

## **2.6 Student Performance and Learning Outcomes:**

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the web-link).

- Learning outcome of the programme was aware to the students at the time of admission.
- Hard copy and soft copy of syllabus are available in the departments for ready reference to teacher and students.
- Each concern teacher of that subject gave information of course outcome.

## **Program me outcome of U.G.**

### **I. Science Faculty**

- After graduation student from Science Faculty should have
- Imbided ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
- Developed Scientific outcome for upgrading the aspects related to life. They acquired the basic Knowledge of science subject i.e. Physics, Chemistry, Botany, Zoology, Mathematics, which are founder subject in applied sciences.
- Acquired skills in handling instruments, planning, and performing laboratory experiments.
- Analyzed the given data critically and systematically and drawing objective conclusion.
- Students proposed novel ideas in various subjects and providing solution to various problems
- Able to think creatively to propose novel ideas in explaining facts and figures or providing better solution and new ideas for the sustainable developments
- Students communicate scientific concepts, experimental, results, and analytical arguments clearly and concisely, both verbally and in writing.
- Sensitivity towards environmental concerns.
- The developments of team work and leadership abilities are imbided to give importance of safe laboratory skills.

### **II. Faculty of Humanities/Art/Social Science**

- After competition of Art faculty of humanities
- Acquired knowledge with facts and figures related concerned with subjects such as History. Economics, Political science, languages.
- Recognize ways in which political, social and economic issues which affect their daily lives across time and space.
- Understand historical developments in different periods of Indian history.
- Imbibes the values of the Indian constitution and their significance in everyday life.

- Gains a sense of the working of Indian democracy, its institutions and processes at the local, State and union levels.
- Understands spatial distribution of resources and their conservation.
- Written articles, novels, stories, to spread the message of equality, nationality, harmony etc.
- Understand how issues in social science influence literature and how literature can provide solutions to the social issues.
- Participated in various social and cultural activities voluntarily.
- Developed communication skill such as reading, listing, speaking, help in expressing ideas and views clearly and effectively.

### **III. Faculty of Commerce**

#### **Course outcome B.Com. (U.G.)**

- Advanced accounting is useful to clear the basic ideas of accounting which is applicable in Business.
- Business economics is useful to upgrade the knowledge of economy as well as the economical Concepts.
- Business and mathematical statistics is applicable to develop the knowledge in statistics and mathematical abilities.
- Deliver the Business regularity framework and Company law.
- Develop skill in Computer fundamental and operating system.
- The subject is useful to calcite the areas of Income tax and operating System.

#### **Course outcome M.Com. (P.G.)**

- It is useful and applicable to maintain the Business Accounts as well as for Calculating the profit in the Commercial institutions.
- Study about Computer application in Business.
- To gain knowledge of E-commerce and legal security.
- It is useful to enhance the knowledge about Entrepreneurship as well as helpful to develop skills among students.

#### **Department of Botany**

- Understand the diversity of Plants.
- Know the vegetative characteristics of the plant.
- Understand the Morphological diversity of Bryophytes and Pteridophytes.
- Know the systematic, morphology, and structure of Bacteria, Viruses and Algae.
- Gain knowledge about various plants of economic use.
- Learn the scope and importance of molecular biology.
- Understand the science of plant breeding.
- Understand the scope and importance of Anatomy and Embryology.
- Understand the life cycle of Pinus and Gnetum.

- Realize the application and importance of plant tissue culture and transgenic plants.

### **Department of Chemistry**

- Students will demonstrate and understanding of major concepts in all discipline of Chemistry.
- Student will employ critical thinking develop logical thinking and specific method to design, carry out record and analyze the result of chemical experiments.
- Student will get awareness of the impact of chemistry on the environment, Society and other cultures outside the scientific community.
- The ability to explain chemical nomenclature, structure, reactivity and properties of chemicals.
- Student will learn about Carbohydrates, amino acids and Hydro cyclic compounds.
- Students will know about instrumentation such as digital pH meter, Digital potentiometer, Conductivity meter, UV-visible Spectrophotometer.
- Students will know about principles and application of analytical data, Statistical analysis, Gravimetric estimation and Quantitative analysis.
- Student will acquire knowledge of synthesis of dyes, polymers and Drugs.
- Students will know methods of Water analysis.
- Student will know electro -chemistry.

### **Department of Physics**

- Experience and understand basic physical fundamentals and the key vocabulary to describe them: kinematics, dynamics, work and energy, rotations, gravitation, heat and thermodynamics, fluids
- Develop skills in observation, interpretation, reasoning, synthesis, generalizing, predicting, and questioning as a way to learn new knowledge.
- Understand basic physical concepts and vocabulary used to describe them: electricity and magnetism, optics, atomic and nuclear physics.
- Recognize the relationship between the conceptual description of nature and its mathematical expression.
- Know the vocabulary and concepts of physics as it applies to: Principles of Electric Fields, Gauss's Law, Electric Potential, Capacitance, Current and Resistance, Direct Current Circuits, Magnetic Fields, Faraday's Law, Inductance, Alternating Current Circuits, and Electromagnetic Waves. Understand the relationship between electrical charge, electrical field, electrical potential, and magnetism.
- Understand fundamental concepts of optics such as interference, diffraction, polarisation, laser etc. Explore important connections between theory and experiment.
- Know the vocabulary and concepts of modern physics: basic special relativity and general relativity, elementary quantum mechanics, nuclear physics, and particle physics. Understand the relationship between observation and theory and their use in building the basic concepts of modern physics.

