MAHARANA PRATAPSINH SHIKSHAN SANSTHAS

ANANDIBAI RAORANE ARTS COMMERCE AND SCIENCE COLLEGE, VAIBHAVWADI

PROGRAMME SPECIFIC OUTCOMES

BACHELOR OF SCIENCE

1. BOTANY:

- Those students who are enrolled for Botany course they are able to understand the plant diversity and essential role of plants in maintaining ecosystems.
- In practical's students will learn actual by hand dissection of plant parts and that resolve plant identity with its diversity. It's also analyzing bioprospecting of the plant.
- Students will understand the specific impact of plant diversity on ecosystems they also analyze and learn uses of technological tools for flourish their basic context of the subject knowledge.
- Knowledge gained from the subject will definitely useful for improvement of overall health, society, legal and environmental issues and learner will aware about biodiversity conservation and need of sustainable development.

2. ZOOLOGY:

- To nurture interest of students in the subject of Zoology.
- To cater a range of menu from classical to modern concepts in Zoology at various levels of programs.
- To expose students to varied avenues having potential for self-employment.
- Learners would understand recent advances in the subject and their applications for the betterment of mankind.
- The subject will allow learners to study nature and various aspects of animals.

3. STATISTICS :

- Individuals who are confident with analytical thinking and good communication skills during classroom teaching (through projects/presentation/practical).
- Participation and achievement of different awardsand covetous strategies in various activities at departmental, college & university level.
- As part of various departmental /college seminars and workshops students learns to respect and protect the environment. These programs also help in generating gender sensitization and building of ethical values to become a responsible citizen when he/she graduates from the college.
- Find employment utilizing their statistical knowledge.
- Exploring past through data analysis and predicting future through different statistical tools is the main objective of this course.
- Alternatively, program is organized to strengthen an analytical skill & technical knowledge of the students with different programming languages, like R software, PYTHON, TORA, M.S. Excel.
- Identify limitations to statistical results and avoid misleading quantitative analysis.
- Effectively present statistical findings to an audience lacking statistical expertise and work collaboratively.
- This program offers a range of traditional avenues in academics, Govt. Service, IAS, Indian Statistical/ Economic Services, Industries, Commerce, Investment Banking, Banks and Insurance Sectors, CSO and NSSO, Research Personnel/Investigator in Govt. organizations such as NCAER, IAMR, ICMR, Statistical and Economic Bureau & various PSUs., Market Research, Actuarial Sciences, Biostatistics, Demography etc. It also provides an array of non-traditional employment avenues ranging from Stock Brokers Analyst, Sports Analyst, Poll Analyst, Business Analyst, Financial Analyst, Content Analyst etc .

4. MATHEMATICS:

- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
- Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
- Introduction to various courses like group theory, ring theory, calculus, metric spaces, discrete mathematics.
- Enhancing students' overall development and to equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.

5. PHYSICS:

- It will develop analytical abilities among students towards real world problems
- The students are expected to familiarize with current and recent scientific and technological developments.
- It will induce the programming skills for C++ and microprocessors among students.
- With hands on experiments, students can correlate their theory with practical's.
- Students will be exposed to various measuring devices, equipment's, sensors, transducers and their daily applications.
- It will develop scientific temper among students and they can pursue their research interest in the relevant fields such as, radiology, tele communication, space science, nuclear physics, electronics, solid state physics, thermodynamics, cryogenics, geophysics, relativity etc.
- With proper knowledge of electrical components, they are expected to build basic electrical circuits.
- The error analysis may develop scientific approach skills and accuracy among the students.

- The overall development of the students can be achieved through project activities, seminars and workshops where they can expose & present their ideas.

6. CHEMISTRY :

- Make predictions about the atomic structure and chemical properties of the elements based in their position in the periodic table.
- Use standard names and symbols to represent elements, isotopes, ions, compounds, and chemical reactions.
- Identify patterns in bonding, molecular geometry, and chemical reactions.
- Explain the physical properties of solids, liquids, gases, and solutions .
- Understand the principles of kinetics and thermodynamics as applied to the rates and equilibrium positions of chemical reactions.
- Apply quantitative reasoning skills to determine quantities of matter and energy involved in physical and chemical changes.
- Integration of convergent and divergent thinking ability, which makes the students to differentiate between myth and realities and enable to develop new solutions for problems
- Students acquaint with research attitude and able to find out research problems. They understand global, environmental and ethical issues by interdisciplinary kind of research
- Students instill baseline thinking required for employment and entrepreneurship.
- Students acquire skills in handling scientific instruments, planning and performing scientific experiments.

Sr. No.	Department	Program Specific Outcomes (PSOs)
7	Economics	1. Study of economics provides insight into the operation domestic market for goods and services, financial market and the global economic system. 2. It provides the quantitative and analytical skill that enable learners to understand various economic issues clearly. It also teaches how to make well informed decisions, how to go about making choices and creates financial awareness. 3. Economics is the great foundation for many careers.
8	Hindi	1. Developing reading, writing, speaking and listening skills. 2. Availing the job opportunities in translation. 3. Increasing the critical attitude about literary writing. 4. Creating an interest in literature. 5. Imbuing the literary research attitude.
9	Marathi	1. Creating an interest in literature. 2. Availing the job opportunities in translation, transformation and media. Developing language skills. 3. Increasing the critical attitude about literary studies. e. Imbuing the literary research attitude.
10	English	1. Exposes the learners to literary genres, trends and movements. 2. Enhances the language proficiency and orient the learners towards functional aspects of language. 3. Helps the learners to understand the importance of forms, elements and style of English literary works. 4. Helps the learners to understand the need and importance of effective communication.
11	History	1. To provide accurate knowledge of the most significant events and personalities of the period under study and encourage understanding of the making of our country as well as the modern world. 2. To enable the learners to understand the political, socio-economic and cultural developments in the period under study and appreciate the rich cultural heritage in India.

		3. To acquaint learners with regional history. 4. To acquaint the learners with the history of Medieval India. 5. To encourage learners to pursue careers in Tourism industry, various Museums and Archives in India and abroad.
12	Accountancy	1. Understanding basic concepts of accountancy, principles of accountancy and accounting cycle to maintain accounts of trading & non-trading organizations. 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. 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. 4. Developing knowledge about cost ascertainment and fixation of selling price and cost control. 5. Obtaining the knowledge of various provisions of Income Tax Act and their applications in computations of taxable income of an individual under different heads of income. 6. Getting working knowledge of generally accepted auditing procedure, techniques and skills.
13	Commerce	1. Students will be able to define and explain major concepts in the field of commerce. 2. Commerce education gives the experience of world of business in all its manifestations. 3. It provide students with a maximum skills that help them excel in different working areas of trade, industry and commerce.