course Students will able to	
CO 1	Getting knowledge related to foodstuffs and contamination of food
	products.
CO 2	Understanding industrial use of microorganisms.
CO 3	Learning different topics of food poisoning, toxication and develop
	probiotics.

# Paper XII: Agricultural Microbiology

At the end of the course Students will able to	
CO 1	Developing necessary skills for microbial techniques in agriculture.
CO 2	Awareness about eco-friendly use of microbial source in human
	society.



### **B.Sc. III Semester VI**

### Paper XIII: Microbial genetics

At the end of the course Students will able to	
CO 1	Knowledge of microbialtechniques.
CO 2	Knowledge of bacterial genomereplication.
CO 3	Knowledge of creating and recombinantbacteria.
CO 4	Idea to Design the genetically modifiedorganisms

### Paper XIV: Microbial Biochemistry

At the end of the course Students will able to	
CO 1	Knowledge of basics in microbialbiochemistry.
CO 2	Knowledge about application of enzymes, proteins in industries and
	pharmaceuticals.

### Paper XV: Environmental Microbiology

At the end of the course Students will able to	
CO 1	Knowledge of environmental factors and pollutionissues.
CO 2	Recognize the polluted water and treatment using propermethods.
CO 3	Awareness for hygienic practices

### Paper XVI: Medical Microbiology

At the end of the course Students will able to	
CO 1	Students can deal with Medical and emerging areas in Medical
	microbiology
CO 2	Knowledge of immune mechanism against different pathogens



Programme Specific Outcomes : M.Sc. Computer Science		
After Comple	After Completion on the two years' post graduation programme in M.Sc.	
Chemistry, St	tudents will able to -	
PSO 1	Students understand all dimensions of the concepts of software	
	application and	
	Projects.	
PSO 2	Students understand the computer subjects with demonstration of all	
	Programming and theoretical concepts with the use of ICT.	
PSO 3	Developed in-house applications in terms of projects.	
PSO 4	Interact with IT experts & knowledge by IT visits.	
PSO 5	o make them employable according to current demand of IT	
	Industry and responsible citizen.	

## M.Sc. I Semester I

# Paper I: CC-101 Design and Analysis of Algorithm

Course Outcomes: M.Sc. Computer Science		
At the end of	At the end of the course Students will able to	
CO 1	Analyze the asymptotic performance of algorithms.	
CO 2	Demonstrate a familiarity with data structures and algorithms.	
CO 3	.Employ graphs to model real life problems, when appropriate.	
	Develop algorithms that employ graph computations as key	
	components, and analyze them.	
CO 4	Mapping of data structures like Stack, Queue and Linked List to real	



	life problems.
CO 5	Master the implementation of linked data structures such as linked
	lists and binary trees.

### Paper II: :CC-102 Advanced Database Management System

	· •	
At the end of	At the end of the course Students will able to	
CO 1	Demonstrate an understanding of the relational data model.	
CO 2	Formulate, using SQL, solutions to a broad range of query and data	
	update problems.	
CO 3	Use PL/SQL for handing data in a database as per the user's	
	requirement using programming features	
CO 4	Define various cursors and its implementation along with procedure	
	and functions.	
CO 5	To study usage and applications of parallel and distributed	
	databases, object relational database.	

## Paper III:CC-104 Web Designing

	8 8
At the end of the course Students will able to	
CO 1	Understand the basics of web design
CO 2	Gain proficiency in HTML and CSS coding languages
CO 3	Understand the importance CSS
CO 4	Utilize the JavaScript with websites

## Paper IV: CCS-105 Cyber Security

At the end of the course Students will able to	
CO 1	Realize the need for Cyber Security
CO 2	Understand the need for Security in day to day communications
CO 3	Understand the vulnerabilities in the Network and Computer
CO 4	Understand the cyber law and Cyber Forensics

CO 5	Understand the mobile forensics.
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### Paper V: CC-106 Research Methodology

At the end of the course Students will able to	
CO 1	Understand the fundamental concepts and principles of research
	methodology in computer science
CO 2	Identify and select appropriate research methodologies based on the
	research problem
CO 3	Formulate research questions and hypotheses in the context of
	computer science research
CO 4	Design and execute research studies using quantitative and
	qualitative
CO 5	Apply ethical considerations in conducting computer science
	research

#### M.Sc. I Semester II

## Paper VI: CC -201Advanced Java

At the end of the course Students will able to	
CO 1	To become familiar with the features of Java Language.
CO 2	To become comfortable with concepts such as Classes, Objects,
	Inheritance, Polymorphism and Interfaces.
CO 3	To understand Database connectivity using JDBC Drivers.
CO 4	To design application using JSP, Servlet and RMI and spring
	framework
CO 5	To familiar with hibernate, struts and spring framework

### Paper VII: CC -202 Artificial Intelligence

At the end of the course Students will able to	
CO 1	Apply problem solving by intelligent search approach



CO 2	Represent knowledge using knowledge representation techniques.
CO 3	Understand working of Artificial Neural Networks.
CO 4	Derive solutions for problems with uncertainty using Fuzzy theory.
CO 5	To develop a good understanding of Natural Language Processing
	and Genetic algorithm

## Paper VIII: CC-204 Angular JS

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At the end of	At the end of the course Students will able to	
CO 1	Understand the fundamental concepts of Angular JS and its role in	
	web development	
CO 2	Learn how to set up a development environment for Angular JS	
	projects	
CO 3	Gain proficiency in using directives, filters, and expressions to	
	manipulate and display data	

# Paper IX: CC -205 Image Processing

At the end of the course Students will able to	
CO 1	Understand the basic principles and concepts of digital image
	processing.
CO 2	Gain knowledge of different image representations and colour
	models.
CO 3	Learn how to pre-process and enhance images using various
	techniques
CO 4	Explore image filtering techniques for noise reduction and feature
	enhancement.
CO 5	Understand the concept of image segmentation and different
	segmentation algorithms.

# Paper X: OJT -206 On Job Training



At the end of the course Students will able to	
CO 1	Students become familiar with industrial environment
CO 2	eligibility for application of theoretical knowledge to industry
CO 3	Rules of auditing and auditing authorities

Program	nme Specific Outcomes : B.Sc. Computer Science
After Comple	etion on the three years' graduation programme in B.Sc. Chemistry,
Students will	able to -
PSO 1	Proficiency in programming languages: Students should be proficient in at least one programming language and capable of designing, implementing, and debugging software solutions.
PSO 2	Software development lifecycle: Understanding of the software development lifecycle, including requirements analysis, design, implementation, testing, deployment, and maintenance.
PSO 3	Computer systems and architecture: Understanding of computer systems and architecture principles, including memory management, operating systems, networks, and distributed systems.
PSO 4	Data management: Proficiency in database design, implementation, and management, including relational and non-relational databases.
PSO 5	Cyber security: Knowledge of cyber security principles, including encryption, authentication, access control, and secure software development practices.

### B.Sc. I Semester I

# **Paper I: Problem Solving Using Computer**

Course Outcomes: B.Sc. Computer Science	
At the end of the course Students will able to	
CO 1	Demonstrate a familiarity of computer programming language concepts.
CO 2	Understand to develop C programs on Linux platform.
CO 3	Apply C programming control structures for problem solving.
CO 4	Understand working and implementation of arrays.



### Paper II: Database Management System

At the end of the course Students will able to	
CO 1	Understanding Data Models.
CO 2	Understanding database architecture
CO 3	Getting knowledge about use of database.
CO 4	Handling multiple tables using entities and attributes.
CO 5	Knowledge of constraints over the table.

### **B.Sc. I Semester II**

### Paper III: Programming Skills Using 'C'

At the end of the course Students will able to	
CO 1	Understanding concept of Pointer. Understanding concept of
	Pointer.
CO 2	Understanding for Functional function in c.
CO 3	Learn file handling in c.
CO 4	Understanding concept of Structure and Dynamic Memory
	Allocation.

# **Paper IV: Relational Database Management System**

At the end of the course Students will able to	
CO 1	Understand the importance and working of database.
CO 2	Demonstrate an understanding of the relational data model.
CO 3	Understand the concept of normalization and apply such knowledge
	to the normalization of a database.
CO 4	Apply SQL queries for database management.



#### **B.Sc. II Semester III**

### Paper V: Web Technology

At the end of the course Students will able to	
CO 1	Understand the principles of web design.
CO 2	Construct basic websites using HTML and Cascading Style Sheets.
CO 3	Build dynamic web pages with validation using JavaScript.
CO 4	Develop a modern web application that meets the current industry
	requirement.

### **Paper VI: Object Oriented Programming Using C++**

At the end of the course Students will able to	
CO 1	Understand how C++ improves C with object oriented features
CO 2	Learn syntax and semantics of C++ programming language
CO 3	Learn how to write inline functions for efficiency and performance.
CO 4	.learn how to overload functions and operators in C++
CO 5	Learn how to design C++ classes for code reuse

### **B.Sc. II Semester IV**

### **Paper VII: Cyber Security Essentials**

At the end of the course Students will able to	
CO 1	Understand the concept of information security management.
CO 2	Learn different access control methods.
CO 3	Understand wireless network security
CO 4	Learn cyber security laws and the importance of security audit.



## Paper VIII: Data Structure Using C++

At the end of the course Students will able to	
CO 1	Understand the basic concepts such as Abstract Data Types, Linear
	and Non-Linear Data structures.
CO 2	Choose appropriate data structures to represent data items in real-
	world problems
CO 3	Analyze the time and space complexities of algorithms.
CO 4	Design programs using a variety of data structures such as array,
	stacks, queues, and linked list.
CO 5	Analyze and implement various kinds of searching and sorting
	techniques.

### **B.Sc. III Semester V**

### Paper IX: Core Java

- wp	
At the end of the course Students will able to	
CO 1	Understanding the concepts, vocabulary and techniques currently
	used in the area of computer networks.
CO 2	Getting known with wireless networking concepts.
CO 3	Understanding classification of network, transmission
	impairments, Data transmission methods etc.
CO 4	Understanding installation of Windows Server 2008 and managing
	active directory.
CO 5	

# Paper X: C# Programming

At the end of the course Students will able to	
CO 1	This course will cover the practical aspects C#.
CO 2	NET framework.



CO 3	ThegoalofthiscourseistointroducethestudentstothebasicsofOOPsand
	windowsapplicationprogram.

# Paper XI: Linux PartI

At the end of the course Students will able to	
CO 1	Uponcompletionofthis course, students
	shouldhaveagoodworkingknowledgeofLinux.
CO 2	AllowingthemtoeasilyuseanyLinuxdistribution.
CO 3	Thiscourseshallhelpstudenttolearnadvancedsubjectsincomputerscien
	cepractically.

# Paper XII: Pytho Part I

At the end of the course Students will able to	
CO 1	To understand why Python is a useful scripting language for developers.
CO 2	To learn how to write loops and decision statements in Python.
CO 3	To learn how to use lists, tuples, and dictionaries in Python programs.

### **B.Sc. III Semester VI**

## Paper XIII: Advanced Java

At the end of	At the end of the course Students will able to	
CO 1	The student will be able to develop distributed business applications, devel	
	opweb pages Using advanced server-side programming through	
	servlets and Java server pages.	
CO 2	Demonstrate approaches for performance and effective coding.	
CO 3	To learn data base programming using Java	
CO 4	To study web development concept using Servlet and JSP.	



# Paper XIV: ASP.NET

At the end of the course Students will able to	
CO 1	Introduction to Asp.Net an server Controls.
CO 2	Understand concept of Asp.Ne State Management

# Paper XV: Linux Part II

At the end of the course Students will able to	
CO 1	This course covers design principles of Linux Operating System
	Memory management.
CO 2	Structure of File system and virtual file system is also elaborated.
CO 3	ThiscoursecontainsdetailsofshellprogrammingandintroducesSystema
	dministration.

### Paper XVI: Python Part II

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At the end of the course Students will able to	
CO 1	To learn how to write functions and pass arguments in Python
CO 2	To learn how to build and package Python modules for reusability
CO 3	To learn how to use exception handling in Python applications for error handling.



Prog	ramme Specific Outcomes : B.Sc. Mathematics
After Completion on the three years' graduation programme in B.Sc. Mathematics,	
Students will	able to -
PSO 1	A student should be able to recall basic facts about mathematics and
	should be able to display knowledge of conventions such as
	notations, terminology.
PSO 2	A student should get adequate exposure to global and local concerns
	that explore them many aspects of mathematical sciences.
PSO 3	Student is equipped with mathematical modelling ability, problem
	solving skills, creative talent and power of communication necessary
	for various kinds of employment.
PSO 4	Student should be able to apply their skills and knowledge that is
	translate information presented verbally into mathematical form,
	select and use appropriate mathematical formulae or techniques in
	order to process the information and draw the relevant conclusion.
PSO 5	Enabling students to develop a positive attitude towards
	mathematics as an interesting and valuable subject of study.

## B.Sc. I Semester I

# Paper I: Calculus

	Course Outcomes: B.Sc. Mathematics
At the end of	the course Students will able to
CO 1	Evaluate the limit and examine the continuity of a function at a
	point.



CO 2	Understand the consequences of mean value theorems for differentiable functions.
CO 3	Apply Leibnitz theorem to obtain higher derivatives of product of two differentiable Functions.

## **Paper II: Differential Equations'**

At the end of the course Students will able to	
CO 1	Understand types of differential equations.
CO 2	Solve different types of ordinary differential equations.
CO 3	Understand applications of differential equations.

### **B.Sc.I Semester II**

### **Paper III: Multivariable Calculus**

At the end of the course Students will able to	
CO 1	Learn conceptual variations while advancing from one variable to
	several variables in calculus.
CO 2	Set up and solve optimization problems involving several variables.
CO 3	Learn the concept of Jacobian of a transformation.

### Paper IV: Basic Algebra

At the end of the course Students will able to	
CO 1	Use fundamental concepts in Mathematics like sets, relations and
	functions.
CO 2	Use fundamental concepts in Number theory.
CO 3	Solve examples on congruence.
CO 4	Determine n th roots of unity.

#### **B.Sc.II Semester III**

# **Paper V: Elements of Differential Equations**

At the end of the course Students will able to	
CO 1	Identify types of higher order ordinary differential equations.



CO 2	Solve different types of higher order ordinary differential equations.
CO 3	Understand geometrical interpretation of simultaneous and total
	differential equations.

#### **B.Sc. II Semester IV**

### **Paper VII: Vector Calculus**

At the end of the course Students will able to	
CO 1	Understand and evaluate the concepts of gradient, divergence and
	curl of point functions in terms of Cartesian co-ordinate system.
CO 2	Understand and evaluate different types of line, surface & volume
	integrals and the two integral transformation theorems of Gauss and
	Stokes.

## **Paper VIII: Integral Calculus**

At the end of the course Students will able to	
CO 1	Understand special functions.
CO 2	Understand types of multiple integrals.
CO 3	Apply special functions in applications.
CO 4	Apply multiple integrals in real life problems.

### **B.Sc. III Semester V**

### **Paper IX**: Mathematical Analysis

At the end of the course Students will able to	
CO 1	The integration of bounded function on a closed and bounded
	interval



CO 2	Some of the families and properties of Riemann integral functions
CO 3	The applications of the fundamental the ores of integration
CO 4	Extension of Riemann integral to the improper integrals when either the interval of integration is in finite or the integer and has infinite limits at a finite number of points on the interval of integration
CO 5	The expansion of functions in Fourier series and half range Fourier
	series

# Paper X: Abstract Algebra

At the end of	At the end of the course Students will able to	
CO 1	Basic concepts of group and rings with examples	
CO 2	Identify whether the given set with the compositions forming, integral domain or field.	
CO 3	Understand the difference between the concepts Group and Ring.	
CO 4	Apply fundamental theorem, Isomorphism the of groups to prove these theories for Ring.	
CO 5	Understand the concepts of poly nominal rings, unique factorization domain.	

# **Paper XI: Optimization Techniques**

At the end of the course Students will able to	
CO 1	Providestudent basic knowledgeof arrange
	ofoperationresearchmodelsandtechniques,
	which can be applied to a variety of industrial and real life applications.
CO 2	Formulateandapplysuitablemethodstosolveproblems.
CO 3	Identifyandselectproceduresforvarioussequencing, assignment, and
	transportationproblems.
CO 4	Identifyandselectsuitablemethodsforvariousgames



### **Paper XII: Integral Transforms**

At the end of the course Students will able to	
CO 1	Understand conceptofLaplaceTransform.
CO 2	ApplypropertiesofLaplaceTransformtosolvedifferentialequations.
CO 3	UnderstandrelationbetweenLaplaceandFourierTransform.
CO 4	UnderstandinfiniteandfiniteFourierTransform.

### **B.Sc. III Semester VI**

## **Paper XIII: Metric Spaces**

At the end of the course Students will able to	
CO 1	Distinguish between open and closed balls in a metric spaces and be
	able to determine them for given metric space.
CO 2	State the definition of continuity of a function between two metric
	spaces.

## Paper XIV: Linear Algebra

At the end of the course Students will able to	
CO 1	Understand the combination of important results of linear Algebra
CO 2	Linear Algebra includes the concept of vector spaces and
	lineartransformations



# **Paper XV: Complex Analysis**

At the end of the course Students will able to	
CO 1	Determine whether a given function is differentiable and if so find
	its derivative.
CO 2	Use the residue theorem to compute several kinds of real integrals.

