

**GOVERNMENT OF KARNATAKA**

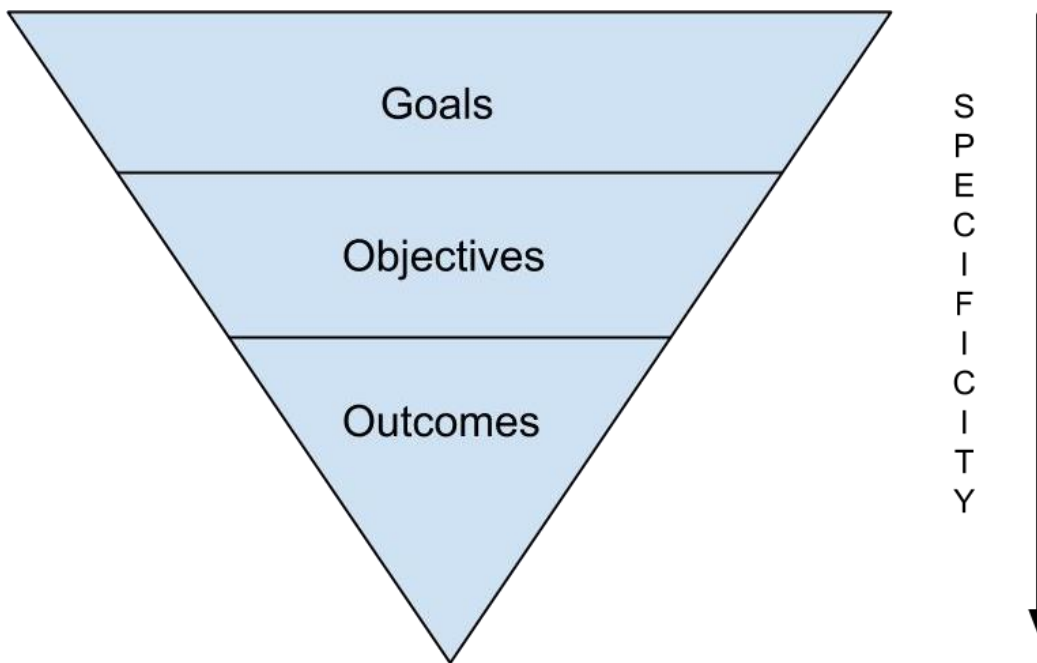
**(Department of Collegiate Education)**

**GOVERNMENT COLLEGE FOR WOMEN, KOLAR-563101**

**COURSE OBJECTIVES & LEARNING OUTCOMES**

**LEARNING OUTCOMES:**

Learning outcomes describe the learning that will take place across the curriculum through concise statements, made in specific and measurable terms, of what students will know and/or be able to do as the result of having successfully completed a course.



## **How are learning outcomes different from learning goals or learning objectives?**

These terms are often used interchangeably and they are all related to the teaching and learning that is expected to take place in the classroom. However, the difference between goals or objectives and outcomes lies in the emphasis on who will be performing the activities. Learning goals and objectives generally describe what an instructor or program aims to do; i.e., “This course will expose students to the major research methods of the discipline.” Whereas, a learning outcome describes in observable and measurable terms what a student is able to do as a result of completing a course; i.e., “At the completion of this course, students will be able to explain the differences between research methods and identify strengths and limitations of various research designs.” The creation of effective learning outcomes focuses on the student and what he or she will be able to do rather than on what the instructor will teach.

### **Characteristics of Good Learning Outcomes**

If your department already has learning goals that it would like to develop into outcomes or is examining its current learning outcomes there are several characteristics to look for:

1. Learning outcomes are student-centered in that they focus on the knowledge and skills that students can demonstrate (not on what instructors or curriculum aim to teach students).
2. The learning described in outcomes should encompass the essential and significant knowledge and skills students should develop in your course.
3. Generally, outcomes are short; usually one sentence in length that clearly states the behaviors that students should be able to demonstrate.
4. Outcomes focus on the action that signifies student learning by using concrete, measurable verbs: action verbs. First drafts of outcomes often contain verbs like understand, be aware of or appreciate that are difficult to observe and measure. Actionable verbs such as interpret, compare, design, and evaluate are far more concrete and less complicated to observe and evaluate.

5. The number of outcomes will vary from course to course, usually between 5 and 7, and generally not more than ten. The focus should be on creating a manageable number of significant learning outcomes, it is better to work with six focused outcomes of significant learning than a dozen scattered ones.

### **Why Student Learning Outcomes?**

As mentioned, identifying the most important things students should learn within your course is the first step in deciding what should be assessed, but learning outcomes have other uses as well; they:

- Can assist departments and program to think about their curriculums. When outcomes are defined, departments can map the outcomes onto the courses that they teach to identify areas within the program where outcomes may overlap (or otherwise be redundant) or where gaps may exist.
- Allow instructors to indicate what knowledge, skills and abilities students are expected to have mastered at the end of their course allow them to communicate expectations to students.
- Provide students with a way to articulate the knowledge and abilities that they have gained and to express what they know to others.
- Assist faculty in determining appropriate assessment strategies.

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

### **DEPARTMENT: COMMERCE - B.COM (B.COM1)**

#### **Programme Outcomes of the B. Com Under Graduate Programme (CBCS) DEGREE SEMESTER SCHEME 2014 – 15 onwards**

##### **The Programme enable the students:**

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non-life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, POBS, Staff Selection Commission, etc.,

**I Semester B.Com**

<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1.	A00210	Financial Accounting	To acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.
2.	A0220	Indian Financial System	To familiarize the students with regard to structure, organization and working of financial system in India.
3.	A0230	Marketing And Services Management	To familiarize the students with the principles of marketing and focus them towards Marketing and Management of Services
4.	A0250	Methods and techniques for business decisions	To provide basic knowledge of mathematics and their application to commercial situations. To enable the students to take up competitive exams.

**II Semester B.Com**

<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	B0210	Advanced Financial Accounting	To acquaint the students with the few accounting standards and make them familiar with the accounting procedures for different types of business.
2	B0220	Retail Management	To enable students to acquire skills in Retail Management.
3	B0230	Banking Law And Operation	To familiarize the students with the law and operations of Banking, Also familiarize regarding changing scenario of Indian

			Banking and innovations in banking technology.
4	B0240	Quantitative Analysis For Business Decisions-I	To provide basic knowledge of statistics and their application to business situations.
<b>III Semester B.Com</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	C0210	Corporate Accounting	To provide basic knowledge of statistics and their application to business situations.
2	C0220	Financial Management	To enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.
3	C0230	Business Ethics	To provide basic knowledge of business ethics and values and its relevance in modern context.
4	C0240	Quantitative Analysis For Business Decisions-II	To familiarize the students with various statistical techniques for their application in Business Decisions
5	C0240	Public Relations And Corporate Communication	To create awareness among the students on the soft skills required to plan and pursue a career and empower them with employability skills.
<b>IV Semester B.Com</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	D0210	Advanced Corporate	To enable the students to develop awareness about Corporate Accounting in conformity with the Provision of

		Accounting	Companies“ Act and latest amendments thereto with adoption of Accounting Standards.
2	D0220	Cost Accounting	To familiarize students with the various concepts and elements of cost
3	D0230	E-Business And Accounting	To familiarize the students with E-Commerce models and Tally
4	D0240	Stock And Commodity Markets	To provide students with a conceptual framework of stock markets and Commodity Markets, functionalities in these markets and their mode of trading.
5	D0250	Principles Of Event Management	To provide students with a conceptual framework of Event Management, Event Services, Conducting Event and Managing Public Relations.

**V Semester B.Com (ACCOUNTING & TAXATION GROUP)**

<b>Sl.No.</b>	<b>Course Code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	E0210	Entrepreneurship Development	To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.
2	E0220	International Financial Reporting Standard	To enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.
3	E0230	Income Tax - I	To expose the students to the various provisions of Income Tax Act 1961 relating

			to computation of Income of individuals.
4	E0240	Costing Methods	To familiarize the students on the use of cost accounting system in different nature of businesses.
5	E0250	Advanced Accounting	To acquaint the students and make them familiar with the process and preparation of accounts of different types of organizations.
6	E0260	Goods And Services Tax	1. The objective is to equip students with the principles and provisions of Goods and Services Tax (GST), which is, implemented from 2017 under the notion of One Nation, One Tax and One Market. 2. To provide an insight into practical aspects and apply the provisions of GST laws to various situations

**VI Semester B.Com (ACCOUNTING & TAXATION GROUP)**

Sl.No.	Course code	Title of the Paper	Course outcomes
1	F0210	Business Regulations	To introduce the students to various Business Regulations and familiarize them with common issues of relevance
2	F0220	Principles And Practice Of Auditing	This subject aims at imparting knowledge about the principles and methods of auditing and their applications.
3	F0230	Income Tax - II	To make the students to understand the computation of Taxable Income and Tax Liability of individuals.
4	F0240	Management Accounting	To enable the students to understand the



			analysis and interpretation of financial statements with a view to prepare management reports for decision-making.
5	F0250	Business Taxation	To enable the students to understand assessment of Firms and Companies with regard to Income tax act, 1961 and to study the other existing Indirect tax provisions on goods not covered under GST.
6	F0260	Cost Management	To enable the students to understand techniques used to control as well as reduce the cost.

### **DEPARTMENT: MANAGEMENT-BBA (BBA1)**

#### **Programme Outcomes of the BBA Under Graduate Programme (CBCS) DEGREE SEMESTER SCHEME 2014 – 15 onwards**

##### **The Programme enable the students:**

1. To develop ethical managers with inter disciplinary knowledge'
2. To develop entrepreneurs
3. To prepare students to take the responsibility of full line of Finance function of a company with special reference to SME sector.
4. To prepare students to take the responsibility of full line of Marketing function of a company with special reference to SME sector.
5. To prepare students to take the responsibility of full line of Human Resource function of a company with special reference to SME sector.
6. To develop IT enabled global middle level managers for solving real life business problems.

7. To develop business analysts for companies, capital markets and commodity markets.
8. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
9. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

<b>I Semester BBA</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1.	A0210	Fundamentals of Accounting	To acquaint students with the accounting concepts, tools and techniques influencing business organizations.
2.	A0220	Business Organisation And Environment	To familiarize the students with aspects of Business Organization and its Environment.
3.	A0230	Quantitative Methods For Business - I	To provide basic knowledge of quantitative methods and their application to commercial situations and for decision making in business.
4.	A0240	Management Process	To familiarize the students with concepts and principles of Management
<b>II Semester BBA</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	B0210	Financial Accounting	To acquaint students with the accounting concepts, tools and Techniques influencing Business Organizations.
2	B0220	Quantitative Methods For Business - Ii	To provide basic knowledge of quantitative methods and their commercial application for decision making in business.

3	B0230	Organizational Behaviour	To enable the students to understand the Organizational Behaviour, and Organizational Change and dynamic of Groups
4	B0240	Production And Operations Management	To make the students understand the concepts of production and operations management of an industrial undertaking and the benefits of automation.

