

## PROGRAMME OUTCOMES (PO): B. A.

| <b>Programme Outcomes</b> | Students seeking admission for B.A. programme, permeating following qualities which help them in their future life to achieve the expected goals. |
|---------------------------|---|
| PO 1                      | Realizing human values.   |
| PO 2                      | Becoming a responsible and dutiful citizen.   |
| PO 3                      | Acquiring critical temper.  |
| PO 4                      | Inculcating creative ability.   |
| PO 5                      | Getting well acquainted with the historical events happened in India as well as in the world.   |
| PO 6                      | Getting acquainted with social transactions, social relations, social formations, social control, social values and culture.                      |
| PO 7                      | Working in NGOs and preparing for competitive exams   |
| PO 8                      | Creating interest in basic Knowledge and major Knowledge in literature.   |
| PO 9                      | Developing reading, writing, speaking and listening skills in language.   |
| PO 10                     | Developing the Knowledge about theories of economic growth.   |

## PROGRAMME OUTCOMES (PO): B. Com.

| <b>Programme Outcomes</b> | After successful completion of three year degree program in Commerce students are   |
|---------------------------|---|
| PO 1                      | Recognizing, understanding soft skills required for the business world.   |
| PO 2                      | Building the abilities to become a successful entrepreneur, prepare a business plan, set up and manage own venture.   |
| PO 3                      | Maintaining books of accounts of small scale and medium scale industrial units.   |
| PO 4                      | Developing skills of computation of income, submission of income tax returns.   |
| PO 5                      | Acquiring various costing techniques and do the cost audit.   |
| PO 6                      | Developing knowledge about cost ascertainment and fixation of selling price and cost control.   |
| PO 7                      | Obtaining the knowledge of various provisions of Income Tax Act and their applications in computation of taxable income of an individual under different heads of income. |
| PO 8                      | Empowering and enableing students to take up responsible positions in industry and other sector.  |
| PO 9                      | Providing exposure and strong foundation to accounting tool like tally  |
| PO 10                     | Pursuing the master degrees for advanced and professional knowledge.  |

## PROGRAMME OUTCOMES (PO): B. Sc.

|                           |   |
|---------------------------|---|
| <b>Programme Outcomes</b> | Students taking admission to this program of B.Sc. get equipped with following outcomes:  |
| PO 1                      | Domain Knowledge: acquiring knowledge of fundamentals, basic Mathematics, domain knowledge of proper scientific models and Computing Specialization from defined problems and explaining the basic scientific principles and methods.   |
| PO 2                      | Inculcating for scientific thinking and awareness and Getting an ability to use necessary current techniques, skills, and modern tools.   |
| PO 3                      | Communication: Communicate concepts, designs, and solutions of scientific activities effectively and professionally with society at large.  |
| PO 4                      | Problem Analysis: Identifying, formulating, and analyzing complex problems, reaching substantiated conclusions using first principles of Mathematics, natural sciences and electronic sciences.   |
| PO 5                      | Environment and Sustainability: Understanding the impact of scientific solutions on societal and environmental contexts and demonstrate knowledge of and need for sustainable development.  |
| PO 6                      | Getting familiar with emerging areas of different subjects in Science and their applications in various spheres of sciences and getting appraise of its relevance in future studies.  |
| PO 7                      | Understanding basic facts and concepts in Chemistry while retaining the exciting aspects of Chemistry so as to develop interest in the study of Chemistry as a discipline.  |
| PO 8                      | Getting ability to apply various statistical tools to research problems and ability to build statistical knowledge and knowing the statistical organization in India and abroad.  |
| PO 9                      | Developing scientific intuition, ability and techniques to tackle Problems either theoretical or experimental in nature.  |
| PO 10                     | Getting an opportunity to learn the latest trends in Electronics and Computer Science and Getting an ability to solve complex Electronics Science and computing problems, using latest hardware and software tools, along with analytical skills to get cost effective and appropriate solutions. |

**Programme Outcomes: (PO) and Programme Specific Outcomes: (PSO)  
B. Sc. CS (Entire)**

| <b>Programme Outcomes</b> | <b>After successful completion of three year degree program in Computer Science Students are</b>  |
|---------------------------|---|
| PO 1                      | Developing problem solving abilities using a computer   |
| PO 2                      | Building the necessary skill set and analytical abilities for developing computer based solutions for real life problems  |
| PO 3                      | Imbibing quality software development practices..   |
| PO 4                      | Creating awareness about process and product standards  |
| PO 5                      | Acquiring training of professional skills related to Software Industry.   |
| PO 6                      | Preparing necessary knowledge base for research and development in Computer Science   |
| PO 7                      | Shaping the career in the IT management.  |
| PO 8                      | Handling correspondence frameworks and data innovation in the development of data innovation industries, in India as well as in abroad.   |
| PO 9                      | Identifying the different functional aspect of business world and to recognize different opportunities of business.   |
| PO 10                     | Acquiring the different skills necessary for the professional attitudes and developing effective oral communication, especially In business applications, with the use of appropriate technology. |

**Program Outcomes: (PO) and Program Specific Outcomes: (PSO)**

**B. C. A.**

| <b>Program Outcomes</b> | <b>After Completing the BCA Course Students are</b>   |
|-------------------------|---|
| PO 1                    | Enabling to shape their career in the IT management.  |
| PO 2                    | Experiencing quick development and changing the state of Indian business models.  |
| PO 3                    | Incorporating Programming Advancement, Consultancies, Programming Administration, Online Administrations and Business Process Outsourcing (BPO).                              |
| PO 4                    | Getting job opportunities in the field offered by various top notch IT companies.   |
| PO 5                    | Playing their parts as key players by contributing to the economic growth through software development, mobile commerce, telecommunication, design, e-commerce, KPO, and BPO. |
| PO 6                    | Developing various real time applications using latest technologies and programming languages.  |
| PO 7                    | Exhibiting understanding of broad business concepts and principles.   |
| PO 8                    | Demonstrating the capabilities required to apply cross functional business  |

|       |   |
|-------|---|
|       | knowledge and technologies in solving real world business problems.   |
| PO 9  | Demonstrating the abilities to identify a business problem, isolate its key components, analyze, and assess the salient features, set appropriate criteria for decision making and drawing conclusions and implications for proposed solutions. |
| PO 10 | Blending analytical, logical and managerial skills with the technical aspects to resolve real world issues.   |

## Programme Outcomes: (PO) and Programme Specific Outcomes: (PSO)

### B. B. A.

| <b>Programme Outcomes</b> | <b>After Completing The BBA Course Students are</b>   |
|---------------------------|---|
| PO 1                      | Identifying the different functional aspects of business world and recognize different opportunities of business.                   |
| PO 2                      | Acquiring the different skills necessary for the professional attitudes.  |
| PO 3                      | Demonstrating A Global Outlook With The Ability To Identify Aspect Of The Global Business And Cross Cultural Understanding.         |
| PO 4                      | Identifying The Problem And Challenges And In Calculate The Capability Cope With The Spontaneous Changes.                           |
| PO 5                      | Analyzing the importance of innovation and research, tackle the contemporary needs and accordingly grab the opportunities.          |
| PO 6                      | Acquiring The Managerial Professional Attributes And Be Capable Decision Making By Applying The Knowledge Of Management Discipline. |
| PO 7                      | Exploring The Entrepreneur Quality And Start New Business Venture With Innovative Ideas.  |
| PO 8                      | Preparing To Undertake Post Graduation Management Programme.  |
| PO 9                      | Developing effective and oral communication especially in business applications, with the use of appropriate technology.            |
| PO 10                     | Pursuing The Master Degrees For Advanced And Professional Knowledge.  |

## Programme Specific Outcomes (PSO): B. A. (English)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | The students taking up this program of B A with English as a special subject of study receive the following outcomes: |
| PSO 1                              | Basic Knowledge of English as a language.   |
| PSO 2                              | Major knowledge of English as Literature.   |
| PSO 3                              | Advanced knowledge of English Grammar.  |
| PSO 4                              | Critical study of English literary studies.   |
| PSO 5                              | Relation between literature and real life.  |

## Programme Specific Outcomes (PSO): B.A. (Hindi)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | Hindi degree holders are,                                   |
| PSO 1                              | Availing the job opportunities in Hindi writer and teacher. |
| PSO 2                              | Increasing the critical attitude about literary writing.    |
| PSO 3                              | Imbuing the Hindi grammar and linguistic.                   |
| PSO 4                              | Increasing sensitivity about the human emotions.            |

## Programme Specific Outcomes (PSO): B. A. (Marathi)

|                                    |  |
|------------------------------------|--|
| <b>Programme Specific Outcomes</b> | Marathi degree holders are,  |
| PSO 1                              | Availing the job opportunities in translation, transformation and media. |
| PSO 2                              | Developing language.   |
| PSO 3                              | Increasing the critical attitude about literary studies.                 |
| PSO 4                              | Imbuing the literary research attitude.                                  |

## Programme Specific Outcomes (PSO): B. A. (Geography)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | Geography degree holders are,   |
| PSO 1                              | Serving as a Geographer and Work as a teacher in colleges, schools and high schools.                                  |
| PSO 2                              | Serving as conservator in forest, Soil, Agricultural Departments and Work in disaster and water resources management. |
| PSO 3                              | Serving in cartographer in map making divisions of government.  |

## Programme Specific Outcomes (PSO): (B.A. HISTORY)

|                                     |  |
|-------------------------------------|--|
| <b>Programmes Specific Outcomes</b> | History degree holders are,  |
| PSO 1                               | Thinking, arguing and writing critically, analytically and logically on the historical issues.                         |
| PSO 2                               | Understanding relevance of present scenario in every respect.  |
| PSO 3                               | Applying his/her Knowledge Exploring employment opportunities and creating overall awareness about history in society. |

## Programme Specific Outcomes (PSO): B. A. (Economics)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | Economics degree holders are,   |
| PSO 1                              | Understanding how different degrees of competition in a market affect pricing and output.   |
| PSO 2                              | Understanding the efficiency and equity implications of market interference, including government policy.                             |
| PSO 3                              | Developing research Knowledge in economics and also Developing the skill of data collection & use of sampling techniques in research. |

## Programme Specific Outcomes (PSO): B.A. (Political Science)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | Political Science degree holders are,   |
| PSO 1                              | Getting knowledge about political system of the nation.                             |
| PSO 2                              | Studying national and international political affairs.                              |
| PSO 3                              | Studying, from competitive examination point of view.                               |
| PSO 4                              | Understanding the government mechanism, its functions, duties and responsibilities. |
| PSO 5                              | Creating appropriate and efficient political leaders.                               |

## Programme Specific Outcomes (PSO): B. A. (Sociology)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | Sociology degree holders are,   |
| PSO 1                              | Knowing the significance of social institution, caste system, religion, nationalism, integrity, equality and justice. |
| PSO 2                              | Getting the Knowledge of the works of social reformers all over the nation.   |
| PSO 3                              | Ability to follow new stream of thoughts and theories of social thinkers.   |
| PSO 4                              | Getting the deep Knowledge about various social groups like tribal community, women bulk etc.                         |

### **Programme Specific Outcomes (PSO): B. A. (Psychology)**

|                                    |  |
|------------------------------------|--|
| <b>Programme Specific Outcomes</b> | Psychology degree holders are,   |
| PSO 1                              | Getting Enhancement of stress management skills.   |
| PSO 2                              | Getting Enhancement of coping skill with different problems in life.                             |
| PSO 3                              | Enabling measurement of attitude, aptitude, interest, adjustment, skills etc. within the people. |
| PSO 4                              | Introduction of counseling process and techniques.   |
| PSO 5                              | Illustration of mental disorder and treatment.   |

### **Programme Specific Outcomes (PSO): B. Com.**

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | A student, who has taken admission in this program of Commerce specific subject of study, is expected to Getting on following specific outcomes.  |
| PSO 1                              | Understanding basic concepts of accountancy, principles of accountancy and accounting cycle to maintain accounts of trading & non-trading organizations.  |
| PSO 2                              | Getting acquainted with the procedure of preparation of income statements, retained earnings, balance sheet and statement of cash flows which are required for external users and more useful to managers for managerial decision making. |
| PSO 3                              | Inculcating different skills for analysis and interpretation of financial data to understand financial health of an organization and ensure that resources are being used to achieve the organizations objectives.                        |
| PSO 4                              | Creating awareness about changing macro – economic policies and theories.   |
| PSO 5                              | Understanding the efficiency and equity implication of market interference, including government policy.  |

### **Program Specific Outcomes (PSO): B.Sc. (Botany)**

|                  |   |
|------------------|---|
| <b>Programme</b> | After successful completion of three year degree program in |
|------------------|---|

|                          |   |
|--------------------------|---|
| <b>Specific Outcomes</b> | Botany students are;  |
| PSO 1                    | Identifying different resources helpful for human life and acquiring knowledge about importance of environment. |
| PSO 2                    | Identifying different groups of plants  |
| PSO 3                    | Acquiring knowledge about inheritance, biochemical and metabolic activities.                                    |
| PSO 4                    | Development of horticultural skill.   |

### **Programme Specific Outcomes (PSO): B.Sc. (Chemistry)**

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | After successful completion of three year degree program in Chemistry students are;                 |
| PSO 1                              | Developing the ability to apply the principles of Chemistry   |
| PSO 2                              | Appreciate the achievement in Chemistry and to know the role of Chemistry in nature and in society. |
| PSO 3                              | Develop skills in handling the apparatus and chemicals properly                                     |
| PSO 4                              | Exposed to the different processes used in industries and their applications                        |

### **Program Specific Outcomes (PSO): B.Sc.(Physics)**

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | After successful completion of three year degree program in Physics students are;   |
| PSO 1                              | Identifying and describing physical systems with their professional Knowledge.  |
| PSO 2                              | Getting knowledge of general physics like sound, wave, friction, forces and laws of motion and use of mathematics.          |
| PSO 3                              | Getting knowing about the light and its importance in life, its characteristics, Properties and use in various instruments. |
| PSO 4                              | Learning about concepts of nuclear physics and nuclear energies and importance of their use for mankind.                    |



## Programme Specific Outcomes (PSO): B. Sc. (Electronics)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | After successful completion of three year degree program in <b>Electronics</b> students are;                            |
| PSO 1                              | Getting opportunities to acquire sound knowledge of Electronics science and technology.                                 |
| PSO 2                              | Getting opportunities to become researchers and developers to satisfy the needs of the core Electronics Industry        |
| PSO 3                              | Getting opportunities to the students to formulate, analyze and solve real life problems faced in Electronics Industry. |
| PSO 4                              | Learning the latest trends in Electronics.  |

## Programme Specific Outcomes (PSO): B.Sc. (Mathematics)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | After successful completion of three year degree program in Mathematics students are;                                     |
| PSO 1                              | Getting ability to calculate and reason to design complex and critical financial models for Bank and Insurance Companies. |
| PSO 2                              | Getting ability to make critical observations.  |
| PSO 3                              | Getting ability to accurately organize, analyze and interpret data  |
| PSO 4                              | Developing the mathematical logic which is very useful for solving mathematical reasoning problems.                       |

## Program Specific Outcomes (PSO): B.Sc. (Statistics)

|                                  |  |
|----------------------------------|--|
| <b>Program Specific Outcomes</b> | After successful completion of three year degree program in Statistics students are;   |
| PSO 1                            | Applying statistics in various walks of life.  |
| PSO 2                            | Acquiring ability to apply various statistical tools to research problems.   |
| PSO 3                            | Understanding how to collect, present, analyze and interpret the data. Application of various distributions to real life situation |
| PSO 4                            | Acquiring ability to analyze the data by using MS-Excel  |

## Program Specific Outcomes (PSO): B. Sc. (Zoology)

|                                    |  |
|------------------------------------|--|
| <b>Programme Specific Outcomes</b> | After successful completion of three year degree program in Zoology students are;  |
| PSO 1                              | Imparting the knowledge of animal science and to use the knowledge in their daily life.  |
| PSO 2                              | Getting aware of natural resources and environment.  |
| PSO 3                              | Applying knowledge of Zoology for nutrition, agriculture & live stock and providing practical experiences as a part of their learning processes. |
| PSO 4                              | Developing aptitude for scientific work & ability to pursue studies far beyond graduation and take life science as a carrier.                    |

## Program Specific Outcomes: B. Sc. (Computer Science Optional)

|                                    |   |
|------------------------------------|---|
| <b>Programme Specific Outcomes</b> | After successful completion of three year degree program in Computer Science students are;  |
| PSO-1                              | Understanding of the principles and working of the hardware and software aspects of computer systems.   |
| PSO-2                              | Getting ability to Design, implement, test, and evaluate a computer system, component, or algorithm to meet desired needs and to solve a computational problem. |
| PSO-3                              | Enhancing skills and adapting new computing technologies for attaining professional excellence and carrying research.   |

## **Course Outcomes (CO): (B.A. English)**

### **B A I (Old) ( Up to 2017-18)**

#### **Sem I& II: Paper I& II -Optional English**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Getting introduction of literature as a form of art. |
| CO 2                   | Getting Knowledge of different forms of literature.  |
| CO 3                   | Getting introduction of English Literature.          |

### **B A I (CBCS) (With effect from 2018-19)**

#### **Sem I& II: Paper I& II -Optional English**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Getting introduction of literature as a form of art. |
| CO 2                   | Getting Knowledge of different forms of literature.  |
| CO 3                   | Getting introduction of Literature in English.       |

### **BA II (Old) ( Up to 2018-19)**

#### **Sem III& IV: Paper III & V: British Literature (Optional English)**

| <b>Course Outcomes</b> | Students are;                               |
|------------------------|---|
| CO 1                   | Getting Introduction of British Literature. |
| CO 2                   | Understanding English Poetry and Prose.     |

#### **Sem III & IV: Paper IV & VI: Indian English literature (Optional English)**

| <b>Course Outcomes</b> | Students are;                                      |
|------------------------|--|
| CO 1                   | Getting introduction of Indian English literature. |
| CO 2                   | Understanding Indianness in English Literature     |

**BA II (CBCS) (With effect from 2019-20)****Sem III& IV:Paper III& V: Literature and Cinema (Optional English)**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Getting introduction of the relationship between Literature and Cinema. |
| CO 2                   | Developing critical Understanding of film adaptations of literature     |
| CO 3                   | Interpret literary texts through film adaptation                        |

**Sem III & IV: Paper IV & VI: Partition Literature(Optional English)**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Getting introduction of Indian English literature                      |
| CO 2                   | Getting introduction of Literature on the theme of partition           |
| CO 3                   | Getting interpretation and appreciation of partition effect on society |

**Course Outcomes (CO): B.A.III (Special English)****Sem V& VI:Paper VII & XII: Criticism**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Developing critical ability through the Studyingof critical works. |
| CO 2                   | Developing ability to appreciate and analyze literature.           |

**Sem V& VI: Paper VII & XIII: Poetry**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Developing poetic sensibility.                       |
| CO 2                   | Understanding Poetry in English and World Literature |

### Sem V & VI: Paper IX & XIV: Drama

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;                             |
| CO 1                   | Understanding Drama as a form Critically. |
| CO 2                   | Understanding Drama in World Literature.  |

### Sem V & VI: Paper X & XV: Novel

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;                                 |
| CO 1                   | Getting critical insights in Novel as a form. |
| CO 2                   | Understanding Novel in World Literature.      |

### Sem V & VI: Paper XI & XVI: Structure and Function of Language

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Getting systematic Knowledge of Language form and structure |
| CO 2                   | Understanding Literature as Discourse                       |

### Course Outcomes: B.A. (Hindi) B.A. I: Sem I & II Paper I and II

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | After studying Hindi subject, students are;  |
| CO 1                   | Understanding the Hindi Poems and Poets, as well different types of Hindi poems.   |
| CO 2                   | Understanding different aspects of Hindi poems, like Knowledge, skills, etc.   |
| CO 3                   | Becoming familiar with personalities and talents of Hindi authors and poets.   |
| CO 4                   | Becoming familiar with different types of Hindi novels and able to characterize the novel, also grasping the incidences depicted in the novel. |
| CO 5                   | Understanding social, religious, political situations depicted in the novel.   |
| CO 6                   | Getting acquainted with the human values of the novel.   |

**B.A. II : Sem III & IV (Up to 2018-19)****Paper III and IV: Modern Prose**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | After studying Hindi subject, students are ;  |
| CO-1                   | Getting inspired with the greatness values and emulates it in life.   |
| CO-2                   | Understanding the essential values live a family and matrimony life.  |
| CO-3                   | Understanding the men dominating mentality and helplessness of women and understanding the importance of financial independence of women. |
| CO-4                   | Getting inspired by and evade from the situation arises due to misunderstanding.  |
| CO-5                   | Becoming familiar with hypostatic discussion of plays.  |
| CO-6                   | Understanding the reality of democratic system.   |
| CO-7                   | Getting acquainted with the human values of the novel.  |

**Paper IV and VI: Medieval and Modern Poetry**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | After studying Hindi subject, students are ;                                     |
| CO-1                   | Grasping the thoughts related moral values of Sant.                              |
| CO-2                   | Understanding the thoughts of NirgunSantKaviKabir and his devotional sentiments. |
| CO-3                   | Understanding the Adiantum of Krishna described by Surdas.                       |
| CO-4                   | Getting acquainted by non-violence, peace and mercy in life.                     |
| CO-5                   | Getting familiar with the Indian culture of courtesy and honor wards guests.     |
| CO-6                   | Understanding the symbolical description in poems.                               |
| CO-7                   | Getting acquainted with the human values of the novel.                           |