# **Paper XVI: Discrete Mathematics**

At the end of the course Students will able to	
CO 1	Useclassicalnotionsoflogic:
	implications, equivalence, negation, proof by contradiction, proof by induction
	, andquantifiers.
CO 2	Apply notions in logic in the branchesofMathematics.
CO 3	Know elementaryalgorithms: searchinalgorithms, sorting,
	greedyalgorithms, andtheir complexity.
CO 4	Applyconceptsofgraphandtreestotacklerealsituations.



Programme Specific Outcomes: B.Sc. Statistic		
After Completion on the three years' graduation programme in B.Sc. Statistics,		
Students will	Students will able to -	
PSO 1	Application of statistics in various walks oflife.	
PSO 2	Ability to apply various statistical tools to researchproblem.	
PSO 3	Understanding how to collect, present, analyze and interpret thedata.	
PSO 4	Ability to analyze the data by usingMS-Excel.	
PSO 5	Knowing the statistical organization in India and Abroad.	

### B.Sc. I Semester I

# **Paper I: DESCRIPTIVE STATISTICS-I**

Course Outcomes : B.Sc. Statistic	
At the end of the course Students will able to	
CO 1	Acquaintance with some basic concepts in statistics.
CO 2	Making familiar with some elementary statistical methods of analysis of data viz. Measures of Central Tendency, Dispersion, Moments, Skewness, and Kurtosis and to interpret them.
CO 3	Analysis of data pertaining to attributes and to interpret the results.



### **Paper II: ELEMENTARY PROBABIITY THEORY**

At the end of	At the end of the course Students will able to	
CO 1	Acquainting with some basic concepts of probability.	
CO 2	Ability to distinguish between random and non-random experiment.	
CO 3	Ability to find the probabilities of various events.	
CO 4	Ability to understand the concept of conditional probability and	
	independence of events.	
CO 5	Ability to distinguish between univariate and bivariate probability	
	distribution.	

#### **B.Sc. I Semester II**

# Paper III: DESCRIPTIVE STATISTICS-II

At the end of the course Students will able to	
CO 1	Ability to understand the concept of correlation and computation of
	correlation coefficient.
CO 2	Interpreting the value of correlation coefficient and its use in
	regression analysis.
CO 3	Understanding the concept of multivariate distributions.
CO 4	Application of correlation and regression theory in various fields
	viz. Agriculture, Business, Medical Science, Industry etc.

## **Paper IV: DISCRETE PROBABILITY DISTRIBUTIOS**

At the end of the course Students will able to	
CO 1	Applying discrete probability distribution in different situations.
CO 2	Ability to define discrete variable and study their distributions.
CO 3	Understanding some standard discrete probability distributions with
	real life situations.
CO 4	Understanding concept of bivariate distribution and computation of
	related probabilities.
CO 5	



### **B.Sc. II Semester III**

### Paper V: DSC-7CPROBABILITY DISTRIBUTIOS -I

At the end of	At the end of the course Students will able to	
CO 1	Understanding discrete distributions based on countably infinite	
	sample space.	
CO 2	Application of various discrete distributions in real life situation.	
CO 3	Knowing the difference between univariate and bivariate	
	continuous probability distribution.	
CO 4	Understanding transformation of continuous random variables and	
	its application.	

## Paper VI: DSC-8CSTATISTICAL METHODS-I

At the end of the course Students will able to	
CO 1	Application of statistical methods in different field's viz. Business,
	Industry, Medical Science, Government Planning and Policies etc.
CO 2	Knowing the collection of data with respect to time and techniques
	used in analysis and forecasting of time series.
CO 3	Understanding the notion of quality and its importance in industry.
CO 4	Ability to differentiate between process and product control and
	plotting of the various charts used in SQC.
CO 5	Ability to understand vital statistics and computation of vital events.



### **B.Sc.II Semester IV**

### Paper VII: DSC-7DPROBABILITY DISTRIBUTIOS -II

At the end of the course Students will able to		
CO 1	Understanding various continuous probability distributions	
	theoretically.	
CO 2	Application of normal distribution in different fields.	
CO 3	Ability to relate gamma and beta distribution.	
CO 4	Ability to relate t, F and chi-square variates.	

### Paper VIIIDSC- 8DSTATISTICAL METHODS-II

At the end of the course Students will able to	
CO 1	Application of Chebychev's Inequality in finding lower and upper
	bound of the data.
CO 2	Understanding the life cycle of a component or a unit and finding
	its reliability.
CO 3	Ability to understand the difference between large and small
	sample and tests based on it.
CO 4	Ability to understand the concept of hypothesis and its testing and
	application in various fields.

#### **B.Sc. III Semester V**



### **Paper IX: Probability Distributions**

At the end of	At the end of the course Students will able to	
CO 1	knowledge of important univariate distributions such as Laplace, Cauchy, Lognormal, Weibull, Logistic, Pareto, Power Series Distribution.	
CO 2	knowledge of Multinomial and Bivariate Normal Distribution	
CO 3	knowledge of Truncated Distributions.	
CO 4	information of various measures of these probability distributions.	

# Paper X: Statistical Inference-I

At the end of the course Students will able to	
CO 1	Knowledge about important inferential aspect of point estimation.
CO 2	Concept of random sample from a distribution, sampling
	distribution of a statistic, standard error of important estimates such
	as mean and proportions.
CO 3	knowledge of various important properties of estimator,
CO 4	Knowledge about inference of parameters of standard discrete and
	continuous distributions.

### **Paper XI: Design of Experiments**

At the end of the course Students will able to	
CO 1	knowledge of basic terms used in design of experiments
CO 2	Concept of one-way and two-way analysis of variance.
CO 3	Knowledge of various designs of experiments such as CRD, RBD,
	LSD and factorial experiments.
CO 4	Knowledge of using an appropriate experimental design to analyze
	the experimental data.

### Paper XII: R-Programming and Quality Management



At the end of the course Students will able to	
CO 1	importance of R- programming
CO 2	knowledge of identifiers and operators used in R.
CO 3	knowledge of conditional statements and Loops used in R.
CO 4	knowledge of quality tools used in Quality management.

#### **B.Sc. III Semester VI**

### **Paper XIII: Probability Theory and Applications**

At the end of the course Students will able to	
CO 1	knowledge about order statistics and associated distributions
CO 2	concept of convergence and Chebychev's inequality and its uses
CO 3	concept of law large numbers and central limit theorem and its uses.
CO 4	knowledge of terms involved in reliability theory as well as concepts
	and measures.

### **Paper XIV: Statistical Inference-II**

At the end of the course Students will able to	
CO 1	concept of interval estimation.
CO 2	knowledge of interval estimation of mean, variance and population
	proportion.
CO 3	knowledge of important aspect of test of hypothesis and associated
	concept.
CO 4	concept about parametric and non-parametric methods.

# Paper XV: Sampling Theory

At the end of the course Students will able to	
CO 1	basic knowledge of complete enumeration and sample, sampling
	frame sampling distribution, sampling and non-sampling errors,



	principle steps in sample surveys, sample size determination,
	limitations of sampling etc.
CO 2	concept of various sampling methods such as simple random
	sampling, stratified random sampling, systematic sampling and
	cluster sampling
CO 3	an idea of conducting sample surveys and selecting appropriate
	sampling
	Techniques.
CO 4	Knowledge of comparing various sampling techniques.

# Paper XVI: Operations Research

At the end of the course Students will able to	
CO 1	Concept of Linear programming problem.
CO 2	Knowledge of solving LPP by graphical and Simplex method.
CO 3	Knowledge of Transportation, Assignment and Sequencing
	problems.
CO 4	Concept of queuing theory.



**Course Outcomes : B.Sc. Physics** 

B.Sc. I Semester I

Paper I:MECHANICS-I

At the end of the course Students will able to	
CO 1	Different types of motions in nature.
CO 2	Vector and scalar quantities and their applications in physics.
CO 3	Differential equations and their applications in physics.
CO 4	Momentum and energy conservation rules and their importance

## **Paper II: MECHANICAS-II**

At the end of the course Students will able to	
CO 1	Oscillations and waves with applications in nature.
CO 2	Property of Elasticity and use in different applications.
CO 3	Surface tension its properties and applications.
CO 4	Simple concepts like weightlessness, Geosynchronous satellite and
	GPS

#### **B.Sc.I Semester II**



## **Paper III:ELECTRICITY AND MAGNETISM-I**

At the end of	At the end of the course Students will able to	
CO 1	All about electrostatics, field, flux, various theorems in dielectrics	
	and their applications in capacitors.	
CO 2	Vector analysis, Gauss's, Stokes's and Green's theorems and applications.	
CO 3	Concept of energy density in electric field	
CO 4	Applying above concepts to Solve numerical exercise in electrostatics	
	electrostatics	

## Paper IV: ELECTRICITY AND MAGNETISM-II

At the end of the course Students will able to	
CO 1	LCR circuit and analysis and its use in electrical and electronics
	devices.
CO 2	Various brides and their applications to determine the unknown
	values of resistance, capacitance and inductances.
CO 3	Maxwell's equations and applications to solve problems in
	electromagnetic wave propagation.
CO 4	State and apply Network theorems to simple circuits

#### **B.Sc.II Semester III**

## **Paper V: Thermal Physics and Statistical Mechanics-I**

At the end of the course Students will able to	
CO 1	Highlight different types of velocities of gas molecules.
CO 2	Acquire Knowledge of Maxwell's distribution of gas molecules.
CO 3	Visualize Merits and drawbacks of thermometers.
CO 4	Apply knowledge of thermodynamic processes in design of heat
	engine.



## Paper VI: Waves and Optics –I

At the end of the course Students will able to	
CO 1	Apply superposition principle to develop mathematical model of
	harmonic oscillators.
CO 2	To develop the mathematical model for coupled oscillations.
CO 3	Understand the ultrasonic waves and their applications.
CO 4	Use of Basic principles of sound in context of acoustics of buildings.

#### **B.Sc.II Semester IV**

## **Paper VII: Thermal Physics and Statistical Mechanics-II**

At the end of the course Students will able to	
CO 1	Develop Conceptual clarity of thermodynamic functions and
	Clausius- Clapeyron equation.
CO 2	Appreciate the problem associated with the black body radiation
	spectrum.
CO 3	Know, how the problems can be solved by using Planck's law of
	radiation.
CO 4	Acquire preliminary knowledge of classical and quantum statistical
	mechanics.

## **Paper VIII: Waves and Optics-II**

	1
At the end of	f the course Students will able to
CO 1	Draw ray diagrams to demonstrate Cardinal points.
CO 2	Determine the resolving power of prism and grating by making use
	of Rayleigh criterion.
CO 3	Qualitatively study phenomenon of polarization of light.
CO 4	Apply phenomenon of interference of light for determination of its
	wavelength.



#### **B.Sc.** I Semester I

## **Paper I: Animal Diversity-I**

Course Outcomes: B.Sc. Zoology		
At the end of	At the end of the course Students will able to	
CO 1	Students will understand evolutionary history and relationships of	
	different non- Chordates through functional and structural affinities.	
CO 2	Students will learn about importance of systematic, taxonomy,	
	structural organization of the animals and will appreciate diversity	
	of non-Chordates.	
CO 3	Students will be able to critically analyze organization, complexity	
	and characteristic features of non	
CO 4	Students will understand features, organs, pathogenesity, life history	
	and significance of non	

## Paper II: Cell Biology & Evolutionary Biology

At the end of	At the end of the course Students will able to	
CO 1	The present course has been devised to familiarize students with the	
	structural and functional aspects of cell, the basic unit of life, and its	
	different organelles.	
CO 2	Students will understand the basics of cell structure and organization	
	cell organelles.	
CO 3	Students will demonstrate broad-based knowledge of the	
	fundamentals of Evolution.	



CO 4	Evolutionary biology highlights the adaptive value within-species
	variability.

#### **B.Sc.I Semester II**

## Paper III: Animal diversity and insect vector

At the end of	At the end of the course Students will able to	
CO 1	Students will able to understand systematic position, habit and	
	habitat of the animal.	
CO 2	They will learn about rat anatomy	
CO 3	Students will acquire in-depth knowledge about insect vector	
	biology.	
CO 4	The student will gain the knowledge of diseases caused by insects,	
	epidemiology of disease and control measures of diseases.	

#### **Paper IV: Genetics**

At the end o	At the end of the course Students will able to	
CO 1	The student has a strong foundation on the Mendelian genetics, their	
	principles and gene interactions.	
CO 2	The student will gain a basic understanding on human genetics and	
	hereditary.	
CO 3	They will learn about mutation, types of mutations and genetical	
	syndromes.	
CO 4	Students will understand the different theories and mechanisms of	
	sex determination.	

#### **B.Sc.II Semester III**

## Paper V: Animal diversity-II

At the end of the course Students will able to



CO 1	Students will understand evolutionary history and relationships of
	different Chordates through functional and structural affinities.
CO 2	Students will learn about importance of systematic, taxonomy and
	structural organization of the animals.
CO 3	Students will be able to identify Venomous and non-venomous
	snakes; will be understand Biting mechanism in snakes.
CO 4	Students will understand and analyze diversity of Chordates.

## Paper VI: Cell Biology & Evolutionary Biology

At the end of	At the end of the course Students will able to		
CO 1	The present course has been devised to familiarize students with the		
	structural and functional aspects of cell, the basic unit of life, and its		
	different organelles.		
CO 2	Students will understand the basics of cell structure and organization		
	cell organelles.		
CO 3	Students will demonstrate broad-based knowledge of the		
	fundamentals of Evolution.		
CO 4	Evolutionary biology highlights the adaptive value within-species		
	variability.		

#### **B.Sc.II Semester IV**

## Paper VII: Reproductive physiology

At the end of the course Students will able to	
CO 1	Students will understand functional anatomy of male & female
	reproduction.
CO 2	The student will gain the knowledge of reproductive health.
CO 3	Students will learn about causes of infertility in male and females of
	human.
CO 4	The student will gain the knowledge of contraceptive technologies.
CO 5	Students will learn about assisted reproductive technology (ART)

## Paper VIII: Applied Zoology

At the end of the course Students will able to



CO 1	The student will able to analyze host-parasite relationship
CO 2	The student will gain the knowledge of epidemiology, Transmission,
	prevention and control of infective diseases.
CO 3	The student understands the control of pests that damages the field
	crop & stored grains.
CO 4	Students will understand the economic importance of insect.
CO 5	Students will gain the knowledge of poultry farming

## B.Sc. I Semester I

## Paper I:

Course Outcomes: B.Sc. Botany		
At the end of	At the end of the course Students will able to	
CO 1	To understand distinguishing characters of Viruses, Bacteria, Algae.	
CO 2	To understand economic and commercial importance of Viruses,	
	Bacteriophages.	
CO 3	To understand various mode of reproduction and classifications in	
	viruses, Bacteria and Algae.	
CO 4	To gain the knowledge about production of Biofertilizers& their	
	applications in agricultures.	

## Paper II:

At the end of	At the end of the course Students will able to	
CO 1	Students will understand the structure and purpose of basic	
	component of prokaryotic and eukaryotic cell especially	
	macromolecules, membranes &organelles.	
CO 2	Students will understand the stages of mitosis and meiosis	
	highlighting similarities and differences.	
CO 3	Students will gain knowledge about principles of microscopy and	
	basics of light microscopy, fluorescent microscopy & electron	
	microscopy.	
CO 4	Student will understand about principles, process and basics of	
	paper chromatography & Thin Layer Chromatography.	



## **B.Sc.I Semester II**

## Paper III:

At the end of the course Students will able to	
CO 1	Students will gain basic understanding of classification & economic
	and ecological importance of Fungi.
CO 2	Students will learn about various types of Lichens and their
	economic importance.
CO 3	To study representative plant diseases such as viral, Bacterial,
	Fungal and mycoplasma plant diseases.
CO 4	To develop skills of Mushroom cultivation and its marketing.

## Paper IV:

At the end of the course Students will able to	
CO 1	To understand classification & economic importance of Bryophytes
CO 2	To learn methods of reproduction in Bryophytes
CO 3	To distinguish characteristics of Bryophytes
CO 4	To understand classification & economic importance of Bryophytes

#### **B.Sc.II Semester III**

## Paper V: Embryology of Angiosperms

At the end of the course Students will able to	
CO 1	To know the scope and importance of the plant systematics.
CO 2	2. To understand plant morphology, nomenclature and classification
CO 3	3. To prepare and demonstrate herbarium and to understand
	importance of Botanical gardens.
CO 4	4. To differentiate and understand plant tissue systems.

## Paper VI: Plant Physiology

At the end of the course Students will able to	
CO 1	To understand the principles of Mendelian inheritance and gene
	interaction.
CO 2	To differentiate between structural and numerical variations in
	chromosomes.



CO 3	To analyze and solve genetic problems on linkage and crossing over.
CO 4	To know the composition and significance of nucleic acids.

#### **B.Sc.II Semester IV**

## **Paper VII: Plant Anatomy**

At the end of the course Students will able to	
CO 1	To gain and insight in to the diverse ecosystem, related food web
	and ecological pyramids.
CO 2	To prepare map of Phytogeographical regions of India.
CO 3	Know importance of plants and plant products and their utility.
CO 4	To understand importance and conservation of Germplasm.