**III Semester BBA**

<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	C0210	Soft Skills For Business	To develop both oral and written communication skills relating to organizational and Business issues
2	C0220	Corporate Accounting	to enable the students to have a comprehensive understanding about the provisions of the Company's Act and Corporate Accounts
3	C0230	Human Resource Management	to familiarize the students with concepts and principles of Human Resource Management
4	C0240	Business Regulations	To introduce the students to various regulations affecting business and to familiarize the students with such regulations.
5	C0250	Corporate Environment	To enable the students to get familiarized with the existing Company Law and Secretarial Procedure.
6	C0260	Business Ethics	To provide basic knowledge of business

			ethics and values and its relevance in modern context.
<b>IV Semester BBA</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	D0210	Business Research Methods	to create an awareness of the Process of Research, the tools and techniques of research and generation of reports
2	D0220	Marketing Management	to enable students to understand the concept of marketing and its applications and the recent trends in Marketing.
3	D0230	Financial Management	To enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.
4	D0240	Services Management	To familiarize the students with different services and prepare them with requisite skills to manage services.
5	D0250	Banking Regulations & Operations	To familiarize the students to understand the law and practice of banking.
6	D0260	Cost Accounting	To familiarize students with the various concepts and element of cost.
<b>V Semester BBA (1. FINANCE GROUP)</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	E0210	Entrepreneurial Management	To enable students to understand the basic concepts of entrepreneurship and prepare business plan to start a small industry.
2	E0220	Computer Application In	to make the students understand the

		Business	concept of information systems used in business and to know the latest trends in doing business in internet environment
3	E0230	Investment Management	1. To enable develop skills in analyzing various types of securities. 2. To develop necessary skills in students to design and revise a portfolio of securities
4	E0240	Management Accounting	to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making
5	E0250	Advanced Financial Management	To familiarize the students with Advanced Financial Analysis and Decisions.
6	E0260	Financial Markets & Services	to familiarize the students with Traditional and Modern Financial Services.

**VI Semester BBA (1. FINANCE GROUP)**

<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	F0210	International Business	To facilitate the students in understanding International Business in a multi cultural world.
2	F0220	E-Business	To expose the students to electronic modes of commercial operations.
3	F0230	Income Tax	To expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.
4	F0240	Project Report And Viva - voce	Preparation of project reports.

5	F0250	International Finance	To familiarize the students with International Financial environment, instruments and institutions.
6	F0260	Stock And Commodity Markets	To provide students with a conceptual framework of Stock Markets and Commodity Markets, functionalities in these markets and their mode of trading.

**V Semester BBA (2. MARKETING GROUP)**

Sl.No.	Course code	Title of the Paper	Course outcomes
1	E0210	Entrepreneurial Management	To enable students to understand the basic concepts of entrepreneurship and prepare business plan to start a small industry.
2	E0220	Computer Application In Business	The objective of the subject is to make the students understand the concept of information systems used in business and to know the latest trends in doing business in internet environment.
3	E0230	Investment Management	1. To enable develop skills in analyzing various types of securities. 2. To develop necessary skills in students to design and revise a portfolio of securities.
4	E0240	Management Accounting	The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.
5	E0270	Consumer Behavior	1) To identify factors of consumer buying behavior in value apparel fashion. 2) To evaluate the influence of CBB factors on consumer buying perception. 3) To understand relationship between demographic factors and perception of the customers/consumers visiting the store during purchase of apparel.
6	E0280	Advertising & Media Management	1. Determine, analyze and respond to clients' advertising and marketing communications objectives by applying principles of marketing and communications. 2. Perform a market segmentation analysis, determine the organization's target market/audience and define the consumer behaviour of each segment

**VI Semester BBA (2. MARKETING GROUP)**

<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	F0210	International Business	To facilitate the students in understanding International Business in a multi-cultural world.
2	F0220	E-Business	To expose the students to electronic modes of commercial operations.
3	F0230	Income Tax	To expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.
4	F0240	Project Report And Viva - voce	Preparation of project reports.
5	F0270	Brand Management	The objective is to enable the students to acquire skills in Product & Brand Management
6	F0280	Retail Management	The objective is to enable students to acquire skills in Retail Management.

**DEPARTMENT: COMMERCE- M.COM (M.COM1)**

**Programme Outcomes of the M.Com Post Graduate Programme (CBCS) DEGREE**

**SEMESTER SCHEME 2014 – 15 onwards**

Master of Commerce course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

<b>I Semester M.Com</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1.	A0210	Monetary System	<ol style="list-style-type: none"><li>1. To expose students to domestic and international monetary systems</li><li>2. To enable students to understand principles &amp; systems of note issue</li><li>3. To familiarize with issues relating to conversion of currencies.</li></ol>
2.	A0220	International Business	<ol style="list-style-type: none"><li>1. To familiarize the students with the concepts, functions and practices of</li></ol>



			<p>international business.</p> <p>2. To enable them get global perspective on issues related to business.</p>
3.	A0230	Macroeconomics For Business Decisions.	<p>1. To familiarise students with key macro economic variables and their behaviour, and enable them to critically evaluate different economies.</p> <p>2. To enable students to integrate macroeconomic analysis into business Decisions</p>
4.	A0240	Information Systems And Computers	<p>1. To familiarize student with aspect of business information systems and relevant information technology.</p> <p>2. To Develop skills to design and implement simple computer based business and audit information systems.</p>
5	A0250	Advanced Financial Management.	<p>1. To impart the knowledge in advanced techniques of financial management.</p> <p>2. To enable the students to apply the techniques in financial decision making.</p>
6	A0260	Human Resource Management	<p>1. To expose the students to the principles and practices of Human Resources Management.</p> <p>2. To make students internalize good HR practices.</p>
7	A0270	Communication Skills	<p>1. To sharpen the Analytical, written, non-verbal, Spoken Communication and interpersonal skills essential in organizations involving Decision making</p>

			and implementation. 2. To demonstrate good team work and negotiation skills.
<b>II Semester M.Com</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	B0210	Indian Banking	1. To expose the students to Indian Banking System along with the latest reforms in Banking. 2. To enable the students to understand prudential norms and new technologies in Banking
2	B0220	Risk Management	To provide basic knowledge of risk, type of risks and tools of risk management.
3	B0230	Advanced E-Commerce And Mobile Commerce	This course will provide an analytical and technical framework to understand the emerging world of e-commerce and mobile commerce. E-commerce and mobile commerce poses both a challenge and an opportunity for managers. As a matter of competitive necessity, savvy managers must gain an understanding of the rapidly changing technology and business models.
4	B0240	Business Research Methods	1. To familiarize students with concepts, tools and techniques of the methodology of business research. 2. To enable students to do a research / consultancy project in the fourth semester
5	B0250	Operations Research &	1. To impart knowledge in concepts and

		Quantitative Techniques	tools of OR and QT 2. To make students apply these in managerial decision making.
6	B0260	Business Marketing	1. To facilitate in-depth understanding of similar and differences between Business to business Marketing and Consumer Marketing. 2. To equip students, with application tools towards formulating and implementing Business marketing strategies.
7	B0270	Micro Finance	1) To make the student understand the concept of Financial Benefits and RBI guidelines to Micro Finance. 2) To have on overview of different players, institutions and regulatory agencies influencing the Micro Finance activity. 3) To examine & compare the changing scenario of the Rural people with the use of Microfinance.
<b>III Semester M.Com( I - ACCOUNTING AND TAXATION)</b>			
<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	C0210	Business Ethics And Corporate Governance	1. To make the student conscious about ethical values in real life and in business. 2. To make students internalize ethical values and practices.
2	C0220	Corporate Financial Reporting	1. To gain expert knowledge to analyze financial statements and to familiarize with

			recent developments in the area of financial reporting. 2. To gain ability to solve financial reporting and valuation problems
3	C0230	Accounting For Managerial Decisions	To enable students to apply cost accounting theory in management decision Making
4	C0240	Strategic Cost Management – I	To expose the students to the internal environment of business and to enable them to formulate strategies relating to cost.
5	C0250	Direct Tax Planning	To give an integrated view of direct tax and apply the laws to business decisions.

**IV Semester M.Com( I - ACCOUNTING AND TAXATION)**

<b>Sl.No.</b>	<b>Course code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	D0210	Commodity Markets	1. To expose students to the world of commodity markets 2. To expose students to the financial instruments used in commodity markets.
2	D0220	Corporate Reporting Practices And Ind As	To familiarize with recent developments in the area of financial reporting and to gain ability to solve financial reporting problems in special cases
3	D0230	Strategic Cost Management – Ii	To expose the students to the external environment of business and to enable them to formulate strategies relating to cost and pricing.
4	D0240	Goods And Service Taxes	To familiarize the students with the

			indirect tax laws.
5	D0310	Dissertation And Viva - Voce	Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research problem, work under the guidance of a faculty member, prepare a report based on his/her work and submit to the University. Viva-voce is conducted by the university on the project report.

## B.SC1

### DEPARTMENT: ZOOLOGY

**ABOUT THE DEPARTMENT:** Zoology deals with scientific study of Morphology, Anatomy, Histology, Cell biology, Genetics , Ecology and Behavior of animals.

<b>PROGRAM OUTCOME</b>	<p><b>PO1:</b> Non Chordata P-1 Protozoa, Porifera, Coelenterata Helminthes and Annelida.</p> <p><b>PO2:</b> Non Chordata P-2 Arthropoda, Mollusca, Echinodermata and Hemichordata .</p> <p><b>PO3:</b> Chordata –Proto Chordata, Pisces, Amphibia, Reptilia, AvesMammalia.</p> <p><b>PO4:</b> Comparative anatomy, Cell biology, Immunology, Histology.</p> <p><b>PO5:</b> Environmental biology and Ethology, Developmental biology and Organic evolution.</p> <p><b>PO6:</b> Genetics and Biotechnology, Animal Physiology and Techniques in biology.</p>
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<b>PROGRAM SPECIFIC OUTCOME</b>	<p><b>PSO1:</b> Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology 2.</p> <p><b>PSO2:</b> Analyse the relationships among animals, plants and microbes</p> <p><b>PSO3:</b> Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology</p> <p><b>PSO4:</b> Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine</p> <p><b>PSO5:</b> Gains knowledge about research methodologies, effective communication and skills of problem solving methods</p> <p><b>PSO6:</b> Contributes the knowledge for Nation building.</p>
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<b>ZOOLOGY</b>			
<b>I Semester BSc</b>			
Sl.No.	Course/ Paper code	Title of the Paper	Course outcomes
1	ZT 101/ A0330	NON CHORDATA PART II	<p><b>CO1:</b> Protozoa-nutrition, locomotion and Parasitology.</p> <p><b>CO2:</b> Porifera - canal system.</p> <p><b>CO3:</b> Coelenterata - Polymorphism.</p> <p><b>CO4:</b> Helminthes – Type study of Planaria, Parasitic Adaptations.</p> <p><b>CO5:</b> Annelida – Type study of Earthworm, Vermiculture and vermicomposting.</p> <p><b>CO6:</b> Economic importance of Leech.</p>
<b>II Semester BSc</b>			

2	ZT 102/ B0330	NON CHORDA TA PART II	<p><b>CO1:</b> Arthropoda - Metamorphosis, Appendages in Prawn.</p> <p><b>CO2:</b> Sericulture- species of silk worm, rearing, diseases and Products.</p> <p><b>CO3:</b> Apiculture – species of Honey bee, rearing, diseases and Products.</p> <p><b>CO4:</b> Mollusca – Type study of Unio, Pearl culture.</p> <p><b>CO5:</b> Prawn fisheries.</p> <p><b>CO6:</b> Echinodermata – Type study of Star fish.</p>
<b>III Semester BSc</b>			
3 <sup>rd</sup> SEM COURSE OUT COME	ZT 103/C0330	CHORDA TA	<p><b>CO1:</b> Pisces – Inland fisheries, Composite fish farming. Processing and Preservation of fishes and its products. <b>CO2:</b> Amphibia – Origin of Amphibian, endoskeleton of frog. <b>CO3:</b> Reptiles – Interesting features of Sphenodon.</p> <p><b>CO4:</b> Aves – Poultry –types of fowls, diseases, products and Byproducts.</p> <p><b>CO5:</b> Mammalia – Type study of Rat.</p> <p><b>CO6:</b> Dairy – Types of cattle, Milk and its products, Pasteurization Of milk and Gobar gas.</p>