**B.A. II : CBCS (With effect from 2019-20)****Sem III Paper III****Asmita Mulak Vimarsh and Hindi Literature**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | After studying Hindi subject, students are ;                                 |
| CO-1                   | Grasping the knowledge of nature, principles and types of short story.       |
| CO-2                   | Understanding the short stories comparatively and critically.                |
| CO-3                   | Understanding the critical teaching in other genres of the literature.       |
| CO-4                   | Getting acquainted with the relevance of short stories and other literature. |

## Sem III Paper IV

### Hindi Saint Poetry and Naional Poetry

| Course Outcomes | After studying Hindi subject, students are ;                                  |
|-----------------|---|
| CO-1            | Understanding the medieval Hindi poets  |
| CO-2            | Grasping the knowledge of various   |
| CO-3            | Understanding the nature of thoughts of Saint-Poet                            |
| CO-4            | Understanding the childhood description of Lord Krishna depicted by Surdasa . |

## Sem IV Paper V

### Career-oriented Hindi

| Course Outcomes | After studying Hindi subject, students are ;                                     |
|-----------------|--|
| CO-1            | Getting the imaginative power as well as interest and ability to think in Hindi. |
| CO-2            | Getting acquainted with the skill of listening and writing in Hindi.             |
| CO-3            | Grasping the skill of communicating in Hindi in business and services            |
| CO-4            | Getting acquainted with the career-oriented skill and education                  |

## Sem IV Paper V

### Career-oriented Hindi

| Course Outcomes | After studying Hindi subject, students are ;                                     |
|-----------------|--|
| CO-1            | Getting the imaginative power as well as interest and ability to think in Hindi. |
| CO-2            | Getting acquainted the skill of listening and writing in Hindi.                  |
| CO-3            | Grasping the skill of communicating in Hindi in business and services            |
| CO-4            | Getting acquainted the career-oriented skill and education                       |

## **Sem IV Paper VI**

### **Asmita Mulak Vimarsh and Hindi Poetry**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | After studying Hindi subject, students are ;  |
| CO-1                   | Understanding the Hindi poets   |
| CO-2                   | Grasping the skill of reading, writing and listening in Hindi   |
| CO-3                   | Understanding the knowledge of various genres of the literature and developing interest in Hindi literature |
| CO-4                   | Getting responsibility towards the moral and national values  |

### **Course Outcome (B.A. HINDI)**

#### **B.A.III Sem V and VI: Paper No. VII and XII**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO-1                   | Understanding the terrorism and communalism.   |
| CO-2                   | Getting inspired with the humanity.  |
| CO-3                   | Understanding the problems of depressed class.   |
| CO-4                   | Recognizing the annoyance and discomfort of women and understanding the theoretical Approach of woman biography. |
| CO-5                   | Understanding the dalitsry writer, translator, and a gaiter socialist form of Kausalya Basantri.                 |
| CO-6                   | Understanding cast-subcast system and mannerism of depressed class.  |
| CO-7                   | Understanding the terrorism and communalism.   |

#### **B.A.III Sem V and VI: Paper No. VIII and XIII**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Getting acquainted with the Knowledge of Indian and foreign review theories.                            |
| CO 2                   | Understanding various types of Hindi criticism.   |
| CO 3                   | Understanding different approaches of Hindi poems and acquiring the ability of poignancy of literature. |
| CO 4                   | Getting information of purpose of literature.   |
| CO 5                   | Getting acquainted with poetic inspiration.   |



**B.A.III Sem V and VI: Paper No. IX and XIV**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Getting introduction of the differentiation of period of the Hindi literature and its careers.   |
| CO 2                   | Understanding the main propensity and periodical Development of Hindi literature.                |
| CO 3                   | Getting introduction of different forms of prose literature.                                     |
| CO 4                   | Understanding the heuristic, devotional, romantic, moral, modal, and recent forms of Hindi poems |

**Course Outcomes: B.A. (Marathi)****B.A.I: sem I & II**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Marathi degree holders are;                                     |
| CO 1                   | Understanding the interrelation between literature and society. |
| CO 2                   | Understanding the nature of language and literature.            |
| CO 3                   | Understanding the skills of literary criticism.                 |
| CO 4                   | Understanding the essay writing skills.                         |

**Course Outcomes: B.A. (Marathi)****B.A.II: sem III & IV**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Marathi degree holders are;                                 |
| CO 1                   | Understanding the medieval Marathi language and literature. |
| CO 2                   | Understanding the contemporary literary works.              |
| CO 3                   | Acquiring the skills of translation.                        |
| CO 4                   | Getting acquainted with the oriental poetry.                |

**Course Outcomes: B.A. (Marathi)****B.A.III- Poetry**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Marathi degree holders are;                            |
| CO 1                   | Getting Acquainted with oriental poetry.               |
| CO 2                   | Understanding the nature and features of poetry.       |
| CO 3                   | Creating the skill of critical appreciation of a poem. |
| CO 4                   | Developing the poetic devices and their usages.        |

### B.A.III- Linguistics

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Marathi degree holders are;                            |
| CO 1                   | Getting acquainted with modern linguistics.            |
| CO 2                   | Understanding origin, nature and function of language. |
| CO 3                   | Get information about phonetics.                       |
| CO 4                   | Enhancing the interest in Marathi language.            |

### .B.A.III- Medieval Marathi Literature

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Marathi degree holders are;   |
| CO 1                   | Introducing of the historical survey of medieval Marathi literature.            |
| CO 2                   | Understanding origin, nature and function of language                           |
| CO 3                   | Getting introduction of the literary forms in medieval literature.              |
| CO 4                   | Getting explanation of the trends and structure of medieval Marathi literature. |

### Course Outcomes: Geography

#### B. A. Part-I (Old) (up to 2017-18)

#### Sem I: Paper-I Geomorphology

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO1                    | Exploring the broader perspective of scope and philosophy as well as Knowing the different dimensions of Geomorphology and are becoming aware about the different theories of evolution of land and water bodies on the earth surface. |
| CO 2                   | Knowing perspective wards the 'Earth as a whole' changing with the endogenetic and exogenetic processes that are uninterruptedly going on within and on the earth surface in order to shape the earth crust.                           |

#### Paper-II : Climatology

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Exploring the broader perspective of composition and structure of the Atmosphere with weather elements and getting Knowledge about the basic concepts of Global distribution of temperature and Pressure belts. |
| CO 2                   | Knowing the perspective wards the Monsoon Winds and its behavior and astonishingly becoming aware about the, Thermograph, Barograph, and Rain gauge and their application in geography.                         |

## B. A. Part-I (CBCS) (with effect from 2018-19)

### Sem I: Paper-I -Physical Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Exploring the broader perspective of scope and philosophy as well as Knowing the different dimensions of Physical geography.  |
| CO 2            | Getting Knowledge about the basic concepts of climatology, energy bud, Getting, wind systems accompanied with the endogenetic and exogenetic processes responsible for shaping the lithosphere. |

### Sem I: Paper-II-Human Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Investigating the broader perspective of scope and philosophies of the Human Geography as well as Knowing the different dimensions of the same. |
| CO 2            | Getting aware regarding migration pattern and process and its consequences in the world with the human settlement and Agriculture as well.      |

## B. A. Part-II (Old) (Up To 2018-19)

### Sem III: Paper-III -Soil Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Getting Knowledge of the basic concepts of Soil morphology and its physico-chemical characteristics.          |
| CO 2            | Getting aware about the degradation process of soil with its causes and consequences.                         |
| CO 3            | Knowing the importance of soil conservation through various mechanical and bio-physical conservation methods. |

### Sem III: Paper-IV -Human Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Receiving Knowledge of the basic concepts of Anthropogeography and race, religion and ethnicity, getting awareness concerning with the racial and religious distributional pattern in the world in general. |
| CO 2            | Getting better insight in the critical population problems in under developed and   |

|  |   |
|--|---|
|  | Developed countries of the world, getting awareness regarding migration pattern and process and its consequences on the global scale. |
|--|---|

### **Sem IV: Paper-V -Oceanography**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Getting better insight in the different ocean water facets viz. salinity, temperature and its distribution in the world oceans, various dimensions of oceanic current and its importance as well. |
| CO 2                   | Knowing that ocean is the most powerful reserve of various resources and obtaining the intrinsic Knowledge about the Wind-rose, Hypsometric curve and Isohaline etc. with their applications.     |

### **Sem IV: Paper-VI -Agriculture Geography**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO1                    | Studying the nature, scope and various determinants of Agriculture.  |
| CO 2                   | Knowing about the crop combination and agricultural productivity as well as green revolution for the obtaining sustainable Development of agriculture. |
| CO 3                   | Obtaining the intrinsic Knowledge about the Line Graph, Bar Graph, Divided Circle and Population pyramid etc. with their applications.                 |

## **B. A. Part-II (CBCS) (with effect from 2019-20)**

### **Sem III: Paper-III -Soil Geography**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Investigating the scope and nature of the soil geography as well as Knowing the different dimensions of the same and have come across the basic concepts of Soil morphology and its physico-chemical characteristics. |
| CO 2                   | Getting aware about the degradation process of soil with its causes and consequences.   |
| CO 3                   | Getting familiarize with the soil profile, soil sample collection ols, chemical analysis of soil and process of vermicomposting formation.  |

### Sem III: Paper- IV -Resource Geography

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Investigating the diverse magnitude of resources in geospatial point of interest and has been enriching, concerning with the distribution, uses and problems of each and individual resources in the world.        |
| CO 2            | Becoming conscious about the limited and existence of non-renewable resources and its traditional as well as modern methods of resource conservation, also improving the insight in the Human Resource Management. |

### Sem IV: Paper-V -Oceanography

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Getting better insight in the different ocean water facets viz. salinity, temperature and its distribution in the world oceans.    |
| CO 2            | Getting intrinsic Knowledge about the Wind-rose, Hypsometric curve and Isohaline etc. with their applications in different fields. |

### Sem IV: Paper-VI -Agriculture Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Improving Knowledge of the agricultural land use pattern through the proposed theory of VonThunen as well as Knowing about the crop combination and diversification technique with agricultural problems and sustainable Development of an Agriculture. |
| CO 2            | Getting intrinsic Knowledge about the Line Graph, Bar Graph, Divided Circle and Proportional Square etc. with their applications.   |

### B. A. Part- III (Geography)

### Sem V: Paper:VII -Physical Geography of India

| Course Outcomes | Students are;  |
|-----------------|--|
| CO1             | Getting acquainted with distinct dimensions of India.  |
| CO 2            | Understanding the physical setup of the country.   |
| CO 3            | Focusing on the climate of India and mechanism of monsoon of India.  |
| CO 4            | Getting information about soils in India.  |
| CO 5            | Getting information about navigation in India.   |
| CO 6            | Getting awareness of the magnitude and nature of problem & Prospectus of national & state level on geographical basis. |
| CO7             | Understanding recent trends in regional study.   |

### Sem V: Paper -VIII -Economic Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Studying the basic part of Economic Geography.                                  |
| CO 2            | Getting acquainted with the relationship of human activities with resources.    |
| CO 3            | Studying the core part of subject at global level.                              |
| CO 4            | Studying the global level situation and applying this Knowledge at local level. |
| CO 5            | Getting Knowledge of regional resources.  |

### Sem V: Paper -IX -Research Methodology

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Understanding the concepts in research methodology and Understanding the concepts in research methodology. |
| CO 2            | Getting basic information about research.  |
| CO 3            | Getting familiar with principles and techniques of research.   |
| CO 4            | Understanding the process and value of geographical research.  |
| CO 5            | Developing skills for applying ICT in geography.   |
| CO 6            | Getting aware about research methodology with recent technology.   |

### Sem V: Paper – X -Economic Geography of India

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Getting acquainted with the students with distinct dimensions of India. |
| CO 2            | Understanding the economic setup of the country.                        |
| CO 3            | Focusing on the agricultural product of the country.                    |
| CO 4            | Getting information about air ways, railways, and road ways in India.   |
| CO 5            | Getting information about transport and trade in India.                 |

### Sem VI: Paper – XI -Urban Geography

| Course Outcomes | Students are;  |
|-----------------|--|
| CO1             | Studying the basic of Urban Geography.   |
| CO 2            | Studying the types of Urban Settlements, site & Situation.                       |
| CO 3            | Getting the ideas of relationship between human activities & urban Development.  |
| CO 4            | Capable for handling the present problematic situation in urban and rural areas. |
| CO 5            | Becoming good planner and environmental Conserver.                               |

### Sem VI: Paper – XII -Political Geography

| Course Outcomes | Students are;   |
|-----------------|---|
| CO1             | Getting acquainted with the distinct dimensions of Political Geography.   |
| CO 2            | Getting acquainted with the nature of political Geography.  |
| CO 3            | Getting created awareness about the role of geographical factors in influencing the political character of countries / regions. |
| CO 4            | Evaluating the geo – political issues in the world with special reference India.  |

### Sem VI: Paper – XIII -Map work and Map Interpretation

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Getting introduction of the importance of map making & map Interpretation.  |
| CO 2            | Understanding map, concept of projection and concept of scale.  |
| CO 3            | Provided training in analysis of landforms.   |
| CO 4            | Developed the skill of map Interpretation among the students.   |
| CO 5            | Getting basic information about S.O.I. pomaps and I.M.D. weather maps.  |
| CO 6            | Familiarize with the different cartographic techniques and methods used for representation of demographic and physio-socio-economic database. |

### Sem VI: Paper – XIV -Advanced ols, Techniques and Field Work

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Getting introduction of the importance of field work & advanced Techniques in Geography. |
| CO 2            | Provided training in application of modern techniques in Geography.                      |
| CO 3            | Getting enhanced the skill of in instrumental survey.                                    |
| CO 4            | Understanding the use of computer for analysis of Geographical data.                     |
| CO 5            | Getting basic information about Arial Photographs, Remote Sensing, GIS and GPS.          |

## Course Outcomes (B.A. HISTORY)

### BA I: (Old) (up to 2017-18)

#### Sem I: Paper I- Rise of Maratha History (1600-1707)

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Knowing factual details, hurdles, inspiration behind the foundation of the Swaraj.                              |
| CO 2                   | Understanding overall political situation during 17th century in which Chh. Shivaji Maharaj established Swaraj. |
| CO 3                   | Knowing importance of coronation, Karnataka expedition along with agriculture and industrial aspects.           |

#### Sem II: Paper II: Polity, Society and Economy under the Marathas

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Grasping the administrative aspects and excellence of Swaraj.   |
| CO 2                   | Knowing the policy and contribution of Chhatrapati Shivaji Maharaj.                                     |
| CO 3                   | Understanding the conflict between Maratha and Mughal after the death of Chh Shivaji Maharaj till 1707. |



## BA I (CBCS)(with effect from 2018-19)

### Sem I, Paper I: Rise of Maratha History (1600-1707)

### Sem II, Paper II- Polity, Society and Economy under the Marathas

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Knowing factual details, hurdles, inspiration behind the foundation of the Swaraj.  |
| CO 2                   | Understanding Chh. Shivaji Maharaj achievements in detail till, Karnataka expedition  |
| CO 3                   | Grasping the Maratha war of independence and understanding Chh. Shivaji Maharaj's concept of Swarajya along with ashtapradhan, fort and naval administration. |
| CO 4                   | Evaluating the Indian, Persian and foreign contemporary sources for the Studying of the Maratha power.  |
| CO 5                   | Evaluating economy, society and religion under the Maratha and the work of historians of Maratha history.   |

## BA II: Sem III & Sem IV (Old) (up To 2018-19)

### Paper III & V- World revolution I &II

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Understanding political situation in the world alongwith social, economic and cultural condition. |
| CO 2                   | Evaluating critically and analytically the revolutions taken place.                               |
| CO 3                   | Grasping modern world's History in detail.  |

## Paper IV & VI -Freedom Struggle of India I & II

| Course Outcomes | Students are;   |
|-----------------|---|
| CO1             | Understanding modern Indian History.  |
| CO 2            | Knowing the revolt of 1857 in detail.   |
| CO 3            | Understanding the background of foundation of INC and ideologies of Moderates and extremists. |
| CO 4            | Understanding contribution of Tilak and Gandhi.   |
| CO 5            | Grasping the contribution of revolutionaries and other strands of Indian freedom movement.    |
| CO 6            | Knowing about the work of Praja Parishad movement in Princely States.                         |
| CO 7            | Understanding the contribution of Dr Babasaheb Ambedkar Indian Constitution.                  |

## BA II: Sem III & Sem IV (CBCS) (with effect from June 2019-20)

### Paper III & V- History of Modern Maharashtra (1900 - 1960) & (1960 - 2000)

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Understanding the concept, rise and growth of nationalism and grasping the social problems and social movement.    |
| CO 2            | Knowing the contribution of Maharashtra in national movement.  |
| CO 3            | Sanyukt Maharashtra movement and Knowing the contribution political leaders in construction of modern Maharashtra. |
| CO 4            | Understanding major issues, events, social movements and educational Development of Maharashtra.                   |

## Paper IV & VI-History of Modern India & History of freedom struggle

(1757-1857)

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Understanding how the company rule established in India and colonial policies of rulers and evaluating the colonial economy and drain of wealth. |
| CO 2            | Knowing the causes, course and effects of revolt of 1857.  |
| CO 3            | Understanding the concept, rise and growth of nationalism in India with the establishment of INC.  |
| CO 4            | Grasping the ideology of extremists and moderates with their contribution.   |
| CO 5            | Knowing the Gandhian era and his leadership and understanding the concept of communalism, causes and effects of partition.                       |

## B.A. (HISTORY) III: Sem V and VI:

### Paper VII and XII: History of Ancient India

| Course Outcomes | Students are;   |
|-----------------|---|
| CO1             | Knowing various sources of ancient India.   |
| CO 2            | Understanding the growth and achievements of man in sane age.                                     |
| CO 3            | Aware about various aspects of Harappa civilization and Vedic age.                                |
| CO 4            | Grasping the philosophy of Jainism and Buddhism.  |
| CO 5            | Knowing different aspects of Maurya empire and Gupta period.                                      |
| CO 6            | Understanding the History of dynasties- Satvahana, Shung, Kushan, Hun, Pallav, Chol and Chalukya. |

### **Paper-VIII and XIII:**

#### **Political History of medieval India and Socio-economic and cultural History of medieval India**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Understanding the expansion and nature of Sultanshahi.  |
| CO 2                   | Knowing agriculture, economic, religious and administrative policies of Sultans and their Theory of kingship.                           |
| CO 3                   | Grasping the Iqta system and grasping territorial expansion of Mughals.   |
| CO 4                   | Knowing theory of kingship of Mughals and understanding trade, agriculture, administration of Mughals along with their religious policy |
| CO 5                   | Grasping Mansabdari system.   |

### **Paper IX and XIV:**

#### **India since Independence I&II**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO1                    | Understanding thoroughly challenges before post-independence.  |
| CO 2                   | Evaluating foreign policy of India adopted by prime minister P. Nehru.                                 |
| CO 3                   | Grasping agricultural challenges in detail and understanding various people's struggles and movements. |
| CO 4                   | Grasping the policies of different political parties and achievements of prime ministers of India.     |
| CO 5                   | Evaluating Development of India after independence in the field of                                     |
| CO 6                   | Understanding five year plan and evaluating the success of it.   |

## Paper X and XV:

### History of the Marathas and History of modern Maharashtra

| Course Outcomes | Students are;   |
|-----------------|---|
| CO1             | Understanding Political situation in India in general and in Maharashtra in particular in early 18th century. |
| CO 2            | Grasping the conflict between Maharani Tarabai and Chh. Shahu Maharaj.  |
| CO 3            | Understanding the policies of Bajirao First and his contribution.   |
| CO 4            | Knowing battle of Panipat thoroughly, evaluating downfall of the Maratha Power.                               |
| CO 5            | Understanding Samyukta Maharashtra Movement and Contribution of its leaders in detail.                        |
| CO 6            | Grasping visionary policies of Shri Yeshwantrao Chavan.   |
| CO 7            | Evaluating agricultural and industrial growth, understanding various progressive movements in Maharashtra.    |
| CO 8            | Grasping the cultural Development in various fields thoroughly.   |

## Paper XI & XVI:

### Introduction to Historiography and Application in History

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Understanding the development of historiography from beginning.   |
| CO 2            | Knowing the various traditions of History writing, acquire the Knowledge of basic skills of historiography. |
| CO 3            | Grasping the steps of historical research, understanding various careers in History.                        |

## **Course Outcome (B.A. Political Science)**

### **B.A. I: CBCS (With effect from 2018-19)**

#### **Sem I: Paper I: Introduction to Political Science**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Understanding the meaning and importance of Political Science. |
| CO 2                   | Understanding the sub-disciplines of Political Science.        |
| CO 3                   | Explaining Democracy and State.                                |
| CO 4                   | Understanding key concepts of political science.               |

#### **Sem II: Paper II: Indian Constitution**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Understanding the making of Indian constitution.   |
| CO 2                   | Understanding the philosophy of Indian constitution.                                     |
| CO 3                   | Understanding critically analysing legislature, executive and judiciary system of India. |

### **B.A.I: Old (Up to 2017-18)**

#### **Sem I: Paper I: Indian Government**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Understanding historical background, preamble and making of Indian constitution   |
| CO 2                   | Examining the fundamental rights and duties of Indian citizens with a study of the significance and status of Directive Principles. |
| CO 3                   | Critically analysing the important institutions of India Union : President, Prime minister, Parliament, Judiciary.                  |

## **Sem II: Paper II: Political Process in India**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Assessing the nature of Indian Federalism with focus on Union –State Relations.                         |
| CO 2                   | Critically analysing the important constitutional and legal bodies.                                     |
| CO 3                   | Critically evaluating the Indian party system and looking at the Ideology of dominant national parties. |
| CO 4                   | Critically evaluating the role of various pressure groups in Indian political system.                   |
| CO 5                   | Understanding Major challenges in Indian politics.  |