## **Paper VIII: Plant Metabolism**

At the end of the course Students will able to	
CO 1	To understand significance and mechanism of photosynthesis.
CO 2	To know the process of respiration in higher plants.
CO 3	To design outlines of landscaping and home gardening.
CO 4	To propagate plants by seed and vegetative



# **B.Sc. I**Ability Enhancement Compulsory Course

Course Outcomes : B.Sc. English		
At the end of	At the end of the course Students will able to	
CO 1	Acquaintance with four skills of language	
CO 2	Knowing basic structure of English Grammar	
CO 3	Developing interest among students towards spoken English	
CO 4	Creating Positive approach towards Communicative English	
CO 5	Developing personality of students with knowledge of English language	

## B.Sc. III

At the end of	At the end of the course Students will able to	
CO 1	Spoken communication and written communication.	
CO 2	Writing of Resume, letters of application, business letters.	
CO 3	Writing News-report, Essay, paragraph, reviewed.	
CO 4	Narration of experience, daily routine.	
CO 5	Understanding and interpretation of poem, prose, essay, short stories	
	etc.	





## **Programme Specific Outcomes and Course Outcomes**

## **COMMERCE**

Programme Specific Outcomes: M.Com Accountancy		
After Comple	After Completion on the two years' post graduation programme in M.com.	
Accountancy	, Students will able to -	
PSO 1	In depth understanding of core areas of accounting-financial accounting, cost accounting, management accounting, management accounting, investment security and tax planning, business research methods	
PSO 2	Application of knowledge in problem solving, decision making	
PSO 3	Working in teams as well as taking imitative and leadership responsibilities.	
PSO 4	Applying internal personal communication skills.	

PSO 5	Ability to handle different functional areas of accounting, finance,
	taxation and administration

#### M.Com. I Semester I

Paper: MMA-I Adv. Accountancy Paper-I

Course Outcomes: M.Com		
At the end of	At the end of the course Students will able to	
CO 1	Understanding concept of accounting standards and practical	
	implication of AS-1 and AS-2	
CO 2	Familiarity with preparing final accounts of service industries.	
CO 3	Perfection in preparing the consolidated financial statements of	
	holding company and its subsidiaries.	
CO 4	Understanding of preparation of financial statements of insurance	
	companies with schedules.	

## Paper MMA-II: Adv. Accountancy Paper-II

At the end of the course Students will able to	
CO 1	Unde4rstand the Fundamental of management Accounting.
CO 2	Explain the Analysis and Interpretation of financial statements.
CO 3	Demonstrate the estimation of working capital requirements.

### Paper MMA-III: Adv. Accountancy Paper-III

At the end of the course Students will able to	
CO 1	Compute Income from salary.
CO 2	Compute Income from Business or Profession and House



	Property.
CO 3	Compute total income and tax Liability.
CO 4	File E-Return and make E-Payment of tax.

## Paper MMA-IV: Adv. Accountancy Paper-IV

At the end of the course Students will able to	
CO 1	Know the basic information related to income tax.
CO 2	Know important terms and how to determine Resdential Status of an
	Assessee.
CO 3	Understand procedure of assessment and income tax Athorities.

#### **Paper:EBM-I Business Management**

	8	
At the end of	At the end of the course Students will able to	
CO 1	Understand the theoretical aspects of management and strategic	
	management	
CO 2	Describe the theoretical aspects of management and strategic	
	management	
CO 3	Understand the contemporary issues in management.	

#### **Paper: EME-I Research Methodology**

At the end of the course Students will able to	
CO 1	Familiarity with basics of research.
CO 2	Designing research protocol for research problem.
CO 3	Prepration of the instruments for the data collection.
CO 4	Ability of analysis and interpretation of data.

#### M.Com. I Semester II

#### Paper MMA-V: Adv. Accountancy Paper-V

At the end of the course Students will able to	
CO 1	Accounting of business combination of companies.
CO 2	Accounting of consumer co-operatives societies.



CO 3	Understand the accounting for lease
CO 4	Understand the accounts of Electricity Companies.

## PaperMMA-VI: Adv. Accountancy Paper-VI

At the end of	At the end of the course Students will able to	
CO 1	Understand the basic concepts of cost accounting	
CO 2	Classify the costs and apply the same for cost determination	
CO 3	Apply the cost accounting principles in cost accounting of materials	
CO 4	Know the application of cost accounting in calculation of	
	labour cost and overheads	

## Paper MMA-VII:Adv. Accountancy Paper-VII

At the end of the course Students will able to	
CO 1	Understand the basic concepts and objectives of audit
CO 2	Gain working knowledge of generally accepted auditing procedures
CO 3	Identify the skills and techniques of conducting audit of various entities.
CO 4	Know the recent trends in practice of audit

## Paper MMA-VIII: Adv. Accountancy Paper-VIII

At the end of	At the end of the course Students will able to	
CO 1	Understand the basic concepts and objectives of audit	
CO 2	Gain working knowledge of generally accepted auditing procedures	
CO 3	Identify the skills and techniques of conducting audit of various	
	entities.	
CO 4	Know the recent trends in practice of audit	



## Paper :EBM-II OrganizationBehaviour

At the end of the course Students will able to	
CO 1	Describe theoretical concepts of OB.
CO 2	Classify types of personalities.
CO 3	Summarize types of conflicts.
CO 4	Summerizeadfopation of organizational culture.

## **Paper EME-IIOn the Job Training**

At the end of the course Students will able to	
CO 1	Expose the students to the real life situation.
CO 2	Develop on ability of critical thinking.
CO 3	Analyse the problem in an organisation and suggest remedial
	actions.
CO 4	Gain working knowledge of the job/profession to get insights of the
	business.

#### M.Com. II Semester III

## Paper DSC -4: Management Accounting - I

At the end of the course Students will able to	
CO 1	Understand the Fundamental of Management Accounting.
CO 2	Explain the analysis and interpretation of financial statements.
CO 3	Demonstrate the estimation of working capital requirements.
CO 4	Practice to analyze the changes in financial position.

#### **Paper DSC-5: Business Finance -I**

At the end of the course Students will able to



CO 1	Apply fundamental concepts of business fiancé and examine various
	finance decisions.
CO 2	Compare different types of capital structure.
CO 3	Compare and apprisate various long term and short term sources of
	finance.
CO 4	Illustrate various components of Working Capital Management.

#### PaperDSE-A-V: Advanced accountancy Paper- V

	V I	
At the end of	At the end of the course Students will able to	
CO 1	Familiarity with accountining of business combination of	
	companies.	
CO 2	Perfaction in accounting of different types of co- operatives.	
CO 3	Understanding the accounting for lease.	
CO 4	Understand the concept of social responsibility of accounting,	
	environment accounting and human resource accounting.	

## Paper DSE-A-VI: Advanced accountancy Paper- VI (Taxation)

At the end of the course Students will able to	
CO 1	To understand basic elements of computation and tax liability.
CO 2	To analyse various soursesd of bincome and their taxability.
CO 3	To know the deductions from income and their implications on
	taxability.

#### M.Com.IISemester IV

#### Paper DSC -6: Management Accounting - II

At the end of the course Students will able to



CO 1	Understand the fundamentals of Management control system and
	Reporting.
CO 2	Explain the marginal costing and cost-volume- profit analysis and
	practise decision making based thereon.
CO 3	Simulate the budgetary control system and demonstrate the
	budgeting.
CO 4	Practice to analyze the cost variances.

## **PaperDSC-7: Business Finance -II**

At the end of the course Students will able to	
CO 1	Become familiar with practical trading techniques in Indian stock
	market.
CO 2	Understand how to build and evaluate the portfolio and different
	facets of portfolio management.
CO 3	Acquire conceptual understanding of corporate Restructuring.
CO 4	Become aware of recent trends in business financesceneries with
	specific reference to Start-up Funding, Angel Financing and Fin
	Tech services.

## PaperDSE-A-VII: Advanced accountancy Paper- VII (Cost accounting)

-	• •
At the end of the course Students will able to	
CO 1	Students will acquire the knowledge of elements of cost and cost
	sheet.
CO 2	Students will acquint the knowledge and skill to prepare job cost
	sheet and contract account.
CO 3	Students will explain the coasting process for processing units and
	service organizations.
CO 4	Students will understand to reconcile the cost and fiancial accounts.



# PaperDSE-A-VIII: Advanced accountancy Paper- VIII (Contemporary Issues in Accounting)

At the end of the course Students will able to	
CO 1	Students will acquire the knowledge of contemporary issues in
	accounting.

	Programme Specific Outcomes: B.Com	
After Comple	After Completion on the three years' graduation programme in B.Com., Students	
will able to -		
PSO 1	Understanding basic concepts of accountancy, principles of	
	accountancy and accounting cycle to maintain accounts of trading	
	& non-trading organizations.	
PSO 2	Getting acquainted with the procedure of preparation of income	
	statements, retained earnings, balance sheet and statement of cash	
	flows which are required for external users and more useful to	
	managers for managerial decision making.	
PSO 3	Inculcating different skills for analysis and interpretation of	
	financial data to understand financial health of an organization and	
	ensure that resources are being used to achieve the organizations	
	objectives.	
PSO 4	Developing knowledge about cost ascertainment and fixation of	
	selling price and cost control	
PSO 5	Obtaining the knowledge of various provisions of Income Tax Act	
	and their applications in computations of taxable income of an	
	individual under different heads of income.	

#### **B.Com.** I Semester I

**Paper: CC-A5Financial Accounting Paper-I** 

Course Outcomes: B.Com.	
At the end of the course Students will able to	
CO 1	To get an idea about the basic of accounting, accounting concepts
	and conventions and accounting process.



CO 2	To acquaint with skill of recording transactions related to
	amalgamation of partnership firm.
CO 3	To apply skills of accounting for consignment transactions
CO 4	To make use of knowledge and skill for accounting of professionals.

#### Paper: CC-A3Management Principles & Application Paper -I

At the end of the course Students will able to	
CO 1	To get an idea about the basic managerial process and
	planning works in real life
CO 2	To develop decision making skills to evaluate various
	Alternatives and situations.
CO 3	To acquaint with the knowledge of organizing various
	Resources.
CO 4	To understand the concepts of authority and process of
	Delegation of authority.
CO 5	To understand importance of proper direction and to develop their
	communication skill.

## Paper: CC-A1Micro Economics Paper-I

At the end of the course Students will able to	
CO 1	The student should be able to apply tools of consumer behavior and
	firm theory to business situation.
CO 2	The students will understand rural market, consumers and 10 for
	he or she will also enlighten about various recent trends and Internal
	development in marketing

**Paper: GEC-A1Principles of Marketing Paper-I** 



At the end of the course Students will able to	
CO 1	The students will know various marketing concepts,
	basics of marketing and he or she will be able to assess for
	Consumer behavior.

## Paper:GEC-B3 Insurance Paper-I

At the end of the course Students will able to	
CO 1	To enable the students to know the fundamentals of Insurance
CO 2	To give exposure to the students about life insurance products,
	Procedural part and life insurance business in India

#### **B.Com. I Semester II**

#### **Paper: CC-A6 Financial Accounting Paper-II**

At the end of the course Students will able to	
CO 1	To acquaint with skill of recording transactions related to single
	entry system.
CO 2	To apply skills of accounting for conversion of partnership firm in to
	alimited company.
CO 3	To make use of knowledge and skill for accounting of branches.
CO 4	To understand the knowledge about computerized accounting.

## Paper: CC-A4 Management Principles & Application Paper -II

At the end of the course Students will able to	
CO 1	To get an idea about motivation concept and theories
CO 2	To develop their leadership skill
CO 3	To understand and utilize techniques of coordination and control
CO 4	To understand various emerging issues in management like green
	management and to understand concept of Change



## **Paper : CC-A2Micro Economics Paper-II**

At the end of the course Students will able to	
CO 1	The student should be able to apply tools of consumer behavior and
	firm theory to business situation.

#### **Paper: GEC-A2 Principles of Marketing Paper-II**

At the end of the course Students will able to	
CO 1	The students will be aware with four basic elements of marketing
	i.e.4Ps in detail and he will be armed with various Skills about
	branding, labeling and advertisement.
CO 2	The students will know about management of retailing operations
	and changing scenario of retail business in India.

## Paper :GEC-B4 Insurance Paper-II

At the end of the course Students will able to	
CO 1	To enables the students to know the fundamentals of General
	Insurance.
CO 2	To give exposure to the students about general insurance, procedural
	part, general insurance business and FDI in insurance in India.

#### **B.Com**. II Semester III

## **Paper : CC-B1Corporate Accounting Paper-I**

At the end of the course Students will able to	
CO 1	Demonstrate accounting for issue of bonus shares, rights shares and sweat
	equity.



CO 2	Demonstrate accounting for issue of debentures and redemption of debentures.
CO 3	Explain the accounting of profit/loss prior to and after incorporation.
CO 4	Practice the fundamental accounting process on Tally ERP

## Paper :CC-B7 Macro Economics Paper-III

At the end of the course Students will able to	
CO 1	The macro variables and nature and scope of macro economics.
CO 2	The relevance of national income concepts and their applications.
CO 3	Process of value of money determination.
CO 4	Theory of output and employment generation.

## **Paper CC-B3: Fundamentals of Entrepreneurship Paper -I**

At the end of the course Students will able to	
CO 1	To impart theoretical knowledge of Entrepreneurship
CO 2	To develop Entrepreneurship qualities and skills
CO 3	To acquaint students with Steps involved in the formation of Small
	Enterprises
CO 4	To enlighten students with Recent Trends and Concepts in
	Entrepreneurship

## **Paper : AECC-C5 Business Statistics Paper-I**

-	<u>-</u>
At the end of the course Students will able to	
CO 1	To explain the scope of statistics in business and apply sampling
	techniques in real life.
CO 2	To summarize data by means of measures of central tendency and
	dispersion.
CO 3	To explain the merits and demerits of various measures of central



	tendency and dispersion.
CO 4	To carryout analysis of bivariate data using simple correlation and simple linear regression.

## Paper : CC-B5 Money and Financial System Paper-I

At the end of the course Students will able to	
CO 1	Students explain the concept of money, its new incarnations and flow in to the economy
CO 2	Students understood the financial system and its operation
CO 3	Students understand the nature of banking business and practice

#### **B.Com** . II Semester IV

## **Paper: CC-B2 Corporate Accounting Paper-II**

At the end of the course Students will able to	
CO 1	Demonstrate accounting for redemption of Preference Shares.
CO 2	Compute the value of shares as per distinct methods and
	differentiate between them.
CO 3	Simulate practice of preparing financial statements as per the
	provisions of Indian Companies Act, 2013.
CO 4	Practice the store accounting through Tally ERP.

## Paper:CC-B8 Macro Economics Paper-IV

-	<u>-</u>
At the end of the course Students will able to	
CO 1	Theories of trade cycle in connection with business.
CO 2	Theory of Public finance relating to economy, business and citizens.
CO 3	The trade and business practices through international trade theories.
CO 4	The de termination of rate of exchange.



## **Paper: CC-B4 Fundamentals of Entrepreneurship Paper -II**

At the end of the course Students will able to	
CO 1	To acquaint students with family business in India
CO 2	To impart conceptual knowledge of Service and Agro
	Entrepreneurship
CO 3	To aware students about Business Plan and Project Report
CO 4	To inspire the students through successful stories of Entrepreneur

#### **Paper: AECC-C6Business Statistics Paper-II**

At the end of the course Students will able to	
CO 1	Understand discrete and continuous random variables, their
	respective probability distributions.
CO 2	Identify the applications of Binomial, Poisson and normal
	distributions.
CO 3	Measure trend and seasonal variations in time series data.
CO 4	Compute and interpret simple and weighted index numbers
CO 5	Construct and apply variable and attribute control charts.

#### Paper:CC-B6Money and Financial System Paper-II

At the end of the course Students will able to	
CO 1	Students understand the changing nature of financial system
CO 2	Students equipped explain and make use of the E- Banking services
CO 3	Students enable to analyse the stance of RBI's monetary policy

#### B.Com . III Semester V

#### Paper:CC-C7Business Environment (Indian EC-ENV.) Paper - I

	<del>_</del>
At the end of	the course Students will able to
CO 1	Student should able to understand the significance and position of



	Indian economy at the world level.
CO 2	Students should study the scenario of agricultural and industrial
	sectors.
CO 3	Student should aware regarding Indian economy is facing some of
	the fundamental economic problems.
CO 4	They should able to make plans and solutions to these being as a
	citizen.
CO 5	Student should understand the correlations between economical and
	social problems.

## Paper: CC-C3 Business Regulatory Framework Paper - I

At the end of the course Students will able to	
CO 1	Introduction to Business Law as well as other Laws.
CO 2	Achieving the knowledge of Law.
CO 3	Knowing the rights and liability of every citizen regarding society.
CO 4	Awareness of legally ability.
CO 5	Acquainting with the latest laws, governing business and
	commercial transactions.