<b>IV Semester BSc</b>			
4 <sup>th</sup> SEM COURSE OUTCOME	ZT104/D03 30	COMPARATIVE ANATOMY, CELL BIOLOGY, IMMUNOLOGY AND HISTOLOGY	<p><b>CO1:</b> Comparative study of heart, skin, brain of vertebrates.</p> <p><b>CO2:</b> Comparative study of respiratory organs, eye, ear of Vertebrates.</p> <p><b>CO3:</b> Cell biology – Structure and function of cell organelles. <b>CO4:</b> Cancer biology – Properties, carcinogens, treatment and Prevention.</p> <p><b>CO5:</b> Immunology – 1<sup>st</sup>, 2<sup>nd</sup> 3<sup>rd</sup> line defense mechanism.</p> <p><b>CO6:</b> Histology –Thyroid, Adrenal and Pituitary gland, Ovary, Testes, Stomach, Tongue and Kidney.</p>
<b>V Semester BSc</b>			
5 <sup>th</sup> SEM COURSE OUT COME	ZT105/ SZ25S1  ZT106/ SZ25S2	ENVIRONMENTAL BIOLOGY AND ETHOLOGY DEVELOPMENT AL BIOLOGY AND EVOLUTION	<p><b>CO1:</b> Environmental pollution – types, causes and control Measures.</p> <p><b>CO2:</b> Greenhouse effect, Global warming, Acid rain.</p> <p><b>CO3:</b> Ethology – Stereotyped and Acquired behavior, Communication in animals.</p> <p><b>CO4:</b> Developmental Biology – Spermatogenesis, Oogenesis, Fertilization, Menstrual cycle, Estrous cycle.</p> <p><b>CO5:</b> Cleavage, Blastulation, Gastrulation and Types of Placenta.</p> <p><b>CO6:</b> Organic evolution – Speciation, Evolution of man, Fossils.</p>
<b>VI Semester BSc</b>			



6 <sup>th</sup> SEM COURSE OUT COME	ZT 107/ SZ2S61  ZT108/ SZ2S62	GENETICS AND BIOTECHNOLOGY ANIMAL PHYSIOLOGY AND TECHNIQUES IN BIOLOGY	<p><b>CO1:</b> Genetics – Mendelian principles, Sex linked inheritance, Extra chromosomal inheritance.</p> <p><b>CO2:</b> Blood groups – A, B, ABO, MN, Rh factor.</p> <p><b>CO3:</b> Biotechnology – r DNA technology, DNA finger printing.</p> <p><b>CO4:</b> Animal Physiology – Digestion, Respiration, circulatory system Nerve impulse conduction.</p> <p><b>CO5:</b> Endocrinology – Function of endocrine glands and Hormones.</p> <p><b>CO6:</b> Techniques in biology – Microscopy, Micrometry, Autoradiography.</p>
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**DEPARTMENT: BOTANY**

<b>Program outcome</b>	<p><b>PO1. Knowledge and understanding of:</b> 1. The range of plant diversity in terms of structure, function and environmental relationships. 2. The evaluation of plant diversity. 3. The role of plants in the functioning of the global ecosystem.</p> <p><b>PO2. Practical skills:</b> Students learn to carry out practical work, in the field and in the laboratory. 1. Interpreting plant morphology and anatomy. 2. Plant identification. 3. Vegetation types. 4. A range of physiochemical analyses of plant materials in the context of plant physiology. 5. Plant pathology to be added for sharing of field and lab data obtained.</p> <p><b>PO3. Individual and Team work:</b> Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.</p> <p><b>PO4. Environment and sustainability:</b> Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development</p> <p><b>PO5. Design/development of solutions:</b> Design solutions from medicinal plants for health problems, disorders and disease of human beings.</p> <p><b>PO6. Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern instruments and equipment's for Biochemical estimation, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.</p> <p><b>PO7. Intellectual skills – able to:</b> 1. Think logically and organize tasks into a structured form. 2. Assimilate knowledge and ideas based on wide reading and through the internet. 3. Transfer of appropriate knowledge and methods from one topic to another within the subject. 4. Understand the evolving state of knowledge in a rapidly developing field. 5. Plan, conduct and write a report on an independent term project</p> <p><b>PSO8. The Botanist and society:</b> Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the</p>
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	<p>biodiversity conservation practice.</p> <p><b>PSO9. Ethics:</b> Apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.</p> <p><b>PSO10: Life-Long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</p>
<p><b>Program specific outcome</b></p>	<p><b>PSO1:</b> Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.</p> <p><b>PSO2.</b> Identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany.</p> <p><b>PSO3.</b> Critically evaluation of ideas and arguments by collection relevant information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.</p> <p><b>PSO4.</b> Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.</p> <p><b>PSO5.</b> Accurately interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy.</p> <p><b>PSO6.</b> Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.</p> <p><b>PSO7.</b> Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.</p> <p><b>PSO8.</b> Students will be able to identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.</p> <p><b>PSO9.</b> Students will be able to explain how plants function at the level of the gene, genome, cell, tissue, flower development. Drawing upon this knowledge, they will</p>

	<p>be able to give specific examples of the physiological adaptations, development reproduction and mode of life cycle followed by different forms of plants.</p> <p><b>PSO10.</b> Students will be able to use use specific examples to explicate how descent with modification has shaped plant morphology, physiology and life history.</p> <p><b>PSO11.</b> Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities and ecosystems.</p>
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<b>BOTANY</b>			
<b>I SEMESTER</b>			
<b>COURSE/ SEMESTER</b>	<b>SUBJECT /PAPER CODE</b>	<b>TITLE OF THE PAPER</b>	<b>OUTCOME</b>
<b>SEMESTER-I</b>	A0280	Paper-I: Diversity in Non vascular Plants-PART-I	<ol style="list-style-type: none"> <li>1. Learn about the structure, pigmentation, food reserves and methods of reproduction of Algae.</li> <li>2. Know the systematic, morphology and structure, of Algae.</li> <li>3. Understand the life cycle pattern of Algae.</li> <li>4. Understand the useful and harmful activities of Algae.</li> <li>5. understand bioremediation, biogas production, bioconservation.</li> <li>6. Studied the method of production of biofertilizers.</li> <li>7. Studied some plant diseases with special reference to the causative agents, symptoms, and control measures.</li> </ol>
<b>PRACTICAL-I</b>	AP280	Paper-I: Diversity in Non vascular Plants-I	<ol style="list-style-type: none"> <li>1. Know the colony characteristics of bacteria</li> <li>2. Observation of some plants infected by the pathogens included in the syllabus and study of symptoms, causative agents and preventive methods.</li> <li>3. Microscopic observation and identification of some Algae and cyanobacteria.</li> <li>4. Understand the use of instruments in laboratory.</li> </ol>
<b>SEMESTER-II</b>			
<b>SEMESTER-II</b>	B0280	Paper II:diversity of non-vascular plants part-II	<ol style="list-style-type: none"> <li>1. Learn about the structure, pigmentation, food reserves and methods of reproduction of Fungi.</li> <li>2. Know the Economic Importance of Fungi.</li> <li>3. Understand the structure and reproduction and economic importance of lichens.</li> <li>4. Know the taxonomic position, occurrence, thallus</li> </ol>

			<p>structure, reproduction of Bryophytes.</p> <ol style="list-style-type: none"> <li>Understand the economic importance of the Bryophytes.</li> <li>Know various tissue systems.</li> <li>Understand the normal and anomalous secondary growth in plants and their causes.</li> <li>Know the prevention and control measures of plant diseases and its effect on economy of crops.</li> <li>Learn the structure and functions of cellular organelles meristems.</li> </ol>
<b>PRACTICAL-II</b>	BP280	Paper II:diversity of non-vascular plants part-II	<ol style="list-style-type: none"> <li>identification and classification of some fungi members.</li> <li>Identification and classification of Lichens.</li> <li>Observation of plants infected by pathogens included in the syllabus and study of symptoms, causative agents and preventive measures.</li> <li>Observation, Identification and classification of bryophytes included in the syllabus.</li> <li>Micropreparation of stems (Tridax, Boerhaavia and dracaena)</li> <li>Know about mycorrhiza</li> </ol>
<b>SEMESTER-III</b>			
<b>SEMESTER-III</b>	C0280	Paper-III, pteridophytes, paleobotany, environmental biology and phytogeography	<ol style="list-style-type: none"> <li>Understand the economic importance of the Pteridophytes</li> <li>Know the evolution of Pteridophytes</li> <li>Understand plant communities and ecological adaptations in plants.</li> <li>Learn about conservation of biodiversity</li> <li>Discover botanical regions of India and vegetation types of Karnataka.</li> <li>Know the scope of Paleobotany, types of fossils, its role in global economy and geological time scale.</li> <li>Understand the various fossil genera representing different fossil groups.</li> <li>Learn about the stellar evolution in pteridophytes, heterospory and seed habit.</li> <li>Studied the process of fossilization.</li> <li>Understand the ecological succession.</li> <li>Know the soil conservation and reclamation and soil erosion.</li> </ol>
	CP280	<b>PRACTICAL-III</b> Paper-III, pteridophytes, paleobotany, environmental biology and phytogeography	<ol style="list-style-type: none"> <li>Observation, Identification and classification of pteridophytes included in the syllabus.</li> <li>Studied the specimens of fossils included in syllabus.</li> <li>Know the various ecological adaptations</li> <li>Estimate the chloride and dissolved oxygen content in a sample.</li> <li>Ecological field study – quadrat method of</li> </ol>

		y	vegetation. 6. know the vegetational types of Karnataka map and phytogeographical regions of India.
<b>SEMESTER-IV</b>			
<b>SEMESTER-IV</b>	D0280	Paper-IV, Gymnosperms and embryology of Angiosperms	<ol style="list-style-type: none"> <li>1. Understand the economic importance of the Gymnosperms.</li> <li>2. Learn about the morphology, anatomy, reproduction and life cycles of some gymnosperms.</li> <li>3. Understand the structure of a angiospermic flower.</li> <li>4. Know the methods of pollination and fertilization.</li> <li>5. Know fertilization, endosperm and embryogeny.</li> <li>6. Learn about the double fertilization and their significance.</li> <li>7. Know about the structure and development of dicot and monocot embryos.</li> <li>8. Understand the basic knowledge about tissue culture tools, medium, sterilization and techniques of tissue culture.</li> <li>9. Know about the pollen morphology, Aeropalynology and Mellissopalynology.</li> </ol>
	DP280	PRACTICAL-IV Paper-IV, Gymnosperms and embryology of Angiosperms	<ol style="list-style-type: none"> <li>1. Observation, Identification and classification of gymnosperms included in the syllabus</li> <li>2. Mounting the pollen grains and pollen germination.</li> <li>3. Observation and identification of types of ovules, embryosac development, and placentation types.</li> <li>4. To dissect out and mount the embryo and endosperm.</li> </ol>
<b>SEMESTER-V</b>			
<b>SEMESTER-V / PAPER-V</b>	SB15S1	Paper-V, Taxonomy and Economic Botany	<ol style="list-style-type: none"> <li>1. Understand the plant morphology and basic taxonomy.</li> <li>2. Become aware of applications of different plants in various industries.</li> <li>3. Know the concept of methodology in taxonomy.</li> <li>4. Understand the role plants in human welfare.</li> <li>5. Know importance of plants &amp; plant products.</li> <li>6. Learn the types of classification-artificial and phylogenetic systems.</li> <li>7. Gain the knowledge about botanical gardens and their importance.</li> <li>8. Briefly studied on herbarium techniques and taxonomic tools.</li> <li>9. Learn the taxonomic evidences from</li> </ol>