## **B.A. II: CBCS (With effect from 2019-20)**

### **Sem III: Paper III: Political Process in India**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Assessing the changing nature of Indian Federalism with focus on Union –State Relations.  |
| CO 2                   | Evaluating electoral process in India with focus on Election Commission and review of selected general elections.                             |
| CO 3                   | Critically evaluating the Indian party system and looking at the Ideology of dominant national parties and rise and role of Regional parties. |
| CO 4                   | Understanding Major Issues in Indian politics.  |

### **Sem III: Paper IV: Indian Political Thought Part I**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Analysing the selected thought of Kautilya.           |
| CO 2                   | Analysing the selected thought of Mahatma Phule.      |
| CO 3                   | Analysing the selected thought of Justice M.G.Ranade. |
| CO 4                   | Analysing the selected thought of B.G. Tilak.         |

## **Sem IV: Paper V: Local Self Government**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Understanding historical background of local self government.                         |
| CO 2                   | Examining the Institutions of Rural and Urban local self government.                  |
| CO 3                   | Discussing the constitutional amendments and challenges before local self government. |

## **Sem III: Paper VI: Indian Political Thought Part II**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Analysing the selected thought of M.K.Gandhi.              |
| CO 2                   | Analysing the selected thought of Jawaharlal Nehru.        |
| CO 3                   | Analysing the selected thought of Justice Dr.B.R.Ambedkar. |
| CO 4                   | Analysing the selected thought of M.N. Roy.                |

## **B.A.II: Old (Up to 2018-19)**

### **Sem III: Paper III: Basic Concepts of Political Science**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Explaining nature and scope of Political Science CO 2) Explaining the Concept of State and Nation.                                  |
| CO 2                   | Examining the fundamental rights and duties of Indian citizens with a study of the significance and status of Directive Principles. |
| CO 3                   | Explaining the Concept of Sovereignty and its theories.   |
| CO 4                   | Understanding selective political concepts.   |

### **Sem III: Paper IV: Ancient Political Thought**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Analysing the sources and characteristics of Ancient Indian Political Thought. |
| CO 2                   | Explaining Theories of origin of state and Ancient political bodies.           |
| CO 3                   | Explaining Republic and local self Institutions in ancient India.              |
| CO 4                   | Analysing the Mandal theory.   |



## **Sem IV: Paper V: Local Self Government and Movements in Maharashtra**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Examining the Institutions of Rural and Urban local self government and Discussing the constitutional amendments and challenges before local self government. |
| CO 2                   | Describing and Analysing political and social movements in Maharashtra.   |
| CO 3                   | Describing and Analysing Neo movements in Maharashtra.  |

## **Sem IV: Paper VI: Modern Indian Political Thought**

| <b>Course Outcomes</b> | Students are;                                       |
|------------------------|---|
| CO 1                   | Analysing the selected thought of B.G.Tilak.        |
| CO 2                   | Analysing the selected thought of M.K.Gandhi.       |
| CO 3                   | Analysing the selected thought of Dr.B.R.Ambedkar.  |
| CO 4                   | Analysing the selected thought of Jawaharlal Nehru. |

## **B.A. II: Sem III: Paper I: Social Reforms in India (IDS)**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Understanding the salient features of prominent socio-religious reform movements.                           |
| CO 2                   | Explaining the thought and work of Mahatma Phule for radical transformation of Indian society.              |
| CO 3                   | Knowing the measures taken by Rajashri Shah Maharaj for emancipation of lower classes and women.            |
| CO 4                   | Understanding the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India. |
| CO 5                   | Knowing how the Indian constitution embodies the values of social justice and equality.                     |

## **B.A. II: Sem IV: Paper II: Social Reforms in Maharashtra (IDS)**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Knowing about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prarthana Samaj. |
| CO 2                   | Understanding the contribution of women reformers.   |
| CO 3                   | Explaining the contribution of Social reformers in the fight for social justice.                             |
| CO 4                   | Explaining the role played by educational reforms in transformation of society.                              |

## **B.A.-III: Sem V: Paper VII: Modern Government**

| <b>Course Outcomes</b> | Students are;  |
|------------------------|--|
| CO 1                   | Critically analysing the nature of Unitary and Federal government. |
| CO 2                   | Explaining legislature and its types.                              |
| CO 3                   | Discussing Executive, its types and function of judiciary.         |
| CO 4                   | Critically analysing Election and Types of representation.         |

## **B.A.-III: Sem V: Paper VIII: Public Administration**

| <b>Course Outcomes</b> | Students are;   |
|------------------------|---|
| CO 1                   | Explaining the nature, scope of Public Administration; Politics and Administration; Principles of Organisation. |
| CO 2                   | Discussing the personnel administration.  |
| CO 3                   | Discussing Financial Administration, budgetary process in India and parliamentary financial committees.         |
| CO 4                   | Understanding the concept of good governance, discussing right to information.                                  |

### **B.A.-III: Sem V: Paper IX: International Politics**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Studying the international political system.                |
| CO 2                   | Studying the international & regional organizations.        |
| CO 3                   | Studying the relations of India with neighboring countries. |

### **B.A.-III: Sem V: Paper X: Constitution of United States of America**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Understanding and Critically analysing the political system of U.S.A. |

### **B.A.-III: Sem V: Paper XI: Classical western political thought**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Critically examining classical western political thought with focus on Plato, Aristotle, Machiavelli and Montesquieu. |

### **B.A.-III: Sem VI: Paper XII: Modern Political Concepts**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Studying the modern political concepts: Feminism, Multiculturalism, Environmentalism and Civil Society. |

### **B.A.-III: Sem VI: Paper XIII: Administrative Thinkers**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Critically examining Administrative Thinkers with focus on Henri Fayol, Max Weber, Rensis Likert and F.W.Riggs. |

### **B.A.-III: Sem VI: Paper XIV: Foreign Policy of India**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Analysing determinants and basic principles of India's Foreign Policy. |
| CO 2                   | Evaluating India's relations with U.S.A., Russia, Pakistan and China.  |

### **B.A.-III: Sem VI: Paper XV: Constitution of China & Sweden**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Understanding and Critically analysing the political system of China and Sweden. |

### **B.A.-III: Sem VI: Paper XVI: Modern Western political Thought**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Critically examining Modern Western Political Thought with focus on F.W.Hegel, Karl Marx, Nikolay Lenin and Antonio Gramsci. |

### **Course Outcome(CO): B.A.: Economics**

#### **B.A. I: Sem I: Indian Economy**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Understanding characteristics features of structural changes in Indian Economy.    |
| CO 2                   | Comprehending the nature and impact of new economic reforms on the Indian Economy. |

|      |   |
|------|---|
| CO 3 | Knowing the problem of unemployment, poverty, rising economic and social inequality and problems of regional imbalances in India. |
| CO 4 | Evaluating the changing role of agricultural, industrial and service sector and foreign sector in Indian Economy.                 |
| CO 5 | Measuring the growth, volume, composition and direction of India's foreign capital inflow since 1991.                             |
| CO 6 | Measuring the problems and prospects of cottage and small scale industries, and industrial sicknesses.                            |

### **Course Outcomes(CO): B.A. II: Economics**

#### **B.A.II: Sem III & IV**

#### **Bank and Financial Institutions**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Understanding the Meaning, Function and role of commercial banking.  |
| CO 2                   | Comprehending the procedure of an account opening, operating and closing.  |
| CO 3                   | Knowing the structure, function and role of RBI in economic Development.   |
| CO 4                   | Judging the progress of financial inclusion.   |
| CO 5                   | Evaluating the importance, characteristics and components of the financial market.   |
| CO 6                   | Understanding the role and types of development bank and non banking financial intermediaries.   |
| CO 7                   | Realizing the banking reforms and Basel Norms I and II.  |
| CO 8                   | Identifying recent trends in Indian banking such as E-banking, MRCI clearing, ATMs, Credit card, Debit Card, Travelers cheque, Giftcheque and De-mataccount. |

#### **Macro Economics**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Identifying the basic concept and theories of Macro Economics.   |
| CO 2                   | Inculcating awareness about changing Macro Economics Policies and Theories.  |
| CO 3                   | Understanding various concepts such as GDP, GNP, NNP, Per Capital, Disposable income, Per capita income and national income. |
| CO 4                   | Identifying the factors determining gross domestic product, employment, the general level of prices and interest rate.       |
| CO 5                   | Realizing the law of markets, consumption function and investment function.  |
| CO 6                   | Judging the role of fiscal policy, monetary policy in Developingeconomy.   |
| CO 7                   | Knowing features, phases and theories of trade cycle.  |
| CO 8                   | Evaluating types, merits, demerits of taxes.   |
| CO 9                   | Comprehending the role of public finance in Developingeconomy.   |

## Course Outcome(CO): B.A.: Economics

### B.A.-III: Sem V & VI: Micro Economics

| Course Outcomes | Students are;  |
|-----------------|--|
| CO 1            | Knowing the decision making of consumers.  |
| CO 2            | Identifying the nature of revenue and cost of production.  |
| CO 3            | Comprehending the demand function and production function.   |
| CO 4            | Realizing various production theories.   |
| CO 5            | Clarifying the meaning of marginal, average, total revenue marginal, average and total cost and its implication. |
| CO 6            | Getting awareness of different market structure.   |
| CO 7            | Understanding pricing in different markets.  |
| CO 8            | Judging the factor pricing.  |

### B.A.-III Research Methodology

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Understanding the basic framework of research process and defining various research designs and techniques.                                     |
| CO 2            | Identifying various sources of information for literature review and data collection.   |
| CO 3            | Discussing the ethical dimensions of conducting applied research & Appreciating the components of scholarly writing and evaluating its quality. |
| CO 4            | Knowing various aspects of Research in Economics.   |
| CO 5            | Understanding various data analysis techniques (Mean, Mode, Median, Range, Standard Deviation, Karl Pearson coefficient of correlation).        |
| CO 6            | Ability of interpretation of data and report writing.   |

### B.A.-III History of Economic Thoughts

| Course Outcomes | Students are;   |
|-----------------|---|
| CO 1            | Acquaintance with the economic thoughts of Classical, Nationalist and Socialist Thinkers. |
| CO 2            | Judging the Development of economic thoughts.   |
| CO 3            | Evaluating the Development of Indian economic thoughts.                                   |
| CO 4            | Realizing the economic concepts and theories of Neo-classicals and Indian thinkers        |

### B.A.-III Economics of Development

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO 1                   | Understanding the concept and aspects of economic Development. |
| CO 2                   | Knowing the theories of economic growth & Development.         |
| CO 3                   | Measuring the concept and issues of economic planning.         |
| CO 4                   | Discussing the need, types and necessary conditions of economy |

### **B.A.-III International Economics**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are;   |
| CO 1                   | Elaborating the importance of the Studying International Economics, finding similarities and dissimilarities in inter-regional and international trade. |
| CO 2                   | Knowing the changes in the import-export policies of India, Evaluating various types of exchange rates and its merits and demerits.                     |
| CO 3                   | Discussing the types and effects of tariffs and quotas.   |
| CO 4                   | Judging the function, merits and demerits of Foreign Capital, and International Corporation (IMF, IBRD, W and SAARC).                                   |
| CO 5                   | Realizing the volume, composition and direction of Balance of trade and Balance of payments.  |

### **Course Outcome(CO): (B.A. Sociology)**

#### **B.A. part-I, Semester I&II (Old)**

#### **Paper no-I: - Introduction sociology & Paper No-II:-Principles of Sociology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | understanding the basic concept of Sociology, subject matter & importance of Sociology and origin and Development of sociology |
| CO 2                   | Understanding the Knowledge of human Society and Sociology.  |

#### **B.A. part-I, Sociology (C.B.C.S)**

#### **Sem –I DSC –B2 Sociology Paper-I**

#### **Paper no-I: - Introduction of sociology**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Getting ability to draw attention to the variety of concepts in sociology.  |
| CO 2                   | Studying and clarifying the basic concepts in sociology like social interaction, social structure, society and culture etc. |

**B.A.I Part-I Sem-II Sociology Paper –II**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Studying various theoretical approaches in sociology.                                   |
| CO 2                   | Able to focus on how to apply sociology in various professions and career opportunities |

**B.A. II: Sem –III****Paper -IV: Social Movements in India**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Able to draw attention the variety of ideas and debates about India. |
| CO 2                   | Studying the various social movements in India.                      |

**B.A. II: Sem -IV****Paper V: Gender and Violence**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are                                |
| CO 1                   | Understanding the logic of the violence     |
| CO 2                   | Recognizing how to prevent Gender Violence. |

**B.A. Part-II: Sem –III****Paper III: Social Issues in India**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Getting introduction of major social issues as well as challenges before Indian Society.      |
| CO 2                   | Creating awareness and helping out various remedies regarding present social issues in India. |

**B.A. II Part –II Sem -IV****Paper VI: Sociology of Health**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting introduction of the sociology of health, illness and medical practice. |
| CO 2                   | Studying major disease in India and remedies.                                  |
| CO 3                   | Creating awareness regarding health problems.                                  |

**Scientific Method**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Implementing the scientific approach.                |
| CO 2                   | Getting Introduction the various Scientific methods. |



|      |                                   |
|------|-----------------------------------|
| CO 3 | Developing the research attitude. |
|------|-----------------------------------|

**B.A. Part-II, Semester III&IV**  
**Paper No-III: - Structure of Indian Society**  
**Paper no-V: - Social Change in Indian Society**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting acquainted with the structure and changing nature of Indian society. |
| CO 2                   | Understanding various segments and unity of the Indian society.              |
| CO 3                   | Discussing a brief outline of the making of the Indian Society.              |

**B.A. Part-II, Semester III&IV**  
**Paper No-IV: - Social problems in India**  
**Paper no-VI: - Social problems in Contemporary India**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting introduction of major Social Problems and challenges before the problem of the Indian society. |
| CO 2                   | Getting aware of Contemporary Social Problems in India .   |

**B.A. Part-II, Semester III&IV**  
**IDS Paper: - History of Social reforms in India**  
**IDS Paper: - Social reformers in Maharashtra**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting acquainted with the great social reformers and their contribution the Social change.         |
| CO 2                   | Understanding the ideal thoughts of social reforms in order contribute social evolutionary movement. |

**BA III: SEM V**  
**Paper no. VII: Western Sociological Thinkers**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting Acquainted with the sociological thought of the Pioneers of Sociology. |
| CO 2                   | Making awareness of the perennial of structure versus agency.                  |

**BA III: SEM V****Paper no. VIII: Methods Of Social Research (Part I)**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Imparting basic Research Skills   |
| CO 2                   | Getting Introduction of various steps in conducting research.               |
| CO 3                   | Getting Acquainted with different types of research and issues in research. |

**BA III: SEM V****Paper no. IX: Rural Sociology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Understanding the profile of Rural Community.                                      |
| CO 2                   | Getting introduction of the basic concepts of Rural Community and Rural sociology. |

**Paper no. X: Industrial Sociology**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Understanding the concept and aspects of economic Development.  |
| CO 2                   | Knowing the theories of economic growth & Development.          |
| CO 3                   | Measuring the concept and issues of economic planning.          |
| CO 4                   | Discussing the need, types and necessary conditions of economy. |

**Paper no. XI: Social Anthropology**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Providing the conceptual Understanding about anthropology |
| CO 2                   | Understanding the social aspects of tribes in India.      |

**BA III: SEM VI: Paper no. XII  
Indian Sociological Thinkers**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting introduction of diversification in Indian society through the different ideologies given by various Indian Sociologists. |

**BA III: SEM VI: Paper no. XIII**  
**Methods of Social Research (Part-II)**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Imparting basic Research Skills   |
| CO 2                   | Getting introduction of various steps in conducting research.               |
| CO 3                   | Getting Acquainted with different types of research and issues in research. |

**Paper no. XIV : Rural Sociology in India**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Getting introduction of the Indian Rural Social Structure.                              |
| CO 2                   | Understanding the nature of village studies conducted by different Indian Sociologists. |

**Paper no. XV:Industrial Sociology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Understanding the workers' role and workers' relations with industrial organization. |
| CO 2                   | Analysing the changing trends in industrial relations.                               |

**BA III: SEM VI: Paper no. XVI:**  
**Social Anthropology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Understanding the economic and developmental aspects of tribal's in India. |
| CO 2                   | Analysing the tribal problems.   |

**Course Outcome (B.A. Psychology) (Up to 2017-18)**

**B. A. I: Sem I -Paper I: Introduction to Psychology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting Introduction of the field of psychology.                 |
| CO 2                   | Acquainted with biological bases of behavior.                    |
| CO 3                   | Acquainted with cognitive processes of sensation and perception. |
| CO 4                   | Making familiar with the concept and types of motivation.        |

**B. A. I: Sem I -Paper II: General Psychology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Getting knowledge about emotion, learning and memory.                        |
| CO 2                   | Getting knowledge about nature and theories of personality and intelligence. |

**Course Outcome: (B.A. Psychology) (With effect from 2018-19)**

**B. A. I: Sem I -Paper I: Foundations of Psychology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO 1                   | Making familiar with the field of General Psychology.                            |
| CO 2                   | Getting acquainted with Cognitive Process, States of Consciousness and Learning. |
| CO 3                   | Getting acquainted with Memory Process.  |

**B. A. I General Psychology (Paper II)**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO 1                   | Getting acquainted with the concept of Intelligence, Motivation and Emotions. |
| CO 2                   | Getting acquainted with the concept of Personality.                           |

**Course Outcome (B.A. Psychology) (Up to 2018-19)**

**B. A. II: Sem III -Paper III: Child psychology**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO1                    | Understanding the beginning process of life.                             |
| CO 2                   | Getting Knowledge about the Prenatal, Infancy and Childhood Development. |

**B. A. II: Sem III -Paper IV: Social Psychology**

| <b>Course Outcomes</b> | Students are   |
|------------------------|--|
| CO1                    | Understanding the social process.                                  |
| CO 2                   | Understanding the social perception.                               |
| CO 3                   | Getting acquainted with the Knowledge of Interpersonal Attraction. |
| CO 4                   | Understanding the process of Aggression.                           |

**B. A. II: Sem IV -Paper V:Developmental Psychology**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO1                    | Understanding the Developmental process of Adolescence, Early Adulthood, Middle Adulthood and Late Adulthood. |

**B. A. II: Sem IV -Paper VI:Applied Psychology**

| <b>Course Outcomes</b> | Students are   |
|------------------------|--|
| CO1                    | Understanding the applications of Psychology.                                    |
| CO 2                   | Provided Knowledge about the interpersonal communication process.                |
| CO 3                   | Understanding the concept of Stress and its effects.                             |
| CO 4                   | Getting acquainted with the relationship between Psychology and Physical health. |

**Course Outcome (B.A. Psychology) (With effect from 2019-20)****B. A. II: Sem III -Paper III: Psychology for living**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO1                    | Getting acquainted with the processes of psychology for living. |
| CO 2                   | Getting introduction of the concept of stress.                  |
| CO 3                   | Getting acquainted with mental disorders.                       |
| CO 4                   | Getting introduction of various psychotherapies and their uses. |

**B. A. II: Sem III -Paper IV: Social Psychology**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO1                    | Getting acquainted with processes of social psychology.                                     |
| CO 2                   | Getting introduction of the concept of social perception.                                   |
| CO 3                   | Getting acquainted with the self and self-esteem.   |
| CO 4                   | Getting introduction of concept of attitude formation, persuasion and cognitive dissonance. |

**B. A. II: Sem IV -Paper V:Modern Social Psychology**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO1                    | Getting acquainted with processes of liking (attraction) and sources of liking.     |
| CO 2                   | Getting introduction of the concept of social influence, conformity and compliance. |
| CO 3                   | Getting acquainted the students with understanding pro-social behavior.             |
| CO 4                   | Getting introduction of the concept of aggression, its causes and control.          |

**B. A. II: Sem IV -Paper VI: Applied Psychology**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO1                    | Getting acquainted with processes of personal control, decision making and personal growth. |
| CO 2                   | Getting introduction of the work, play and using leisure time.                              |
| CO 3                   | Getting acquainted with making and keeping friends.   |
| CO 4                   | Getting acquainted with the concept of love and commitment.                                 |

**Course Outcomes (CO): B. Com.**

**B. Com. Part I: Sem I and II**

**PRINCIPLES OF BUSINESS MANAGEMENT:**

**(Compulsory Paper) Paper I & II**

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO 1                   | Understanding the management and administrations in the business.   |
| CO 2                   | Acquiring various theories of management by experts to develop managerial role.   |
| CO 3                   | Implementing of the functions of management viz. planning, organizing, decision making controlling etc. in the business to achieve the goals of business. |
| CO 4                   | Learning motivational aspects, and the promotional keys by motivation in the business.  |
| CO 5                   | Enhancing their qualities through leadership and the ways of business communication.  |
| CO 6                   | Grooming their knowledge and skills as per the change in the business environment with technology.  |

**B. Com. Part I: Sem- I & II**

**FINANCIAL ACCOUNTING: (Compulsory Paper) Paper I & II**

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO 1                   | Understanding the financial accounting process in the business.  |
| CO 2                   | Acquiring the knowledge of financial accounting through accounting for professionals branch , consignment etc. |
| CO 3                   | Able to prepare the financial statements practically with accounting principles, conventions and standards.    |
| CO 4                   | Able to do the practices as accountant, auditor, tax consultants with tally ERP 9.                             |

|      |  |
|------|--|
| CO 5 | Getting encouragement to participate in different commercial and economic activities.  |
| CO 6 | Pursuing for further professional studies such as Chartered Accountants, Company Secretaries, Cost Accountants, Tax consultants etc. |
| CO 7 | Enhancing their qualities through practical accounting system with tally with GST.   |