## Paper:CC-C1Modern Management Practices Paper - I

At the end of the course Students will able to	
CO 1	To impart knowledge of modern management
CO 2	To understand concepts of CRM
CO 3	To know the concepts of emotional and social intelligence
CO 4	To understand the concept of lean and talent management

## **Paper: CC-C5 Cooperative Development Paper - I**

At the end of the course Students will able to	
CO 1	To study the meaning and principles of Co-operation.
CO 2	Study the agricultural and Non-agricultural Credit Co-operative institutions.



CO 3	To study the Co-operative credit system
CO 4	To Study the important cooperative organizations

## Paper: DSE - A1 Advanced Accountancy Paper - I

At the end of the course Students will able to	
CO 1	Practice the preparation of financial statements of banks.
CO 2	Demonstrate accounting for farms and hire purchase system.
CO 3	Simulate accounting situations of insurance claim.
CO 4	Explain the accounting process on Tally with GST.

## Paper: DSE - A2Advanced Accountancy Paper - II

At the end of the course Students will able to	
CO 1	To understand the concept and types of audit
CO 2	To identify the residential status and its implication on tax liability
CO 3	To understand the concept of exemption from income
CO 4	To know the computation of income from various sources as well as
	total income





## **Programme Specific Outcomes and Course Outcomes**

## **ARTS**

Programme Specific Outcomes M.A. Economics	
After Completion on the two years' post graduation programme in M.A.	
Economics, Students will able to -	
PSO 1	Job opportunity at Junior college/Senior college level lectureship
PSO 2	Career in Banking/Finance/Co-operative sector.
PSO 3	Required minimum qualification for M. Phil. And Ph.D.
PSO 4	Understanding economic activities/planning/budget.

#### M.A. Economics I Semester I

Paper :MM 1 Micro Economic Analysis

Course Outcomes:	
At the end of the course Students will able to	
CO 1	Understand the methods of elasticity of demand & demand
	forecasting.
CO 2	Explain production and cost theory.
CO 3	Classify actual market structure
CO 4	Illustrate the value and use of managerial theories of firm.



## **Paper MM 2Monetary Economics**

At the end of the course Students will able to	
CO 1	Understand the significant role of money in the economy.
CO 2	Examine the theoretical aspects of money
CO 3	Aware regarding the role of monetary and fiscal policy
CO 4	Demonstrate money multiplier

## **Paper MM 3 Agricultural Economics**

At the end of	At the end of the course Students will able to	
CO 1	Learn about the structure and characteristics of the agricultural	
	sector.	
CO 2	Understand the various constraints specific to less developed	
	agriculture	
CO 3	Understand theories regarding the operation of various institutions	
	within the agricultural sector less developed countries like India	
CO 4	Analyze agricultural problems and develop policies to overcome	
	them.	

## **Paper MM 4 Indian Capital Market**

At the end of the course Students will able to	
CO 1	Examine Indian capital markets.
CO 2	Understand the capital market and various instruments, organization of securities markets



## **Paper: ME 3 Principles and Practice of Cooperation**

At the end of the course Students will able to	
CO 1	Understand the principles and practice of co-operation.
CO 2	Understand the principles and practice of co-operation.
CO 3	Evaluate co-operatives in India
CO 4	Explain agro-based cooperatives and non agricultural cooperatives.

## Paper: RM Research Methodology

At the end of the course Students will able to	
CO 1	Get acquainted with the basic concepts of research and its
	methodologies.
CO 2	Select and define appropriate research problem and parameters.
CO 3	Use techniques of data analysis in research.
CO 4	Write a research report and thesis
CO 5	Write a research proposal (grants).

#### M.A. Economics I Semester II

## **Paper MM 1 Public Economics**

At the end of the course Students will able to	
CO 1	Understand the role of government in economic planning and
	development.
CO 2	Examine the theory of public choice and public policy.
CO 3	Equip with theory of public expenditure and project evaluation.
CO 4	Analyse the theories of taxation and public budget.



#### **Paper MM 2 Ecological and Resource Economics**

At the end of the course Students will able to	
CO 1	Equip with the natural resources and the related issues.
CO 2	Analyse the sustainable development in different perspectives.
CO 3	Assess the exploitation of renewable and non-renewable natural
	resources.
CO 4	Discuss on the externalities and policy thereon.

#### Paper MM 3 Agricultural Developments in India

At the end of the course Students will able to	
CO 1	Understand the nature, scope, challenges and opportunities in
	Agricultural Sector.
CO 2	Analyze the causes of agrarian distress and remedies.
CO 3	Elaborate the possible measures to reduce agrarian distress
CO 4	Prepare a plan for reforms regarding the Agriculture sector

#### **Paper MM 4Contribution of Nobel Laureates to Economics**

At the end of the course Students will able to	
CO 1	Get acquainted with the ideas and works of Economists and thinkers
	who received Nobel
CO 2	Memorial Prize in Economics.
CO 3	Analyze the theories and models developed by Nobel Laureates

### **Paper: ME 5 Financial Markets and Institutions**

At the end of the course Students will able to



CO 1	Understand the significant role of financial institutions in the
	process of growth and development.
CO 2	Analyze financial markets.
CO 3	Explain the role of international financial institutions in the steady
	growth of the world.
CO 4	Provide practical experience and skill development modules in
	financial sector

## Paper OJ on Job Training

At the end of	At the end of the course Students will able to	
CO 1	Understand the rules, regulations and the work procedures by	
	adopting them in their day-to-day performance.	
CO 2	Learn the practical methods of work by observing and assisting his /	
	her senior.	
CO 3	Equip with important skills like adaptability and flexibility and learn	
	to become dexterous in any situation and gain expertise in various	
	domains	
CO 4	Develop positive approach towards inevitable changes that occurs in	
	the workplace.	

## Paper - FP Field Project

At the end of	At the end of the course Students will able to	
CO 1	To identify the research problems and formulate objectives.	
CO 2	To choose appropriate methodology with proper tools and	
	techniques.	
CO 3	To analyze and interpret the data collected from different sources.	



CO 4	To make decision or find out conclusions on the basis of data
	analysis.

#### M.A. Economics II Semester III

#### **Paper STATISTICS IN ECONOMIC ANALYSIS EC -5**

At the end of	At the end of the course Students will able to	
CO 1	To train the students to use the techniques of statistical analysis,	
	which are commonly applied to understand and analyze economic	
	problems.	
CO 2	To emphasis of this paper is on understanding economics with the	
	help of quantitative techniques.	
CO 3	Students will be initiated into various economic concepts, which are	
	amenable to mathematical treatment	

## **Paper : MACRO ECONOMIC ANALYSIS EC – 6**

At the end of	At the end of the course Students will able to		
CO 1	To study function a relationship between the large aggregates.		
CO 2	To equip the students at the post graduate level to understand systemic facts and test theoretical developments for empirical analysis.		

## Paper: INDIAN PUBLIC FINANCE EO -22

At the end of	At the end of the course Students will able to		
CO 1	To analyze import an tissues in Indian public finance in the context		
	of the India's economic development		
CO 2	It deals with the effectiveness of public finance in India.		
CO 3	To provide a detailed treatment of issues in Indian public finance to those intending to specialize in this area.		
CO 4	Student will know the public revenue, public expenditure, debt,		
	budgets and federal finance system in India. This paper also		



inte	nds to far	niliarize stude	ents to anal	yze t	he issu	ues relate	ed with
tax	system,	expenditure	programs	and	debt	issues,	deficit
fina	ncing, fed	eral finance a	nd stabiliza	tion ii	nstrum	ents.	

#### M.Com. II Semester IV

## **Paper: ECONOMICS OF TRANSPORT AND COMMUNICATION EO-23** (Elective Paper)

At the end of	At the end of the course Students will able to	
CO 1	To study efficiency, spread and its access to productive agents of such facilities determines the competitiveness of the industrial sector.	
CO 2	To study role of communication in economic development is also equally important.	
CO 3	To study modern communication means like internet, telephone and TV are now converging in to one mega and multifaceted tool which may have long term impact	

#### **Paper: INTERNATIONAL ECONOMICS EC-7 (Compulsory Paper)**

At the end o	At the end of the course Students will able to	
CO 1	Provides a deep understanding about the broad principles and theories, which govern the free flow of trade in goods, services and capital—both short term and long term—at the global level. Besides, preparing the students about the relevance and limitations of these principles.	
CO 2	The contents of the paper spread over different units, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels as also their welfare implications at macro level and the distribution of gains from trade	



	to North and South.
CO 3	To train the students about the various issues of trade and likely consequences on income, employment and social standards and
	possible policy solutions as the world will move into the 21 <sup>st</sup> century.

# Paper: ECONOMICS OF GROWTH AND DEVELOPMENT EC -8 (Compulsory paper)

At the end of	At the end of the course Students will able to	
CO 1	To study theories of growth and development, social and sartorial aspects of development, importance of agriculture and industry, the rationale and pattern of industrialization in developing countries.	
CO 2	To study important issues related to development such as policy environment, infrastructure –linkages, role of international trade, role of monetary and fiscal policies, investment criteria and relevance for planning have been included.	
CO 3	This paper deals with the theoretical aspects of the process of growth and development including the role of agriculture and industry as well as the role of the state.	

## Paper: CO-OPERATIVE THOUGHTS AND ADMINISTRATION EO – 32 (Elective Paper)

(Elective Tuper)			
At the end	At the end of the course Students will able to		
CO 1	To Study Co-operative movement, now-a-days has become a part of total economic activities.		
CO 2	It will study not only an economic movement, but also social, political and ethical movement, enriching total human life.		
CO 3	Helps to proper understanding of co -operative thoughts and administration is a pre requisite for study of co-operative		

movement.	
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**Paper:** ADVANCED BANKING EO – 36 (Elective paper)

	\ 1 1 /
At the end of the course Students will able to	
CO 1	This paper provides detailed information about the Advancement in Indian banking system.
CO 2	Though this paper we intended to aware the students about banking technology, recent trends in banking sector.
CO 3	Provided the opportunity to the students to achieve as specific skills which are required for working banking sector.

Programme Specific Outcomes: B.A. Economics	
After Completion on the three years' graduation programme in B.A. Economics,	
Students will able to -	
PSO 1	Understanding how different degrees of competition in a market
	affect pricing and output.
PSO 2	Understanding the efficiency and equity implications of
	market interference, including government policy.
PSO 3	Developing research knowledge in economics.
PSO 4	Developing the skill of data collection & use of sampling
	techniques in research.
PSO 5	Developing the knowledge about theories of economic growth &
	Development and issues of economic planning.

#### **B.A.** Economics I Semester I

Paper:Indian Economy I

## **Course Outcomes:**



At the end of the course Students will able to	
CO 1	Acquaint the students with Structure of the Indian economy and changes
	taking place therein.
CO 2	Understanding population Problem of Indian Economy
CO 3	Understanding population Problem of Indian Economy

#### **B.A.** Economics I Semester II

#### **Paper:**Indian Economy II

At the end of the course Students will able to	
CO 1	Acquaint with the policies and performance of major sectors in
	Indian Economy.
CO 2	Understanding the nature, scope, challenges and opportunities of
	economic reforms.
CO 3	Awareness regarding causes of agrarian distress and remedies.
CO 4	Understanding policy reforms regarding the industry and service
	sector.

#### **B.A.** Economics II Semester III

#### **Paper:PRINCIPLES OF CO-OPERATION**

At the end of the course Students will able to	
CO 1	Recognize the nature of cooperative movement in India
CO 2	Equip the long history of cooperative movement.
CO 3	Identify the role of registrar and auditor in cooperative movement.
CO 4	Analyze the importance of state aid in Cooperation.

## Paper: MACRO ECONOMICS -I

At the end of the course Students will able to	
CO 1	Equip with the macroeconomics.
CO 2	Analyze the concepts, measurement and difficulties in measurement
	of national income
CO 3	Examine the relationship between supply of money and value of



	money.
CO 4	Assess the theory of employment, consumption and investment
	function.

#### **Paper: MONEY AND BANKING**

At the end of the course Students will able to	
CO 1	Understand the working of banks
CO 2	Examine the role of RBI as a central bank.
CO 3	Analyse the banking practices.
CO 4	Elaborate the Credit (Loan) Appraisal and NPA.

# **Paper: CO-OPERATIVES IN INDIA Course – II**

At the end of the course Students will able to	
CO 1	Understand the nature of cooperative movement.
CO 2	Analyze the Co-Operative Marketing in India
CO 3	Highlight the progress of co-operative processing societies in India.
CO 4	Identify the role of National Institutions in Co-operation

#### **Paper :MACRO ECONOMICS - II**

At the end of the course Students will able to	
CO 1	Understand the concept, types, and causes of Inflation.
CO 2	Examine the theory of trade cycles.
CO 3	Learn Concepts and scope of public finance.
CO 4	Get acquainted with the taxation, public expenditure and public debt

#### Paper: BANK AND FINANCIAL MARKET

At the end of the course Students will able to	
CO 1	Understand the Indian Financial System
CO 2	Examine the performance Indian financial institutions.
CO 3	Analyse the banking reforms in India.
CO 4	Equip with banking services know the cyber-crimes in e-banking



#### **B.A.** Economics III

# Paper: Principles of Micro Economics I & II

At the end of the course Students will able to	
CO 1	Explain what economics is & why it is important
CO 2	Understand consumer decision making & consumer behaviour
CO 3	Define the concept of utility & satisfaction
CO 4	Understand producer decision making & producer behaviour
CO 5	Identify the market structure and Understand the factor pricing

# Paper: Research Methodology in Economics –I& II

At the end of the course Students will able to	
CO 1	Select & define appropriate research problem and parameters
CO 2	Understanding the basic framework of research process.
CO 3	Defining various research designs and techniques.
CO 4	Identifying various sources of information for literature review and
	data collection.
CO 5	The ethical dimensions of conducting applied research.

# Paper: History of Economic Thoughts I & II

	•
At the end of the course Students will able to	
CO 1	Acquaintance with the economic thoughts of Classical, Nationalist
	and Socialist Thinkers
CO 2	Judging the development of economic thoughts.
CO 3	Realizing the economic concepts and theories of Neo-classical and
	Indian thinkers.
CO 4	Evaluating the development of Indian economic thoughts.



# **Paper:** International Economics I & II

At the end of	At the end of the course Students will able to	
CO 1	Understand the measurement of gains from international trade	
CO 2	Measure the terms of trade	
CO 3	Evaluating various types of exchange rates and its merits and	
	demerits.	
CO 4	Judging the function, merits and demerits of Foreign Capital, and	
	International Corporation (IMF, IBRD, WTO and SAARC).	
CO 5	Realizing the volume, composition and direction of Balance of	
	trade and Balance of payments.	



Pro	Programme Specific Outcomes : M.A. Sociology	
After Comp	After Completion on the three years' graduation programme in M.A. Sociology,	
	Students will able to -	
PSO 1	Getting the latest sociological knowledge pertaining to various	
	sub-fields within the discipline of sociology.	
PSO 2	Orientation for comprehending, analyzing and critically assessing	
	the social reality from sociological perspective.	
PSO 3	Inculcating the analytical ability, research aptitude and relevant	
	skills in the students useful for their social and professional life.	
PSO 4	Preparing for undertaking research, jobs in Colleges /Universities	
	/Research Institutions, various Government Departments and	
	Nongovernmental organizations as well as for various competitive	
	examinations.	

# M.A. Sociology I Semester I

# **Paper: I Classical Sociological Traditions**

At the end of	At the end of the course Students will able to	
CO 1	To apply the sociological theories to the existing sociological	
	phenomena.	
CO 2	To understand the sociological theories of Karl Marx, Emile	
	Durkheim and Weber.	
CO 3	To identify the relationships between socio-economic and	
	intellectual factors and sociological theories.	
CO 4	To solve the social problems by using sociological theories	

# **Paper :II Understanding Indian Society**

At the end of the course Students will able to



CO 1	To understand the historical background of Indian Society.
CO 2	To identify factors affecting the change taking place in Indian
	Society.
CO 3	To understand the diversity and unity in Indian Society.
CO 4	To familiarize the students about the major segments in Society.
CO 5	To understand the major processes of change in Indian society.

# **Paper : III Society and Culture in Maharashtra**

At the end of	At the end of the course Students will able to	
CO 1	To understand socio-political history and economic profile of	
	Maharashtra.	
CO 2	To know Polity, Education and Cultural life in Maharashtra.	
CO 3	To understand the features, changing nature and problems of rural, urban and tribes of Maharashtra.	
CO 4	To understand the major social movements in Maharashtra.	

# Paper: IV Social Movements in India Part-A

At the end of the course Students will able to	
CO 1	To identify Social Movements and their role in the social change
	and transformation.
CO 2	To summarize all the social movements and their role in the context
	of Indian society.
CO 3	To evaluate the social movements from sociological perspectives.

# Paper :V Rural Society in India

At the end of the course Students will able to	
CO 1	To know the approaches to the study of rural society.
CO 2	To provide sociological understanding of rural social structure,



	change and development in India.
CO 3	To understand the changing nature of rural social institutions
CO 4	To understand agrarian social structure and social change.

# Paper: VI Research Methodology

At the end of	At the end of the course Students will able to	
CO 1	To develop the understanding of social research.	
CO 2	To understand the basics of social research methodology.	
CO 3	To impart knowledge to the students regarding the fundamentals of methodology of social research.	
CO 4	To give practical training of research techniques by assigning project work.	