			<p>molecular numerical and chemicals.</p> <ol style="list-style-type: none"> <li>Learn about the characters of biologically important families of angiosperms.</li> <li>Understand various rules, principles and recommendations of plant nomenclature produces in plant identification.</li> <li>Brief studied the economic products with special to reference to the Botanical name, family, morphology of useful parts and the uses.</li> </ol>
<b>PRACTICAL / PAPER-V</b>	SB15P1	Paper-V, Taxonomy and Economic Botany	<ol style="list-style-type: none"> <li>Know the vegetative structure and modification of root, stem and leaf.</li> <li>Know the inflorescence types and structure of flower and structure and types of fruits.</li> <li>Dissect out the floral parts of plants coming under the families prescribed in the theory syllabus.</li> <li>Identify the economic products related to theory syllabus and write botanical name, family, part used and uses.</li> <li>Field study to a floristic rich area under supervision to observe and collect the plants in their natural habitats</li> </ol>
	SB15S2	PAPER-VI Paper-VI, Molecular biology, genetic engineering, biotechnology and plant physiology.	<ol style="list-style-type: none"> <li>Learn about the movement of sap and absorption of water in plant body.</li> <li>Understand the plants and plant cells in relation to water.</li> <li>Understand cell division.</li> <li>Learn the scope and importance of molecular biology.</li> <li>Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material.</li> <li>Understand the process of synthesis of proteins and role of genetic code in polypeptide formation</li> <li>Learn and understand about mineral nutrition in plants.</li> <li>Understand the process of translocation of solutes in plants.</li> <li>Know about the requirement of mineral nutrition for plant growth.</li> <li>Know the recombinant DNA technique.</li> <li>Applications of biotechnology in agriculture.</li> </ol>
	SB15P2	PRACTICAL-VI Paper-VI, Molecular	<ol style="list-style-type: none"> <li>determination of osmotic potential-plasmolytic method.</li> <li>Qualitative test for starch, protein, sugars and lipids.</li> </ol>

		biology, genetic engineering, biotechnology and plant physiology.	<ol style="list-style-type: none"> <li>3. Know the structure of stomata in hydrophytes, mesophytes and xerophytes.</li> <li>4. Measurement of pH of plant samples by indicators.</li> <li>5. Know the osmosis and transpiration process by conducting experiments.</li> </ol>
<b>SEMESTER-VI</b>			
<b>SEMESTER-VI /</b>	SB1S61	PAPERVII Paper-VII, Cytology, Genetics, Evolution and Plant Breeding.	<ol style="list-style-type: none"> <li>1. The eukaryotic cell cycle and mitotic and meiotic cell division.</li> <li>2. Know about chromosomal aberrations.</li> <li>3. Understand the structure of chromosomes.</li> <li>4. Learn about Mendelian genetics.</li> <li>5. To study the phenomenon of dominance, laws of segregation, independent assortment of genes.</li> <li>6. To understand the different types of genetic interaction, incomplete dominance, codominance, inter allelic genetic interactions, multiple alleles and quantitative inheritance etc.</li> <li>7. To study the techniques of production of new superior crop varieties.</li> <li>8. Gain the knowledge of plant breeding techniques.</li> <li>9. know the concepts of evolution.</li> <li>10. Understand the theories of evolution.</li> <li>11. Learn the vegetative propagation methods</li> </ol>
<b>PRACTICAL-VII</b>	SB1P61	Paper-VII, Cytology, Genetics, Evolution and Plant Breeding.	<ol style="list-style-type: none"> <li>1. Know the preparation of cytological stains- Aceto carmine and Aceto orcein.</li> <li>2. To prepare micropreparation and showing the stages of mitosis and meiosis.</li> <li>3. Identify the stages of mitosis and meiosis in permanent slides.</li> <li>4. Demonstration of emasculation and bagging experiments.</li> <li>5. Prepare the karyotype of onion.</li> <li>6. Solve some genetic problems related to syllabus.</li> </ol>
<b>PAPER-VIII</b>	SB1S62	Paper-VIII, Plant Physiology-III	<ol style="list-style-type: none"> <li>1. Learn the properties of enzymes.</li> <li>2. Understand the nitrogen metabolism.</li> <li>3. Understand the plant movements.</li> <li>4. Understand the process of photosynthesis in higher plants with particular emphasis on light and dark reactions, C<sub>3</sub> and C<sub>4</sub> pathways.</li> <li>5. Understand the respiration in higher plants with particular emphasis on aerobic and anaerobic respiration.</li> <li>6. Understand the chemical contents of the plant products.</li> </ol>



			<ol style="list-style-type: none"> <li>7. Know about the plant growth hormones and their applications in agriculture and horticulture.</li> <li>8. Learn about photobiology.</li> <li>9. Understand the synthesis of secondary metabolites and their role in plant defence.</li> </ol>
<b>PRACTICAL-VIII</b>	SB1P62	Paper-VIII, Plant Physiology-III	<ol style="list-style-type: none"> <li>1. Extraction and separation of photosynthetic pigments by paper chromatography and measure the Rf values.</li> <li>2. Rate of photosynthesis at different wavelengths of light and different concentrations of CO<sub>2</sub>.</li> <li>3. Estimate the ascorbic acid content in plant sample.</li> <li>4. Determine the RQ of carbohydrates, fats and proteins.</li> <li>5. Know the plant movements.</li> <li>6. Conduct the experiments on photosynthesis and respiration in plants.</li> </ol>

## DEPARTMENT: CHEMISTRY

<b>PROGRAM OUTCOME</b>	<p><b>PO1:</b> Have firm foundations in the fundamentals and application of current chemical and scientific theories.</p> <p><b>PO2:</b> Are able to design, carry out, record and analyze the results of chemical experiments.</p> <p><b>PO3:</b> Are able to use modern instrumentation and classical techniques, to design experiments, and to properly record the results of their experiment.</p> <p><b>PO4:</b> Are skilled in problems solving, critical thinking and analytical reasoning.</p> <p><b>PO5:</b> Are able to identify and solve chemical problems and explore new areas of research.</p> <p><b>PO6:</b> Knows the proper procedures and regulations for safe handling and use of chemicals and can follow the proper procedures and regulations for safe handling when using chemicals.</p> <p><b>PO7:</b> Are able to communicate the results of their work to chemists and non-chemists.</p> <p><b>PO8:</b> Understand the ethical, historic, philosophical, and environmental dimensions of problems and issues facing chemists.</p> <p><b>PO9:</b> Find gainful employment in industry or government, be accepted at graduate or professional schools (law, medicine, etc.), or find employment in school systems as instructors or administrators.</p>
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<b>PROGRAM SPECIFIC OUTCOME</b>	<p><b>PSO1:</b> This paper presents the basic principles of chemistry</p> <p><b>PSO2:</b> Students should have a working knowledge of the main area of chemistry organic, Inorganic, physical, analytical.</p> <p><b>PSO3:</b> To understand the important concepts of chemistry</p> <p><b>PSO4:</b> Students should be able to perform and understand chemical reactions.</p> <p><b>PSO5:</b> To have an understanding of the professional responsibility and ethical values.</p> <p><b>PSO6:</b> To communicate effectively.</p> <p><b>PSO7:</b> Identify the study of the compositions structure, properties, and reaction of matter.</p> <p><b>PSO8:</b> To understand work in a chemical related field.</p>
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<b>CHEMISTRY</b>			
<b>SEMESTER 1</b>			
<b>SL.NO</b>	<b>SUBJECT/ PAPER CODE</b>	<b>TITLE OF THE PAPER</b>	<b>COURSE OUTCOME</b>

1	A0220	CHEMISTRY -1	<p><b>CO1:</b> To learn the periodic table, electron affinity and negativity, and hybridizations and geometry.</p> <p><b>CO2:</b> To understand IUPAC name, nomenclature of acyclic alkane, alkene and alkyene.</p> <p><b>CO3:</b> Students learn to polar effect and cycloalkanes and types of the reaction.</p> <p><b>CO4:</b> To understand liquid crystals concept and theory of Einstein, Compton, debroglieplank's, block body radiation (wave length determination only)</p> <p><b>CO5:</b> To developed the laws of thermodynamics.</p> <p><b>CERDITS:</b> 6theory period of 1 hour for 6 days order over a semester (90) days.</p>
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**SEMESTER II**

<b>2</b>	<b>B0220</b>	<b>CHEMISTRY-II</b>	<p><b>CO1:</b> This paper presents the concept of coordination chemistry.</p> <p><b>CO2:</b> To understand aromaticity and thermodynamics. <b>CO3:</b> To enable the students to learn about acids and bases concept.</p> <p><b>CO4:</b> To applicable to chemical reactions.</p> <p><b>CO5:</b> To understand heat, temperature and volume.</p> <p><b>CERDITS:</b> 6 theory period of 1 hour for 6 days order over a semester.</p>
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**SEMESTER III**

<b>3</b>	<b>C0220</b>	<b>CHEMISTRY-III</b>	<p><b>CO1:</b> To identify general methods of extraction.</p> <p><b>CO2:</b> To understand chemistry of carbonyl compounds -I</p> <p><b>CO3:</b> To understand chemistry of carbonyl compounds -II</p> <p><b>CO4:</b> To use techniques of geometrical isomerism.</p> <p><b>CO5:</b> To understand Bio-organic chemistry.</p> <p><b>CERDITS:</b> 6 theory period of 1 hour for 6 days order over a semester.</p>
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**SEMESTER IV**

<b>4</b>	<b>D0220</b>	<b>CHEMISTRY-IV</b>	<p><b>CO1:</b> To enable the students to understand the second laws of thermodynamics</p> <p><b>CO2:</b> To understand the concept of chemical potential.</p> <p><b>CO3:</b> To understand the adsorption and catalysis.</p> <p><b>CO4:</b> To learn the adsorption chromatography</p> <p><b>CO5:</b> Ability to understand the computer programmed.</p>
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<b>SEMESTER V</b>			
<b>5</b>	<b>SC15S1</b>	<b>CHEMI STRY-V</b>	<p><b>CO1:</b> To enable the students to understand the Elements of symmetry.</p> <p><b>CO2:</b> To understand the concept of Optical isomerism due to free rotation about single bonds.</p>
	<b>SC15S2</b>	<b>CHEMI STRY- VI</b>	<p><b>CO3:</b> To understand Meso compounds, Diastereomers and Relative Configuration of threo and erythro nomenclature. <b>CO4:</b> To learn Racemisation and Resolution of racemic mixture.</p> <p><b>CO5:</b> Ability to understand Optical isomerism, Geometric isomerism in alkenes and Determination of configuration of geometric isomers.</p>
<b>SEMESTER VI</b>			
<b>6</b>	<b>SC1S61</b>	<b>CHEMIS TRY-VII</b>	<p><b>CO1:</b> To enable the students to understand Coordination and Organometallic compounds – Coordination number, Nomenclature of coordination compounds in detail.</p>
	<b>SC1S62</b>	<b>CHEMIS TRY-VIII</b>	<p><b>CO2:</b> To enable the students to understand Coordination and Organometallic compounds – Metal carbonyls.</p> <p><b>CO3:</b> To understand Industrial Materials – Refractories, Abrasives, Glass, Ceramics and Cement.</p> <p><b>CO4:</b> To understand Industrial Materials – Paints, Varnishes, Fuels, Coal, Explosives and Propellants.</p> <p><b>CO5:</b> Ability to understand Bioinorganic Chemistry. – Essential and trace elements in biological systems.</p>

**DEPARTMENT: COMPUTER SCIENCE**

<b>Program outcome</b>	<p>PO1: Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills.</p> <p>PO2: Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.</p>
<b>Program Specific Outcome</b>	<p>PSO1: The ability to understand, analyze and develop computer programs in the areas related to algorithms,</p> <p>PSO2: Able to understand system software, multimedia, web design, application program, database, graphics and networking for efficient design of computer-based systems of varying complexity.</p>

<b>COMPUTER SCIENCE</b>			
<b>SLNO</b>	<b>SUBJECT/PAPER CODE</b>	<b>TITLE OF THE PAPER</b>	<b>COURSE OUTCOME</b>
<b>SEMESTER I</b>			
1	A0250	Programming Concepts using C	On successful completion of this subject the students have the programming ability in C Language
2	A0251	C Programming Lab	To inculcate practical knowledge of Programming in C
<b>SEMESTER II</b>			
1	B0251	Data structures	To design and implementation of various basic and advanced data structures. To introduce various techniques for representation of the data in the real world. and to develop application using data structures.
2	BP251	Data structures lab	To inculcate practical knowledge of Programming in C data Structures

<b>SEMESTER III</b>			
1	C0250	Database Management System and Software Engineering	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
2	CP251	DBMS lab	To inculcate practical knowledge of Programming and SQL programming in ORACLE
<b>SEMESTER IV</b>			
1	D0250	Operating System and UNIX	Enable the student to get sufficient knowledge on various system resources
2	DP251	UNIX programming Lab	To inculcate practical knowledge of System Programming in UNIX
<b>SEMESTER V</b>			
1	SC25S1	Object Oriented Programming using JAVA	To inculcate knowledge on Java Programming concepts
2	SC25P1	Java programming lab	To inculcate practical knowledge of Programming in Java



3	SC25S2	Visual programming	To introduce the concepts of visual programming. To introduce GUI programming using Microsoft foundation classes. To enable the students to develop programs and simple application using Visual C++.
4	SC25P2	Visual programming Lab	To inculcate practical knowledge of Programming in VB and VC++.
<b>SEMESTER VI</b>			
1	SC2S61	Web programming	To inculcate knowledge in web technological concepts and functioning internet.
2	SC2P61	Web programming lab	To inculcate practical knowledge of Programming in HTML and DHTML and Java script
3	SC2S62	Computer networks	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
4	SC2P62	Project Lab	The aim of the Project Lab is to acquire practical knowledge on the implementation of the programming concepts studied.