## B. Com. Part I: Sem I & II

### PRINCIPLES of MARKETING: Paper I &II

| Course Outcomes | Students are   |
|-----------------|--|
| CO 1            | Understanding the concept of marketing management to develop marketing skills.   |
| CO 2            | Learning consumer behavior in the business environment through marketing management.   |
| CO 3            | Gaining the implementation of 4Ps in the marketing mix i.e. product, Price, Place and Promotion in the business.                 |
| CO 4            | Enhancing research qualities, marketing segment, target marketing, positioning in the business after learning marketing aspects. |
| CO 5            | Enhancing their qualities in retailing sector.   |
| CO 6            | As the change in the marketing environment, understanding service marketing and changing scenario.                               |



**B.Com I: Sem I & II**  
**Micro Economics: Paper I & II**

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO 1                   | Knowing the decision making of consumers.   |
| CO 2                   | Identifying the nature of revenue and cost of production.   |
| CO 3                   | Comprehending the demand function and production function.  |
| CO 4                   | Realizing various production theories.  |
| CO 5                   | Clarifying the meaning of marginal, average, total revenue marginal, average and total cost and it's implication. |
| CO 6                   | Awareness of different market structure.  |
| CO 7                   | Understanding pricing in different markets.   |
| CO 8                   | Judging the factor pricing  |

**B. Com. Part II: Sem III & IV**  
**FUNAMENTALS of ENTEPRENEURSHIP: Paper I & II**

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO 1                   | Learning the concept of entrepreneurship as well as qualities, functions and role of entrepreneurship in changing environment.   |
| CO 2                   | Understanding the obstacles in entrepreneurship in business career.  |
| CO 3                   | Knowing the entrepreneurship development concept and different institutions for its development.   |
| CO 4                   | Understanding the concepts of MSMEs, its importance and MSME policies.   |
| CO 5                   | Understanding women entrepreneurship, their problems and remedies to solve the problems as well as getting knowledge of rural entrepreneurship.  |
| CO 6                   | Understanding about project report of small scale units to prepare the project report in his business career and also getting insights of stories of successful entrepreneurs such as Tata, Dhirubai Ambani 'Vargis Kurian, Vitthal Kamat and getting motivated to start the career in business. |

## B.Com - Part II: Semester III & IV

### Corporate Accounting: Paper I & II

| Course Outcomes | Students are  |
|-----------------|---|
| CO 1            | Understanding the issues of shares and debenture with different aspects of market and getting the knowledge of how to make an investment in financial securities in the stock market.                               |
| CO 2            | Getting the knowledge of how to establish a company and to determine the profitability before and after incorporation of the company.   |
| CO 3            | Provided Tally package Training to understand the practical of computersied accounting, helping them to get a job opportunity as an accountant.   |
| CO 4            | Understanding the role of accounting standard 14 in respect of amalgamation and absorption of companies and learning the practical issues related to the companies while amalgamating and absorbing of any company. |
| CO 5            | Learning about valuation of shares with three different methods and determining the value of share after investing as per market.   |
| CO 6            | Getting ability to understand computer application through tally packages and becoming employable in various firms, companies or chartered accountant firms after learning the practical aspects of Tally.          |
| CO 7            | Understanding accounting entries of issue and forfeiture of shares and re-issue of forfeited shares, accounting treatment for redemption of preference shares and buyback of shares.                                |
| CO 8            | Getting ability to demonstrate accounting for issue of debentures and redemption of debentures.   |
| CO 9            | Simulating practice of preparing financial statements as per the provisions of Indian Companies Act 2013.   |
| CO 10           | Practicing the fundamental accounting process on Tally ERP.   |
| CO 11           | Understanding accounting entries of profit/loss prior to incorporation and learning valuing of shares as per distinct methods and differentiating them.   |

**B.Com II: Sem III & IV**  
**Macro Economics: Paper I & II**

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO 1                   | Identifying the basic concept and theories of Macro Economics.   |
| CO 2                   | Getting awareness about changing Macro Economics Policies and Theories.  |
| CO 3                   | Understanding various concepts such as GDP, GNP, NNP, Per Capital, Disposable income, Per capita income and national income. |
| CO 4                   | Identifying the factors determining gross domestic product, employment, the general level of prices and interest rate.       |
| CO 5                   | Realizing the law of markets, consumption function and investment function.  |
| CO 6                   | Judging the role of fiscal policy, monetary policy in developing economy.  |
| CO 7                   | Knowing features, phases and theories of trade cycle.  |
| CO 8                   | Evaluating types, merits, demerits of taxes.   |
| CO 9                   | Comprehending the role of public finance in developing economy.  |

**Course Outcomes (CO): B. Com. III**

**B.Com. III: Sem V & VI**

**MODERN MANAGEMENT PRACTICES: Paper I& II**

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO 1                   | Understanding the modern concepts of management practices about the growing size and complexity of business.  |
| CO 2                   | Understanding the concept of strategic management. Getting known with the corporate governance and social responsibility from different areas of social responsibilities. |
| CO 3                   | Understanding the new concept management like core competencies, competitive Advantage, Six Sigma, Total Quality Management, and Benchmarking.                            |
| CO 4                   | Getting known with modern management and understanding MBO.   |
| CO 5                   | Enhancing their managerial qualities to get employment opportunities in various companies.  |

## B.Com. III: Sem V & VI

### INDUSTRIAL MANAGEMENT: Paper I& II

| course outcomes | Students are   |
|-----------------|--|
| CO 1            | Knowing about work for highest outputs.  |
| CO2             | Understanding the mobilization of best talents, motivation of employees.               |
| CO3             | Improving standard of living, large scale job opportunities.                           |
| CO 4            | Understanding the recent trends in industrial management such as ERP.                  |
| CO 5            | Enriching their knowledge and getting employment opportunity in the industrial sector. |

## B.Com. III: Sem V & VI

### INDUSTRIAL MANAGEMENT (Paper III& IV)

| Course outcomes | Students are  |
|-----------------|---|
| CO 1            | Activating cooperation of human being.  |
| CO2             | Understanding about mobilization of best talents, motivation of employees.                        |
| CO3             | Knowing the knowledge of human resource management.   |
| CO 4            | Understanding human resource planning (HRP), performance appraisal and merit rating.              |
| CO 5            | Enriching their knowledge and getting employment opportunity in the different type of industries. |

## B.Com. III: Sem V & VI

### BUSINESS REGULATORY FRAMEWORK (PAPER I& II)

| course outcomes | Students are   |
|-----------------|--|
| CO 1            | Getting provided with fundamental information about the Indian Legal System related to the business. |
| CO2             | Getting knowledge the laws, functions of the court.  |
| CO3             | Understanding the basic principles of law that apply to business organizations.                      |
| CO 4            | Learning business law in the global context.   |

|      |   |
|------|---|
| CO 5 | Getting provided with knowledge of the legal environment in which a consumer and business operations. |
|------|---|

### B.Com. III: Sem V & VI

#### ADVANCED ACCOUNTANCY (PAPER I, II, III & IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO 1            | Understanding the utility of advanced accountancy, auditing, taxation in practices with accounting softwares.  |
| CO2             | Enlarging their areas of accounting with bank accounting, farm accounting, hire purchase system, insurance claim, taxation in salary, house property, business and profession, aspects of banks, cooperative companies auditing etc. |
| CO3             | Visiting to the banks, insurance companies etc for better understanding of working and functioning.  |
| CO 4            | Encouraging to develop their potential and skill for employment opportunities as accountant, auditor and tax consultant in various firms.  |
| CO 5            | Pursuing the master degrees for advanced and professional knowledge.   |

### B.Com. III: Sem V & VI

#### BUSINESS ENVIRONMENT: Paper I& II

| Course Outcomes | Students are  |
|-----------------|---|
| CO 1            | Understanding characteristic features of structural changes in Indian Economy.  |
| CO2             | Comprehending the nature and impact of new economic reforms on the Indian Economy.  |
| CO3             | Knowing the problem of unemployment, poverty, rising economic and social inequality and problems of regional imbalances in India. |
| CO 4            | Evaluating the changing role of agricultural, industrial and service sector and foreign sector in Indian Economy.                 |
| CO 5            | Measuring the growth, volume, composition and direction of India's foreign capital inflow since 1991.                             |
| CO 6            | Measuring the problems and prospects of cottage and small scale industries, and industrial sicknesses.                            |

## B.COM III: SEM V & VI

### CO -OPERATIVE DEVELOPMENT: Paper I& II

| Course Outcomes | Students are  |
|-----------------|---|
| CO 1            | Understanding the Principles of Co-Operation and Co-Operative Movement in India.  |
| CO2             | Knowing the Structure, types, functions, problems and remedies agricultural and Non – agricultural Credit Co – operative institution. |
| CO3             | Evaluating the impact of Globalization on co – operative Movement.  |
| CO 4            | Getting basic knowledge of co – operative society and its administration.   |
| CO 5            | Understanding New Economic policy since 1991 and co – operative Movement.   |

### Course Outcomes (CO): Botany

B.Sc. I Paper I Diversity in non-vascular plants.  
B.Sc –II Paper V Algae, Fungi, Bryophytes and Industrial application.

| Course Outcomes (CO) | By the end of this Course students are:                            |
|----------------------|--|
| CO -1                | Developing interest in plant diversity.                            |
| CO -2                | Developing skill of identification of Algae, Fungi and Bryophytes. |
| CO -3                | Creating interest in biological industry                           |

B.Sc –I Paper No. II- Plant Biochemistry, physiology and Ecology.  
B.Sc –II Paper No .IV-Plant physiology, Ecology and Horticulture.

| Course Outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO -1                | Acquiring basic knowledge about biochemical, physiological mechanism in plants. |
| CO -2                | Imparting knowledge of Horticulture   |

B.Sc –I Paper III -Diversity in vascular plants. B.Sc –II Paper IV - Pteridophytes, Gymnosperms, Angiosperms and Anatomy.

| Course Outcomes (CO) | By the end of this Course students are:                  |
|----------------------|--|
| CO-1                 | Imparting knowledge of Diversity in vascular plant.      |
| CO-2                 | Imparting knowledge of Characters of vascular plants and |

|      |  |
|------|--|
|      | classification of plants.  |
| CO-3 | Imparting knowledge of External & internal characters of plants. |

**B.Sc –I Paper IV- Cytology, Genetics and utilization of plants.  
B.Sc –II Paper VIII- Cytogenetic and utilization of plants.**

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are   |
| CO -1                       | Knowing about Structure of cell. Resource of plants to fulfill the basic needs.            |
| CO -2                       | Knowing about Types of organisms and characteristics.                                      |
| CO -3                       | Knowing about History, distribution, structure and functions of different cell organelles, |
| CO -4                       | Knowing about Transmission of character Mendelism.   |

**B.Sc. III: Botany**

**.Biology of non vascular plants and paleobotany**

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are                               |
| CO -1                       | Developing skill of identification of Algae, a Fungi and Bryophytes. |
| CO -2                       | Bringing investigation of palaeobotanical study in India.            |
| CO -3                       | Knowing scope and application of Paleobotany                         |
| CO -4                       | Knowing types of fossils, geological time scale.                     |

**Genetics and Analytical Technique in plant science**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are  |
| CO -1                       | Knowing about interaction of genes, multiple alleles and linkage and crossing over. |

|       |  |
|-------|--|
| CO -2 | Knowing about sex linked inheritance, chromosomal aberrations. |
| CO -3 | Understanding principle and techniques of chromatography.      |
| CO -4 | Understanding principle and techniques of microscopy.          |

### Fundamentals of plant physiology and ecology

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are   |
| CO -1                       | Understanding process of photosynthesis, C <sub>3</sub> , C <sub>4</sub> , CAM pathways. |
| CO -2                       | Understanding the process of respiration, growth and developmental process in plant.     |
| CO -3                       | Knowing the biotic and a biotic components of ecosystem.                                 |
| CO -4                       | Knowing food chain & food web in ecosystem.  |

### Plant Biochemistry

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are  |
| CO -1                       | Understanding the biochemistry of cell  |
| CO -2                       | Understanding the different biochemical reaction of biomolecules in plant cell. |
| CO -3                       | Knowing about Composition and structure of biomolecules                         |



## Biology of vascular plants.

| <b>Course Outcomes (CO)</b> | By the end of this Course students are                                   |
|-----------------------------|--|
| CO -1                       | Understanding diversity among vascular plants.                           |
| CO -2                       | Understanding development and life cycle of vascular plants.             |
| CO -3                       | Understanding External and internal structures of vascular plants.       |
| CO -4                       | Understanding Mechanism of pollination and fertilization of angiosperms. |

## Microbiology and plant pathology

| <b>Course Outcomes (CO)</b> | By the end of this Course students are   |
|-----------------------------|--|
| CO -1                       | Understanding the microbes in biological world.  |
| CO -2                       | Understanding Types of microbes and their classification.  |
| CO -3                       | Discussing the plant and pathogen interaction.   |
| CO -4                       | Explaining principles and concepts of host-parasite interactions, systemic and acquired resistance and major signaling pathways. |

## Plant breeding, Biostatistics, Ethnobotany and Horticulture

| <b>Course Outcomes (CO)</b> | By the end of this Course students are                           |
|-----------------------------|--|
| CO -1                       | Implementing the recent techniques in plant improvement.         |
| CO -2                       | Defining the terms in inferential statistics for botany.         |
| CO -3                       | Defining branches and scope of horticulture.                     |
| CO -4                       | Getting Introduction and role of Ethnobotany in modern medicine. |

## Molecular biology and Biotechnology

| Course Outcomes (CO) | By the end of this Course students are knowing about                |
|----------------------|---|
| CO -1                | Defining terminologies related to cell and molecular biology.       |
| CO -2                | Identifying localization and describe all cell organelles.          |
| CO -3                | Describing DNA replication, Transcription and Translation.          |
| CO -4                | Describing Plant Tissue Culture techniques and Genetic Engineering. |

## M. Phil.: Botany course Outcomes

| Course Outcomes (CO) | After acquisition of M. Phil. students are:   |
|----------------------|---|
| CO -1                | Collecting research literature by using data bases.   |
| CO -2                | Presenting the research work to national and international audience through peer reviewed and popular publications. |
| CO -3                | Applying sound research methods and tools to problems in their study area.  |
| CO -4                | Communicating their research clearly and professionally in both written and oral forms.                             |

## Ph. D.: Botany course Outcomes

| Course Outcomes (CO) | After acquisition of Ph. D. students are:   |
|----------------------|---|
| CO -1                | Achieving the highest level of expertise in Botany and application of the Knowledge to address novel and emerging problems. |
| CO -2                | Becoming independent researchers by developing expertise in   |

|       |  |
|-------|--|
|       | their specialization.  |
| CO -3 | Disseminating effectively the results of their research to policy makers within their field and plant science community. |
| CO -4 | Applying experimental and theoretical tools for their further research.  |

**Chemistry: Course Outcomes**  
**B.Sc.-I: Semester-I**  
**Inorganic Chemistry: (Paper- I)**

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | After successful completion of three year degree program in Chemistry students are;     |
| CO-1                   | Getting to know the structure of atoms and their principles, details of periodic table. |
| CO-2                   | Knowing various types of ionic bond and ionic compound study.                           |
| CO-3                   | Knowing study of Molecular orbital Theory.  |

**Organic Chemistry: (Paper-II)**

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | After successful completion of three year degree program in Chemistry students are;                      |
| CO-1                   | Understanding the fundamentals of Organic Chemistry.   |
| CO-2                   | Imparting the knowledge of stereochemistry of different organic compounds among the students.            |
| CO-3                   | Studying aromaticity, electrophilic substitution reactions and their mechanism                           |
| CO-4                   | Knowing various method of preparation and chemical reaction of cyclo alkane, cyclo alkene and alkadiene. |

## Semester II

### Physical Chemistry (Paper –III)

|                 |   |
|-----------------|---|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;   |
| CO-1            | Impart the knowledge regarding chemical thermodynamics and feasibility, direction and equilibrium condition of reactions.     |
| CO-2            | Understanding mechanism of reaction and to get optimum conditions for a reaction by utilising the study of Chemical Kinetics. |

### Analytical Chemistry: (Paper-IV)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;                      |
| CO-1            | Provide a basic understanding of the principles , instrumentation and applications of chemical analysis. |
| CO-2            | Study various chromatographic techniques like paper, thin layer, column, and gas chromatography..        |
| CO-3            | Impart basic knowledge regarding titrimetric analysis.   |
| CO-4            | Making aware about water and fertilizer analysis   |

### Physical Chemistry :( Paper-V)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;  |
| CO-1            | Understanding mechanism of reaction and get optimum conditions for a reaction by utilising the study of Chemical Kinetics.                                     |
| CO-2            | Making students capable of understanding redox reactions and to construct electrochemical cells. learn various laws of electrochemistry and their applications |
| CO-3            | Study the properties of liquids like surface tension, viscosity, refractive index and their experimental determination.  |
| CO-4            | Know about surface phenomena like adsorption w.r.t. its characteristics, determination and applications  |

## Industrial Chemistry: (Paper-VI)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;  |
| CO-1            | Providing a basic understanding of the principles, instrumentation and applications of chemical analysis.                                  |
| CO-2            | Studying various chromatographic techniques like paper, thin layer, column, and gas chromatography electrochemistry and their applications |
| CO-3            | Explaining the difference between classical and industrial chemistry, unit operations , unit processes , flow sheets etc.                  |
| CO-4            | Knowing the process of corrosion and how to deal with it by using electroplating.  |
| CO-5            | Getting familiar with the industrial process with respect to paper industry , soaps and detergents etc.                                    |

## Semester-IV Inorganic Chemistry: (Paper-VII)

|                 |   |
|-----------------|---|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;   |
| CO-1            | Knowing study of 14 elements in the periodic table.   |
| CO-2            | Knowing the new productivity.   |
| CO-3            | Knowing the Studying of electronic configuration, oxidation state, colour spectra, and magnetic properties.                           |
| CO-4            | Knowing about the study of solving energies of the metals, semiconductors and superconductors.  |
| CO-5            | Knowing the study of various organometallic compounds is very useful in various fields like agriculture, pesticides, pharmaceuticals. |

## Organic Chemistry :(Paper- VIII)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;        |
| CO-1            | Imparting knowledge about the synthesis, reactivity and applications of carboxylic acids.. |
| CO-2            | Knowing amines and diazonium salts with respect to   |

|      |  |
|------|--|
|      | classification, preparation and applications.                                  |
| CO-3 | Understanding the nomenclature and reactivity of aldehydes, ketones.           |
| CO-4 | Studying the classification, configuration and structure of carbohydrates.     |
| CO-5 | Learning the basic knowledge of conformational analysis of organic compounds.. |

## B.Sc.-III: Semester-V

### Physical Chemistry :( Paper-IX)

|                 |   |
|-----------------|---|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;   |
| CO-1            | Making students capable of understanding redox reactions and to construct electrochemical cells and learning various laws of electrochemistry and their applications. |
| CO-2            | Imparting the concepts of quantum mechanics, like Schrodinger equation and quantum numbers  |
| CO-3            | Learning about interaction between radiation and matter which leads to molecular spectroscopy   |
| CO-4            | Understanding various laws of photochemistry and photophysical processes  |

### Inorganic Chemistry: (Paper-X)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;  |
| CO-1            | Knowing the study of electronic configuration, oxidation state, colour spectra, and magnetic properties.   |
| CO-2            | Studying of co-ordination chemistry needs an understanding of the different terms used further topic covers<br>Werner's theory, EAN, VBT, VSEPR, CFSE, and MO theory |
| CO-3            | Knowing the study of catalyst, non-aqueous solvents and chelation.   |

## Organic Chemistry :(Paper- XI)

|                 |   |
|-----------------|---|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are; |
| CO-1            | Studying about introduction to spectroscopy   |
| CO-2            | Imparting the knowledge of UV, Visible spectroscopy and its application             |
| CO-3            | Understanding IR Spectroscopy and its application.                                  |
| CO-4            | Studying NMR Spectroscopy and its application.                                      |
| CO-5            | Knowing Mass Spectroscopy and its application                                       |
| CO-6            | Solving combined spectroscopic problems   |

## Industrial Chemistry : (Paper-XII)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;  |
| CO-1            | Studying various chromatographic techniques like paper, thin layer, column, and gas chromatography.  |
| CO-2            | Imparting basic knowledge regarding titrimetric analysis.  |
| CO-3            | Getting familiar with the industrial process with respect to sugar industry, soaps and detergents, heavy chemicals production industries etc.. |
| CO-4            | Getting introduction the nano materials with respect to preparation, characterisation, and applications.                                       |

## Semester-VI

## Physical Chemistry :( Paper-XIII)

|                 |   |
|-----------------|---|
| Course Outcomes | After successful completion of three year degree program in Chemistry students should be able;                            |
| CO-1            | Understanding mechanism of reaction and get optimum conditions for a reaction by utilising the study of Chemical Kinetics |
| CO-2            | Knowing about surface phenomena like adsorption w.r.t. its characteristics, determination and application.                |
| CO-3            | Getting the knowledge about Phase equilibria, wrt. one, two and   |

|      |   |
|------|---|
|      | three component systems. study crystal structure by using Bragg's equation.   |
| CO-4 | Developing practical skill regarding chemical kinetics and get acquaint to handle various instruments like potentiometer, conductometer, refractometer, colorimeter, pH meter, viscometer, stalagmometer etc. |

## Inorganic Chemistry: (Paper-XIV)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;                              |
| CO-1            | Knowing that nuclear energy may be boon and bane and know the radioactivity elements in the series of actinides. |
| CO-2            | Coming to know that manufacturing process of iron and steel and study of various methods.                        |
| CO-3            | Knowing that some biological role of alkali and alkaline earth metals, Hb, Mb, and some enzymes.                 |
| CO-4            | Knowing the various types of reaction mechanism of the inorganic co-ordinated compounds.                         |