#### M.A. Sociology I Semester II

# **Paper: VII Classical Sociological Traditions**

At the end of the course Students will able to	
CO 1	To understand Classical Sociological theories of Pareto, Cooley and
	Mead
CO 2	To understand the later developments in sociological theory.
CO 3	To understand the Sociological perspectives in sociology.

# **Paper: IX Perspective on Indian Society**

At the end of the course Students will able to	
CO 1	To understand interconnections of theoretical perspectives on Indian
	Society.
CO 2	To study the development of Sociology and Social anthropology in
	India.



CO 3	To understand the theoretical approaches to the study of Indian
	society.

# **Paper: X Sociology of Change and Development**

At the end of the course Students will able to	
CO 1	To know the various theories of social change.
CO 2	To understand the concept of social change and various processes of
	social change in Indian society.
CO 3	To understand the theories of development and underdevelopment.
CO 4	To understand the various paths of development.

# **Paper: XI Social Movements in India Part-B**

At the end of	At the end of the course Students will able to	
CO 1	To identify Social Movements and their role in the social change	
	and transformation.	
CO 2	To summarise all the social movements and their role in the context	
	of Indian society.	
CO 3	To evaluate the social movements from sociological perspectives	

# Paper:XII Urban Society in India

At the end of the course Students will able to	
CO 1	To understand the basic concepts in Urban Sociology
CO 2	To know the theories of urban development.
CO 3	To understand the different urban processes and social consequences
	of urbanization.
CO 4	To know the various urban problems occurred due to urbanization.

# Paper:XIII Field Project



At the end of	At the end of the course Students will able to	
CO 1	To enhance the ability of the students through practical training.	
CO 2	To provide practical field training to the students in order to develop	
	research skills.	
CO 3	To develop the students field project skill and to encourage them to	
	pursue career in the field	
	of social research (particularly survey research).	

#### M.A. Sociology II Semester III

**Paper: MODERN SOCILOGICAL THEORIES** 

At the end of the course Students will able to	
CO 1	To acquaint the students with the concept of theory and relationship
	between theory and research.
CO 2	To introduce the students to the schools of thought that dominated
	sociology in the latter half of the 20 <sup>th</sup> century.

# Paper: METHODOLOGY OF SOCIAL RESEARCH (WITH PRACTICAL)

At the end of the course Students will able to	
CO 1	To impart knowledge to the students regarding the fundamentals of
	methodology of social research.
CO 2	To give practical training in use of research techniques by assigning
	project work.

# **Paper:SOCIOLOGY OF MIGRATION**



At the end of the course Students will able to	
CO 1	To orient the students to various aspects of migration.
CO 2	To make the students understand the importance of migration in the process of social change and development.

#### **Paper: HUMAN RIGHTS AND SOCIETY**

At the end of the course Students will able to	
CO 1	To acquaint the students with the conceptual, philosophical,
	theoretical aspects of Human Rights and Duties
CO 2	To familiarize the students with the Human Rights and Constitution
	of India.

# M.A. Sociology II Semester IV

**Paper: RECENT TRENDS IN SOCIOLOGICAL THEORY** 

At the end of the course Students will able to	
CO 1	To acquaint the students with some of the recent theoretical
	perspectives in sociology.
CO 2	To develop analytical skills among the students through the study of
	theoretical perspectives.

# Paper: DATA COLLECTION AND ANALYTICAL PROCEDURES (WITH PRACTICAL)

At the end of the course Students will able to



CO 1	To give knowledge to the students regarding techniques of data collection.
CO 2	To give practical training regarding use of techniques of data collection, analytical procedures, statistical measures and computers.

# Paper: RURAL DEVELOPMENT IN INDIA

At the end of the course Students will able to	
CO 1	To enrich students' understanding about the changing nature of rural
	development in India.
CO 2	To study critically the impact of various developmental
	schemes/programmes introduced for rural development.

# Paper: SOCIOLOGY AND SOCIAL WORK

At the end of the course Students will able to	
CO 1	To orient the students to the field of social work education.
CO 2	To make clear the relevance of sociology to social work practice.



Pro	Programme Specific Outcomes: B.A. Sociology	
After Comp	After Completion on the three years' graduation programme in B.A. Sociology,	
	Students will able to -	
PSO 1	Acquaintance with social transactions, social relations, social	
	formations, social control, social values and culture.	
PSO 2	Knowing the significance of social institution, caste system,	
	religion, nationalism, integrity, equality and justice.	
PSO 3	Getting the knowledge of the works of social reformers all over the	
	nation.	
PSO 4	Ability to follow new stream of thoughts and theories of social	
	thinkers	
PSO 5	Getting the deep knowledge about various social groups like tribal	
	community, women bulk etc.	

# **B.A.** Sociology I

# **Paper: I INTRODUCTION TO SOCIOLOGY**

At the end of the course Students will able to	
CO 1	The student learns to apply to sociological perspective in
	understanding how society shapes our individual lives.
CO 2	It also provides a foundation for the other more detailed and
	specialized course in sociology.
CO 3	The student learns how to read and interpret complex ideas and texts
	and to present them in a cogent manner.
CO 4	The student can able to understand the concept of culture &
	socialization.



# **Paper: II – Principles of Sociology**

At the end of the course Students will able to	
CO 1	The course is intended to introduce the student to a sociological
	way of thinking.
CO 2	It also provides a foundation for the other more detailed and
	specialized course in sociology.
CO 3	The course provide competitive atmosphere for the student.

#### **Paper:** Scientific Method (Compulsory subject)

At the end of the course Students will able to	
CO 1	To implement of the scientific approach in the student.
CO 2	To introduce the various scientific methods in the students.
CO 3	To develop the research attitude in student
CO 4	To enhance scientific attitude among the students.

# **B.A.** Sociology II Semester III

# Paper: III SOCIAL ISSUES IN INDIA

At the end of the course Students will able to	
CO 1	To acquaint the students to major social problems & challenges the
	problem of the Indian society.
CO 2	Awareness created in the student of contemporary social problems
	in India.
CO 3	To understand the Socio-Legal Issues.

# **Paper: IV Social Movements**

At the end of	the course Students will able to
CO 1	To acquaint the student to concept, element & Importance of Social
	Movement.
CO 2	To understand the various social movements & its impact on
	society.
CO 3	To draw attention to the variety of ideas & debates about India.

# Paper: IDS PAPER I : SOCIAL REFORMS IN INDIA

At the end of	At the end of the course Students will able to	
CO 1	Understand the salient features of prominent socio-religious reform	
	movements.	
CO 2	Explain the thought and work of Mahatma Phule for radical	
	transformation of Indian Society.	
CO 3	Know the measures taken by Rajashri Shah Maharaj for	
	emancipation of lower classes and women.	
CO 4	Understand the thoughts of Ambedkar on the annihilation of the	
	caste system and un touch ability in India.	
CO 5	Know how the Indian constitution embodies the values of social	
	justice and equality.	



# Paper: IDS PAPER II : SOCIAL REFORMS IN MAHARASHTRA

At the end of the course Students will able to	
CO 1	Know about the beginnings of social reforms in Maharashtra by the
	ParamhansaMandali and PrarthanaSamaj.
CO 2	Understand the contribution of women reforms.
CO 3	Explain the contribution of Social reformers in the fight for social
	justice.
CO 4	Explain the role played by educational reforms in transformation of
	society.

# **B.A.** Sociology II Semester IV

Paper: VGENDER & VIOLENCE

At the end of the course Students will able to	
CO 1	This course attempts to provide an understanding of the logic of the
	violence.
CO 2	To acquaint the students awareness of its most common forms
	&tries to equip the students with a sociologically informed basis for
	making pragmatic, ethical & effective choices while resisting or
	intervening in the context of gendered violence.



#### Paper: VI SOCIOLOGY OF HEALTH

At the end of the course Students will able to	
CO 1	The course introduces students to the sociology of health, illness &
	medical practice by highlighting the significance of socio-cultural
	dimensions in the construction of illness & medical knowledge.
CO 2	To understand the theoretical perspectives examine the dynamics
	shaping these constructions.
CO 3	To understand the Negotiations of health & illness are explored
	through ethnographies

# **B.A.** Sociology III Semester V

# Paper: VII Western Sociological Thinkers

At the end of	the course Students will able to
CO 1	Acquaintance with the sociological thought of the Pioneers of
	Sociology.
CO 2	Making awareness of the perennial of structure versus agency.

# Paper: VIIIMethods Of Social Research (Part I)

At the end of the course Students will able to	
CO 1	Thrust of the course is on empirical reasoning, understanding and
	analysis of social reality.
CO 2	Introduction to various steps in conducting research.
CO 3	Acquaintance with different types of research and issues in research.



#### **Paper: IX Political Sociology**

At the end of the course Students will able to	
CO 1	An ability to comprehend the embeddedness of political and the
	social in each other.
CO 2	Be able to understand the relationship between state and society in
	shaping politics in India both historically & analytically

#### **Paper: X Human Rights**

At the end of the course Students will able to	
CO 1	Students will be able to conceptual understanding about human
	rights.
CO 2	Understand the nature and role of human rights in India.

#### Paper: XI Sociology of Religion

At the end of the course Students will able to	
CO 1	Students will be able to make link between texts and paraphrase
	their arguments & use these to communicate their ideas in research
	papers, projects & presentations.
CO 2	By encompassing contemporary developments the course enables
	student to think about linkages between religion & society at various
	levels.

# **B.A. Sociology III Semester VI**

# Paper: XII Indian Sociological Thinkers

At the end of the course Students will able to	
CO 1	Introduction to the diversification in Indian society through the
	different ideologies given by various Indian Sociologists.
CO 2	Sensitization of the contemporary Indian issues different



#### **Paper: XIII** Methods of Social Research (Part-II)

At the end of the course Students will able to		
CO 1	Imparting basic Research Skills	
CO 2	Introduction to various steps in conducting research.	
CO 3	Acquaintance with different types of research and issues in research.	

# Paper: XIV Social Anthropology

At the end of the course Students will able to			
CO 1	CO 1 Understanding the economic and developmental aspects of tribal'		
	in India.		
CO 2	Analyzing the tribal problems		

# Paper:XV Rural Sociology

At the end of the course Students will able to		
CO 1	CO 1 Introduction the Indian Rural Social Structure	
CO 2	Understanding the nature of village studies conducted by different	
CO 3	Discussing the changing power structure in rural Community.	

#### Paper: XVI Urban Sociology

At the end of the course Students will able to			
CO 1	To appreciate the significance of the city & the process of		
	urbanization & its consequences across the globe		
CO 2	To develop critical thinking among the students.		



Programme Specific Outcomes: M.A. Hindi			
After Completion on the three years' graduation programme in M.A. Hindi,			
	Students will able to -		
PSO 1	Job opportunities in language translation		
PSO 2	Job opportunities in Radio Jockey & Aakashvani sector as speaker		
PSO 3	Opportunities in news channels as anchor		
PSO 4	Platform to make career in competitive examinations.		

#### M.A. Hindi I Semester I

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#### M.A. Hindi I Semester II



# **Paper: V**

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#### M.A. Hindi II Semester III

#### Paper: 1 Criticism

At the end of the course Students will able to	
CO 1	To explain the relevance & reality of literature
CO 2	To study literature in contest of society & culture

# **Paper: 2 History of Hindi Literature**

At the end of the course Students will able to	
CO 1	To study the psyche of human beings & explain their forms of
	sensitivities.
CO 2	To understand & consider changed process of development through
	history of literature.

# **Paper:3Translation Theory &Practical**

At the end of the course Students will able to	
CO 1	To acquaint the translation to open the various platforms of foreign
	language.
CO 2	To explain the language of social media for sake of employment



I	Programme Specific Outcomes: B.A.Hindi	
After Co	After Completion on the three years' graduation programme in B.A. Hindi,	
	Students will able to -	
PSO 1	Developing reading, writing, speaking and listeningskills.	
PSO 2	Availing the job opportunities intranslation.	
PSO 3	Increasing the critical attitude about literarywriting.	
PSO 4	Creating an interest inliterature.	
PSO 5	Imbuing the literary researchattitude	

#### B.A. Hindi I Semester I

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#### **B.A.** Hindi I Semester II

**Paper:II** 

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#### **B.A.** Hindi II Semester III

**Paper:III** 



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#### **B.A.** Hindi III Semester V

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Programme Specific Outcomes: M.A. English		
After Co	After Completion on the three years' graduation programme in M.A. English	
Students will able to -		
PSO 1	Deep study of English as language and grammar.	
PSO 2	Vast knowledge of English literature	
PSO 3	Major and changing trends in world literatures in English language.	
PSO 4	Critical interpretation and Analysis of literature.	
PSO 5	Scholarship in English language and literature for his /her	
	personality building	

# M.A. English I Semester I

# Paper: I Poetry in English-

At the end of the course Students will able to	
CO 1	Major poet sand their poetic writings with changing trends.

#### **Paper :IIFiction in English**

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At the end of the course Students will able to	
CO 1	Major novelists and their writings with changing trends of world
	literature.

# Paper: III Modern Linguistics-

At the end of the course Students will able to	
CO 1	. Major Concepts and usages of English language.

Paper: IV British Literature-



At the end of the course Students will able to	
CO 1	Chief Developments of English literature from Renaissance to Romantic
	Age.

#### M.A. English II

#### **Paper: Drama in English**

At the end of the course Students will able to	
CO 1	Main Dramatists and their contribution to English literature.

#### **Paper: Critical Theories-**

At the end of the course Students will able to	
CO 1	Critical Theories and Modern criticism, application of these critical
	theories to literary writing.

#### Paper: British Literature from Pope to the end of 19th Century-

At the end of the course Students will able to	
CO 1	Major features of British literature in the Augustan Age, Neo-
	classical Age &Romantic Age.

#### Paper: Modern and post modern British Literature

At the end of the course Students will able to	
CO 1	Main tendencies of British Literature in modern and post modern
	era.

# **Programme Specific Outcomes: B.A. English**

After Completion on the three years' graduation programme in B.A. English



Students will able to -	
PSO 1	Basic knowledge of English as Language.
PSO 2	Major knowledge of English as Literature.
PSO 3	Basic knowledge of English Grammar.
PSO 4	Critical study of English Literary studies.
PSO 5	Relation between pleasure of literature and real life.

#### B.A. English I

#### **Paper: I Ability Enhancement Compulsory Course**

At the end of the course Students will able to	
CO 1	To acquaint students with four skills of language.
CO 2	To make them know about basic structure of English Grammar.
CO 3	To develop interest among students for spoken English.
CO 4	To create positive approach among students towards communicative
	English.
CO 5	To develop personality of students.

#### **Paper: II Ability Enhancement Compulsory Course**

At the end of the course Students will able to	
CO 1	Acquaintance with four skills of language
CO 2	Knowing basic structure of English Grammar
CO 3	Developing interest among students towards spoken English
CO 4	Creating Positive approach towards Communicative English
CO 5	Developing personality of students with knowledge of English
	language.

Paper: Modern Indian Writing in English Translation (Sem I & II): Optional English Paper I &II:



At the end of the course Students will able to	
CO 1	Knowledge of Translation literature
CO 2	Knowledge of short story in Translation
CO 3	Creating interest in studying poetry in translation
CO 4	Developing literacy approach
CO 5	Acquainting with literacy forms

#### **B.A.** English II

**Paper: Literature and Cinema** 

At the end of the course Students will able to	
CO 1	To know theory of Application, interpretation, Transformation and
	Transposition.
CO 2	To understand the influential relation between play and film, as well
	as novel and film.
CO 3	To study play the comedy of Errors and novel five points someone
	as well their filming into 'Angoor' and 'Three Idiots'

# **B.A.** English III

Paper:(Optional & Special English)

At the end of the course Students will able to	
CO 1	Enjoyment of literature
CO 2	Pleasure of literacy forms such as novel, poem, play, and essay.
CO 3	Critical understanding of literature.
CO 4	Relation between literature and real life.
CO 5	Emotional development of human mind.

# M. Phil English

**Paper: Research Methodology (Theory)** 



At the end of the course Students will able to	
CO 1	Fundaments of research, objectives, process methods and
	methodology, criterion of good research.
CO 2	Types of research, Research Degree, Presentation.

# **Paper: RECENT TRENDS IN ENGLISH STUDIES**

At the end of the course Students will able to	
CO 1	The student should acquaint with the latest approaches to language
	and literature.
CO 2	He/she should enable to apply these approaches to literary works
	and/or language
CO 3	Then the students have to declare the habit of making background reading with the help of various conventional and technological
	sources.

# **Paper: ELECTIVE PAPER**

#### **Modern British Literature (1980-2000)**

At the end of the course Students will able to	
CO 1	study of major trends and literary movements in modern British
	Literature and in depth study of these major writers- a poet, a novelist and adramatist
	novenst and adramatist

#### **Paper: New Literature in English**

At the end of the course Students will able to	
CO 1	A study of the major trends and movements in African, Caribbean,
	Australian, Canadian and Indian Literature.