### DEPARTMENT: MATHEMATICS

<b>Program outcome</b>	<p>Students will establish themselves as effective professionals by solving real problems through the use of mathematics knowledge and with attention to team work, effective communication, critical thinking and problem solving skills.</p> <p>Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of mathematics and related fields.</p>
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<b>Program Specific Outcome</b>	The ability to understand, analyze and develop mathematics in the areas related to algebra, differential calculus, groups, integral calculus, rings, matrices and branches of the mathematics.
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<b>MATHEMATICS</b>			
<b>SL NO</b>	<b>SUBJECT/PAPER CODE</b>	<b>TITLE OF THE PAPER</b>	<b>COURSE OUTCOME</b>
<b>SEMESTER I</b>			
1	MATT101	Differential Calculus	On successful completion of this subject the students have the learning ability and solving the different kinds of problems.
2	MATT102	Matrice	Many IT Companies also use matrices as data structures to track user information, perform search queries so that students get more job opportunity in companies.
<b>SEMESTER II</b>			
1	MATT201	Differential equation	Students will be able to explain the concept of differential equations and analyze the ODE, PDE problems students will be introduced to system of ODEs and discuss graphical, numerical and analytical solution methods.
2	MATT202	Integral calculus	Integral calculus deals with the derivation of formulas for finding anti derivatives . the great utility of subject emanates from its use in solving differential equations.
<b>SEMESTER III</b>			
1	MATT301	Groups	To inculcate knowledge on concepts of group dynamic and studying the groups will help the students in post graduation .
2	MATT302	Series and Sequences	Students will be able to get the sufficient knowledge of entrances exams.

<b>SEMESTER IV</b>			
1	MATT401	Fourier series	Enable the student to get sufficient knowledge on various types of problems.
2	MATT402	Differential Calculus	On successful completion of this subject the students have the learning ability and solving the different kinds of problems.
<b>SEMESTER V</b>			

1	MATT501	Ring theory	To inculcate knowledge on vectors differential calculus and numerical analysis.
2	MATT502	Differential Calculus	To inculcate knowledge vectors point function ,scalar point function ,laplacian and directional derivatives .
3	MATT503	Numerical Methods	Students get to know the knowledge of equal and unequal intervals and newtons formula.
<b>SEMESTER VI</b>			
1	MATT601	Line and multiple Integrals	To inculcate knowledge of double and multiple integrals.
2	MATT602	Integral theorems	To inculcate knowledge of Greens ,stokes and gauss divergence to the students.
3	MATT603	Mathematical Methods	To inculcate knowledge on eulers equation ,calculus of variation and its applications and is operimetric problems.

**DEPARTMENT : BIO TECHNOLOGY**

<p><b>PROGRAM OUTCOME</b></p>	<p>PO1. Apply the knowledge of mathematics, science, engineering fundamentals, and Engineering specialization to the solution of complex engineering problems.</p> <p>PO2. Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.</p> <p>PO3. Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.</p> <p>PO4. Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.</p> <p>PO5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.</p>
<p><b>PROGRAM SPECIFIC OUTCOME</b></p>	<p>PSO1. Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.</p> <p>PSO2. Acquire knowledge in domain of biotechnology enabling their applications in industry and research.</p> <p>PSO3. Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology</p> <p>PSO4. Recognize the importance of Bioethics, IPR, entrepreneurship, Communication and management skills so as to usher next generation of Indian industrialists</p>

<p><b>BIO-TECHNOLOGY</b></p>			
<p><b>SLNO</b></p>	<p><b>SUBJECT/PAPER CODE</b></p>	<p><b>TITLE OF THE PAPER</b></p>	<p><b>COURSE OUTCOME</b></p>
<p><b>SEMESTER I</b></p>			

1	<b>BTP10 1</b>	<b>Cell biology and genetics</b>	<p>On completion of the courses students will be able</p> <ul style="list-style-type: none"> <li>➤ To understand the basic unit of the organism.</li> <li>➤ To differentiate the organisms by its cell structure.</li> <li>➤ To know Components of the Cell and their division.</li> <li>➤ To understand extra nuclear inheritance, linkage &amp; crossing over</li> <li>➤ To study the phenomenon of dominance, laws of segregation, independent assortment of genes.</li> <li>➤ To understand the different types of genetic interaction, incomplete dominance, co-dominance, inter allelic genetic interactions, multiple alleles</li> </ul>
<b>SEMESTER II</b>			

1	<b>BTP201</b>	<b>Microbiology and Biostatistics</b>	<p><b>CO1:</b> To explain the history and scope of microbiology in various fields</p> <p><b>CO2:</b> To understand principle, working, ray diagram and application of advance microscope</p> <p><b>CO3:</b> To understand various sterilization techniques and methods to control microbes</p> <p><b>CO4:</b> To describe concept of growth and reproduction of bacteria viruses and fungi.</p> <p><b>CO5:</b> To describe microbial metabolism and photosynthesis in bacteria</p> <p><b>CO6:</b> To preform staining techniques</p> <p><b>CO7:</b> To explain bacterial and viral diseases in man</p> <p><b>CO8:</b> To understand how to evaluate published numerical facts and interpret the results of sampling.</p>
<b>SEMESTER III</b>			
1	<b>BTP301</b>	<b>Biochemistry and biophysics</b>	<ul style="list-style-type: none"> <li>➤ Carbohydrates classification, structure, function, properties.</li> <li>➤ Lipids and classification, structure, function, properties.</li> <li>➤ Nucleic acids and protein classification, structure, function, properties.</li> <li>➤ Enzymes classification and nomenclature, mechanisms of enzyme action. Coenzymes and cofactor, structure and Function.</li> <li>➤ Concept of electromagnetic radiation, absorption spectrum, Beer's law and Lamberts law</li> <li>➤ Principle, working and applications of spectrophotometer</li> <li>➤ Concepts of chromatography Principle, methodology and application of various chromatographic techniques</li> <li>➤ Principle, methodologies and application of electrophonic separation of bio molecules.</li> </ul>
<b>SEMESTER IV</b>			

1	<b>BTP401</b>	<b>Molecular biology</b>	<p><b>CO1:</b> To describe molecular basis of dna and rna structure of dna and rna</p> <p><b>CO2:</b> To understand replication of dna and important enzymes involved with their role</p> <p><b>CO3:</b> To explain causes and mechanism od dna repair</p> <p><b>CO4:</b> To understand central dogma of molecular biology</p> <p><b>CO5:</b> To describe the regulation of gene expression (lac and try p operon)</p> <p><b>CO6:</b> To understand insertional elements and transposons</p>
<b>SEMESTER V</b>			
1	BTP501	Genetic Engineering & Environment Biotechnology	<p><b>CO1:</b> To understand the scope of genetic engineering in various fields</p> <p><b>CO2:</b> To explain the tools of genetic engineering.</p> <p><b>CO3:</b> To explain the transformation of r-DNA</p> <p><b>CO4:</b> To understand advantage of application of r-DNA in human health.</p> <p><b>CO5:</b> To describe the uses of convectional fuels &amp; modern fuel to mankind.</p> <p><b>CO6:</b> To understand the benefits of environment.</p> <p><b>CO7:</b> To bring awareness of environment protection benefits.</p>
2	BTP503	Immunology and animal biotechnology	<ul style="list-style-type: none"> <li>➤ Immunology, immune system, properties of immune system, types of immunity</li> <li>➤ Concept of antigen, antigenic determinants, haptens, factors affecting antigenicity</li> <li>➤ Immunoglobulin, structure, types and functions</li> <li>➤ Laboratory facilities and culture media for animal tissue culture.</li> <li>➤ Cell lines, application of animal cell and tissue culture, biohazards and Biosafety.</li> <li>➤ Transgenic animals, cryopreservation, apoptosis, Animal cloning.</li> <li>➤ Cell transformation, DNA microinjection.</li> <li>➤ Economic aspects of transgenic animals.</li> </ul>

**SEMESTER VI**

1	<b>BTP601</b>	<b>Plant biotechnology</b>	<p><b>CO1:</b> To describe the in vitro methods, aseptic techniques, nutrient media, growth regulators in plant tissue culture.</p> <p><b>CO2:</b> To understand clonal propagation and in vitro production of secondary metabolites.</p> <p><b>CO3:</b> To explain organogenesis, somatic embryogenesis, somatic variations and their significance.</p> <p><b>CO4:</b> To describe techniques of transformation and role of tissue culture in agriculture, horticulture and forestry.</p> <p><b>CO5:</b> To understand intellectual property rights, patents, trade marks, trade secrets copyrights in biotechnology.</p>
2	<b>BTP603</b>	<b>Industrial biotechnology</b>	<p><b>CO1:</b> To describe structure of fermenter, types of fermentation.</p> <p><b>CO2:</b> To give detail account of microbial products: process development and down stream processing</p> <p><b>CO3:</b> To explain production of enzymes by fermentation</p> <p><b>CO4:</b> To describe fermented foods and other microbial foods</p> <p><b>CO5:</b> To understand techniques of mass culture of algae and cyanobacteria</p> <p><b>CO6:</b> To describe microbial polysaccharides and polyester.</p>



**DEPARTMENT: PHYSICS**

<b>Program outcome</b>	<p>PO1:Basic knowledge of the discipline of Physics including phenomenology, theories and techniques, concepts and general principles.</p> <p>PO2:This should also support the ability to ask physical questions and to obtain solutions to physical questions by use of qualitative and quantitative reasoning and by experimental Investigation</p>
<b>Program Specific Outcome</b>	<p>PSO1:Read, understand and interpret physical information – verbal, mathematical and graphical. Equip students in methodology related to Physics.</p> <p>PSO2:Impart skills required to gather information from resources and use them. To give need based education in physics of the highest quality at the undergraduate level.</p> <p>PSO3:Perform experiments and interpret the results of observation,including making an assessment of experimental</p>

<b>PHYSICS</b>			
<b>SLNO</b>	<b>SUBJECT/PAPER CODE</b>	<b>COURSE</b>	<b>COURSE OUTCOME</b>
<b>SEMESTER I</b>			
1	PHYT101	Mechanics – 1 , heat Andthermodynamics – 1	The theoretical background to study different branches of physics is gained by this course.
2	PHYP102	Practical physics – i	Experimental Knowledge in support above theory & use of mechanical and thermal instruments and their uses in day to day life is gained by this course.
<b>Semester II</b>			