## Organic Chemistry: (Paper- XV)

|                 |   |
|-----------------|---|
| Course Outcomes | After successful completion of three year degree program in Chemistry students are;                     |
| CO-1            | Making students capable of understanding Name reactions and their mechanism.                            |
| CO-2            | Studying the applications of different reagents in organic synthesis.                                   |
| CO-3            | Imparting the knowledge of different natural products.  |
| CO-4            | Knowing about pharmaceutical chemistry and study of different drugs.                                    |
| CO-5            | Understanding the knowledge of electrophilic addition to carbon carbon double and triple bond compounds |



## Analytical Chemistry: (Paper-XVI)

|                 |  |
|-----------------|--|
| Course Outcomes | After successful completion of three year degree program in Chemistry students should be able                                |
| CO-1            | Studying various chromatographic techniques like paper, thin layer, column, and gas chromatography.                          |
| CO-2            | Imparting basic knowledge regarding titrimetric analysis.  |
| CO-3            | Learning about analytical techniques like potentiometry, conductometry, flame photometry, colorimetry, spectrophotometry etc |
| CO-4            | Knowing about pharmaceutical chemistry and study of different drugs.   |

### Physics

#### Course Outcomes (CO)

B. Sc. I, Semester I (with effect from 2018-19)

#### Physics Paper I: DSC 1 A: Mechanics I

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are:   |
| CO-1                        | Understanding and recognizing scalar and vector physical quantities.  |
| CO-2                        | Understanding and applying the ordinary differential equations to physical Problems   |
| CO-3                        | Understanding the Newton's laws of motion.  |
| CO-4                        | Understanding the conservation of momentum and energy and related physical phenomenon.  |
| CO-5                        | Understanding the rotational motion, moment of inertia and able to determine the M. I. of various systems in rotational motion. |

#### Physics Paper II: DSC 2 A: Mechanics II

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are:                                 |
| CO-1                        | Applying gravitational laws to a physical problem                       |
| CO-2                        | Recognizing simple harmonic motions in nature and solve their equations |

|      |  |
|------|--|
| CO-3 | Understanding properties of matter (e.g. elasticity and surface tension) and apply this knowledge to physical problem. |
|------|--|

## B. Sc. I, Semester II

### Physics paper III      DSC B: Electricity and Magnetism I

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are:   |
| CO-1                        | Getting ability to Prove and apply Gauss, Stokes and Greens theorems                                  |
| CO-2                        | Understanding electrostatic field and potential and determine the same for different physical bodies. |
| CO-3                        | Getting knowledge of Capacitor and its types.   |

### Physics Paper IV      DSC 2B: Electricity and Magnetism II

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are:  |
| CO-1                        | Solving and building desired A. C. circuits  |
| CO-2                        | Getting knowledge of magnetic effect of electric current and different magnetic materials.     |
| CO-3                        | Understanding how different energies will covert in to electrical energy using magnetic field. |
| CO-4                        | Getting ability of understanding Maxwell's equations and its applications.                     |

## Course outcomes (CO)

### B. Sc. II, Semester III (with effect from 2019-20)

### Physics Paper V: General Physics, Sound and Acoustics

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are:  |
| CO-1                        | Getting ability to prove and apply Gauss, Stokes and Greens theorems   |
| CO-2                        | Understanding processional motion and its applications   |
| CO-3                        | Understanding Properties of matter (e.g. elasticity and viscosity) and apply this knowledge to physical problem. |
| CO-4                        | Understanding acoustic transducers, their working and applications.  |
| CO-5                        | Understanding acoustics of a building and its applications.  |

## Physics Paper VI: Electronics and semiconductor devices

| course outcomes (CO) | By the end of this Course students are:                                    |
|----------------------|--|
| CO-1                 | Understanding CRO and its uses.  |
| CO-2                 | Understanding and Built different oscillators                              |
| CO-3                 | Understanding in detail the OP-AMP, feedback mechanism and uses of Op-amp. |
| CO-4                 | Understanding and design different logic circuits.                         |
| CO-5                 | Understanding two transistors viz UJT and FET and their uses.              |

### B. Sc. II, Semester IV:

#### Paper VII Optics

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO-1                 | Acquiring the basic concepts of wave optics   |
| CO-2                 | Describing how light can constructively and destructively interfere   |
| CO-3                 | Explaining why a light beam spreads out after passing through an aperture   |
| CO-4                 | Summarizing the polarization characteristics of electromagnetic waves   |
| CO-5                 | Appreciating the operation of many modern optical devices that utilize wave optics.   |
| CO-6                 | Understanding optical phenomena such as polarization, birefringence, interference and diffraction in terms of the wave model. |
| CO-7                 | Analyzing simple examples of interference and diffraction phenomena.  |
| CO-8                 | Getting familiar with a range of equipment used in modern optics.   |

### B. Sc. II, Semester IV:

#### Paper VIII Relativity and Modern Physics

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Acquiring the knowledge of special theory of relativity.                         |
| CO-2                 | Understanding the wave particle duality and its quantum mechanics.               |
| CO-3                 | Understanding vector atom model and different quantum numbers.                   |
| CO-4                 | Understanding different nuclear energy sources and process of energy production. |

## B. Sc. III Semester V

### PAPER IX: MATHEMATICAL & STATISTICAL PHYSICS

| course outcomes (CO) | By the end of this Course students are:                                      |
|----------------------|--|
| CO-1                 | Understanding micro and macro canonical ensembles, phase space, state.       |
| CO-2                 | Knowing about how to distinguish between Mathematical & Statistical Physics. |
| CO-3                 | Improving the mathematical skills to solve to problems in physics.           |
| CO-4                 | Understanding different types of differential equations & their solutions.   |

### PAPER X: QUANTUM MECHANICS

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Understanding the idea of wave function & uncertainty relations.                     |
| CO-2                 | Getting some concepts of physics by quantum mechanics.                               |
| CO-3                 | Solving problems on barrier potential well, one and three dimensional potential well |
| CO-4                 | Understanding the Schrodinger's equation for hydrogen atom.                          |

### PAPER XI: CLASSICAL MECHANICS

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Understanding the concept of force, constraints, Newton's laws of motions.           |
| CO-2                 | Knowing about Formulation of Lagrangian equation of motion and solution of problems. |
| CO-3                 | Understanding the difference between Classical & Quantum Mechanics.                  |
| CO-4                 | Understanding Euler's Theorem and its equation of motion.                            |

### PAPER XII: ATOMIC, MOLECULAR SPECTRA & ASTRONOMY AND ASTROPHYSICS

| Course Outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO-1                 | Developing a basic understanding of physics of atoms and molecules: definitions, units, laws and rules. |
| CO-2                 | Identifying atomic effect such as Zeeman effect, Paschen-Back effect                                    |

|      |  |
|------|--|
|      | and Raman effect.  |
| CO-3 | Understanding of basic concepts of Astronomy & Astrophysics                                      |
| CO-4 | Analyzing the spectra of diatomic molecules such as electronic, rotational, Vibrational spectra. |

### B. SC. III SEM VI

#### PAPER XIII: NUCLEAR AND PARTICLE PHYSICS

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are:                            |
| CO-1                        | Understanding the size of nucleus and all its properties.          |
| CO-2                        | Knowing various method of accelerating various types of particles. |
| CO-3                        | Understanding the construction & working of Nuclear Detectors.     |
| CO-4                        | Understanding the different Nuclear Energy Levels.                 |

#### PAPER XV: ELECTRODYNAMICS & ELECTROMAGNETIC WAVES

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are:  |
| CO-1                        | Knowing the basic concepts about Electrodynamics & Electromagnetic waves.            |
| CO-2                        | Understanding concept of Poission's & Laplace's equations and its Solutions.         |
| CO-3                        | Understanding the various laws like Faraday's Law, Lenz's Law and BiotSavarot's Law. |
| CO-4                        | Learning the basic Maxwell's equation and its physical significance.                 |

#### Paper XIV: Energy studies and Material Science

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are:   |
| CO-1                        | Understanding basics of renewable energy sources  |
| CO-2                        | Understanding Physics and mathematics of wind turbine generator.  |
| CO-3                        | Understanding conversion of solar energy into electric energy, photovoltaic cell, solar PV system and solar potentials. |
| CO-4                        | Understanding different types of disorder in the crystalline solids and it's important.                                 |
| CO-5                        | Gaining basic knowledge of superconductivity.   |

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are:  |
| CO-1                        | Developing a clear concept of the crystal classes and symmetries                         |
| CO-2                        | Understanding the relationship between the real and reciprocal space                     |
| CO-3                        | Acquiring ability of Calculating the Braggs conditions for X-ray diffraction in crystals |
| CO-4                        | Understanding of electronic and vibrational properties of solid state systems            |
| CO-5                        | Understanding Band theory of solids and use in different physical phenomenon.            |
| CO-6                        | Understanding construction, working and applications of IC 555.                          |

### Electronics: Course Outcomes (CO)

#### B. Sc. Part – I Pre-revised Syllabus (Before 2018-19)

#### Semester – I: Paper – I (Basic Electronics)

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Understanding all types passive and active elements along with their specifications. |
| CO-2                        | Understanding fundamentals of ac, dc signals and batteries.                          |
| CO-3                        | Understanding network theorems and their applications.                               |
| CO-4                        | Understanding different types of circuit laws, rules and motors.                     |

#### Paper – II (Semiconductor Devices)

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are :  |
| CO-1                        | Understanding construction and working of PN diode, Zener diode, light emitting diode and seven segment displays.                                   |
| CO-2                        | Understanding construction and working of BJT, its configurations and definition of current gains.  |
| CO-3                        | Understanding the concept of ac, dc load lines, different types of transistor's biasing methods and to study the expressions for stability factors. |
| CO-4                        | Understanding construction, working of JFET, MOSFETS, their I-V characteristics and applications.   |

**Semester – II**  
**Paper – III (Basic Digital Electronics)**

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Understanding different types of number systems, their interconversions and different types of binary codes. |
| CO-2                        | Understanding different types of logic gates and TTL and CMOS logic families,                                |
| CO-3                        | Understanding laws of Boolean Algebra and K-maps.  |
| CO-4                        | Understanding arithmetic circuits and computer organization.   |

**Paper – IV (Electronic Circuits)**

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are :  |
| CO-1                        | Understanding working of rectifiers, their performance and filters.                           |
| CO-2                        | Understanding working of CB, CE, CC amplifiers, and their coupling methods.                   |
| CO-3                        | Understanding power amplifiers Class – A, B, AB & C types and also push-pull amplifiers.      |
| CO-4                        | Understanding feedback circuits and working of sinusoidal oscillators and their applications. |

**Course Out comes**

**B. Sc. Part – II Pre-revised Syllabus (Upto 2018-19)**

**Semester – III Paper – V (Digital Electronics)**

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are :                                      |
| CO-1                        | Understanding design and working of Flip-flops.                               |
| CO-2                        | Understanding design of counters and working of different types of counters.  |
| CO-3                        | Understanding shift registers, their types and working of buffer and latches. |

|      |  |
|------|--|
| CO-4 | Understanding construction and working of different types of Multiplexers, De- multiplexers and encoders & decoders. |
|------|--|

### Paper – VI (Introduction to Microprocessor 8085)

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are :                                     |
| CO-1                        | Understanding the basics of microprocessor 8085 along with its architecture. |
| CO-2                        | Understanding the instruction set of 8085.                                   |
| CO-3                        | Understanding different facilities in 8085.                                  |
| CO-4                        | Studying assembly language programming of 8085.                              |

### Paper – VII (Linear and wave shaping circuits)

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are :  |
| CO-1                        | Understanding concept of two port networks and their interconversions.                    |
| CO-2                        | Understanding the concept of series and parallel resonance.                               |
| CO-3                        | Understanding working of linear and non-linear wave shaping circuits.                     |
| CO-4                        | Understanding construction and working of multivibrators using BJT and also using IC 555. |

### Paper- VIII (Microprocessor interfacing and Microcontroller 8051)

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are :  |
| CO-1                        | Studying IC 8255 and its operating modes.   |
| CO-2                        | Understanding interfacing of EPROM with microprocessor 8085.                                |
| CO-3                        | Studying the basics, block diagram and architecture of 8051 along with its instruction set. |
| CO-4                        | Studying different types of interrupts and timers of 8051.                                  |



## **B. Sc. Part – I(CBCS)**

### **Semester – I Paper – I (Network Analysis & Analog Electronics)**

| <b>course outcomes (CO)</b> | By the end of this Course students are :   |
|-----------------------------|--|
| CO-1                        | Understanding all components and Understanding basic circuit theory.               |
| CO-2                        | Understanding network laws and theorems.   |
| CO-3                        | Understanding h, y, z parameters and their inter conversions.                      |
| CO-4                        | Understanding working of PN junction diode, rectifiers and regulated power supply. |

### **Semester – I Paper – II (Digital Integrated Circuits)**

| <b>course outcomes (CO)</b> | By the end of this Course students are :   |
|-----------------------------|--|
| CO-1                        | Understanding different number systems and their inter conversions.                  |
| CO-2                        | Understanding different logic gates and Boolean Algebra to simplify logic equations. |
| CO-3                        | Understanding different arithmetic and combinational circuits.                       |

### **Semester – II Paper – III (Analog Electronics Circuits)**

| <b>Course outcomes (CO)</b> | By the end of this Course students are :   |
|-----------------------------|--|
| CO-1                        | Understanding working of BJT, CB, CE & CC configurations and current gains.          |
| CO-2                        | Understanding transistor as an amplifier, concept load line & Q-Point stabilization. |
| CO-3                        | Understanding different multistage amplifiers.                                       |
| CO-4                        | Understanding feedback in amplifier with types.                                      |
| CO-5                        | Understanding different oscillators.   |
| CO-6                        | Understanding the working of unipolar devices.                                       |

## Semester – II Paper – IV

### (Linear & Digital Integrated Circuits)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Understanding sequential circuits viz. Flip flops, shift registers and counters. |
| CO-2                        | Understanding data conversion circuits- ADC & DAC                                |
| CO-3                        | Understanding IC 741 & IC 555 with their specifications and applications.        |
| CO-4                        | Understanding sequential circuits viz. Flip flops, shift registers and counters. |

## B. Sc. Part – II

### Semester – III Paper – V (Communication Electronics)

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :                    |
| CO-1                        | Understanding functioning of basic communication systems.   |
| CO-2                        | Understanding analog modulation & demodulation techniques.  |
| CO-3                        | Understanding satellite communication & navigation systems. |

### Semester – III Paper – VI (Introduction to microprocessor 8085)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :                                   |
| CO-1                        | Understanding microcomputer organization and architecture of $\mu$ P 8085. |
| CO-2                        | Understanding instruction set and programming of $\mu$ P 8085.             |
| CO-3                        | Understanding 8051 family and architecture of $\mu$ C 8051.                |

## Semester – IV Paper – VII

### (Digital modulation and mobile telephone systems)

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :                                    |
| CO-1                        | Understanding analog pulse modulation techniques viz. PAM, PWM & PPM.       |
| CO-2                        | Understanding digital pulse modulation techniques viz. ASK, FSK PSK & BPSK. |

|      |   |
|------|---|
| CO-3 | Understanding mobile telephone system and networks Viz GSM, CDMA, TDMA &FDMA. |
|------|---|

### Semester – IV Paper – VIII

#### (Microcontroller and Embedded Systems)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Understanding addressing modes and instruction sets of $\mu$ C 8051.   |
| CO-2                        | Understanding facilities in $\mu$ C 8051 viz. timer, time delay calculations in different modes and serial communications. |
| CO-3                        | Understanding programming of $\mu$ C 8051 and real world interfacing.  |

### B. Sc. Part – III

#### Semester – V Paper – IX (Linear Integrated Circuits)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Understanding linear IC's and amplifier.   |
| CO-2                        | Understanding Op-amp as a analog system and its applications.                        |
| CO-3                        | Understanding precision Rectifier and active filters an design of different filters. |
| CO-4                        | Understanding PLL &design of power supply using different Regulator ICs.             |

#### Semester – V Paper – X (Communication System I)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Understanding fundamentals of communication systems, types and different applications. |
| CO-2                        | Understanding digital pulse modulation techniques viz. ASK, FSK PSK &BPSK.             |
| CO-3                        | Understand analog pulse modulation techniques viz. PAM, PWM &PPM.                      |
| CO-4                        | Understanding Antenna via there different parameters and Radio wave propagations.      |
| CO-5                        | Understanding Radio receivers and main blocks of TV transmitter and receiver.          |

## Semester – V Paper – XI

### (8051 Microcontroller Interfacing and Embedded C)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :                                 |
| CO-1                        | Understanding serial communication with 8051 using different techniques. |
| CO-2                        | Understanding embedded C programming skills for 8051.                    |
| CO-3                        | Understanding 8051 and its real world interfacing.                       |
| CO-4                        | Understanding Real time applications of 8051.                            |

## Semester – V Paper – XII

### (Power Electronic Devices and Applications)

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :  |
| CO-1                        | Understanding construction, characteristics and working of power solid state devices. |
| CO-2                        | Understanding single and three phase voltage controllers.                             |
| CO-3                        | Understanding controlled and uncontrolled rectifiers.                                 |

## Semester – VI Paper – XIII

### (Industrial processes control and PLC program)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Getting introduction to control system.  |
| CO-2                        | Understanding components of control system.                                      |
| CO-3                        | Understanding introduction of PLC its application and Advance control Algorithm. |
| CO-4                        | Understanding Ladder programming basics.   |

## Semester – VI Paper – XIV (Communication System II)

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :                              |
| CO-1                        | Understanding telephone handsets and its working features in details. |

|      |  |
|------|--|
| CO-2 | Understanding modern communication devices and system.   |
| CO-3 | Acquiring detailed study of optical fiber communication and satellite communication.   |
| CO-4 | Understanding information broadcasting using digital communication and shift keying techniques.  |
| CO-5 | Getting introduction of need of wireless communication system and study of different technologies devices viz. 4G, Bluetooth, RFID. Understanding different multiplexing and multiple access techniques. |

### Semester – VI Paper – XV

#### (Advanced microcontroller Architecture PIC)

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :   |
| CO-1                        | Getting introduction of PIC controller and over views of different IC series with internal structure.  |
| CO-2                        | Understanding instruction set of PIC 18XXX and design of program.  |
| CO-3                        | Understanding facilities available in PIC 18FXXX,<br><br><ul style="list-style-type: none"> <li>-Interrupt programming, Serial Programming</li> <li>-Real world Interfacing</li> </ul> |

### Semester – VI Paper – XVI (Electronics Instrumentation)

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | By the end of this Course students are :                                |
| CO-1                        | Understanding measurement and instrumentation system.                   |
| CO-2                        | Understanding various active and passive transducer and sensors.        |
| CO-3                        | Understanding instrumentation amplifier and signal conditioning system. |

## MATHEMATICS: course outcomes (CO)

### B.Sc-I Paper I (up to 2018)

(Complex number & Algebra), Paper II (Calculus), Paper III (Geometry) Paper IV (Differential Equations)

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | Students are;  |
| CO-1                        | Developing the interest towards mathematics.   |
| CO-2                        | Creating the relationship of mathematics with other subjects.  |
| CO-3                        | Developing the understanding and fluency in mathematics thorough inquiry and connecting mathematical concepts. |
| CO-4                        | Developing the knowledge of applications of derivative and integration, etc.                                   |

### B.Sc.-I Paper I Sem I (CBCS, with effect from 2018-19)

**Differential Calculus Course code: DSC -5A**

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | students are;   |
| CO-1                        | Understanding Hyperbolic functions and finding the relation between hyperbolic and circular functions |
| CO-2                        | Understanding use of nth derivatives to find higher order derivatives                                 |
| CO-3                        | Understanding use of Leibnitz theorem   |
| CO-4                        | Understanding Lagrangze method undetermined multipliers and to find maxima, minima of functions       |

### B.Sc.-I Paper I Sem II (CBCS, with effect from 2018-19)

**Calculus Course code: DSC -6A**

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | students are;   |
| CO-1                        | Understanding Hyperbolic functions and finding the relation between hyperbolic and circular functions |
| CO-2                        | Understanding use of nth derivatives to find higher order derivatives                                 |
| CO-3                        | Understanding use of Leibnitz theorem   |
| CO-4                        | Understanding Lagrangze method undetermined multipliers and find maxima, minima of functions.         |

**B.Sc.-I Paper III Sem II (CBCS, with effect from 2018-19)**

**Differential Equation Course code: DSC -5B**

| <b>course outcomes (CO)</b> | students are;   |
|-----------------------------|---|
| CO-1                        | Understanding meaning of differential equation ,it's order and degree.              |
| CO-2                        | Understanding various types of differential equation depending on order and degree. |
| CO-3                        | Evaluating how to find solution of differential equations.                          |

**B.Sc.-I Paper IV Sem II (CBCS, with effect from 2018-19)**

**Higher order ordinary differential and Partial differential equation**

**Course code: DSC- 6B**

| <b>course outcomes (CO)</b> | students are;   |
|-----------------------------|---|
| CO-1                        | Understanding types of differential equation with more than 2 variables     |
| CO-2                        | Understanding difference between ordinary and partial differential equation |
| CO-3                        | Understanding types of solution of partial differential equation            |
| CO-4                        | Studying construction of partial differential equation                      |

**B.Sc-II (up to 2019)**

**Paper V (differential Calculus) Paper VI (differential equations)  
Paper VII( Integral Calculus) Paper VIII(Discrete Mathematics)**

| <b>course outcomes (CO)</b> | students are;  |
|-----------------------------|--|
| CO-1                        | Developing problem solving skills for various types of equations such as wave equation, heat equation and Lapse equations. |
| CO-2                        | Developing the knowledge of how to draw graphs, paths, walks and Curvatures.   |
| CO-3                        | Developing several perspectives of differential equations.   |
| CO-4                        | Creating interest with finite sets particularly those areas relevant to business.  |