# **Programme Specific Outcomes : M.A. Psychology**

After Completion on the three years' graduation programme in M.A. Psychology



Students will	Students will able to -	
PSO 1	Understand the ideologies, methodologies, values and ethical	
	principles of psychologist's practices working in various settings	
	with individuals and groups.	
PSO 2	Strengthen the theoretical understanding, expand knowledge-base,	
	and inculcate relevant values, attitudes and skills required for a	
	professional psychologist through the theory and practical	
	component of the course.	
PSO 3	Develop interdisciplinary and specialized professional outlook,	
	upheld the dignity and esteem of the psychology profession and	
	achieve self actualization.	
PSO 4	Inculcate the analytical ability, research aptitude and relevant skills	
	for professional life.	
PSO 5		

# M.A. Psychology I Semester I

# Paper: MM –I APPLIED COGNITIVE PSYCHOLOGY

At the end of	At the end of the course Students will able to	
CO 1	To make the students familiar with the field of cognition in general.	
CO 2	To make the students understand the process of memory.	
CO 3	To acquaint the students with Problem Solving and Creativity	
CO 4	To make the student understand the process of Reasoning and	
	Decision Making.	

# **Paper: MM – II THEORIES OF PERSONALITY**

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At the end of the course Students will able to	
CO 1	To understand basic concepts in different theories of personality
CO 2	To explore various approaches towards personality development



CO 3	To develop sound knowledge about dynamics of personality through
	comparative understanding

# Paper: MM –III POSITIVE PSYCHOLOGY

At the end of	At the end of the course Students will able to	
CO 1	Introduce growing fields of positive psychology to students.	
CO 2	To acquaint the students with the nature and significance of the emergence area of positive psychology within a life span	
	perspective.	
CO 3	To highlight importance of positive emotions, resilience, self-efficacy, optimism and hope processes in the experience of health and well-being.	

#### **Paper: COUNSELING SKILLS**

At the end of the course Students will able to	
CO 1	To understand the actual process of counselling.
CO 2	To make students familiar with professional skills in counselling.
CO 3	To understand the collaborative working in counselling.
CO 4	To learn to deal with complex situations in counselling.

#### Paper: RESEARCH METHODS IN PSYCHOLOGY

At the end of the course Students will able to	
CO 1	The basic research concepts, variables and sampling
CO 2	Some commonly used research designs
CO 3	The APA style of preparing research proposal and writing research
	proposal and writing research report.

#### M.A. Psychology I Semester II

# **Paper: MM-V STATISTICS IN PSYCHOLOGY**

At the end of the course Students will able to



CO 1	To acquaint and make the students understand with different
	statistical methods.
CO 2	To develop computational skills among students.
CO 3	To enable students to analyze the data of their practical and project
	work

# **Paper: MM-VI THEORIES OF LEARNING**

At the end of the course Students will able to	
CO 1	To understand basic concepts in different theories of learning
CO 2	To explore various approaches towards learning and growth
CO 3	To develop sound knowledge about learning principles through
	comparative understanding

# Paper: MM-VII Soft Skills in Psychology

At the end of the course Students will able to	
CO 1	Develop positive psychological and physical outlook
CO 2	Optimize their life skills experience and create a personal growth
	plan.
CO 3	Conceptually grounded and practically oriented towards
	interpersonal and group relationships that evolve beyond academic
	achievement.
CO 4	Strategies their personality traits towards community immersion and
	ethical behavior.

# Paper: Mindfulness for everyday life

At the end of the course Students will able to	
CO 1	To understand the mindfulness and its significance in personal and



	professional contexts.
CO 2	To Utilize the breath as a focal point for developing present-moment
	awareness.
CO 3	To Apply active listening and non-reactivity in communication to
	enhance understanding and connection.
CO 4	To Explore advanced mindfulness techniques, including meta-
	awareness and choiceless awareness.

# **Paper: On Job Training**

At the end of the course Students will able to		
CO 1	To apply theoretical knowledge and skills in a practical setting.	
CO 2	To develop and enhance professional skills necessary for a career in	
	psychology	
CO 3	To gain exposure to various psychological settings and specialties.	
CO 4	To foster professional networking and collaboration opportunities.	
CO 5	To reflect on personal and professional growth through the	
	internship experience.	

# **Programme Specific Outcomes : B.A. Psychology**

After Completion on the three years' graduation programme in B.A. Psychology Students will able to -



PSO 1	Enhancement of stress management skills.
PSO 2	Enhancement of coping skill with different problems in life.
PSO 3	Enabling to measure attitude, aptitude, interest, adjustment, skills etc. within the people.
PSO 4	Introduction to counseling process and techniques.
PSO 5	Illustration of mental disorder and treatment.

#### B.A. Psychology I Semester I

#### **Paper: I Foundations of Psychology**

At the end of the course Students will able to		
CO 1	Making familiar with the foundations of Psychology.	
CO 2	Acquaintance with cognitive process, states of consciousness and	
	learning.	
CO 3	Acquaintance with memory processes.	

#### **B.A.** Psychology I Semester II

#### Paper: II General Psychology

At the end of the course Students will able to		
CO 1	Making familiar with the field of general Psychology.	
CO 2	Acquaintance with intelligence, motivation and emotions.	
CO 3	Acquaintance with Personality.	

#### **B.A.** Psychology II Semester III

#### Paper: III PSYCHOLOGY FOR LIVING

At the end of the course Students will able to		
CO 1	To acquaint the students with processes of psychology for living.	
CO 2	To Introduce students the concept of Stress	
CO 3	To acquaint the students with Understanding mental disorders.	
CO 4	To introduce students various Psychotherapies and their uses in day	



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#### **Paper: IV SOCIAL PSYCHOLOGY**

At the end of the course Students will able to	
CO 1	To acquaint the students with processes of Social Psychology
CO 2	To introduce students the concept of Social Perception.
CO 3	To make aware the students about the Self and self-esteem.
CO 4	To introduce students concept of attitude formation, persuasion and
	Cognitive dissonance.

#### **B.A.** Psychology II Semester IV

#### **Paper:** V MODERN SOCIAL PSYCHOLOGY

At the end of the course Students will able to	
CO 1	To acquaint the students with processes of liking (attraction) and sources
	of liking.
CO 2	To make students familiar with the Concept of Social influence,
	Conformity and Compliance.
CO 3	To acquaint the students with Understanding Prosocial Behaviour.
CO 4	To introduce students the concept of
	Aggression, its causes and control.

#### Paper: VI APPLIED PSYCHOLOGY

At the end of the course Students will able to	
CO 1	To make familiar to students with processes of Personal control, Decision
	Making and Personal growth.
CO 2	To introduce students the work, career, play and using leisure positively.
CO 3	To acquaint the students with Making and keeping friends
CO 4	To introduce students the concept of Love and Commitment.

## B.A. Psychology III Semester V

Paper: VII Introduction to Cognitive Psychology



At the end of the course Students will able to	
CO 1	Gain an understanding of key concepts and research techniques in
	cognitive psychology.
CO 2	Gain an understanding of the basic processes of sensation attention
	and perception.
CO 3	Gain an understanding of the memory processes.
CO 4	Be able to broadening the horizons of cognitive psychology.

#### Paper: VIII Cross Cultural Psychology

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At the end of	At the end of the course Students will able to	
CO 1	To acquaint students with emerging field of Cross-Cultural	
	Psychology.	
CO 2	Tomakestudentsawareofglobalv/srelativisticapproachestostudyhu	
	manbehavior.	
CO 3	To sensitize students recognize cultural aspects of individual	
	development and socialization.	
CO 4	To understand socio-cultural influences in development of	
	abnormality and its treatment.	

#### Paper: IX Introduction to Psychopathology

At the end of the course Students will able to	
CO 1	To make the students familiar with the field of Psychopathology.
CO 2	To acquaint students with various perspectives of Psychopathology.
CO 3	To make the students understand Anxiety and Obsessive Compulsive
	Disorder.
CO 4	To acquaint students with Mood Disorders and Suicide.

#### **Paper:** X Current Trends in Psychology

At the end of the course Students will able to	
CO 1	To acquaint students with emerging new trends in Psychology.



CO 2	To make students aware of health risk behavior and their causes
CO 3	Tosensitizestudentsrecognizedevelopmentalfactorsrelatedtocriminal
	behaviour
CO 4	To understand psychological, amily and social influences in
	development of criminality.

## **Paper: XI Practical-Experiments**

At the end of	At the end of the course Students will able to	
CO 1	Introducing Psychological experiments.	
CO 2	Imparting the knowledge and skills for conducting experiments	
	and writing their reports.	
CO 3	Introducing some statistical methods	

## **B.A.** Psychology III Semester V

Paper: XII Psychological Testing

At the end of the course Students will able to	
CO 1	Introduction to the field of psychological testing in general.
CO 2	Acquaintance with the nature and uses of psychological test
CO 3	Understanding the nature and other description of intelligence
	test, ability tests and personality tests.

## Paper: XIII Counselling Psychology

At the end of the course Students will able to	
CO 1	Introduction to the field of counseling Psychology.



CO 2	Comprehending the applications of counseling Psychology in the
	fields of career, marriage, couple and family Counseling

#### **Paper: XIV Personal Psychology**

At the end of the course Students will able to	
CO 1	Introducing the field of personal Psychology.
CO 2	Acquaintance with study of communicating effectively valuing
	diversity and goal achievement.

#### Paper: XV Psychology of Organizational Behavior.

At the end of the course Students will able to	
CO 1	Introducing the field of organizational Behavior.
CO 2	Introducing study of personality, values, group Processes and changes in organization settings.

#### **Paper: XVI Practical: Psychological Tests**

At the end of the course Students will able to		
CO 1	Introduction to Psychological tests.	
CO 2	Imparting the knowledge and skills for administering psychological tests and writing their reports.	
CO 3	Getting acquainted with some statistical methods.	

# **Programme Specific Outcomes : B.A. Marathi**

After Completion on the three years' graduation programme in B.A. Marathi



Students will able to -	
PSO 1	Creating an interest in literature.
PSO 2	Availing the job opportunities in translation, transformation and media.
PSO 3	Developing language.
PSO 4	Increasing the critical attitude about literary studies.
PSO 5	Imbuing the literary research attitude.

#### B.A. Marathi I Semester I

Paper: Shabda Sanhita

At the end of the course Students will able to	
CO 1	To create the interest among the students about Marathi literature
	and Language
CO 2	To aware students about national unity, mother tongue, higher
	human values and ethics
CO 3	To develop their conversation skills through essay competition
CO 4	To avail the opportunities of employment by developing skills of
	listening, reading, speaking and writing
CO 5	To develop the skills of event management

#### **B.A.** Marathi I Semester II

Paper: Aksharbandh

At the end of the course Students will able to		
CO 1	CO 1 To familiar with Marathi literature Authors and Poets	
CO 2	To prepare students for competitive exam and personality development	
CO 3	To inculcate skill of film production profession	

#### **B.A.** Marathi II Semester III

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#### **B.A.** Marathi II Semester IV

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Programme Specific Outcomes: B.A. Political Science		
After Comple	etion on the three years' graduation programme in B.A. Political	
science Stude	ents will able to -	
PSO 1	Knowledge about political system of the nation.	
PSO 2	Study of national and international political affairs.	
PSO 3	Study from competitive examination point of view.	
PSO 4	Understanding the government mechanism, its functions,	
	duties and responsibilities.	

PSO 5	Creating appropriate and efficient political leaders.
<b>PSU 5</b>	Creating appropriate and efficient pointical featiers.

#### B.A. Political science I Semester I

Paper: Paper-I Introduction to Political Science

At the end of the course Students will able to	
CO 1	Student become familiar with fundamentals of Political Science
CO 2	Helps to develop civic sense among students

#### **B.A.** Political science I Semester II

Paper: II Indian Constitution

At the end of the course Students will able to	
CO 1	Students become aware about fundamental rights and duties.
CO 2	Aware about Political System and Governmental Machinery
CO 3	Develop inertest in Law and Legal System

#### **B.A.** Political science II Semester III

**Paper: III Political Process in India** 

At the end of the course Students will able to	
CO 1	Imparting knowledge of Political Process in India.
CO 2	Understanding of approaches in Political Process of India.
CO 3	Understand Voting Behaviour.
CO 4	Getting knowledge about Election Commission, Party System,
	Communalism, Regionalism and Language.

#### **Paper: -IV Indian Political Thought Part-I**



CO 1	Understand the historical development of Indian Political Thoughts.
CO 2	Understand the relevance of ancient ideas with present time.
CO 3	Understand the trajectory of ideas on key Political questions and
	institutions of ancient Indian as developed by Kautilya.
CO 4	Understand renaissance and reformation in India and the role of
	Mahatma Phule and RajarshiShahuChhatrapati in it.
CO 5	Understand the ideas of nationalism of LokmanyaTilak.

## **Paper: CGE Paper-I Public Administration**

At the end of the course Students will able to	
CO 1	To impart knowledge about the nature, scope importance of Public
	Administration.
CO 2	The student will get knowledge about making theoretical clarity of
	basic concepts and dynamics relating to Public organizations.
CO 3	To familiarise the students with Changing Perspectives of Public
	Administration.
CO 4	The student will get knowledge about contemporary concepts of
	Public Administration.

#### **B.A.** Political science II Semester IV

#### Paper: V Local- Self Government in Maharashtra

At the end of the course Students will able to	
CO 1	To Develop local leadership.
CO 2	To create awareness of the local- self government as well as
	developmental measures.
CO 3	It will provide knowledge of the local - self government in
	Maharashtra.
CO 4	To understand the role of local-self government as instrument to
	achieve rural and urban developmental goals.
CO 5	Understand the Constitutional Provision of Local - Self
	Government.



#### Paper: VI Indian Political Thought - II

At the end of	At the end of the course Students will able to			
CO 1	The student will get knowledge about the development of Indian			
	Political thoughts.			
CO 2	Build up basic concepts like -Satya, Ahimsa, Satyagraha,			
	Trusteeship and Sarvodaya of Mahatma Gandhi.			
CO 3	Students can understand about Secular Nationalism and			
	Internationalism, Democratic Socialism and Mixed Economy of			
	Jawaharlal Nehru.			
CO 4	Students will get ideas about critique of caste system, state socialism			
	&Parliamentary democracy for Social and economic democracy of			
	Dr. B. R. Ambedkar			
CO 5	Students can understand the different thoughts of M. N. Roy.			

## **Paper: CGE Paper-II Public Administration**

At the end of the course Students will able to		
CO 1	Get information about Personnel Administration.	
CO 2	Get acquainted with the budgetary process in India.	
CO 3	Get knowledge about Delegated Legislation	
CO 4	Understand New Trends in Public Administration	

#### **B.A.** Political science III Semester V

**Paper: Public Administration** 

At the end of	the course	Students will a	able to				
CO 1	Study of	the administrat	ive syste	m of the na	ation.		
CO 2	Getting	information	about	various	concepts	in	Public



	Administration.
CO 3	Study of the mechanism for the solution of problems in Public Administration

#### **Paper: Political Theory**

At the end of the course Students will able to		
CO 1	Getting basic knowledge of political theory.	
CO 2	Understanding of approaches of political theory.	
CO 3	Knowing behavioral movement in Political science.	

#### Paper: Western Political Thoughts I & II

At the end of the course Students will able to				
CO 1	Getting information about western thinkers and their political			
	thoughts.			
CO 2	Comparative study of the ancient thoughts and modern thoughts			
	from Plato & Rousseau.			
CO 3	Understand political view of J. S. Mill, Karl Marx, Gramsci &			
	Hannah Arendt.			

Programme Specific Outcomes: BBA
After Completion on the three years' graduation programme in BBA Students will able to -



PSO 1	Acquire fundamental education in management and business principles.
PSO 2	Acquire professional skills as a management profession.
PSO 3	Deep understanding and development of important business skills such as leadership communication skills, critical thinking and decision making.
PSO 4	Build up self confidence and competency to take up self employable business ventures.
PSO 5	Inculcate Entrepreneurship skills.

#### **BBA I Semester I**

## **Paper: CC-A1Fundamentals of Business Management**

At the end of	At the end of the course Students will able to				
CO 1	Develop a working knowledge of fundamental terminology and				
	frameworks in the four functions of management: Planning,				
	Organizing, Leading and Controlling.				
CO 2	Analyse organizational case situations in each of the functions of				
	management.				
CO 3	Identify and apply appropriate management techniques for				
	managing contemporary organizations				
CO 4	Understand skills, abilities, and tools needed to obtain a job on a				
	management track in an organization of their choice				

## **Paper: CC-A2 Principles of Marketing**

At the end of the course Students will able to		
CO 1	Understand the fundamentals of marketing.	



CO 2	Aware of the 4P's & 4C's of marketing mix.
CO 3	Understand the consumer behaviour and importance of market
	segmentation

## **Paper: CC-A3 Micro Economics**

At the end of	At the end of the course Students will able to		
CO 1	Explain meaning and scope of business economics		
CO 2	Apply the concept and theories of demand and consumer behaviour.		
CO 3	Apply concepts of factor pricing and production function in business		
	practices		
CO 4	Understand different markets and its pricing practices.		

#### **Paper: Information Technology in Business Management**

**Course Code: GEC-G1** 

At the end of the course Students will able to		
CO 1	Understand basics of computer technology.	
CO 2	Identify software and networking technology for business.	
CO 3	Prepare documents, files and folders with the help of Ms-Words	
CO 4	Prepare documents, files and folders with the help of Ms-Words	
CO 5	Analyse Business data using MS – Office.	