1	PHYT201	Mechanics – 2 , heat and thermodynamics – 2	Understand the terminology used in Classical Mechanics. Employ conceptual understanding to make predictions, and then approach the problem mathematically. Understand the important connections between theory and experiment. Connect concepts and mathematical rigor in order to enhance understanding.
2	PHYP202	Practical physics – ii	Experimental Knowledge in support above theory, Elastic & thermal behavior of solids & their applications is gained by this course.
<b>Semester III</b>			
1	PHYT301	Electricity and Magnetism	Electricity and Electrodynamics have the key role in the development of technology. Without electric power and

			communication facilities, life on earth stands still. By this course student get a sound foundation in electricity and magnetism.
2	PHYP302	Practical physics – iii	Experimental Knowledge in support above theory, electric & magnetic behavior of solids and their applications is gained by this course.
<b>Semester IV</b>			
1	PHYT401	Optics and fourier series	Understand the physics behind various phenomenon in wave and optics, and the cause or origin of them. Explain the relationship between various optical phenomenon with the Fourier series.
2	PHYP402	Practical physics – iv	Experimental Knowledge in support above theory different properties of light and its applications is gained by this course.
<b>Semester V</b>			
1	PHYT501	Statistical physics, quantum mechanics – i, atmospheric physics and Nanomaterials	Understand how statistics of the microscopic world can be used to explain the thermal features of the macroscopic world. Be able to use thermal and statistical principles in a wide range of applications. Learn a variety of mathematical and computer techniques. Outline Complete picture of the Atmosphere. Pinpoint the historical aspects and development of quantum mechanics. Understand and explain the differences between classical and quantum mechanics.
2	PHYP502	Practical physics – v(a)	Experimental Knowledge in support above theory is gained by this course.
3	PHYT503	Astrophysics, solid state physics and semiconductor physics	main lattice types are described and formulate the theory of X-ray diffraction in the reciprocal lattice (k-space) formalism and apply this knowledge to generalize the formulation for matter waves be able

			to perform structure determination of simple structures.
4	PHYP504	Practical physics – v(b)	Experimental Knowledge in support above theory is gained by this course.
<b>Semester VI</b>			
1	PHYT601	Atomic, molecular and nuclear physics	This course explore the interior of the atom, nucleus and interaction between nucleons and develop a research interest in nuclear physics.
2	PHYP602	Practical physics – vi(a)	Experimental Knowledge in support above theory is gained by this course.
3	PHYT603	Electronics, magnetic materials, dielectrics and quntum mechanics – ii	The physical principles and applications of Electronics which is most necessary for a Physics student is understood by this course.
4	PHYP604	Practical physics – vi(b)	Experimental Knowledge in support above theory, use of electronic devices and magnetic ,dielectric materials and their applications is gained by this course.

**DEPARTMENT: MICROBIOLOGY**

<b>Program Outcome</b>	<p>PO1: The course BSc Microbiology is aimed at providing detailed scientific understanding about the microbial world. The beneficial and harmful effect of microorganisms</p> <p>PO2: The students will learn techniques of isolating and culturing of microorganisms of Microbial world</p> <p>PO3: In broad spectra the student after 3 years of BSc will be given all the skills required for a microbiologist who can carry out higher studies or employable at any biotechnological and microbial industry.</p>
<b>Program Specific Outcome</b>	<p>PSO1: Students will be well equipped in techniques like identifying microorganisms, etiology and pathology of microbial diseases in man, plants and animals</p> <p>PSO2: Students acquire techniques like handling equipment such as incubators, microscopy, isolation of DNA, Proteins from different sources</p> <p>PSO3: Hands On training in immunology like blood grouping, ELISA, WIDAL tests were given. Analysis of drinking as well as sewage water for microbial contamination and treating these water will be an important outcome of the programme</p>

<b>MICRO-BIOLOGY</b>			
<b>SLN O.</b>	<b>PAPER/SUBJECT CODE</b>	<b>COURSE</b>	<b>COURSE OUTCOME</b>
<b>SEMESTER I</b>			
1	A0350	Basic Microbiology	Student will be introduced to basics of microbial world
2	A0352	Basic Microbiology Practical	They learn the use of equipment's and basic techniques of microbiology

<b>SEMESTER II</b>			
1	B0350	Microbioal taxonomy	Students learn about classifying microorganisms
2	B0352	Culture techniques	Isolation of microorganisms from various sources like soil, water and air by different techniques.
<b>SEMESTER III</b>			
1	C0350	Microbial physiology	Microbial physiology and their culture characteristics will be learnt by students in this semester
2	C0352	Microbial Genetics	The genetic variations, conjugation and transformation of genes will be learnt.
<b>SEMESTER IV</b>			
1	D0350	Molecular biology	Students will have familiarized to the concept of gene and gene action, protein synthesis
2	D0352	Recombinant DNA Technology	This portion helps students to lear about concept of gene cloning, producing genetically modified organisms (GMOs)

<b>SEMESTER V</b>			
1	SM25S1	Agricultural Microbiology	In this semester students will learn about the pathogens of crops and also beneficial microbes especially biofertilizers
2	SM25S2	Environmental Microbiology	Students will be learning the microbes which are having impact on environment both positively and negatively. They learn about treating water to eliminate MOs and other techniques
3	SM25S3	Food Microbiology	This paper helps students learn about impact of microorganisms on food by means of fermentation as well as spoilage of food by microbes and their prevention
4	SM25S4	Dairy Microbiology	Students learn the art of processing of milk and producing milk [products like Cheese and Yogurts etc
<b>SEMESTER VI</b>			
1	SM2S61	Immunology	This papers helps students to learn about immunity and the microbial impact on the immunity of a person, many techniques like ELISA, Blood analysis will be learnt
2	SM2S62	Medical microbiology	Pathogenicity, etiology and treatment of various microbial disease will be learnt
3	SM2S63	Industrial Microbiology	Various techniques of Fermentation and production of products like vaccines, protein and vitamins by microbial Culture
4	SM2S64	Microbial Technology	Various techniques of in vitro production of microbial products like antibiotics, sugar acids and enzymes

## DEPARTMENT: ECONOMICS

**ABOUT THE DEPARTMENT:** The department of Economics helps to develop the student about knowledge about the subject economic policies of the economy, knowledge about National income and opportunities

### Program outcome and course outcome.

- To prepare student to take up higher education.
- To develop students for entrepreneur skills.
- To develop students for competitive exams.eg SDA, KAS,FDA.

SLNo.	Course/ paper	Title of the paper	COURSE OUTCOME
1	A0220	Business economics	<ul style="list-style-type: none"> <li>➤ It enables the students to learn about inter-relationship between business and economics.</li> <li>➤ Various concepts such as revenue, cost .business cycles are the basic concepts which are necessary for students</li> </ul>
2	B0220	Market economics	<ul style="list-style-type: none"> <li>➤ It enables the students to know about types ofmarket structure.</li> <li>➤ Students have a wide knowledge about various profit theories profit planning.</li> </ul>
3	C0220	Monetary theory	<ul style="list-style-type: none"> <li>➤ Types of money, functions of money students, havea board view about theories ofmoney.</li> </ul>
4	D0220	Public Economics	<ul style="list-style-type: none"> <li>➤ Students are able to understand public revenue expenditure Taxationetc.</li> <li>➤ Overall knowledge about Budgetanalysis</li> </ul>
5	AE1C51	Corporate economics	<ul style="list-style-type: none"> <li>➤ Students have knowledge regularly company economics HR planningetc</li> <li>➤ Abroad view about problems of rural economy how to solve them.</li> </ul>
6	AE1C52	HRMS and Karnataka Economics	<ul style="list-style-type: none"> <li>➤ Karnataka economy gives knowledge about features of economy dint sectors such as agriculture industry</li> <li>➤ HRM gives picture about functions of human resource mange corporate social responsibility have funds help in of social needs.</li> </ul>



## **DEPARTMENT: ECONOMICS- M.A**

### **Programed Outcomes of the M.A Post Graduate Programed (CBCS) DEGREE**

#### **SEMESTER SCHEME 2014 – 15 onwards**

**ABOUT THE DEPARTMENT:** The department of Economics acknowledges that it helps to develop the student about knowledge of the subject, economic policies of the country, knowledge about planning and National income, challenges and opportunities in various Economies, knowledge about significance of Banking sector, International financial institutions and economic integration

in various Economies, knowledge about significance of Banking sector, International financial institutions and economic integration

#### **Program outcome and course outcome.**

1. To prepare students to take up higher education to become Economists, Economic advisor, researchers and teachers.
2. To develop human resources to act as think tank for Economy Development related issues.
3. To develop Economists and business analysts for companies, capital market and money markets.
4. To develop entrepreneurs.
5. To develop Economic philosophers with a focus on social responsibility and ecological sustainability.
6. To prepare students for professions in the field of Economic analysis, statisticians, Professions in Capital and money Markets, professions in Banks by passing the respective examinations
7. Encourage the students for competitive examinations of U.G.C, UPSC, KPSC, POBS, Staff Selection Commission, etc,
8. To prepare students to take up higher education to become Economists, Economic advisor, researchers and teachers.
9. To develop human resources to act as think tank for Economy Development related issues.
10. To develop Economists and business analysts for companies, capital market and money markets.
11. To develop entrepreneurs.
12. To develop Economic philosophers with a focus on social responsibility and ecological

sustainability.

13. To prepare students for professions in the field of Economic analysis, statisticians, Professions

in Capital and money Markets, professions in Banks by passing the respective examinations

14. Encourage the students for competitive examinations of U.G.C, UPSC, KPSC, POBS, Staff Selection Commission, etc,

<b>M. A I Semester</b>			
<b>Sl.No.</b>	<b>Paper code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1.	*A0210	Advanced Microeconomics	<ol style="list-style-type: none"> <li>1. To enable students to integrate macroeconomic analysis into practical life</li> <li>2. To enable students to understand the structure of various markets</li> </ol>
2.	*A0220	Advanced Macro Economics	<ol style="list-style-type: none"> <li>1. To familiarize the students with the concepts, functions and practices of</li> </ol>
3.	*A0270	Public Economics: Theory & Policy	To familiarize student with aspects of of public expenditure, public revenue, public debt and budgeting
4.	*A0230	Mathematical Methods for Economists	<ol style="list-style-type: none"> <li>1. To impart knowledge in concepts and tools of mathematics</li> <li>2. To make students apply these in Economic analysis</li> </ol>
		Development	<ol style="list-style-type: none"> <li>1. To familiarize the students with the concepts, functions and practices of various</li> </ol>

5	*A0240	Economics	Economic planning and policies
6	*A0250	Monetary Economics	<ol style="list-style-type: none"> <li>1. To expose students to domestic and international monetary systems</li> <li>2. To enable students to understand classical, and neo classical approach</li> <li>3. To familiarize with issues relating to international financial institutions</li> </ol>
7	A0260	Agricultural Economics	1. To familiarize students with concepts, tools and techniques and challenges of the Agricultural sector
8	A0280	Financial Institutions and Markets	<ol style="list-style-type: none"> <li>1. To familiarize the students with regard to structure, organization and working of financial system in India.</li> <li>2. To familiarize the students with Traditional and Modern Financial Services.</li> </ol>

**M. A II Semester**

Sl.N o.	Paper code	Title of the Paper	Course outcomes
1	*B0210	Indian Economy	<ol style="list-style-type: none"> <li>1. To expose the students to Indian Economy along with the latest trends and Economic reforms in the country</li> <li>2. To enable the students to understand about the Population, poverty &amp; unemployment and its effects and remedies</li> </ol>

2	*B0220	International Trade: Theory and Policy	<ol style="list-style-type: none"> <li>1. To familiarize the students with the concepts, functions and practices of international Trade.</li> <li>2. To enable them get global perspective on issues related to trade.</li> </ol>
3	*B0230	Statistical Methods for Economists	To provide basic knowledge of Statistical Methods and their application for Economic analysis
4	*B0240	Managerial Economics	<ol style="list-style-type: none"> <li>1. It enables the students to know about management skills and types of market structure.</li> <li>2. To provide a wide knowledge about various profit theories and profitplanning.</li> </ol>
5	*B0250	Indian Public Finance	<ol style="list-style-type: none"> <li>1. To enable the students to understand about the Indian federal finance, Indian tax system, and Trends in budge of central and state govt.</li> </ol>

6	*B0270	Agri-Business	<p>1.To facilitate in-depth understanding of Agri- business and Public distribution system in India</p> <p>2.To enables the students to know about Sustainable agriculture in India</p>
7	B0280	Labor Economics	<p>1. To make the students understand the concept of labour and its Major issues in the Indian Labour market</p> <p>2. To have on overview of globalization impact on Indian labour market, Employment scenario and Labour mobility,</p>

<b>M. A III Semester</b>			
<b>SL NO</b>	<b>Paper code</b>	<b>Title of the Paper</b>	<b>Course outcomes</b>
1	*C0210	Research Methodology	<p>1. To familiarize students with concepts, tools and techniques of the methodology of research.</p> <p>1. To enable students to do a research project in the fourth semester</p>
2	*C0220	Computer Applications in Economic Analysis	<p>1. To Develop skills to design and implement simple computer based Economic Analysis</p> <p>2. To familiarize student with aspect of relevant information technology.</p>

3	*C0230	Econometrics	To expose students to apply Quantitative techniques in Economic analysis
4	*C0240	Welfare Economics	To enables the students to know about Welfare and General Equilibrium, Collective Choice and Social Welfare-Social Choice and Political decision Making
5	*C0250	International Finance & Business	1. To familiarize the students with the concepts, functions and practices of international business. 2. To enable them get global perspective on issues related to business.