## Course Outcomes: B.Sc. III Sem V

### Paper IX (Real Analysis)

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are;  |
| CO-1                   | Understanding concept of countable sets  |
| CO-2                   | Understanding limit of sequence and series And their types                       |
| CO-3                   | Understanding types of functions   |
| CO-4                   | Understanding definition of Riemann Integral and Properties of Integral function |
| CO-5                   | Understanding test for conditional convergence                                   |

### Paper X (Modern Algebra)

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | students are;                                    |
| CO-1                   | Understanding types of groups                    |
| CO-2                   | Understanding homomorphism and imbedding of ring |
| CO-3                   | Understanding definition of normal subgroups     |
| CO-4                   | Understanding concept of Rings and ideals        |
| CO-5                   | Understanding properties of groups               |

### Paper XI (Partial Differential Equations)

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | students are;   |
| CO-1                   | Understanding definition of Partial differential equation   |
| CO-2                   | Understanding non linear Partial differential equation  |
| CO-3                   | Understanding concept of linear homogeneous Partial differential equation with constant coefficient |
| CO-4                   | Understanding concept of linear non homogeneous Partial differential equation with constant         |
| CO-5                   | Understanding definition of Partial differential equation   |

### Paper XII& Paper XVI (Numerical Methods I &II )

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | students are;  |
| CO-1                   | Understanding and finding numerical solution of non linear equations using different method and their comparison |
| CO-2                   | Understanding and finding numerical solution linear equations using iterative and non iterative methods          |
| CO-3                   | Understanding and finding numerically eigen values and eigen vectors of given matrix                             |



## B.Sc. III Sem VI

### Paper XIII (Metric Spaces)

| Course Outcomes | students are;  |
|-----------------|--|
| CO-1            | Understanding concept of limit using metric function |
| CO-2            | Understanding definition of open ball                |
| CO-3            | Understanding concept compactness and completeness   |
| CO-4            | Understanding some properties of continuous function |

### Paper XIV (Linear Algebra)

| Course Outcomes | students are;                                      |
|-----------------|--|
| CO-1            | Understanding definition of vector space           |
| CO-2            | Understanding concept of linear transformation     |
| CO-3            | Understanding concept inner product space          |
| CO-4            | Finding eigen values, vectors and space of order n |

### Paper XV (Complex Analysis)

| Course Outcomes | students are;   |
|-----------------|---|
| CO-1            | Understanding definition of complex integration       |
| CO-2            | Understanding concept of analytic function            |
| CO-3            | Understanding finding singularities and residues      |
| CO-4            | Understanding concept of entire meromorphic functions |

### Paper XVI (Numerical methods - II)

| Course Outcomes | students are;   |
|-----------------|---|
| CO-1            | Understanding and finding numerical solution of interpolation equally interval and unequally interval |
| CO-2            | Understanding and finding numerical solution of integration and their different types                 |
| CO-3            | Understanding and finding numerical solution of ordinary differential equation                        |

## Statistics: Course Outcomes: B. Sc. I (up to 2017-18) (Old)

### Descriptive Statistics- I (Paper-I)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Getting acquainted with some basic concepts in statistics.  |
| CO-2            | Making familiar with some elementary statistical methods of analysis of data like measures of central tendency, dispersion, moments, skewness and kurtosis and interpreting them. |

|             |  |
|-------------|--|
| <b>CO-3</b> | Studying analysis of data pertaining to attributes and to interpret the results. |
|-------------|--|

### Elementary Probability Distributions (Paper-II)

| <b>Course Outcomes</b> | <b>Students are:</b>   |
|------------------------|--|
| <b>CO-1</b>            | Getting acquainted with some basic concepts of probability.                      |
| <b>CO-2</b>            | Distinguishing between random and non-random experiment.                         |
| <b>CO-3</b>            | Finding the probabilities of various events.                                     |
| <b>CO-4</b>            | Understanding the concept of conditional probability and independence of events. |
| <b>CO-5</b>            | Distinguishing between univariate and bivariate probability distributions.       |

### Descriptive Statistics- II (Paper-III)

| <b>Course Outcomes</b> | <b>Students should be able to :</b>  |
|------------------------|--|
| <b>CO-1</b>            | Understanding the concept of correlation and correlation coefficient.                                  |
| <b>CO-2</b>            | Interpreting value of correlation coefficient and its use in regression analysis.                      |
| <b>CO-3</b>            | Understanding the concept of multivariate distributions.   |
| <b>CO-4</b>            | Applying correlation and regression theory in various fields like business, agriculture, industry etc. |

### Discrete Probability Distributions (paper-IV)

| <b>Course Outcomes</b> | <b>Students are:</b>  |
|------------------------|---|
| <b>CO-1</b>            | Applying discrete probability distributions in different situations.        |
| <b>CO-2</b>            | Defining discrete variable and study their distributions.                   |
| <b>CO-3</b>            | Applying discrete probability distributions with real life situations.      |
| <b>CO-4</b>            | Understanding concept of bivariate distributions and related probabilities. |

**B.Sc. I (CBCS) (With effect from 2018-19)****DSC-7A STATISTICS-I Descriptive Statistics- I (Paper-I)**

| <b>Course Outcomes</b> | <b>Students are :</b>   |
|------------------------|---|
| <b>CO-1</b>            | Getting acquainted with some basic concepts in statistics.  |
| <b>CO-2</b>            | Making familiar with some elementary statistical methods of analysis of data like measures of central tendency, dispersion, moments, skewness and kurtosis and to interpret them. |
| <b>CO-3</b>            | Analysing data pertaining to attributes and to interpret the results.   |

**DSC-8A STATISTICS-II Elementary Probability Distributions (Paper-II)**

| <b>Course Outcomes</b> | <b>Students are:</b>   |
|------------------------|--|
| <b>CO-1</b>            | Getting acquainted with some basic concepts of probability.                      |
| <b>CO-2</b>            | Distinguishing between random and non-random experiment.                         |
| <b>CO-3</b>            | Finding the probabilities of various events.                                     |
| <b>CO-4</b>            | Understanding the concept of conditional probability and independence of events. |
| <b>CO-5</b>            | Distinguishing between univariate and bivariate probability distributions.       |

**DSC-7B STATISTICS-III Descriptive Statistics- II (Paper-III)**

| <b>Course Outcomes</b> | <b>Students are:</b>  |
|------------------------|---|
| <b>CO-1</b>            | Understanding the concept of correlation and correlation coefficient.                                     |
| <b>CO-2</b>            | Interpreting value of correlation coefficient and its use in regression analysis.                         |
| <b>CO-3</b>            | Understanding the concept of multivariate distributions.  |
| <b>CO-4</b>            | Applying of correlation and regression theory in various fields like business, agriculture, industry etc. |

## DSC-8B STATISTICS-IV Discrete Probability Distributions (paper-IV)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Applying discrete probability distributions in different situations.        |
| CO-2            | Defining discrete variable and study their distributions.                   |
| CO-3            | Applying discrete probability distributions with real life situations.      |
| CO-4            | Understanding concept of bivariate distributions and related probabilities. |

## B.Sc. II (up to 2018-19) (Old)

### Continuous Probability Distributions-I (paper-V)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Understanding concept of discrete and continuous distributions with real life situations. |
| CO-2            | Distinguish between discrete and continuous distributions.                                |
| CO-3            | Finding various measures of r. v.'s and probabilities.                                    |
| CO-4            | Knowing the relations among the different distributions.                                  |
| CO-5            | study transformation of r. v.'s.  |

### Bi-variate discrete distributions and Multiple Regression Analysis (paper-VI)

| Course Outcomes | Students are:  |
|-----------------|--|
| CO-1            | Understanding concept of multiple linear regression.       |
| CO-2            | Understanding concept of multiple and partial correlation. |
| CO-3            | Studying the sampling theory.                              |
| CO-4            | Need of vital statistics and its applications.             |

### Continuous Probability Distributions-II (paper-VII)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Studying some continuous probability distributions with real life situations. |
| CO-2            | Distinguishing between various distributions.                                 |
| CO-3            | Finding various measures of continuous r. v.'s and probabilities.             |
| CO-4            | Understanding the relations among different distributions.                    |
| CO-5            | Studying chi-square, t and F distributions with applications.                 |

### Statistical Methods (paper-VIII)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Knowing the concept and use of time series.   |
| CO-2            | Understanding the meaning, purpose and use of statistical quality control and its applications. |
| CO-3            | Applying the small and large sample tests in various situations,.                               |

### B.Sc. II (CBCS) (With effect from 2019-20)

#### DSC-7C: Probability Distributions-I (paper-V)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Understanding concept of discrete and continuous distributions with real life situations. |
| CO-2            | Distinguish between discrete and continuous distributions.                                |
| CO-3            | Finding various measures of r. v.' s and probabilities.                                   |
| CO-4            | Knowing the relations among the different distributions.                                  |
| CO-5            | study transformation of r. v.' s.   |

#### DSC-8C: Statistical methods-I (paper-VI)

| Course Outcomes | Students are:  |
|-----------------|--|
| CO-1            | Understanding concept of multiple linear regression.       |
| CO-2            | Understanding concept of multiple and partial correlation. |
| CO-3            | Studying the sampling theory.                              |
| CO-4            | Need of vital statistics and its applications.             |

#### DSC-7D: Probability Distributions-II (paper-VII)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Studying some continuous probability distributions with real life situations. |
| CO-2            | Distinguishing between various distributions.                                 |
| CO-3            | Finding various measures of continuous r. v.' s and probabilities.            |
| CO-4            | Understanding the relations among different distributions.                    |
| CO-5            | Studying Chi-square, t and F distributions with applications.                 |

## DSC-8D: Statistical methods –II (paper-VIII)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Knowing the concept and use of time series.   |
| CO-2            | Understanding the meaning, purpose and use of statistical quality control and its applications. |
| CO-3            | Applying the small and large sample tests in various situations,.                               |

## B.Sc. III: Sem III

### Probability Distributions (paper-IX)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Understanding concept of univariate continuous probability distributions.   |
| CO-2            | Understanding concept of multivariate continuous probability distributions. |
| CO-3            | Understanding concept of truncated probability distributions.               |
| CO-4            | Studying applications of bivariate normal distributions.                    |

### Statistical inference –I (paper-X)

| Course Outcomes | Students are:   |
|-----------------|---|
| CO-1            | Knowing the concept of point estimator.                                 |
| CO-2            | Finding estimators of parameters using different methods of estimation. |

### Design of Experiment (Paper-XI)

| Course Outcomes | Students are:  |
|-----------------|--|
| CO-1            | Understanding importance of DOE.   |
| CO-2            | Implementing and layout different design of experiment.                  |
| CO-3            | Studying applications of DOE with different situations of heterogeneity. |

### Operation Research (Paper-XII)

| Course Outcomes | Students are:  |
|-----------------|--|
| CO-1            | Understanding concept of linear programming and solution of LPP. |
| CO-2            | Applying other operation research techniques like T. P.,A.       |

|             |  |
|-------------|--|
|             | P. etc.  |
| <b>CO-3</b> | Making use of decision problems in various fields. |

### B.Sc. III: Sem IV

#### Probability Theory (Paper-XIII)

| Course Outcomes | Students are :  |
|-----------------|---|
| <b>CO-1</b>     | Drawing random sample from continuous distributions.  |
| <b>CO-2</b>     | Knowing the concept of convergence, weak law of large numbers.  |
| <b>CO-3</b>     | Understanding concepts of Markov chain with its applications to real life situations like queuing theory. |

#### Statistical inference-II (Paper-XIV)

| Course Outcomes | Students are:   |
|-----------------|---|
| <b>CO-1</b>     | Studying the estimation method like interval estimation.            |
| <b>CO-2</b>     | Studying parametric and non-parametric tests with its applications. |
| <b>CO-3</b>     | Understanding concept of sequential test.                           |

#### Sampling Theory (paper-XV)

| Course Outcomes | Students are:  |
|-----------------|--|
| <b>CO-1</b>     | Studying the concept of sample and population.   |
| <b>CO-2</b>     | Studying the working of SRSWR and SRSWOR with estimators mean and variance.  |
| <b>CO-3</b>     | Studying applications of other sampling techniques like stratified random sampling, systematic and cluster sampling. |
| <b>CO-4</b>     | Determining the sample size.   |

#### Quality management and Data mining (paper-XVI)

| Course Outcomes | Students are:   |
|-----------------|---|
| <b>CO-1</b>     | Acquiring knowledge regarding to quality and quality tools.                 |
| <b>CO-2</b>     | Knowing the concept of DMAIC cycle  |
| <b>CO-3</b>     | Understanding single and double sampling with reference to product control. |
| <b>CO-4</b>     | Knowing the concept of data mining.   |

## ZOOLOGY

### Course outcomes (CO) (up to 2017-18)

#### B.Sc.I.:Sem.I: Paper I-Animal Diversity

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO -1                | Imparting knowledge of five kingdom classification system and biodiversity related to non-chordates from Protista to Annelida.        |
| CO -2                | Understanding the Characters, classification and phylogenic relations among various phyla of protista to annelida                     |
| CO -3                | Imparting the knowledge of special characters of each phyla using one representative organism of the phyla from protista to annelida. |

#### B.Sc.I. Paper-II -CELL BIOLOGY AND GENETICS

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO -1                | Imparting knowledge of light and electron microscopy.   |
| CO -2                | Imparting knowledge of basic structural and functional unit of life and its organization.             |
| CO -3                | Imparting knowledge the structure and functions of various cell organelles.                           |
| CO -4                | Imparting knowledge the science of inheritance, Mendelian genetics and divergence from Mendelism.     |
| CO -5                | Imparting knowledge the patterns of inheritance co-dominance, Incomplete dominance, multiple alleles. |

#### B.Sc.I.: Semester II

#### Paper III: Animal Diversity II

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO -1                | Imparting knowledge of biodiversity related to chordates from Protochordata to Amphibia.   |
| CO -2                | Understanding the Characters, classification and phylogenic relations among various phyla and calsses of prochordata to amphibian. |
| CO -3                | Imparting the knowledge of special characters of cephalochordate and amphibian by studying representative like Amphioxus and frog. |



|       |   |
|-------|---|
| CO -4 | Understanding about the special characters of fish like scales, gills and fins. |
|-------|---|

**Paper IV- Ecology, Ethology, Evolution And Applied Zoology**

|                             |   |
|-----------------------------|---|
| <b>course outcomes (CO)</b> | By the end of this Course students are:   |
| CO -1                       | Understanding various concepts of ecology.  |
| CO -2                       | Understanding concepts like mimicry, camouflage, Courtship behaviour and social behaviour with suitable examples. |
| CO -3                       | Understanding the evidences of evolution like fossils, connecting links and living fossils.                       |
| CO -4                       | Imparting knowledge about sericulture and its economic importance.  |

**Course outcomes (CO) CBCS: (With effect from 2018-19)  
B.Sc.I. :Sem.I: Paper I-Animal Diversity**

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are:  |
| CO -1                       | Imparting knowledge of biodiversity related to non-chordates form Protista to hemichordata.                            |
| CO -2                       | Making the Understanding the Characters, classification and phylogenic relations among various phyla of non-chardates. |
| CO -3                       | Making aware of importance of biodiversity and its conservation.   |

**B.Sc.I. Paper-II: Animal Physiology**

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are:  |
| CO -1                       | Understanding various normal physiological activities in mammalian body.   |
| CO -2                       | Making aware of finely balanced metabolic activities carried out in the body and need for maintaining the homeostasis. |

## B.Sc.I.: Semester II

### Paper III: Cell Biology and evolution

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO -1                | Imparting knowledge of basic structural and functional unit of life and its organization. |
| CO -2                | Imparting knowledge the structure and functions of various cell organelles.               |
| CO -3                | Imparting knowledge organic evolution and various theories of evolution.                  |
| CO -4                | Imparting knowledge evidences of evolution and mass extinctions.                          |

### Paper IV:Genetics

| course outcomes (CO) | By the end of this Course students are:                      |
|----------------------|--|
| CO 1                 | Imparting knowledge of science of inheritance.               |
| CO 2                 | Imparting knowledge of patterns of inheritance co-dominance. |
| CO 3                 | Imparting knowledge of linkage and crossing over.            |

## B.Sc. II: Semester III:(Old) (Up to 2018-19)

### Paper V Animal Diversity-III

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Understanding the Characters, classification and phylogenic relations among various phyla from arthropoda to Hemichordata. |
| CO-2                 | Generating the interest for subject among the students by the study of some amazing invertebrates.                         |
| CO-3                 | Understanding the specialized characters of phyla by the study of representative animal of that phylum.                    |
| CO-4                 | Imparting knowledge of some highly specialized characters of the phyla with suitable examples.                             |

## Paper VI: Genetics and Biological chemistry

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Understanding the concepts of genetics like Linkage, crossing over, sex determination, gynandromorphs, and interaction of genes, lethal genes and human twins. |
| CO-2                 | Understanding the concepts like pH and buffers.  |
| CO-3                 | Imparting the knowledge of classification and biological significance of carbohydrates, proteins and lipids.   |
| CO-4                 | Imparting knowledge about nucleic acids and enzymes.   |
| CO-5                 | Making aware about the significance of metal ions to Human.  |

## Semester IV

### Paper VII: Animal diversity-IV

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO-1                 | Understanding the Characters, classification and phylogenic relations among reptiles, aves and mammals. |
| CO-2                 | Making aware about poisonous and non-poisonous snakes, venom and its effect, snake bite and first aid.  |
| CO-3                 | Understanding the detailed characters of mammalian by studying representative animal: rat.              |
| CO-4                 | Generating the interest for subject among the students by the study of amazing vertebrates.             |
| CO-5                 | Imparting knowledge of some highly specialized characters of the classes with suitable examples.        |

### Paper VIII: Histology and Physiology

| course outcomes (CO) | By the end of this Course students are:                             |
|----------------------|---|
| CO-1                 | Imparting knowledge of histological structures of mammalian organs. |
| CO-2                 | Imparting knowledge of hormones.                                    |
| CO-3                 | Understanding physiology of reproduction.                           |
| CO-4                 | Making aware of contraceptives and their types.                     |
| CO-5                 | Imparting knowledge of modern technique like IVF.                   |
| CO-6                 | Understanding the defense mechanism of our body.                    |

## Course Outcome: B.Sc.III

### Semester V: Paper IX: Functional anatomy of Non-chordates

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Imparting knowledge of invertebrate phylum protozoa, coelenterate and Mollusca.                          |
| CO-2                 | Imparting knowledge of basic structural and functional parts of leech and sea star.                      |
| CO-3                 | Imparting knowledge of various insect metamorphosis.   |
| CO-4                 | Imparting knowledge the science of torsion and detorsion of gastrophoda.                                 |
| CO-5                 | Imparting knowledge the about minor phyla.   |
| CO-6                 | Making the students aware about human genetics and disorders like Phenylketonuria and Sickle Cell Anemia |

### Paper X: Biostatistics, Bioinformatics and Medical Zoology

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO-1                 | Understanding the many biostatistics terms such as tabulation, measure of central tendency and correlation. |
| CO-2                 | Getting aware about various pathogenic insect vectors.  |
| CO-3                 | Understanding the detailed characters of various human diseases such as malaria, dengue and chikungunya.    |
| CO-4                 | Imparting the knowledge of some highly advanced technology of computer in biology.                          |

### Paper XI: Molecular biology, Biotechnology and Biotechniques

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO-1                 | Understanding the molecular concepts in biology.   |
| CO-2                 | Getting aware about various biotechnology.   |
| CO-3                 | Understanding the detailed mechanism of various biotechniques likes rDNA technology, animal cell culture, hybridoma, ELISA, electrophoresis. |
| CO-4                 | Getting aware about application of biotechnology in medicine, animal husbandry and agriculture.  |

## Paper XII: Endocrinology, Environmental biology and toxicology

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO 1                 | Understanding the anatomy, histology, role, regulation and disorder various endocrine gland of human.       |
| CO 2                 | Getting aware about environment, conservation strategies, national parks and wild life sanctuaries in India |
| CO 3                 | Understanding the effect of toxicant on human and various other animals.                                    |
| CO 4                 | Understanding the types of habitat such as fresh water, marine water and terrestrial.                       |
| CO 5                 | Imparting knowledge of some highly specialized characters and adaption of habitats.                         |
| CO 6                 | Understanding the anatomy, histology, role, regulation and disorder various endocrine gland of human.       |

## Semester VI

### Paper XIII Comparative anatomy of chordates

| course outcomes (CO) | By the end of this Course students are:  |
|----------------------|--|
| CO1                  | Imparting knowledge of integuments and endoskeleton among the vertebrates.   |
| CO 2                 | Imparting knowledge of basic structural and functional parts of digestive and respiratory system from lower vertebrates to higher vertebrates. |
| CO 3                 | Imparting knowledge of excretory and nervous system of various classes of vertebrate.  |

### Paper XIV: Developmental biology

| course outcomes (CO) | By the end of this Course students are:   |
|----------------------|---|
| CO-1                 | Understanding the early and late developmental process of Amphioxus.  |
| CO-2                 | Understanding the detailed development of chick upto 72 hrs.  |
| CO-3                 | Generating the interest for subject among the students by the study advanced techniques in developmental biology such as cloning. |
| CO-4                 | Imparting the knowledge of placenta, organizer and retrogressive metamorphosis.   |

## Paper XV: Physiology

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are:  |
| CO-1                        | Understanding the human nutritional requirement and balanced diet.   |
| CO-2                        | Understanding the importance of vitamins in diet and deficiency.   |
| CO-3                        | Imparting knowledge of classification and biological significance of carbohydrates, proteins and lipids.         |
| CO-4                        | Imparting the knowledge about various human physiology of respiration, circulation, excretion, muscle and nerve. |