#### **Paper: Insurance and Banking GEC-G1**

At the end of the course Students will able to	
CO 1	Understand insurance concept and development in insurance sector



CO 2	Know the relevance of Banking Sector in India
CO 3	Differentiate different types of insurances
CO 4	Understand different E-Banking and Legal Framework for Banking Sector

#### **Paper: Accounting for Managers CC-A4**

At the end of the course Students will able to	
CO 1	Understand the concepts in accountancy.
CO 2	Prepare ledger accounts, subsidiary books and trial balance.
CO 3	Demonstrate calculations of depreciation.
CO 4	Prepare statements of accounts.

#### **Paper: Business Communication AECC-C1**

At the end of the course Students will able to	
CO 1	Apply business communication skills.
CO 2	Develop vocabulary skills.
CO 3	Develop effective writing skills.
CO 4	Learn effective reading skills.

#### **BBA I Semester II**

**Paper: Human Resource Management CC-A5** 



CO 1	Understand the basic concepts of HRM and its functions.
CO 2	Gain the insight of Job Analysis concepts and writing job
	description and job specification
CO 3	Develop an understanding of human resource planning at different
	levels and benefits of HR Planning
CO 4	Develop the knowledge to identify effective recruitment sources.

#### **Paper: Accounting for Managers**

At the end of the course Students will able to	
CO 1	Understand the basic concepts & principles of Financial Accounting.
CO 2	Learn Depreciation Method.
CO 3	Understand preparation of Final Accounts for sole proprietorship
	and partnership firm.

## **Paper: Macro Economics CC-A7**

At the end of the course Students will able to	
CO 1	Understand concepts of national income and demand of supply of
	money.
CO 2	Apply the principles and theories of inflation and business cycle
CO 3	Understand different concepts of public finance

## **Paper: Business Environment CC-A8**



CO 1	Understand the concept of Business Environment and its elements.
CO 2	Analysis Economic Environment and Technological Environment
CO 3	Compare Social and Cultural Environment and Natural Environment
CO 4	Analysis Political ,legal environment and Global Environment

## Paper: Management Information System GEC-G2

At the end of the course Students will able to		
CO 1	Understand basics Information System.	
CO 2	Understand working and applications of different information	
	systems.	
CO 3	Learn study system development lifecycle.	
CO 4	Learn analyse the system requirement.	

#### **Paper: Soft Skills and Personality Development**

At the end of the course Students will able to	
CO 1	Understand the basics of soft skills.
CO 2	Understand how to develop personality traits and Self-Management.
CO 3	Improve critical thinking skills.
CO 4	Learn about problem management and conflict resolution skills

#### **BBA II Semester III**

Paper: Fundamental of Entrepreneurship CC-B1



At the end of	At the end of the course Students will able to	
CO 1	Explain about different aspects of entrepreneurship development,	
	entrepreneurial skills	
CO 2	Illustrate and make use of different theories of entrepreneurship in	
	practical manner.	
CO 3	Explain the concept and role of woman entrepreneurs and also to	
	examine their problems and remedial measures	
CO 4	Compare and evaluate rural, social, digital, and technological	
	entrepreneurship	
CO 5	Discuss success stories and elaborate about start-ups, eco-system	
	and Unicorn.	

# Paper: Cost Accountancy CC-B2

At the end of the course Students will able to	
CO 1	Explain concepts in Cost Accountancy
CO 2	.Apply methods of Costing and able to choose methods of pricing
	material issues for material management
CO 3	.Solve inventory control problems by using inventory control
	techniques
CO 4	Utilize marginal costing technique in decisionmaking
CO 5	Compare and discuss cost audit techniques for effective cost control

## **Paper: Service Marketing CC-B3**

At the end of the course Students will able to	
CO 1	Illustrate Services- it's concept, classification and importance
CO 2	Demonstrate and experiment with 7 P's of service marketing
CO 3	Apply 7 P's for various service organizations



CO 4	Analyze financial services and discuss their functioning
CO 5	Discuss application of 7 P's in different service sector

## **Paper: E-Commerce CC-B4**

At the end of the course Students will able to	
CO 1	Understand the concept of E-Commerce, EDI.
CO 2	Know different applications of E-Commerce, E-Banking & E-
	Trading
CO 3	Identify the key security threats in the E-commerce environment
CO 4	Learn how to design E-Commerce website using HTML

#### **Paper: Forms of Business Organization CC-B5**

At the end of	At the end of the course Students will able to	
CO 1	Explain different forms of business organization	
CO 2	Classify different sources of finance available and analyze influence	
	on business decisions.	
CO 3	. Illustrate and examine different combinations of business and their	
	performances	
CO 4	Discuss new trends in management and its recent scenario in market	

#### **Paper: Statistical Techniques AECC-C3**

At the end of	At the end of the course Students will able to	
CO 1	Define Descriptive Statistical techniques	
CO 2	Apply applications of statistical techniques.	
CO 3	Utilize suitable statistical formula and analyze result	
CO 4	Conclude degree of relationship of two variables and estimate unknown variable	

#### **BBA II Semester IV**

**Paper: Entrepreneurship Project Management CC-B6** 



At the end of	At the end of the course Students will able to	
CO 1	. Explain and illustrate process of project identification	
CO 2	Examine institutional support and schemes for entrepreneurship	
	development.	
CO 3	Assess and utilize different methods of project appraisal.	
CO 4	Design business plan with the help of incubation centers/ED centers	

## **Paper: Management Accounting CC-B7**

At the end of the course Students will able to	
CO 1	Explain Management Accounting concept and difference between
	Financial Accounting and Management Accounting
CO 2	Utilize different reports to management
CO 3	Make use of different Financial Statement analysis tools

## Paper: Rural and Retail Marketing CC-B8

At the end of the course Students will able to	
CO 1	Develop understanding of concepts of rural and retail marketing
CO 2	Assess the current situation of rural marketing.
CO 3	Analyze the rural marketing of agricultural inputs and products.
CO 4	Evaluate retail formats, retail buying behaviour and retail marketing
	mix.

## **Paper: Production and Operations Management CC-B9**



CO 1	Demonstrate fundamentals of production and operations
	management in a firm.
CO 2	Take decisions related to facility locations and layout.
CO 3	Analyze different aspects relating to designing and developing
	processes.
CO 4	Apply various aspects in production planning and control.
CO 5	Evaluate various modern practices in production and operations
	management.

#### Paper: Research Methodology CC-B10

At the end of	the course Students will able to
CO 1	Explain fundamentals of research and describe research design
CO 2	Illustrate sample design and sampling methods
CO 3	Experiment with appropriate methods for data collection for
	research work
CO 4	Apply statistical tools for data analysis and interpretation

## **Paper: Statistics for Business AECC-C4**

At the end of the course Students will able to	
CO 1	Define tools Statistics used for decision making
CO 2	Describe applications of statistics for decision making.
CO 3	Apply suitable statistical formula and estimate trend.
CO 4	Analyze Construct control charts

#### **BBA III Semester V**

**Paper:** Fundamentals of Business Laws CC-C1



CO 1	Have a fair idea about aspects of different business laws in India
CO 2	Understand the salient features & importance of different business laws.
CO 3	Get acquainted with different provisions of business laws.

#### Paper: Human Skills CC-C2

At the end of the course Students will able to	
CO 1	Develop different human skills among students
CO 2	Enhance quality behavior.
CO 3	To increase Emotional Quotient by learning values.
CO 4	Understand about conflict management and stress management
CO 5	Beneficial to cultivate professional skills among the management students
	and make them persons with empathy.

#### **Paper: Management Historians CC-C3**

At the end of the course Students will able to	
CO 1	Understand evolutionary phases of management approaches
CO 2	Understand contribution of management historians
CO 3	Evaluate role of historian in developing science of management

#### **Paper: Digital Marketing DSE-A1**

	8
At the end of the course Students will able to	
CO 1	Learn the applications of Digital Marketing
CO 2	Analyze the different digital marketing avenues.
CO 3	Examine digital marketing tools.
CO 4	Build real life problems in the domain digital marketing.

#### **Paper: Financial Management DSE B1**

At the end of	the course Students will able to
CO 1	To understand the basic concepts Financial Management



CO 2	To know about components of Working Capital Management
CO 3	To understand Capital Structure ,Cost of Capital and Leverage

**Paper: Human Resource Planning DSE-C1** 

At the end of the course Students will able to	
CO 1	Understand the various functions of HRM
CO 2	Describe the Human Resource Planning Process.
CO 3	Understand the Recruitment function in detail.
CO 4	Describe the Selection process
CO 5	Analyze the employee separation method.

Paper: Mini-Project /Field Report DSE-A2/ DSE-B2/ DSE-C2

At the end of the course Students will able to	
CO 1	To identify the research problem and formulate objectives
CO 2	To choose appropriate methodology with proper tools and techniques.
CO 3	To analyze and interpret the data collected from different sources.
CO 4	To make decision or find out conclusions on the basis of data analysis.

#### **BBA III Semester VI**

**Paper:** Fundamental of Taxation

At the end of the course Students will able to	
CO 1	To understand the basic concepts in Taxation
CO 2	To demonstrate the computation of income and tax liability
CO 3	To understand concept of GST and its mechanism

Paper: ORGANIZATIONAL BEHAVIOURCC-C6



CO 1	Understand the basic concepts of OB
CO 2	Understand the principles of learning
CO 3	Describe the importance of attitude and values
CO 4	Implement the theories of Motivation and Personality.
CO 5	Understand and implement causes of stress and coping strategies

#### **Paper: International Marketing**

At the end of the course Students will able to	
CO 1	Understand basics of international marketing.
CO 2	To provide students with a perspective of International Marketing
	management, its environment and complexities.
CO 3	Study international marketing strategies.
CO 4	Study functions of international trade.

#### **Paper:** Business Finance

At the end of the course Students will able to	
CO 1	To understand the basic concepts Business Finance
CO 2	To recognize Financial Markets, Mutual Funds, Portfolio
	Management and Micro Finance
CO 3	To understand Corporate Restructuring and its ways.

## **Paper: Human Resource Development**



CO 1	Understand the difference between HRM & HRD Concepts.
CO 2	Understand the various subsystems involved in Human Resource development.
CO 3	Describe and differentiate Training & development function.
CO 4	Understand the methods of performance appraisal
CO 5	Analyze the career development techniques.

#### Paper: Major Project

At the end of	At the end of the course Students will able to	
CO 1	To identify the research problem and formulate objectives.	
CO 2	To choose appropriate methodology with proper tools and	
	techniques.	
CO 3	To analyze and interpret the data collected from different sources.	
CO 4	To make decision or find out conclusions on the basis of data	
	analysis.	

# **Programme Specific Outcomes : B.Com.IT**



_	After Completion on the three years' graduation programme in B.Com. IT Students will able to -	
PSO 1	Acquire the managerial professional attributes and be able to understand Financial Accounting, Corporate accounting and Cost Accounting.	
PSO 2	To impart the basic knowledge of various IT Concepts and application software as well as technical capabilities required for IT industries.	
PSO 3	Design, implement and evaluate a computer-based system, or process component, to meet the desired need of business applications.	
PSO 4	Apply the knowledge of Commerce and Information Technology principles to manage business processes effectively in diverse environments as a member or a leader in the team.	
PSO 5	Develop effective and oral communication and technical writing especially in business applications, with the use of information technology.	

#### **B.Com IT I Semester I**

**Paper: DSC1 Financial Accounting** 

	1 1111111111111111111111111111111111111	
At the end of	At the end of the course Students will able to	
CO 1	: Develop an understanding of understand Financial Accounting	
CO 2	Preperation and interpretation of Financial Statements	
CO 3	Understand about Cost and Management Accounting	
CO 4	Prepare final accounts of limited company	

**Paper: DSC2 Fundamentals of Information Technology** 



At the end of the course Students will able to	
CO 1	Understand basic concept of Information Technology
CO 2	Describe Peripheral Devices and Number system
CO 3	Demonstrate different functions of Operating System (OS)
CO 4	Use Internet based applications

**Paper: DSC3 Office Automation** 

At the end of the course Students will able to	
CO 1	Understand basic concept of MS-Office
CO 2	Demonstrate use of MS-Word
CO 3	Build MS-Excel spreadsheet
CO 4	Design Power point presentation

**Paper: GEC1 Principles of Management** 

_ ruper. GE	C1 1 The pies of Management	
At the end of	At the end of the course Students will able to	
CO 1	Understand the basic managerial process	
CO 2	Illustrate the planning in real life and understand organisation of	
	resources	
CO 3	Use of decision making to evaluate various alternatives and	
	situations	
CO 4	Demonstrate the leadership and communication skill	

**Paper: GEC2 Business Communication** 



At the end of the course Students will able to	
CO 1	Understand the concept of Business Communication
CO 2	Demonstrate the basic communication skill.
CO 3	Understand the dynamics of group communication
CO 4	Write Business correspondence and business reports.

## Paper: AECC1Lab Course Based on DSC2 and DSC3

At the end of	At the end of the course Students will able to	
CO 1	Understand basic working of Computer	
CO 2	Demonstrate functions of Operating System and use internet based applications.	
CO 3	Understand and perform word processing operations using MS-Word	
CO 4	Analyze data using MS Excel and Create presentations using PowerPoint	

#### **B.Com IT I Semester II**

#### **Paper: DSC4 Business Economics**

At the end of the course Students will able to	
CO 1	Understand the basic concept of Business Economics
CO 2	Understand theories and their applications for managerial decisions.
CO 3	Understand the concept of Business Cycle
CO 4	Understand pricing under different market conditions

**Paper: DSC5** Introduction to Programming Using C



At the end of the course Students will able to	
CO 1	Write compile and debug C programs.
CO 2	Design programs involving decision structures, loops and functions
CO 3	Understand the dynamics of memory by the use of pointers
CO 4	Design and develop different data structures and create/update basic
	data files

## **Paper: DSC6 Accounting with Tally**

At the end of the course Students will able to	
CO 1	Understand the basic features associated with Tally and concept of
	GST.
CO 2	Identify the key components of Tally package.
CO 3	Analyze financial data and generate financial reports using Tally
CO 4	Demonstrate taxation reports using Tally package

## **Paper: GEC3 Principles of Marketing**

At the end of the course Students will able to	
CO 1	Understand the basic concept of Marketing.
CO 2	Explain the nature, scope of marketing
CO 3	Understand marketing environment and it's role in industry and society.
CO 4	Understand the Marketing Mix

## **Paper: GEC4 Management Information System**



At the end of the course Students will able to	
CO 1	Understand basic information system
CO 2	Understand working and applications of different information systems.
CO 3	Study System development life cycle.
CO 4	Analyze the system requirements.

#### Paper: AECC2 Lab Course Based on DSC5 and DSC6

At the end of the course Students will able to	
CO 1	Write C programs for mathematical calculations.
CO 2	Design programs using Array Concept
CO 3	Understand Tally features and perform accounting of Company
CO 4	Apply taxation on various transactions using tally

#### **B.Com IT II Semester III**

#### **Paper: DSC7Income Tax and GST**

At the end of the course Students will able to	
CO 1	To understand the basic concepts of income tax and basis of charge
CO 2	To identify the residential status and it's implication on Tax liability
CO 3	To understand the manner of computation of total income
CO 4	To know the basic concepts of GST

#### **Paper: DSC8 Corporate Accounting**



CO 1	Understand basic concept of Information Technology
CO 2	Describe Peripheral Devices and Number system
CO 3	Demonstrate different functions of Operating System(OS)
CO 4	Use Internet based applications

#### **Paper: DSC-10 Database Management System(DBMS)**

At the end of the course Students will able to	
CO 1	Understand the concepts of Database Management System.
CO 2	Draw Entity-Relationship diagrams to represent simple data base
	application.
CO 3	Write SQL queries for a given context in relational database.
CO 4	Implement DML and DCL statements.

#### **Paper: AECC3 Business Statistics**

At the end of	At the end of the course Students will able to	
CO 1	Understand the have the basic knowledge on data collection and	
	various statistical elementary tools.	
CO 2	Have the critical thinking in the theory of probability and its	
	applications in real life problems.	
CO 3	Made a bridge between the elementary statistical tools and	
	probability theory.	
CO 4	Apply the statistical tools in business, economic and commercial	
	areas with the help of time series, index numbers, etc.	

#### Paper: AECC4 Lab Course Based on DSC-9 and DSC-10



CO 1	Describe the object-oriented programming approach in connection with C++
CO 2	Apply the concepts of object-oriented programming
CO 3	Illustrate the Database Management System
CO 4	Illustrate the My SQL concept

#### **B.Com IT II Semester IV**

## Paper: DSC-11 Business Law

At the end of	At the end of the course Students will able to	
CO 1	Have a fair idea about aspects of different business laws in India	
CO 2	Understand the salient features and importance of different business	
	laws.	
CO 3	Get acquainted with different provisions of business laws	
CO 4	Students would learn the rules regarding the Contract of Sale,	
	Distinction between Sale & Agreement to sell, Condition &	
	Warranty, Doctrine of Caveat Emptor, Rights of Unpaid Seller and	
	Remedies for Breach of Contract of Sale.	

## Paper: DSC-13 Web Technology

At the end of the course Students will able to	
CO 1	Understand basics of internet and web development life cycle.
CO 2	Design website using HTML and CSS.
CO 3	Implement client-side scripting for website development using
	JavaScript.
CO 4	Understand importance and working of HTML5.