**M. A IV Semester**

SL NO	Paper code	Title of the Paper	Course outcomes
1	*D0210	Computer Applications in Economics	To Develop skills to design and implement advanced computer based statistical techniques for Economic analysis
2	*D0220	ENVIRONMENTAL ECONOMICS	To familiarize with recent Global environmental issues, Economics of Natural Resources and Environmental Policy Instruments
3	*D0230	DEMOGRAPHY	To expose the students to understand the theories, fertility, mortality, migration, structure of population and population policy

4	*D0240	Economic Planning	To enables the students to know about Need for planning in a globalized economy, mobilization & allocation of resources for the plans, Regional imbalance, Sectoral planning, Planning for infrastructure development in the Indian economy
5	*D0260	Project planning	Each student will choose research project and prepare a dissertation report. He/she will formulate it as a research problem, work under the guidance of a faculty member, prepare a report based on his/her work and submit to the University. Viva-voce is conducted by the university on the

### DEPARTMENT: SOCIOLOGY

**ABOUT THE DEPARTMENT :** The department seeks to develop in students the sociological knowledge and skills that will enable them to think critically about the society and social issues through course work ,independent studies and collaborative programmes.the department encourages a commitment to social justices based on appreciation of social and intellectual diversity and an awareness of social inequity.

#### **Program out come and course outcome.**

- To understand the discipline of sociology and its perspectives.
- To understand social differentiation based on gender, sexuality races and ethnicity.
- Contribution of sociology to understand social reality.
- To analyses differentiation in case gender class through social inclusion.
- To apply critical thinking skills to sociological theory and data.

Sl.No.	Course/ paper code	Title of the paper	OUTCOMES
1	A0240	Fundamentals of sociology	<ul style="list-style-type: none"> <li>➤ Independent learning ---students are familiar with major concepts, theories approaches in sociology.</li> <li>➤ The students understand basic concepts in sociology such as culture socialization, stratification social change and institutions</li> </ul>
2	BO240	Social Anthropology	<ul style="list-style-type: none"> <li>➤ Student display advanced knowledge of content debates and issues in sociology.</li> <li>➤ The Students understand how theories reflect historical and social contexts of the time and culture in which they are developed.</li> </ul>
3	C0240	Sociology of media and communications.	<p>Students formulate areas two field of study.</p> <ul style="list-style-type: none"> <li>➤ Students are able to understand globalization on inequity and diversity Students formulate, investigate and discuss sociological and Anthropological</li> </ul>
4	D0240	SOCIAL INSITUTIONS	<ul style="list-style-type: none"> <li>➤ Students are able to produce academic and oral skills.</li> <li>➤ Students will develop an ability to use social scientific methods to address sociological questions.</li> </ul>
5	AS1C51	SOCIOLOGY OF WOMEM	<ul style="list-style-type: none"> <li>➤ Students will pass analytical skills in areas such as policy analysis communication and problem solving.</li> <li>➤ Students understood the social constructions of large caste gender and sexuality.</li> </ul>
6	AS1C52	RESEARCH METHODOLOGY	<ul style="list-style-type: none"> <li>➤ Define theory and describe and illusory its role in building sociological knowledge.</li> <li>➤ Use of computer to analysis gather and interpretation sociological data.</li> <li>➤ Students are able to analysis how social structures various across time and place.</li> </ul>



## DEPARTMENT: POLITICAL SCIENCE

**ABOUT THE DEPARTMENT :** The department is interested to create among students the political skills techniques and methods to develop and survive in the changing world especially through political modernization and commitment ,positive thinking which will enable them to become the right persons in selecting leaders.

### Program out come.

- To make students understand basic concepts of political science and political theory.
- To educate new generation voters.
- To practice skill development
- To prepare them for appearance all possible competitive exams with dedication and hard work.

Sl.No.	Course/ paper code	Title of the paper	OUTCOMES
1	A0230	Core concepts of political science	<ul style="list-style-type: none"> <li>➤ Students are very familiar with the syllabi since they name studied at pre- university level.</li> <li>➤ Students are also given guidance about their role in administration and political change.</li> <li>➤ The approaches of behaviorism and public private partnership are made familiar to the student community.</li> </ul>
2	B0230	Understandin g political theory	<ul style="list-style-type: none"> <li>➤ At this stage they are exposed to latest theories of political science with gives them confidence to face future.</li> <li>➤ The institution like panchayat raj, district administration, nadakacheri, and consumer forums are informed enlarges.</li> <li>➤ Ultimately students are made to display advance political knowledge through debates on current issues.</li> </ul>
3	C0230	Public administration core concepts	<ul style="list-style-type: none"> <li>➤ Students are familiar with the concepts of governance and administration.</li> <li>➤ Planning, organization, leadership, decision making budget, control over administration such other concepts are familiar to the students.</li> <li>➤ Students are becoming highly sensitive about issues like corruption, delay injustice etc they critically evaluate.</li> </ul>

4	D0230	Western and eastern political thoughts	<ul style="list-style-type: none"> <li>➤ Students are open to study and understand the oriental and western political ideals of great philosophers</li> <li>➤ The comparative study is made very scientifically which results in understanding the usefulness of western philosophers and the application.</li> <li>➤ Students also evaluate the relevance and the structured benefit of various insinuations of the government .like legislative, executive etc.</li> </ul>
5	AP1C51	Indian constitution	<ul style="list-style-type: none"> <li>➤ Indian constitution is taught accordingly to the wide spectrum I.e. theory and practice</li> <li>➤ Constitutional changes and amendments through a light on the student community. To decide the fate of the government.</li> <li>➤ The concept like fundamental rights, duties, directive principles of state policy administrative powers of government federalism secularism, etc given due importance.</li> </ul>
6	AP1C52	International organization and foreign policies	<ul style="list-style-type: none"> <li>➤ Students come to know very well hoe to prepare them in the globalized world.</li> <li>➤ International institutional frame work drives the students to live better in the globalized world.</li> <li>➤ Students are also rationalize the uses of foreign policy instruments like war disbarments international law, international organizations and social wellbeing</li> </ul>

## DEPARTMENT: HISTORY

**ABOUT THE DEPARTMENT :** The department is on hold as college itself it has rich heritage of good faculty ,it is involved in developing student out mind with historical knowledge ,analytical skills field experience and variety of project works regular tours conducted places of historical.

### Program outcome.

- To prepare students for higher education in history.( MA,B.EDETC)
- To prepare students for competitive exams like KAS, IAS etc
- To impart basic skills in tourism which in fast-growing job market.
- To develop essential knowledge to analyses social problems.

Sl.No.	Course/ paper code	Title of the paper	COURSE OUTCOME
1	A0210	ANCIENT INDIA	<ul style="list-style-type: none"> <li>➤ To enrich students' knowledge about ancient India from Stone Age to post Gupta period.</li> <li>➤ To make students understand evolution of Agricultural practices, trade and commerce.</li> <li>➤ Interaction between north and south through polity trade, religion language and culture and customs.</li> </ul>
2	B0210	MEDIVAL INDIAN HISTORY	<ul style="list-style-type: none"> <li>➤ TO understand the emergence of composite culture.</li> <li>➤ To equip students with medieval.</li> <li>➤ Historical events happening around Delhi to Agra.</li> <li>➤ To understand new cultures, islam,sufi,Turkish, Persianetc.</li> </ul>
3	C0210	KARNATAKA HISTORY.(SOC IAL,ECONOMI CS AND CULTURAL)	<ul style="list-style-type: none"> <li>➤ To introduces local history with inscriptions monuments, and literary works.</li> <li>➤ To understand evolution of loud grants Agriculture, trade contacts in Karnataka</li> </ul>
4	D0210	INDIAN TOURISM	<ul style="list-style-type: none"> <li>➤ Employment opportunities in tourism are explained with nature of difficult roles in tourism.</li> <li>➤ Conservation of historical monuments and sustainable tourism are focused new trends</li> </ul>
5	AH2C51	MODERNINDIA N HISTORY	<ul style="list-style-type: none"> <li>➤ This paper will explain the hardship India was put</li> </ul>
6	AH2C52	MODEREUROP E HISTORY	<p>to under colonial moseys our struggle to freedom under to leadership of mahatma Gandiji.</p> <ul style="list-style-type: none"> <li>➤ It helps to produce our mind sets with happening in Europe 1500-1945 growth of liberalism, socialism Marxism etc will make.</li> </ul>

## DEPARTMENT: optional KANNADA

**ABOUT THE DEPARTMENT:** The department of Kannada language provides a full time course on Kannada language and literature. Two years for the undergraduate students will be taught and explored to use the Kannada language

### Program specific out come

- On pursuing an emphasis is Literature gain a deeper understanding of the Resources of the written word.
- It helps students to explore to the entire range of human experience in the resources of language in Fiction ,Poetry, Prose

### Increases confidence in speaking

Sl.No.	Course/paper code	Title of the paper	Out comes
1	A0370	Optional Kannada language text	➤ On pursuing an emphasis is literature Kannada gain a deeper understanding of the resources of the written word
2	B0370	Optional kannada language text	➤ It helps students to explore the entire range of human experience in the resources of language.
3	C0370	Suvarna Kannada	➤ Prepare organize and deliver engaging oral presentation skills of analytical and interpretive argument become careful and critical readers
4	D0370	Suvarna Kannada	➤ Increase confidence in their ability to read comprehends organizes and retains written information.
5	AK1C51	Suvarna Kannada	➤ Develops the skill of effective reading, writing.
6	AK1C52	Suvarna Kannada	➤ Increase confidence in speaking, publicly articulate clear questions uses of language

## **DEPARTMENT: ENGLISH**

### **ABOUT THE DEPARTMENT: Writing Instruction**

The English Department acknowledges that it must provide training in a variety of cognitive skills including analyzing, synthesizing, speaking, listening, reading, evaluating, and appreciating language for itself. The English Department acknowledges that the primary means to achieve intellectual development in these fields is through the teaching of specific writing skills (such as paragraph and essay formation, rhetorical strategies, and the mastery of grammatical and mechanical competencies) and the critical reading of a wide variety of texts, both print and non-print. Thus, the English Department recognizes that in order to teach students to write effectively, it must also instruct students in other related skills: how to read a written text critically (textual reception) and how to write effective and successful texts of their own (textual production); how to respond to the challenges of understanding non-print texts (such as charts, maps, films, and advertisements); how to compose with an eye to clarity, logic, and the conventional requirements of the typical (non-specialist) reader; how to become sensitive to the varieties of English usage; how to appreciate both the cultures of the American experience and those of other peoples in a way that manifests respect and inclusiveness.