- Understand basic concepts of solid state physics such as crystal structure, electrical conductivity, magnetism, superconductivity. Explore important connections between theory, experiment, and current applications.
- Understand how statistics of the microscopic world can be used to explain the thermal features of the macroscopic world. Be able to use thermal and statistical principles in a wide range of applications.
- Students will show that they have learned laboratory skills, enabling them to take measurements in a physics laboratory and analyse the measurements to draw valid conclusions. Students will be capable of oral and written scientific communication, and will prove that they can think critically and work independently.

### **Department of Mathematics**

- Think in a critical manner.
- Know when there is a need of information, to be able to identify, locate, evaluate, and effectively use that information for the problem.
- Formulate and develop mathematical arguments in a logical manner.
- Acquire good knowledge and understanding advanced area of mathematics from the given course.
- Understanding sequence and series with its behaviour.
- Extracting solution of differential equation by different methods.
- Student will be able to solve integral calculus problems.
- Understand theory of relativity using different postulates.

### **Department of Zoology**

- Knowledge about human protozoal diseases like Malaria, Amoebiasis, Trypanosomiasis, Leishmaniasis.
- Diversity of Non-chordate animals.
- Knowledge of cell biology and development of frog.
- Taxonomy of Chordate and Evolution of man.
- Study of Genetics and Ecology.
- Practical knowledge of Genetics and Ecology.
- Study of Apiculture and Sericulture and harmful pests of Crop.
- Knowledge of Molecular biology, biotechnology and Bio-technique.
- Acquire knowledge of Respiration, Muscle physiology and Reproductive physiology.

### **Department of Electronics**

- Understand electronic system with a continuously variable signal.
- To learn function of basic components of use in linear circuits.
- Understand component symbol, working principle, classification and specification.
- To learn function of Basic digital circuits and use of transistors to create logic gates to perform Boolean logic.
- Students will be introduced to flip-flop, shifts, register, counters and semiconductor memory for data processing circuits.

- To learn symbol, working principle of basic digital electronics circuits for data processing Application.

### **Department of Microbiology (U.G.)**

- Perform the basic techniques related to Screening; isolation cultivation of microorganisms from various sources.
- Study of microorganisms with regard to Morphology, Cultural and biochemical Characters. It will help to classify the microbes to certain
- Follow the aseptic techniques and conduct the process of sterilization as well as perform the technique to control the microorganisms.
- Understand microorganisms and their relationship with the environment.
- Produce and analyze the microbial product at laboratory level.
- Conduct the basic research with these microorganisms and perform the diagnostic procedures required in food, milk and pharmaceutical industries.

### **M.Sc. Microbiology (P.G.)**

- Acquire knowledge and understanding the concept of Microbial genetics Molecular biology, Immunology, Enzymology.
- Explore the scientific literature effectively and use Computational tools such as Biostatic and Bioinformatics.
- Implement the knowledge in industry with regard to scale up, Production, scale down quality control of the various microbial products.
- Conduct the basic research related to industry environmental issues and use of agricultural for sustainable products.

### **Department of Marathi**

- Develop attitude of literary forms (Marathi poetry and Story).
- Develop Reading, Writing, Communication skills of students.
- Develop Attitude of literary Forms (Marathi Aatmkathan and Novel.)
- Develop reading, Writing and Communication skills in Students.
- Information about Literary Theory.
- Develop Attitude of Marathi Linguistics and Grammar.
- Develop Attitude of Literary Forms (Marathi Drama and Lalit Gadya).
- To Know the various methods to the study of language.
- To know the importance of Criticism.
- To know the importance of feminism.

### **Department of Political Science**

- Students gain Knowledge about Rights and duties of Indian citizen.
- Acquired about Rights, liberty, Justice, equality.
- Students took active participation in Politics by acquiring knowledge of political science.
- Study about structure and power of Judiciary.
- To know knowledge about Secularism and regionalism.

- Study about Women empowerment and their participation in panchayatraj.
- To know liberty and Autonomy of Supreme court.
- Study about Human Rights.
- Took active participation in Voting awareness campaign.
- Knowledge about structure of Legislator i.e. Vidhansabha, and Loksabha

### **Department of Economics**

- On competition of B.A. Economics Students can understand basic and applied economics.
- Analysis economics behavior in practices.
- Analyzes and discuss Historical and Current event of world economics.
- Find alternative approach to Indian Economy problem.
- Create students ability to understand Economy, Study, and Research in solution for various economics problems.
- Develop ideas of the basic Characteristics of Indian economy.
- Understand the importance, Causes, and impact of Population.
- Crasp the importance of planning undertaken by the government of India.
- Understand how factor market works, illustrate basic tools in welfare economics, and illustrate the concept of Social welfare functions and compensation principles.
- Identify the various types of investment function analysis and understand the elements of social cost benefit analysis.

### **Department of History**

- Understand the basic themes, concepts, chronology and the scope of Indian History and its distinctive eras.
- Understand the history of the countries other than India with comparative approach.
- Critically recognize the Social, Political, Economic and cultural aspects of History.
- To study further in the applied field of history as archeology.
- Think and argue historically and critically in writing and discussion.
- Prepare for various types of Competitive Examinations.