## Paper XVI: Applied Zoology

|                             |  |
|-----------------------------|--|
| <b>course outcomes (CO)</b> | By the end of this Course students are:  |
| CO-1                        | Understanding the fisheries industry and economic importance of fishes.                                  |
| CO-2                        | Generating the interest for subject among the students by the pearl culture.                             |
| CO-3                        | Understanding the economic importance of apiculture, lac culture emu, goat and vermiculture.             |
| CO-4                        | Imparting knowledge of some crop pests, house hold pests, store rain pests and their biological control. |

## B. Sc. (Computer Science) Part – I Semester – I (upto 2017-18)

### Paper -I Introduction to Computers & Modern Operating Environment

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | At the end of course students are:   |
| CO-1                        | To introduce the basic knowledge of computers among students                 |
| CO-2                        | To introduce the computer software and hardware to the student               |
| CO-3                        | To develop the skills in handling of application software's to the students. |

### Paper -II Introduction to Programming in 'C'

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:  |
| CO-1                        | Acquiring basic knowledge about Programming in C.                                 |
| CO-2                        | Gathering extensive knowledge in C programming and developing Programming skills. |

|      |  |
|------|--|
| CO-3 | Strengthening the knowledge on control structure, arrays etc., of C Programming. |
|------|--|

## B.Sc. (Computer Science) Part - II Semester-II

### Paper-III Introduction to Database & HTML

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | At the end of course students are:                 |
| CO-1                        | Understanding the concept of DBMS and Data Models. |
| CO-2                        | Understanding the DBMS architecture and ER Diagram |
| CO-3                        | Understanding concept of web page development.     |

### Paper-IV Programming techniques Using 'C'

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:  |
| CO-1                        | Understanding the concept of function and its different types.                |
| CO-2                        | Understanding and performing different operation using pointer and structure. |
| CO-3                        | Understanding different file handling operation.                              |

## B. Sc. (Computer Science) Part – II Semester – III (upto 2018-19)

### Paper-V Fundamentals of Software Engineering

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | At the end of course students are:                                     |
| CO-1                        | Understanding the concepts of System Analysis                          |
| CO-2                        | Understanding the concepts of Software Engineering                     |
| CO-3                        | Learning different System Analysis methods.                            |
| CO-4                        | Understanding the concept of System Design, implementation and testing |

### Paper-VI Object Oriented Programming Using C++

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | At the end of course students are:                     |
| CO-1                        | Understanding the concepts of OOP.                     |
| CO-2                        | To learn the concepts of Classes in C++.               |
| CO-3                        | To understand how to create constructor and destructor |

|      |   |
|------|---|
| CO-4 | To understand operator overloading process. |
|------|---|

**B.Sc. (Computer Science) Part –II Semester-IV**

**Paper –VII Relational Database Management System**

|                             |  |
|-----------------------------|--|
| <b>Course Outcomes (CO)</b> | At the end of course students are:             |
| CO-1                        | Learning the concepts of relational data model |
| CO-2                        | To learn the concepts of SQL and PL-SQL.       |
| CO-3                        | To learn the concepts of Cursor And Triggers.  |
| CO-4                        | To learn the concept of MySQL database         |

**Paper-VIII Advanced Object Oriented Programming Using C++**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:              |
| CO-1                        | To learn the concepts of Relational Inheritance |
| CO-2                        | To learn the concepts of Polymorphism           |
| CO-3                        | To learn the concepts of File handling          |
| CO-4                        | To learn UML diagrams                           |

**B. Sc. (Computer Science) Part – I Semester – I CBCS (With effect from 2018-19)**

**DSC-11A: PROBLEM SOLVING USING COMPUTERS**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:  |
| CO-1                        | Acquiring basic knowledge about Programming in C.                                 |
| CO-2                        | Gathering extensive knowledge in C programming and developing Programming skills. |
| CO-3                        | Strengthening the knowledge on control structure, arrays etc., of C Programming.  |



## DSC-12A Database Management System

| Course Outcomes (CO) | At the end of course students are:                  |
|----------------------|---|
| CO-1                 | Understanding the concept of DBMS and Data Models.  |
| CO-2                 | Understanding the DBMS architecture and ER Diagram. |
| CO-3                 | Understanding concept of object modeling.           |

## B. Sc. (Computer Science) Part – I Semester – II DSC-11B Programming Skills Using ‘C’

| Course Outcomes (CO) | At the end of course students are:                                      |
|----------------------|---|
| CO-1                 | Understanding the concept of function and its different types.          |
| CO-2                 | Understanding and performing different operation using pointer and DMA. |
| CO-3                 | Understanding different file handling operation.                        |

## DSC-12B Relational Database Management System

| Course Outcomes (CO) | At the end of course students are:              |
|----------------------|---|
| CO-1                 | Learning the concepts of relational data model  |
| CO-2                 | Performing different DDL, DML , DQL queries.    |
| CO-3                 | Understanding concept of functional dependency. |

## B.Sc. (Computer Science) (Optional)-Part – II CBCS (With effect from 2019-20)

### Sem-III

## DSC-11C: PHP and MySQL

| Course Outcomes (CO) | At the end of course students are:   |
|----------------------|--|
| CO-1                 | Understanding the concepts of PHP scripts.   |
| CO-2                 | Understanding different Branching and Looping statements.  |
| CO-3                 | Learning how to developing applications in PHP using MySQL.  |
| CO-4                 | Learning and develop various PHP technology applications that definitely meets the current industry needs. |

## DSC12C : Object Oriented Programming Using C++

| Course Outcomes (CO) | At the end of course students are:   |
|----------------------|--|
| CO-1                 | Understanding how C++ improves C with object oriented features and learning how to design C++ classes for code reuse.                |
| CO-2                 | Learning syntax and semantics of C++ programming language and learning how to write inline functions for efficiency and performance. |
| CO-3                 | Learning how to overload functions and operators in C++ and learning how inheritance promote code reuse in C++.                      |

## B. Sc. (Computer Science) Part – II Semester – IV

### DSC-11D Cyber Security Essentials

| Course Outcomes (CO) | At the end of course students are:                             |
|----------------------|--|
| CO-1                 | Understanding concept of information security management.      |
| CO-2                 | Learning different access controls methods.                    |
| CO-3                 | Understanding wireless network security.                       |
| CO-4                 | Learning cyber security laws and importance of security audit. |

### DSC-12D Data Structure using C++

| Course Outcomes (CO) | At the end of course students are:  |
|----------------------|---|
| CO-1                 | Understanding the basic concepts such as Abstract Data Types, Linear and Non Linear Data structures.  |
| CO-2                 | Acquiring Ability to choose appropriate data structures to represent data items in real world problems.   |
| CO-3                 | Acquiring Ability to analyze the time and space complexities of algorithms. Ability to design programs using a variety of data structures such as array, stacks, queues, linked list. |
| CO-4                 | Acquiring Ability to analyze and implement various kinds of searching and sorting techniques  |

**B.Sc. – III (Computer Science) (With effect from 2015-16)****Semester V & VI****Paper – IX: Computer Networks****Paper – XIII Network Technology and Windows Server 2008**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:  |
| CO-1                        | Understanding the Computer Network and different Data Communication methods.                |
| CO-2                        | Understanding concept of Windows Server 2008 and learning how to Manage Active Directory.   |
| CO-3                        | Understanding Reference Model and Physical Layer operations.                                |
| CO-4                        | Understanding concept of File Sharing and Security and learning how to Manage Group Policy. |

**Paper – X: Visual Programming Using C#**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:            |
| CO-1                        | Understanding the concepts of .NET framework. |
| CO-2                        | Understanding the concepts of C# programming. |
| CO-3                        | Understanding concepts of Web Programming.    |
| CO-4                        | learn the concept of ADO .NET.                |

**Paper – XI Linux Operating System**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:  |
| CO-1                        | Understanding the concepts of Linux OS.                                       |
| CO-2                        | Understanding different Handling Buffer Cache, File and Directories commands. |
| CO-3                        | Understanding concept of System calls.  |
| CO-4                        | Learning the VI Editor and simple shell programming.                          |

**Paper – XII PHP and MySQL**

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:                        |
| CO-1                        | Understanding the concepts of PHP scripts.                |
| CO-2                        | Understanding different Branching and Looping statements. |

|      |  |
|------|--|
| CO-3 | Understanding concept of Arrays in PHP.              |
| CO-4 | Learning Developing Applications in PHP using MySQL. |

#### Paper – XIV Java Programming

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:                              |
| CO-1                        | Understanding the concepts of Java Programming.                 |
| CO-2                        | Understanding concepts of Inheritance and Packages.             |
| CO-3                        | Understanding concept of Multithreading and Exception Handling. |
| CO-4                        | Learning Applets Programming & AWT.                             |

#### Paper – XV Advanced Linux Applications

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | At the end of course students are:                                      |
| CO-1                        | Understanding the concepts of Memory management and advanced VI Editor. |
| CO-2                        | Understanding Advanced Filters.   |
| CO-3                        | Learning Advanced shell programming.                                    |
| CO-4                        | Learning System administration.   |

#### Paper – XVI E-Commerce

|                             |   |
|-----------------------------|---|
| <b>Course Outcomes (CO)</b> | <b>At the end of course students are;</b>         |
| CO-1                        | Understanding the concepts of E-Commerce          |
| CO-2                        | Understanding different Electronic payment System |
| CO-3                        | Understanding concept of E-Security               |
| CO-4                        | Learning different Security Solutions             |

**Course Outcomes**  
**B.C.S (Old) (up to 2017-18)**

**Sem I & II**  
**Computer Science Paper I & III**

**Introduction to Computer and Data Processing**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO-1                   | Knowing the basic knowledge of computer, concept of different types of software and network protocols |
| CO-2                   | Understanding the concept of assembler, compiler and interpreter                                      |
| CO-3                   | Handling Microsoft Office packages (Word, Excel, PowerPoint)  |
| CO-4                   | Understanding Internet Access and its Act   |

**Computer Science Paper II & IV**

**Problem solving using C programming part-I & part-II**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO-1                   | Understanding the algorithmic approach to problem solving   |
| CO-2                   | Designing flowchart for given problem   |
| CO-3                   | Developing modular programs using control structures, pointers, arrays, strings and structures in 'C' |
| CO-4                   | Designing and developing solutions to real world problems using C.                                    |

**Course Outcomes B.Sc. Computer Science (Entire)-I (CBCS)**  
**(With effect from 2018-19)**

**Sem I & II: Computer Science Paper I & III**  
**CC 101-Fundamentals of Computer**  
**CC 201-Linux Operating System**

| <b>Course Outcomes</b> | Students are   |
|------------------------|--|
| CO-1                   | Knowing the basic knowledge of computer , concept of different types of software and network protocols |
| CO-2                   | Understanding the concept of assembler, compiler and interpreter                                       |
| CO-3                   | Studying the difference between Windows and open source operating system( Linux), basics of Linux OS   |
| CO-4                   | Studying different types of Linux commands   |

**Computer Science Paper II & IV**

**CC 102 & 202- Programming in 'C' Part I & II**

| <b>Course Outcomes</b> | Students are  |
|------------------------|---|
| CO-1                   | Understanding the algorithmic approach to problem solving   |
| CO-2                   | Designing flowchart of given problem  |
| CO-3                   | Developing modular programs using control structures, pointers, arrays, strings and structures in 'C' |

|      |  |
|------|--|
| CO-4 | Designing and developing solutions to real world problems using C. |
|------|--|

**Course Outcomes**  
**B.Sc. Computer Science -I (Old)**  
**(up to 2017-18)**  
**Statistics Paper I- and III: Descriptive Statistics I & II**

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Understanding concept of data, collection, representation, analysis, and interpretation, of statistical data, concept of sampling.  |
| CO-2            | Understanding concept of representation of data for the comparison of two or more data, Study different measures of central tendency, different measures of dispersion, , uses of C.V.            |
| CO-3            | Studying concept of Symmetrical distribution, moments (raw and central), Skewness and Kurtosis and different measures.  |
| CO-4            | Understanding the concept of Bi-variate and Tri-variate data and to study concept of Simple, Partial and multiple Correlation, linear and Non-linear Regression, Multivariate regression analysis |

**Statistics Paper II:- Probability and Discrete Probability Distributions**

**Paper IV: Continuous Probability Distribution & Testing of Hypothesis**

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding the fundamental principle of counting, concept of random experiment, sample space, event, types of events, equi-probable space, Classical and Axiomatic approach of probability, Concept of probability model, addition and multiplication rule of probability |
| CO-2            | Understanding concept of discrete random variable and its probability distribution, mean and variance of discrete variable, study Discrete Uniform, Binomial and Poisson distributions   |
| CO-3            | Understanding concept of continuous random variable and its probability distribution, mean and variance of continuous variable, study continuous Uniform, Exponential and Normal distribution  |
| CO-4            | Understanding the concept of parameter, statistic, hypothesis, small sample and large sample tests, simulation.  |

**Course Outcomes**  
**B.Sc. Computer Science -I (CBCS)**  
**(With effect from 2018-19)**  
**Statistics Paper I- and III: Descriptive Statistics I (GEC-107) & II (GEC-207)**

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding concept of data, collection, representation, analysis, and interpretation, of statistical data, concept of sampling.   |
| CO-2            | Understanding concept of representation of data for the comparison of two or more data, Study different measures of central tendency, different measures of dispersion, , uses of C.V. |
| CO-3            | Studying concept of Symmetrical distribution, moments (raw and central), Skewness and Kurtosis and different measures.   |

|      |   |
|------|---|
| CO-4 | Understanding the concept of Bi-variate and Tri-variate data and to study concept of Simple, Partial and multiple Correlation, linear and Non-linear Regression, Multivariate regression analysis |
|------|---|

### Statistics Paper II:- Probability Theory and Discrete Probability Distributions (GEC 108)

#### Paper IV: Continuous Probability Distribution & Testing of Hypothesis (GEC 208)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding the fundamental principle of counting, concept of random experiment, sample space, event, types of events, equi-probable space, Classical and Axiomatic approach of probability, Concept of probability model, addition and multiplication rule of probability |
| CO-2            | Understanding concept of discrete random variable and its probability distribution, mean and variance of discrete variable, study Discrete Uniform, Binomial and Poisson distributions   |
| CO-3            | Understanding concept of continuous random variable and its probability distribution, mean and variance of continuous variable, study continuous Uniform, Exponential and Normal distribution  |
| CO-4            | Understanding the concept of parameter, statistic, hypothesis, small sample and large sample tests, simulation.  |

### Electronics Paper I & III (GEC 103 & 203) – Electronics Devices and Circuits

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding all components and understand basic circuit theory, Understanding network laws and theorems.   |
| CO-2            | Understanding working of PN junction diode, rectifiers and regulated power supply  |
| CO -3           | Understanding working of BJT, CB, CE & CC configurations and current gains and Understand transistor as an amplifier, concept load line & Q-Point stabilization                            |
| CO -4           | Understanding different multistage amplifiers, different multistage amplifiers, feedback in amplifier with types, different oscillators, the working of Unipolar devices, Study of IC 741. |

### Electronics Paper II & IV (GEC 104 & 204) – Digital Electronics I & II

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Understanding different number systems and their inter conversions.<br>Understand different logic gates and Boolean Algebra to simplify logic equations.  |
| CO-2            | Understanding different arithmetic and combinational circuits, sequential circuits viz. Flip flops, shift registers and counters, &, sequential circuits viz. Flip flops, shift registers and counters. |
| CO-3            | Understanding IC 555 with their specifications and applications, Memory Devices.  |
| CO-4            | Understanding Microcomputer Organization and Architecture of $\mu$ P 8085, Instruction set and Programming of $\mu$ P 8085. Brief study of 8086.  |

## Mathematics Paper I (GEC 105) : Discrete Mathematics

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding concept of set theory and combinatorial arguments. |
| CO-2            | Understanding functions and their properties.                    |
| CO-3            | Knowing concept of recurrence relation.                          |
| CO-4            | Developing logic.  |

## Mathematics Paper II (GEC 106) : Algebra

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Understanding concept of set theory and relations.                          |
| CO-2            | Understanding the concept of divisibility of integers and related theorems. |
| CO-3            | Know the concept of congruence relation and its properties.                 |
| CO-4            | Understanding Boolean algebra concepts.                                     |

## Mathematics Paper III (GEC 205) : Graph Theory

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Acquiring knowledge of graphs and operations on graphs |
| CO-2            | Studying tree graphs and theorems on it                |

## Mathematics Paper IV (GEC 206) : Calculus

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Using of nth derivatives to find higher order derivatives     |
| CO-2            | Understanding use of Leibnitz theorem                         |
| CO-3            | Understanding Lagrangze's method for undetermined multipliers |

## Course Outcomes B.C.S. (Old) (Up to 2018-19)

### Sem- III & IV

### Paper no. 3.1 - Object Oriented Programming C++

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding Object Oriented Programming.   |
| CO-2            | Using various control structures to improve programming logic.   |
| CO-3            | Designing classes and objects.   |
| CO-4            | Using constructor and destructor.<br>Utilizing the OOP techniques like operator overloading, inheritance and polymorphism. |

### Paper no. 3.2 – System Analysis and Design



|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding different phases of system development.                        |
| CO-2                   | Knowing different fact finding techniques during analysis.                   |
| CO-3                   | Knowing design techniques in problem analysis phase i.e E-R diagram and DFD. |
| CO-4                   | Studying normalization of tables.  |

### Paper 4.1- Data Structure Through C++

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students should be able ;  |
| CO-1                   | Understanding the most basic aspects of data structures including Stacks, Queue, Linked list and Tree. |
| CO-2                   | Understanding different sorting and searching algorithms.  |
| CO-3                   | Understanding implementation of linked list, stack and queue.  |

### Paper no. 4.2 – Relational Database Management System with Oracle

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding Object Oriented Programming.   |
| CO-2                   | Using various control structures to improve programming logic.   |
| CO-3                   | Designing classes and objects.   |
| CO-4                   | Using constructor and destructor.<br>Utilizing the OOP techniques like operator overloading, inheritance and polymorphism. |

## Course Outcomes

### B.Sc. Computer Science (Entire)-II (effect from 2019-20)

#### Sem- III & IV

### Paper V (DSC-301) – Relational Database Management System

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are                               |
| CO-1                   | Improving data operations skills.          |
| CO-2                   | Handling database.                         |
| CO-3                   | Designing and developing proper database.  |
| CO-4                   | Use SQL/MY-SQL queries to manage database. |

### Paper VI (DSC-302) -Object Oriented Programming C++

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Using Object Oriented Programming.                             |
| CO-2                   | Using various control structures to improve programming logic. |
| CO-3                   | Designing classes and objects.                                 |
| CO-4                   | Using constructor and destructor.                              |

|  |   |
|--|---|
|  | Utilizing the OOP techniques like operator overloading, inheritance and polymorphism. |
|--|---|

### Paper VII (DSC-401) - Data Structure Using C++

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding the most basic aspects of data structures including Stacks, Queue, Linked list and Tree. |
| CO-2                   | Understanding different sorting and searching algorithms.  |
| CO-3                   | Understanding implementation of linked list, stack and queue.  |

### Paper VIII (DSC-402) - Cyber Security Essentials

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding importance of cyber security and security management. |
| CO-2                   | Learning different security threats.                                |
| CO-3                   | Understanding cyber security laws and importance of security audit. |
| CO-4                   | Learning concept of wireless network security.                      |

### Paper V (GEC-303) – Computer Organization

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding Digital Circuit Design using K-Map methods   |
| CO-2                   | Understanding Memory Modules & its Organization including Cache Memory, Virtual Memory, Paging Segmentation. |
| CO-3                   | Understanding Input Output Organization with different data transfer schemes & methods                       |
| CO-4                   | Understanding CPU-ALU Organization with different techniques like Stack, RISC ,CISC etc.                     |

### Paper VI (GEC-304) – Computer Instrumentation

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding measurement and instrumentation system.   |
| CO-2                   | Understanding various active and passive transducer and sensors.<br>Understanding instrumentation amplifier and signal conditioning system. |
| CO-3                   | Understanding various Actuators and DAS.  |
| CO-4                   | Understanding detailed working of Digital Instruments & Display Devices.  |

### Paper – VII (GEC 403) (Microcontroller Architecture & Programming)

|                           |  |
|---------------------------|--|
| <b>Programme Outcomes</b> | Students are   |
| CO-1                      | Understanding 8051 family and architecture of $\mu$ C 8051.          |
| CO-2                      | Understanding addressing modes and instruction sets of $\mu$ C 8051. |

|      |   |
|------|---|
| CO-3 | Understanding facilities in $\mu$ C 8051 viz. timer, time delay calculations in different modes and serial communications.    |
| CO-4 | Understanding programming of $\mu$ C 8051 and real world interfacing.<br>Understanding embedded C programming skills for 8051 |

### Paper – VIII (GEC 404) (Communication Techniques )

|                           |  |
|---------------------------|--|
| <b>Programme Outcomes</b> | Students are   |
| CO-1                      | Understanding functioning of Basic communication systems.                                    |
| CO-2                      | Understanding Analog Modulation & Demodulation techniques.                                   |
| CO-3                      | Understanding Digital Modulation & Multiplexing techniques. ASK, FSK PSK & BPSK. TDMA & FDMA |
| CO-4                      | Understanding Wireless Communication systems. GSM  |

### Mathematics Paper V (GEC-305) – Linear Algebra

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding use of matrices.   |
| CO-2                   | Understanding concept and theory of vector space                                     |
| CO-3                   | Knowing about inner product space and Gram-Schmidt process to find orthonormal basis |
| CO-4                   | Finding Eigen values and Eigen vectors   |