<p><b>PROGRAM OUTCOME</b></p>	<p><b>PO1:</b> Apply the knowledge of mathematics, science, arts and management principles to the solution of complex problems.</p> <p><b>PO2:</b> Devise solutions for intricate problems and plan system components or processes that meet the specified needs with appropriate consideration for the society, health, safety, cultural, societal, and environmental considerations.</p> <p><b>PO3:</b> Use innovation-based knowledge and creative methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.</p> <p><b>PO4:</b> Create, select, and apply appropriate techniques, resources, and modern IT tools including prediction and modeling to complex activities with an understanding of the limitations.</p> <p><b>PO5:</b> Comprehend the influence of the proficient clarifications in societal and environmental context for sustainable development.</p> <p><b>PO6:</b> Pertain ethical principles and entrust to professional ethics and responsibilities.</p> <p><b>PO7:</b> Function effectively as an individual, and in assorted teams.</p> <p><b>PO8:</b> Communicate effectively on various activities and make effective presentations.</p>
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<p><b>PROGRAM SPECIFIC OUTCOME</b></p>	<p><b>PO9:</b> Exhibit comprehension and understanding of the programs and apply them in a multidisciplinary environment.</p> <p><b>PO10:</b> Be familiar with the need for and have the training and skill to engage in self-regulating and life-long learning in the broadest perspective of hi-techchange.</p> <p><b>PSO1:</b> On pursuing an emphasis in Literature, English gain a deeper understanding of the resources of the written word.</p> <p><b>PSO2:</b> It helps students to explore the entire range of human experience in the resources of language in Fiction, Poetry, Non-Fiction, Prose and Drama</p> <p><b>PSO3:</b> It helps students to build skills of analytical and interpretive arguments; become careful and critical readers, Practice writing in a variety of genres as a process of intellectual inquiry, creative expression and ultimately to become more effective thinkers and communicators who are well equipped for a variety of careers in our information intensive society.</p> <p><b>PSO4:</b> Studying Literature encourages the graduates to view the reading of challenging and imaginative texts as an essential and rewarding part of a life –long commitment to learning and growth.</p> <p><b>PSO5:</b> Read complex texts actively recognize key passages, raise questions, appreciate complexity and ambiguity, and comprehend the literal and figurative uses of language.</p> <p><b>PSO6:</b> Increases confidence in speaking publicly, articulate clear questions and ideas in class discussion; listen thoughtfully and respectfully to other ideas and prepare,</p>
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	<p>organize and deliver engaging oral presentations.</p> <p><b>PSO7:</b> Improves their proficiency in English language. <b>PSO8:</b> Develops the habit of effective reading.</p> <p><b>PSO9:</b> Develops effective writing skills.</p> <p><b>PSO10:</b> Develops functional communicative aspect of language through a series of real-lifetasks.</p>
<p><b>COURSE OUTCOME</b></p> <p><b>FUNCTIONAL ENGLISH, PROSE AND POETRY</b></p> <p><b>1<sup>ST</sup> YEAR AND 2<sup>ND</sup> YEAR</b></p> <p><b>1 SEM A0010</b>  <b>2 SEM B0010</b>  <b>3 SEM C0010</b>  <b>4 SEM D0010</b></p>	<p><b>CO1:</b> Articulate clear questions and ideas in class discussion; listen thoughtfully and respectfully to other's ideas.</p> <p><b>CO 2:</b> Prepare, organize and deliver engaging oral presentations Skills of analytical and interpretive arguments; become careful and critical readers,</p> <p><b>CO 3:</b> Practice writing in a variety of genres as a process of intellectual inquiry, creative expression and ultimately to become more effective thinkers and communicators who are well equipped for a variety of careers in our information intensive society.</p> <p><b>CO 4:</b> Increases confidence in their ability to read comprehends organize and retain written information.</p> <p><b>CO 5:</b> Increases Vocabulary through the study of word parts, use of context clues and Practice with a dictionary.</p> <p><b>CO 6:</b> Uses standard Grammar, punctuation and spelling, be clear and concise in formal technical writing.</p> <p><b>CO 7:</b> Learns to analyze unfamiliar words by understanding the structure of the English language.</p> <p><b>CO 8:</b> Improves their ability to read and spell words through an analysis of structure of the English language.</p> <p><b>CO 9:</b> Develops ideas with coherence and cohesion.</p>



	<b>CO 10:</b> Builds confidence in handling English language.
<b>COURSE OUTCOME</b>  <b>POETRY OUTCOME:</b>  <b>1 SEM A0010</b> <b>2 SEM B0010</b> <b>3 SEM C0010</b> <b>4 SEM D0010</b>	<b>CO1:</b> Engage in close analysis of narrative and poetic language which helps in applying technical analytical terms. <b>CO2:</b> It helps in developing phonemic awareness, self-expressions and memorization skills. <b>CO3:</b> Analyze the various elements of poetry such as Diction, Tone, Form, Genres, Imagery, Figures of Speech, Symbolism, Theme, etc. <b>CO4:</b> Recognize the Rhythms, Metrics and other musical aspects of poetry. <b>CO5:</b> Identify the variety of forms and genres of poetry such as Sonnets, Ballads, Dramatic Monologues, Free Verse, etc.

### DEPARTMENT: KANNADA

**ABOUT THE DEPARTMENT:** The department of Kannada language provides a full time course on Kannada language and literature. Two years for the undergraduate students will be taught and explored to use the Kannada language

#### Program specific out come

- On pursuing an emphasis in Literature gain a deeper understanding of the Resources of the written word.
- It helps students to explore the entire range of human experience in the resources of language in Fiction, Poetry, Prose
- And Drama.
- Increases confidence in speaking publicly articulate clear questions, appreciate, complexity and ambiguity and comprehend the literal and figurative uses of language.
- Improves their proficiency in Kannada language.
- Develops the habit of effective writing skills.
- Develops functional communicative aspect of language through a series of real life tasks.

#### Course outcome (prose)

- Prepare organize and deliver engaging oral presentations skills of analytical and interpretive argument, become careful critical and Readers.

- Articulate clear questions and ideas in class discussions
- Listen thoughtfully and respectfully to other ideas.
- Increase confidence in their ability to read
- Comprehends organize and retain written informs.
- Builds confidence in handling Kannada language.
- Uses standards grammar, punctuation's and spelling, be clear and concise information.

### **POETRY OUTCOME.**

- Engage in close analysis of Narrative and poetic language which helps in applying technical analytical terms.
- It helps in developing phonemic awareness, self-expressions and memorization skills.
- Recognize the rhythms metrics and other musical aspect of poetry
- Analyze the various elements of poetry diction tone form, figure of speech, symbolism, them etc.
- Identify the variety of forms and genres of poetry such as sonnets, Ballad's, Freeverseetc.

<b>Sl. No.</b>	<b>COURSE / PAPER CODE</b>	<b>TITLE OF THE PAPER</b>	<b>OUTCOMES</b>
1	A0020	Kannada basha patya	<ul style="list-style-type: none"> <li>➤ Students are familiar with basics of kannada literature</li> <li>➤ History of kannada literature knows about famous poets and authors their literary work.</li> </ul>
2	B0020	Kannada basha patya	<ul style="list-style-type: none"> <li>➤ Students able to write extricate poetry and in college competition magazines and newspaper.</li> </ul>
3	C0020	Suvarna sampada	<ul style="list-style-type: none"> <li>➤ Students will develop proficiency skills in speaking doing seminars in various topics connected to literature.</li> </ul>
4	D0020	Suvarna sampada	<ul style="list-style-type: none"> <li>➤ By the end of the course the student will develop an enhanced fundamental understanding, history and cultural, this would enable student achieve proficiency in the language to their future interest.</li> </ul>

## DEPARTMENT: HINDI

**ABOUT THE DEPARTMENT:** The department HINDI language provides a full time course on HINDI language and literature. Two years for the undergraduate students will be taught and explored to use the HINDI language

### Program specific out come

- On pursuing an emphasis in Literature gain a deeper understanding of the Resources of the written word.
- It helps students to explore to the entire range of human experience in the resources of language in Fiction ,Poetry, Prose
- And Drama.
- Increases confidence in speaking publicly articulate clear questions, appreciate, complexity and ambiguity and comprehend the literal and figurative uses of language.
- Improves their proficiency in Hindi language.
- Develops the habit of effective writing skills.
- Develops functional communicative aspect of language through a series of real lifetasks.

### Course outcome (prose)

- Prepare organize and deliver engaging oral presentations skills of analytical and interpretive argument, become careful critical and Readers.
- Articulate clear questions and ideas in class discussions
- Listen thoughtfully and respectfully to others ideas.
- Increase confidence in their ability to read.
- Comprehends organize and retain written informs.
- Builds confidence in handling Hindi language.
- Uses standards grammar, punctuation's and spelling, be clear and concise information.

### POETRY OUTCOME

- Engage in close analysis of Narrative and poetic language which helps in applying technical analytical terms.
- It helps in developing phonemic awareness, self-expressions and memorization skills.
- Recognize the rhythms metrics and other musical aspect of poetry
- Analyze the various elements of poetry diction tone form ,figure of speech, symbolism, them etc
- Identify the variety of forms and genres of poetry such as sonnets, Ballads, Freeverse etc

- Understanding of the Resources of the written word.
- It helps students to explore to the entire range of human experience in the resources of language in Fiction ,Poetry, Prose

<b>Sl.No.</b>	<b>COURSE / PAPER CODE</b>	<b>TITLE OF THE PAPER</b>	<b>OUTCOMES</b>
1	A0030	Ghady vanijya patra	<ul style="list-style-type: none"> <li>➤ Students are familiar with basics of Hindi literature</li> <li>➤ History of hindi literature knows about famous poets and authors their literary work.</li> </ul>
2	B0030	Kavya Saritha	<ul style="list-style-type: none"> <li>➤ Students able to write extricate poetry and in college competition magazines and newspaper.</li> </ul>
3	C0030	Natak alak ajadi	<ul style="list-style-type: none"> <li>➤ Students will develop proficiency skills in speaking doing seminars in various topics connected to literature.</li> </ul>
4	D0030	Upanyas,film review	<ul style="list-style-type: none"> <li>➤ By the end of the course the student will develop an enhanced fundamental understanding, history and cultural, this would enable student achieve proficiency in the language to their future interest.</li> </ul>

## DEPARTMENT: URDU

**ABOUT THE DEPARTMENT :** The department of Urdu language provides a full time course on Urdu language and literature for the undergraduate students will be taught explored to the use of Urdu language both in oral written forms .the course begin with introductory seminars with of language advanced level of language.

### Program out come.

- The program intends to give the student.
- Student necessary exposures to develop interest in the language enable them.
- To appreciate the linguistic with the relevance today.
- Students will develop proficiency skills in writing translation, journalism etc.

Sl.No.	COURSE /PAPER CODE	TITLE OF THE PAPER	OUTCOMES
1	A0040	Irfan'e volume-I	<ul style="list-style-type: none"><li>➤ Students are familiar with basics of Urdu literature</li><li>➤ History of Urdu literature knows about famous poets and authors their literary work.</li></ul>
2	B0040	Irfan'e volume-I	<ul style="list-style-type: none"><li>➤ Students able to write extricate poetry and gazelle in college competition magazines and newspaper.</li></ul>
3	COO40	Irfan'e volume-II	<ul style="list-style-type: none"><li>➤ Students will develop proficiency skills in speaking doing seminars in various topics connected to literature.</li></ul>
4	D0040	Irfan'e volume-II	<ul style="list-style-type: none"><li>➤ By the end of the course the student will develop an enhanced fundamental understanding, history and cultural, this would enable student achieve proficiency in the language to their future interest.</li></ul>