## **Paper: DSC-14 Relational Database Management System**



At the end of the course Students will able to	
CO 1	Understand the fundamental elements of relational database
	management systems.
CO 2	Design Relational model store present simple database application.
CO 3	Improve the database design by normalization.
CO 4	Understand the multiple MySQL tables, sub queries and functions.

#### **Paper: AECC5** Stock Exchange and Share Marketing

At the end of the course Students will able to	
CO 1	To have comprehensive understanding about the stock market
	operations.
CO 2	To know structure and trading process in the stock exchange and
	share market.
CO 3	To get knowledge about settlement procedures, processes and
	regulations
CO 4	To recognise emerging challenges in the Indian Stock market

#### **Paper: AECC6 Foundation of Financial Audit**

At the end of	At the end of the course Students will able to	
CO 1	Understand the basic concepts and objectives of audit	
CO 2	Gain working knowledge of generally accepted auditing procedures	
CO 3	Identify the skills and techniques of conducting audit of various	
	entities	
CO 4	Know how the audit report is prepared	

## Paper: AECC7 Lab Course based on DSC-13 and DSC-14



CO 1	Design the webpages using HTML tags and CSS.
CO 2	Design the webpages using JavaScript's and HTML5.
CO 3	Illustrate the Relational Database Management System.
CO 4	Illustrate the advanced MySQL concepts.

#### **B.Com IT III Semester V**

#### **Paper: 501 Entrepreneurship Developments**

At the end of the course Students will able to		
CO 1	To impart theoretical knowledge of Entrepreneurship	
CO 2	To develop Entrepreneurship qualities and skills.	
CO 3	Students will pick up about Foundation of Entrepreneurship	
	Development and its theories.	
CO 4	Students will understand various steps involved in starting a venture	
	and to explore marketing methods & new trends in entrepreneurship.	

## Paper: 502 System Analysis and Design

At the end of the course Students will able to	
CO 1	Define and use common System Analysis and Design fundamental
	terminology.
CO 2	Utilize current Analysis and Design tools to graphically characterize
	processes and flows in a business system.
CO 3	Design and create effective Input/Output including Web
	pages/forms.
CO 4	Demonstrate the technical and communication skills required for
	developing a Systems Proposal.

#### Paper: 503 Enterprise Resource Planning (ERP) (Paper-I)



At the end of the course Students will able to	
CO 1	Demonstrate a good understanding of the basic issues in ERP
	systems.
CO 2	Analyse the strategic options for ERP identification and adoption.
CO 3	Design the ERP implementation strategies.
CO 4	Understand the need of Business Systems and Processes through
	strategic analysis of ERP systems

#### **Paper: 504** Application Development Tools (Paper-I)

At the end of the course Students will able to	
CO 1	Understand the concepts of .NET Framework
CO 2	Acquire the skills to edit, test and implement software for a client-
	server environment.
CO 3	Develop programs to retrieve data from forms and files to produce
	user displays and reports.
CO 4	Learn programming constructs and develop programs that use
	strings, dates, arrays, functions, classes and objects

#### Paper: 505 Web Technology (Part-I)

At the end of the course Students will able to		
CO 1	Understand basics of internet and web development life cycle.	
CO 2	Design website using HTML and CSS.	
CO 3	Understand importance and working of HTML.	
CO 4	Understand importance and working of CSS.	

#### Paper: 506 Lab Course Based on 504 and 505



CO 1	Design the webpages using HTML tags and CSS.
CO 2	Design the webpages using .NET Framework.
CO 3	Understand working of .NET Controls
CO 4	Design And apply various tags to create website

### **B.Com IT III Semester VI**

## **Paper: 601 Modern Management Practices**

At the end of	the course Students will able to
CO 1	Students will familiar with the modern management practices.
CO 2	Students will expose to importance and applicability of varoius modern management practices.
CO 3	Get acquainted with different provisions of business laws
CO 4	Students would learn the rules regarding the Contract of Sale, Distinction between Sale & Agreement to sell, Condition & Warranty, Doctrine of Caveat Emptor, Rights of Unpaid Seller and Remedies for Breach of Contract of Sale.

### **Paper: 602 Software Engineering**

At the end of the course Students will able to



CO 1	How to apply the software engineering lifecycle by demonstrating
	competence in communication, planning, analysis, design,
	construction, and deployment
CO 2	An ability to work in one or more significant application domains
CO 3	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle
CO 4	Work as an individual and as part of a multidisciplinary team to
	develop and deliver quality software

### Paper: 603 Enterprise Resources Planning (ERP) (Paper-II)

At the end or	At the end of the course Students will able to	
CO 1	Make basic use of Enterprise software, and its role in integrating	
	business functions.	
CO 2	Analyze the strategic options for ERP identification and adoption.	
CO 3	Create reengineered business processes for successful ERP	
	implementation.	
CO 4	Design the ERP implementation strategies.	

### **Paper: 604 Application Development Tools (Paper-II)**

At the end of the course Students will able to	
CO 1	Understand the Console based programming.
CO 2	Students will get knowledge about eception handling
CO 3	Students will understand Functions concept
CO 4	Develop code to use regular expressions, handle exceptions and



	validate data for file and database storage.
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### Paper: 605 Web Technologies (Part-II)

At the end of the course Students will able to	
CO 1	Understand the JavaScript Branching and Looping
CO 2	Students will understand JavaScript Concept
CO 3	To get knowledge about Server side scripting
CO 4	To understand the concept of ASP

### Paper: 606 Projects (Based on IT Applications in Commerce

At the end of the course Students will able to	
CO 1	To improve practical knowledge about Programming languages.
CO 2	To develop skill of practical Implementation of Programming
	language.
CO 3	Students will get knowledge about HTML, CSS and JavaScript and
	Asp.Net Knowledge to develop project
CO 4	Illustrate the advanced ASP concepts.

Programme Specific Outcomes : BCA



After Completion on the three years' graduation programme in BCA Students will	
able to -	
PSO 1	An ability to enhance the application of knowledge of theory subjects in diverse fields.
PSO 2	Develop language proficiency to handle corporate communication demands.
PSO 3	To enhance logical ability and programming concepts by implementing programming lab and Encouraging students to convert their start up idea to reality by implementing.
PSO 4	Prepare students in various disciplines of techniques such as computer applications, computer networking, software engineering, JAVA, database concepts and programming.
PSO 5	Preparing students for future aspects by building and improving their creativity, social awareness, and general knowledge.

### **BCA I Semester I**

### **Paper: CC101 Fundamentals of Computer**

At the end of the course Students will able to	
CO 1	Understand basic concept of computer.
CO 2	Describe peripheral devices and number system.
CO 3	Understand operating environment.
CO 4	Demonstrate the use of Linux Operating system commands.

### **Paper: CC102 Introduction to Programming Using C**

At the end of the course Students will able to



CO 1	Able to implement the algorithm and draw flowcharts for solving
	Mathematical problems
CO 2	Ability to design and develop Computer programs, analyse, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.
CO 3	Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file handling.
CO 4	Develop confidence for self-education and ability for lifelong learning needed for computer language.

## **Paper: AEC103 Principles of Management**

At the end of the course Students will able to	
CO 1	Understand the influence of historical forces on current practice of
	management.
CO 2	Understand frameworks in the four functions of management.
CO 3	Understand leadership styles to anticipate the consequences of each
	leadership style
CO 4	Be able to identify and apply appropriate management techniques
	for organizations; and understand social responsibility involved in
	business situations.

### **Paper: AEC104 Business Communication**

At the end of the course Students will able to	
CO 1	Communicate in English in written as well as oral mode
CO 2	Make presentations in English
CO 3	Do effective business correspondence
CO 4	Students will be able to identify key principles in Business
	Communication

**Paper: AEC105 Office Automation** 



At the end of the course Students will able to	
CO 1	Understand the components of office automation
CO 2	Perform operations using MS Word and PowerPoint
CO 3	Surf details through Internet
CO 4	Understand and discuss about the use of Office Package and internet
	in daily life

### **BCA I Semester II**

Paper: CC201 DBMS

At the end of the course Students will able to	
CO 1	Describe the basic concepts of DBMS and various databases used in
	real applications
CO 2	Demonstrate the principles behind systematic database design
	approaches.
CO 3	Design the database structure by applying the concepts of Entity-
	relational model and Normalization.
CO 4	Learn MS-Access for database creation and handling transactions.

# **Paper: CC202 Operating System**

At the end of	At the end of the course Students will able to	
CO 1	Possess knowledge of Operating Systems and their types.	
CO 2	Apply the concept of a process and scheduling algorithms.	
CO 3	Realize the concept of deadlock and different ways to handle it.	
CO 4	Understand various memory management techniques and file system.	

Paper: CC203 Web Technology I



At the end of the course Students will able to	
CO 1	Understand basics of website and web development life cycle.
CO 2	Design website using HTML and CSS
CO 3	Implement client side scripting for website development
CO 4	Understand importance and working of HTML5

## **Paper: AEC204 Financial Accounting with Tally**

At the end of the course Students will able to	
CO 1	Use basic accounting terminology, procedures and systems of
	maintaining accounting records.
CO 2	Understand financial statements
CO 3	Learn to create company, enter accounting voucher entries and also print financial statements, etc. in Tally
CO 4	Demonstrate MIS reports in Tally ERP

## **Paper: AEC205 Mathematical Foundations for Computer Application**

At the end of the course Students will able to	
CO 1	Basic knowledge of set theory, functions and relations concepts, and
	matrix needed for designing and solving problems.
CO 2	Construct simple mathematical proofs and possess the ability to
	verify them.
CO 3	Write an argument using logical notation and determine if the
	argument is valid or is not valid.
CO 4	Use graph algorithms to solve problems.





# CoC/ Certificate Course / Short Term Course / Value Added Course



CoC Course- M.Sc. Chemistry	
Title: Short Term course on Soil & Water Analysis	
<b>Outcomes:</b>	
01	Equip the students with various analytical skills
02	Agriculture & Domestic sector is largely dependent on the results of laboratory tests used to support accurate analysis affect to improve crop yield & health.
03	Skill based knowledge in soil & water analysis
04	Measure salinity & sodicity in irrigated agricultural system

CoC Course-B.Sc. Chemistry		
Title: Short	<b>Title: Short Term Course on Analytical Instrumentation</b>	
<b>Outcomes:</b> A	At the end of the course students will be able to understand	
01	Student will demonstrate the ability to operate & troubleshoot key	
	analytical instruments through hands on laboratory sessions	
02	Students will analyse and interpret data generated from various	
	Analytical techniques, applying statistical methods to assess the	
	reliability and significance of results.	
03	Students will understand & implement laboratory safety protocols	
	& regulatory compliance standard relevant to the use of analytical	
	instruments.	
04	Students will develop critical thinking and problem- solving skills	
	by designing experiments that utilize appropriate analytical	
	techniques to address specific research questions.	
05	Students will explore and articulate the applications of analytical	
	instruments in diverse fields, preparing them for careers in sectors	
	such as pharmaceuticals, environmental science, and material	
	analysis.	



COC Course- M.Sc. Microbiology		
Tital: Hazar	<b>Tital: Hazard Analysis And Critical Control Point</b>	
<b>Outcomes:</b>	Outcomes:	
01	Improved Food Safety- HACCP plan helps to identify and Control Potential Hazard in Food Production and Consumption which can prevent biological, Chemical and physical Contamination.	
02	Increase Customer trust- HACCP plans can help to build Customer trust and confidence in a company's product.	
03	Improved Product Quality- HACCP plans can help to Improve Product Quality and Consistency.	

COC Course-B.Sc. Microbiology & Zoology	
Tital: Eco-friendly Bio fertilizers Preparation.	
Outcomes:	
01	Students get knowledge about Bio fertilizers.
02	Students become aware about use of Bio fertilizers.
03	Students get idea about Bio fertilizers preparation.



	CoC Course : B.Sc. Botany		
Name of	Name of Course: Certificate Course in Fundamentals of		
	Gardening		
Outcomes: After the course students will be able to			
01	Make decisions on plants selection based on garden types.		
02	Prepare best soil mixture based on specific plant need.		
03	Utilize gardening skills for growing healthy & pesticide free		
	vegetables.		

CoC Course- B.Sc. Physics	
<b>Tital:</b> Assembling and Repairing of Light Emitting Diode (LED)	
Outcomes:	
01	Students get knowledge of what is Light Emitting Bulb (LED)
02	Construction and working of different LED's
03	Importance of use of LED in House to reduce electric power
	Consumption.
04	Students can establish a small-scale industry and can be an
	entrepreneur in future.

**CoC Course :B.Sc. Mathematics** 



Name of Course: SCILAB	
Outcomes:	
01	To provide basic Knowledge of Scilab.
02	To make aware in students about Programming in Scilab.
03	To make aware in students about how to solve mathematical
	problem using Scilab.
04	Preparing students for future aspects in students by building and
	improving their creativity, Technical skill and knowledge.

CoC Course :B.Sc. Statistics	
Name of Course: Data Analysis using MS-Excel	
Outcomes:	
01	Improved knowledge & understanding of the MS excel
02	Develop technical analysis skills to analyse charts & identify
	graphs.
03	To analyse the data using data analysis tools pack of MS-excel

CoC Course :B.Sc. Computer Science		
Name o	Name of Course: Hardware & Networking	
Outcomes:		
01	Understanding of Basic Concepts	
02	Hardware assembly skills	
03	OS familiarity	
04	Practical Skills	
CoC Course- B.A. Economics		



Title: Research Methodology for Social Science	
Outcomes: After completion of this course student will	
01	Understand basic concepts of Research
02	Able to make Research Design
03	Able to collect analyse interpret from the data

	CoC Course :B.A. Hindi	
N	Name of Course:	
O	utcomes:	
0		
1		
0		
2		
0		
3		
0		
4		

CoC Course-BBA	
<b>Tital: Financial Freedom (Fundamentals of Share Market)</b>	
Outcomes:	
01	Improved knowledge & understanding of the stock market & its mechanism
02	Develop technical analysis skills to analyse charts & identify trends
03	Staying up to date with market trends, news & analysis



CoC Course : Bachelor of Commerce (Information Technology)			
Name of Course: Certificate Course in PHP (Hypertext Pre-			
	processor)		
Outcom	Outcomes:		
01	Build real-world projects: Apply PHP skills to build practical projects, such as blog		
02	Improved problem solving skills: Develop ability to analyse problems, identify solutions & write efficiently.		
03	Develop confidence in building dynamic web applications using PHP.		

CoC Course : Bachelor of Commerce (Eng. Medium)	
Name of Course: Certificate Course in Digital Marketing	
Outcomes:	
01	Understand digital marketing fundamentals, channels & strategies
02	Develop hands on experience with digital marketing tools &
	platforms.
03	Pursue roles like Digital Marketing Specialist, SEO Expert,
	Social Media Manager
04	Enhance your resume & attract potential employers with digital
	marketing skills.
05	Learn to promote your own business or product online.



CoC Course: Bachelor of Computer Application (BCA)		
Name of Course: Certificate Course in Python		
Outcomes:		
01	Improved problem solving Skills	
02	Familiarity with industry standard tools & technologies	
03	Enhanced logical thinking	

CoC Course: B.A. Marathi	
Name of Course: Certificate Course in Journalism	
Outcomes:	
01	To introduce skills in Newspaper & Media
02	To make aware students about skills & technology of Journalism
03	To provide skilled resource person in journalism to Newspaper &
	Media organisation.

CoC Course : B.A. Marathi	
Name of Course: Certificate Course in Modi Script (Lipi)	
Outcomes:	
01	Student deciphers Modi script
02	Interprets old Modi documents & transcripts Modi documents

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CoC Course- B.A. English		
<b>Tital:</b> English Grammar for Competitive Examination		
<b>Outcomes:</b>		
01	To enable the students to attend the competitive examination	
02	To create job opportunities through the linguistic competency of	
	English language	

CoC Course- B.A. Sociology		
Tital: Artificial Intelligence Course		
Outcomes: The students will be able to		
01	Get familiar with Artificial Intelligence, its foundation &	
	Principles	
02	Identify appropriate AI methods to solve a given problem	
03	Examine the useful search techniques, knowledge, representative	
	techniques, Inference methods & their advantages, disadvantages	
	& comparison.	
04	Understand important concepts like Expert System, AI	
	applications etc.	

CoC Course- B.A. Psychology		
Title: STRESS MANAGEMENT		
Outcomes: The students will be able to get		
01	Improved Stress Awareness	
02	Development of coping strategies	
03	Enhanced Emotional Regulation	



CoC Course- Skill Development Committee		
Title: Mehandi Course		
Outcomes: The students will be able to get		
01	Business Skills	
02	Confidence boost	
03	Career Opportunities	
04	Personal Growth	
05	Networkig opportunities	

CoC Course- Skill Development Committee		
Title: Rangoli Course		
Outcomes: The students will be able to get		
01	Acquire skills in creating intricate Rangoli designs using various	
	materials.	
02	Understanding of Rangoli's cultural significance & importance in	
	Indian Tradition.	
03	Ability to create traditional, modern & geometric Rangoli design.	
04	Ability to teach Rangoli art to others.	