### Mathematics Paper VI (GEC-306) – Numerical Methods

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding finding numerical solution of non linear equations using different method and their comparison |
| CO-2                   | Understanding concept of numerical interpolation   |
| CO-3                   | Studying numerical integration and different methods   |
| CO-4                   | Studying solution of first order ordinary differential equation by different methods                         |

### Mathematics Paper VII(GEC-405) – Computational Geometry

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding two dimensional transformation and geometric interpretation of homogenous coordinates |
| CO-2                   | Understanding three dimensional transformation and vanishing points                                 |
| CO-3                   | Studying parametric representation of plane curves  |

|      |                                    |
|------|------------------------------------|
| CO-4 | Studying space curve, Bezier curve |
|------|------------------------------------|

### Mathematics Paper VIII(GEC-406) – Operation Research

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Studying basics , characteristics , scope and limitations of operation research |
| CO-2            | Finding solution of linear programming problem by different methods             |
| CO-3            | Studying transportation and assignment problems                                 |
| CO-4            | Knowing the concept of theory of games  |

### Course Outcomes B.Sc. Computer Science(Entire)-III

#### Sem V & VI

#### Paper IX & XV -Operating Systems and Linux

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding design issues related to process management and various related algorithms |
| CO-2            | Understanding design issues related to memory management and various related algorithms  |
| CO-3            | Understanding design issues related to File management and various related algorithms    |

#### Paper X & XVI-Dot Net Programming part I and II

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Learning Object Oriented Programming language                        |
| CO-2            | Handling abnormal termination of a program using exception handling. |
| CO-3            | Studying web development concept using ASP.net                       |
| CO-4            | Designing User Interface using different UI components.              |

#### Paper XI & XVII- Data Communication and Computer Networks

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding different types of networks, various topologies and Application of networks. |

|      |   |
|------|---|
| CO-2 | Understanding types of addresses, data communication.   |
| CO-3 | Understanding the concept of networking models, protocols, functionality of each layer.                                     |
| CO-4 | Learning basic networking hardware and tools, Understanding wired and wireless networks, its types, functionality of layer. |

### Paper XII & XVIII- Software Engineering and UML

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding importance of Object Orientation in Software engineering   |
| CO-2                   | Understanding the components And techniques of Unified Modeling Language |
| CO-3                   | Understanding techniques and diagrams related to structural modeling     |
| CO-4                   | Understanding techniques and diagrams related to behavioral modeling     |

### Paper XIII & XIX- Programming in Java part I and Advanced Java Programming

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Learning Object Oriented Programming language.                                      |
| CO-2                   | Handling abnormal termination of a program using exception Handling.                |
| CO-3                   | Creating flat files, and studying web development concept using Servlet and JSP.    |
| CO-4                   | Designing User Interface using Swing and AWT, learning socket programming concepts. |

### Paper XIV & XX-E-commerce and Web technology

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding importance of E-commerce                                  |
| CO-2                   | Understanding concepts of data encryption and decryption                |
| CO-3                   | Understanding use of digital signature in e business                    |
| CO-4                   | Understanding the concept of Web, designing static web pages using HTML |

## COURSE OUTCOMES: BCA

### B.C.A-I

#### Fundamental of Computer

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO -1                  | Getting knowledge of computer fundamentals.                    |
| CO -2                  | Getting knowledge of Installation process of operating system. |
| CO -3                  | Getting knowledge of I/P and O/P devices of computer.          |

#### Programming in C (Paper I & II )

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO -1                  | Understanding the fundamentals of C programming, loops & decision making statements, pointer etc. |
| CO -2                  | Implementing different operations & solving problems  |

#### Principles of Management

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are                              |
| CO -1                  | Understanding the principle of management |
| CO -2                  | Knowing the managerial function           |

#### Financial Accounting (Paper I & II )

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO -1                  | Understanding the basic concept o& principle financial accounting                     |
| CO -2                  | Knowing the concept of trial balance, subsidiary book & bank reorganization statement |

#### Office Communication

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students should be able ;                                     |
| CO-1                   | Creating awareness of office Management amongst the Studentss |
| CO-2                   | Developing the professional skills amongst the Studentss      |
| CO-3                   | Enhancing the ability of communication of the Studentss       |
| CO-4                   | Developing the skills of correspondence amongst the Studentss |

## Software Packages

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO -1                  | Knowing creation of documents by using different software applications |
| CO -2                  | Learning to create charts, power point presentation                    |

## Bank Management

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO -1                  | Knowing banking system, regulatory framework, banker-customer relationship & services |
| CO -2                  | Understand remittances, E- banking & IT banks   |
| CO -3                  | Getting acquainted with bank & financial Institution                                  |

## Principles of Marketing

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO -1                  | Understanding the importance of customer relationship management & strategies build CRM |
| CO -2                  | Getting aware about rural marketing   |

## COURSE OUTCOMES: BCA-II

### Cost Accounting

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO -1                  | Developing the knowledge about preparation of tender, quotation, etc |
| CO -2                  | Determining the product total cost & fixation of selling prize       |

### Human Resource Management

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO -1                  | Understanding the concept of requirement selection, Training, development & compensation management |
| CO -2                  | Knowing the current challenges faced by IT industry in context of Human Resources Management        |

## System Analysis & Design

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding SDLC phases to develop software applications |
| CO-2                   | Knowing different design tools to develop software         |

## Object Oriented Programming C++

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students should be able ;  |
| CO-1                   | Understanding main difference between procedure oriented programming & Object oriented programming |
| CO-2                   | Understanding roll of Object   |
| CO-3                   | Understanding bottom-up approach of compiler   |
| CO-4                   | Understanding important pillars of OOP   |
| CO-5                   | Understanding how to develop system level applications by using C++                                |

## Computer Oriented Statistical Methods

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are                                     |
| CO-1                   | Learning probabilistic analysis of data          |
| CO-2                   | Knowing the concept measures of central tendency |

## Entrepreneurship Development

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Developing Entrepreneurial qualities amongst themselves |
| CO-2                   | Understanding the concept of entrepreneurship           |

## Organizational Behavior

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding the impact of individual, group & structures on the behavior within organization |
| CO-2                   | Identifying required behavioral model in the organization                                      |

## DBMS using MS- Access

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Getting clear the idea of Db application development |
| CO-2                   | Understanding the qualities of DBA                   |

## Web Technology

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are                                |
| CO-1                   | Learning Markup language with syntax & tags |
| CO-2                   | Developing web pages & Web Technology       |



## Computer Mathematics

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students should be able ;                                |
| CO-1                   | Learning Determinant & Matrices                          |
| CO-2                   | Learning mathematical algorithm for computer programming |

## COURSE OUTCOMES: BCA-III

### Management Accounting

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Developing knowledge about preparation of tender, quotation, etc |
| CO-2                   | Determining the product total cost & fixation of selling prize   |

### E-Commerce

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding difference between traditional commerce verses E-commerce |
| CO-2                   | Understanding learning process of online trading                        |
| CO-3                   | Understanding process of electronic payment systems                     |
| CO-4                   | Understanding E-security and protecting network                         |
| CO-5                   | Understanding use of E-banking  |

### Computer Network

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding OSI reference model  |
| CO-2                   | Getting a basic knowledge of the data communication concepts, data transmission media & advance technology |

### RDBMS with Oracle

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding concept of database and creation and management of database |
| CO-2                   | Understanding basic concept related to commands, joins, views.            |
| CO-3                   | Understanding PL/SQL programming  |

### Visual Programming

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Understanding basic knowledge of dot net programming |
| CO-2                   | Understanding dot net programming techniques         |

|      |                            |
|------|----------------------------|
| CO-3 | Understanding C# & ASP.net |
|------|----------------------------|

## Strategic Management

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students should be able ;                                      |
| CO-1                   | Knowing strategic management                                   |
| CO-2                   | Studying different strategies at different level of management |

## Data mining & Data warehousing

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are  |
| CO-1                   | Understanding handling and storing the data in data warehouse     |
| CO-2                   | Understanding handling and fetching the data by using data mining |
| CO-3                   | Knowing data mining tools   |

## Linux Operating System

|                        |   |
|------------------------|---|
| <b>Course Outcomes</b> | Students are                                    |
| CO-1                   | Getting knowledge about Linux OS                |
| CO-2                   | Understanding different types of Linux commands |
| CO-3                   | Understanding basics of shell programming       |

## Java Programming

|                        |  |
|------------------------|--|
| <b>Course Outcomes</b> | Students are   |
| CO-1                   | Acquiring knowledge of open source programming   |
| CO-2                   | Understanding the concepts of object oriented programming using different java language features |
| CO-3                   | Understanding and develop software applications  |

**COURSE OUTCOMES: BBA-I (CBCS) (with effect from 2019-20)****CC-A1 Fundamental Of Management-(Paper-I)**

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO-1                   | Knowing The Fundamentals Of Management.   |
| CO-2                   | Identifying Apply Appropriate Management Techniques For Managing Contemporary Organization. |
| CO-3                   | Understanding The Different Functions And Level Of Management                               |

**CC-A2 Principle Of Marketing-(Paper-I)**

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO-1                   | Understanding The Basic Concept Of Marketing                |
| CO-2                   | Understanding The Consumer Behavior And Market Segmentation |
| CO-3                   | Getting aware About 4p's And 4 C's Of Marketing Mix         |

**CC-A3 Micro Economics--(Paper-I and II)**

| <b>Course Outcomes</b> | <b>Students are</b>                                      |
|------------------------|--|
| CO-1                   | Identifying The Demand Function And Production Functions |
| CO-2                   | Identifying The Nature Of Revenue                        |
| CO-3                   | Judging The Factor Pricing                               |
| CO-4                   | Realizing Various Production Theories.                   |

**AECC-C1 Business Communication---(Paper-I and II)**

| <b>Course Outcomes</b> | <b>Students are</b>                                       |
|------------------------|---|
| CO-1                   | Creating Awareness Office Management Among The Studentss. |
| CO-2                   | Developing The Professional                               |
| CO-3                   | Developing Skill Of Correspondence                        |
| CO-4                   | Enhancing Ability Of Communication                        |

## EC-G1 Information Technology In Business Management--(Paper-I)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Getting Knowledge Of Fundamentals Of Computers                            |
| CO-2            | Learning to Create Documents and Studying The Ms-Word, Power point, Excel |

## CC A5 Human Resource Management-(Paper-II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Getting Introduction of the Concept Of Human Resource Management, Recruitment, Selection, Training And Development, Compensation Management. |
| CO-2            | Getting Introduction of Active Co-Operation Of Human Being   |
| CO-3            | Getting Acquired With Other People   |
| CO-4            | Developing The Leadership Quality Among  |

## CC-A4 Advanced Accountancy--(Paper-II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Getting Knowledge of Various Provision Of Banking Regulation Act For Maintenance Of Bank Final Account |
| CO-2            | Getting Knowledge About Accounting Procedure Of Higher Purchase System Of Sale.                        |
| CO-3            | Getting Knowledge About Firm Accounting Procedure.   |

## CC-A6 Macro Economics- -(Paper-II)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Identifying The Basic Concept And Theories Of Macro Economics               |
| CO-2            | Understanding Awareness About Changing Macro Economic Policies And Theories |
| CO-3            | Understanding Various Concept Such As GDP, GNP,NNP And Personal Income.     |

## GEC-G2 Management Information System--(Paper-II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding The Basic Concept Of Information System                              |
| CO-2            | Understanding The Operational And Knowledge Level, Management And Strategic Level. |
| CO-3            | Understanding Overview Of System Analysis And Development Methods                  |

## COURSE OUTCOMES: BBA-II

### Management Of Business Services-(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding The Different Between Goods and services |
| CO-2            | Acquiring Knowledge About 7p's Of Services             |

## Production Management--(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Acquiring The Knowledge About Raw Material,Semi Finished Goods And Finished Goods. |
| CO-2            | Understand The Concept Of Plant Location, Factory Building, Plant Layout           |
| CO-3            | Getting Information About ISO-9000,Tqm,Benchmarking And Six Sigma                  |

## Macro Economics--(Paper III and IV)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Knowing Features, Phases And Theories Of Trade Cycle                        |
| CO-2            | Evaluating Types, Merits And Demerits Of Taxes.                             |
| CO-3            | Realizing The Law Of Market, Consumption Function And Investment Functions. |

### Entrepreneurship Development--(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Developing Entrepreneurial Qualities   |
| CO-2            | Knowing The Problem And Suggest Some Remedial Measures to Overcome It.       |
| CO-3            | Knowing To Different Institutes Who Working For Entrepreneurship Development |

### Statistical Techniques For Business--(Paper III and IV)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Making Familiar With Some Elementary Statistical Methods Of Analysis Of Data Viz. Measures Central Of Tendency, Dispersion, Standard Deviation, Probability ,Time Series Etc. |
| CO-2            | Getting Acquainted With Some Basic Concepts Of Probability  |
| CO-3            | Understanding how To Find The Probability Of Various Events.  |

### E-Commerce- -(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding The Basic Concepts Of E-Commerce Toward Business |
| CO-2            | Understanding Different Modes Of E-Commerce For Transaction    |

### COURSE OUTCOMES: BBA-III

#### Fundamental of Business and Tax Law-(Paper V And VI)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Knowing The Laws, Functions Of Courts.  |
| CO-2            | Understanding Foundation Information About The Indian Legal System Related To Business. |
| CO-3            | Learning Business Law In The Global Context.  |

### Practices in Modern Management- (Paper V And VI)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Learning The Concept Of Modern Management  |
| CO-2            | Understanding The Different Approaches Of Modern Management Viz. Scientific Approach, Contingency Approach, Human Resource Approach Etc. |
| CO-3            | Understanding The Concept Of SWOT Analysis In Context Of Business.   |

### Recent Trends in Marketing- (Paper V And VI)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding Recent Trends In Marketing   |
| CO-2            | Understanding The Use Of Information System  |
| CO-3            | Understanding The Importance Of Customer Relationship Management And Strategies To Build Crm |

### International Business-(Paper V And VI)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Exhibiting The Leadership Capacity And Team Work Skill For Business Decision Making   |
| CO-2            | Understanding The Ethical Implication Of Business Decision Making And Recognize Ethical Dilemmas  |
| CO-3            | Developing Interpersonal Written, Visual And Oral Communication Skill To Underlying International Business That Includes Sensitive To Foreign Cultures. |

### Financial Management-(Paper V And VI)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Developing Knowledge About Preparation Of Fund Flow And Cash Flow Concept.           |
| CO-2            | Enhancing The Knowledge Of Business Project Analysis And Cost Planning And Procedure |

## Foundation Of Human Skill-(Paper V And VI)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Understanding Basic Abilities Of Human  |
| CO-2            | Knowing Basic Skills Of Human Viz. Learning, Speaking, Reading And Listening. |
| CO-3            | Creating Positive Attitudes   |

## Research Methodology-(Paper V And VI)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Understanding The Concept Of Research Methodology For Preparing The Projects. |
| CO-2            | Understanding The Concept Hypothesis, Sample, And Research Design             |
| CO-3            | Understanding The Different Probability Techniques For Doing Research.        |

## COURSE OUTCOMES: BBA-I (CBCS) (with effect from 2019-20)

### CC-A1 Fundamental Of Management-(Paper-I)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Knowing The Fundamentals Of Management.   |
| CO-2            | Identifying Apply Appropriate Management Techniques For Managing Contemporary Organization. |
| CO-3            | Understanding The Different Functions And Level Of Management                               |

### CC-A2 Principle Of Marketing-(Paper-I)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Understanding The Basic Concept Of Marketing                |
| CO-2            | Understanding The Consumer Behavior And Market Segmentation |
| CO-3            | Getting aware About 4p's And 4 C's Of Marketing Mix         |



### CC-A3 Micro Economics--(Paper-I and II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Identifying The Demand Function And Production Functions |
| CO-2            | Identifying The Nature Of Revenue                        |
| CO-3            | Judging The Factor Pricing                               |
| CO-4            | Realizing Various Production Theories.                   |

### AECC-C1 Business Communication---(Paper-I and II)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Creating Awareness Office Management Among The Studentss. |
| CO-2            | Developing The Professional                               |
| CO-3            | Developing Skill Of Correspondence                        |
| CO-4            | Enhancing Ability Of Communication                        |

### EC-G1 Information Technology In Business Management--(Paper-I)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Getting Knowledge Of Fundamentals Of Computers                            |
| CO-2            | Learning to Create Documents and Studying The Ms-Word, Power point, Excel |

### CC A5 Human Resource Management-(Paper-II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Getting Introduction of the Concept Of Human Resource Management, Recruitment, Selection, Training And Development, Compensation Management. |
| CO-2            | Getting Introduction of Active Co-Operation Of Human Being   |
| CO-3            | Getting Acquired With Other People   |
| CO-4            | Developing The Leadership Quality Among  |

### CC-A4 Advanced Accountancy--(Paper-II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Getting Knowledge of Various Provision Of Banking Regulation Act For Maintenance Of Bank Final Account |
| CO-2            | Getting Knowledge About Accounting Procedure Of Higher Purchase System Of Sale.                        |
| CO-3            | Getting Knowledge About Firm Accounting Procedure.   |

### CC-A6 Macro Economics- -(Paper-II)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Identifying The Basic Concept And Theories Of Macro Economics               |
| CO-2            | Understanding Awareness About Changing Macro Economic Policies And Theories |
| CO-3            | Understanding Various Concept Such As GDP, GNP,NNP And Personal Income.     |

### GEC-G2 Management Information System--(Paper-II)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding The Basic Concept Of Information System                              |
| CO-2            | Understanding The Operational And Knowledge Level, Management And Strategic Level. |
| CO-3            | Understanding Overview Of System Analysis And Development Methods                  |

### COURSE OUTCOMES: BBA-II

#### Management Of Business Services-(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Understanding The Different Between Goods and services |
| CO-2            | Acquiring Knowledge About 7p's Of Services             |

### Production Management--(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Acquiring The Knowledge About Raw Material,Semi Finished Goods And Finished Goods. |
| CO-2            | Understand The Concept Of Plant Location, Factory Building, Plant Layout           |
| CO-3            | Getting Information About ISO-9000,Tqm,Benchmarking And Six Sigma                  |

### Macro Economics--(Paper III and IV)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Knowing Features, Phases And Theories Of Trade Cycle                        |
| CO-2            | Evaluating Types, Merits And Demerits Of Taxes.                             |
| CO-3            | Realizing The Law Of Market, Consumption Function And Investment Functions. |

### Entrepreneurship Development--(Paper III and IV)

| Course Outcomes | Students are   |
|-----------------|--|
| CO-1            | Developing Entrepreneurial Qualities   |
| CO-2            | Knowing The Problem And Suggest Some Remedial Measures to Overcome It.       |
| CO-3            | Knowing To Different Institutes Who Working For Entrepreneurship Development |

### Statistical Techniques For Business--(Paper III and IV)

| Course Outcomes | Students are  |
|-----------------|---|
| CO-1            | Making Familiar With Some Elementary Statistical Methods Of Analysis Of Data Viz. Measures Central Of Tendency, Dispersion, Standard Deviation, Probability ,Time Series Etc. |
| CO-2            | Getting Acquainted With Some Basic Concepts Of Probability  |
| CO-3            | Understanding how To Find The Probability Of Various Events.  |

### **E-Commerce- -(Paper III and IV)**

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO-1                   | Understanding The Basic Concepts Of E-Commerce Toward Business |
| CO-2                   | Understanding Different Modes Of E-Commerce For Transaction    |

### **COURSE OUTCOMES: BBA-III**

#### **Fundamental of Business and Tax Law-(Paper V And VI)**

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO-1                   | Knowing The Laws, Functions Of Courts.  |
| CO-2                   | Understanding Foundation Information About The Indian Legal System Related To Business. |
| CO-3                   | Learning Business Law In The Global Context.  |

#### **Practices in Modern Management- (Paper V And VI)**

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO-1                   | Learning The Concept Of Modern Management  |
| CO-2                   | Understanding The Different Approaches Of Modern Management Viz. Scientific Approach, Contingency Approach, Human Resource Approach Etc. |
| CO-3                   | Understanding The Concept Of SWOT Analysis In Context Of Business.   |

#### **Recent Trends in Marketing- (Paper V And VI)**

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO-1                   | Understanding Recent Trends In Marketing   |
| CO-2                   | Understanding The Use Of Information System  |
| CO-3                   | Understanding The Importance Of Customer Relationship Management And Strategies To Build Crm |

### International Business-(Paper V And VI)

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO-1                   | Exhibiting The Leadership Capacity And Team Work Skill For Business Decision Making   |
| CO-2                   | Understanding The Ethical Implication Of Business Decision Making And Recognize Ethical Dilemmas  |
| CO-3                   | Developing Interpersonal Written, Visual And Oral Communication Skill To Underlying International Business That Includes Sensitive To Foreign Cultures. |

### Financial Management-(Paper V And VI)

| <b>Course Outcomes</b> | <b>Students are</b>  |
|------------------------|--|
| CO-1                   | Developing Knowledge About Preparation Of Fund Flow And Cash Flow Concept.           |
| CO-2                   | Enhancing The Knowledge Of Business Project Analysis And Cost Planning And Procedure |

### Foundation Of Human Skill-(Paper V And VI)

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO-1                   | Understanding Basic Abilities Of Human  |
| CO-2                   | Knowing Basic Skills Of Human Viz. Learning, Speaking, Reading And Listening. |
| CO-3                   | Creating Positive Attitudes   |

### Research Methodology-(Paper V And VI)

| <b>Course Outcomes</b> | <b>Students are</b>   |
|------------------------|---|
| CO-1                   | Understanding The Concept Of Research Methodology For Preparing The Projects. |
| CO-2                   | Understanding The Concept Hypothesis, Sample, And Research Design             |
| CO-3                   | Understanding The Different Probability Techniques For Doing Research.        |