Swoddharak Vidyarthi sanstha's

Dadasaheb Rawal College, Dondaicha

Dadasaheb Rawal Knowledge city, Mandal road, Dondaicha, Dist. Dhule (M.S.)

Programme Outcomes (POs)

Under Graduate (UG)

ARTS	SCIENCE
Marathi	Chemistry
Hindi	Physics
English	Mathematics
Geography	Botany
History	Zoology
	Computer Science

Department of English

Programme Outcomes: B.A. English:

After successful completion of three-year degree program in English a student should be able to:

Sr.No.	POs
1	The papers framed for this program are in accordance with thenorms of CBCS pattern.
2	Discipline specific papers will acquaint the students with the rich legacy of English literature and the contribution of legendary writers to the development of English Literature.
3	The Papers of skill and ability enhancement are framed not only to orient the students the use of language but how to use the language creatively and professionally.
4	The paper of project writing will inculcate the skills of explanation, interpretation and visualization in the students.
5	The Paper of compulsory English is specifically framed from the viewpoint of value education which is the basis of quality life.
6	Selection of contents in all the courses will help the students to comprehend the worldly wisdom and commercial perception which will ultimately lead them to be successful and enjoy quality life.
7	The special papers will open up traditional job opportunities for the students but the papers of skill and ability enhancement will open up corporate, govt. and private sectors for the students of English literature.

Department of Geography

Programme Outcomes: B.A. Geography:

After successful completion of three-year degree program in Geography a student should be able to

Sr.No.	POs
1	To Acquaint the students with basic of scale, map projection and cartographic.
2	Techniques and surveying to proper guidance to students forcompetitive examination.
3	The paper of physical Geography of Maharashtra specificallyframed to acquire knowledge of our states and within various resources to students.
4	The paper of physical Geography specifically framed to acquaint the students with basic of scale map projection and cartographic techniques.
5	The paper of Human and Economic Geography specifically framed to acquaint with knowledge of economic realm in the world as well as in India and various races of mankind in world.
6	The paper of SEC (Both Semesters) specifically framed to students will gate knowledge about various approaches and model of regional planning and development.
7	To understand the principal of remote sensing.

Department of History

Programme Outcomes: B.A. History:

After successful completion of three-year degree program in History a student should be able to

Sr.No.	POs
1	To introduce various perspectives of the Indian freedom movement.
2	To develop the spirit of nationalism among students.
3	To create and enhance interest about regional history among thestudents.
4	Useful for the preparation of the competitive examination.
5	To survey the sources of History of Ancient India. The course intends to provide understanding of the social economic,religious and institutional bases of ancient India.
6	To introduce the students to the concept and nature of ModernEuropean History.
7	To introduce various perspectives of the Modern India.
8	To make awareness and Interest about social economic andcultural heritage and History of India.

Department of Chemistry

Programme Outcomes: B.Sc. Chemistry:

After successful completion of three-year degree program in Chemistry a student should be able to

Sr.No.	POs
1	Apply knowledge of Chemistry of become competent teacher at local andnational level.
2	Identify and solve complex scientific problems in research at national andinternational level.
3	Investigate chemical problems using scientific tools for analysis and interpretation of data.
4	Select, design and apply appropriate experiment techniques along with ITtools to solve chemical problems.
5	Comprehend to apply contextual multi-disciplinary knowledge to assesssocietal, health, safety and cultural issues relevant to the science practices.
6	Adopt scientific concept relating to environmental usage and sustainabledevelopment.
7	Follow the ethical principles and responsibilities of a chemist to serve thesociety.
8	Communicate effectively through report writing, documentation and effective presentations.
9	Function effectively as an individual and as a member or leader in diverseteams, in multidisciplinary settings.
10	Engage in independent and lifelong learning in science, technological changes and related matters.
11	Enhance skills for future employability through activities such as seminarcommunication skills, industrial visit and intership.
12	Recapitulate the courses in chemistry required for competitiveexamination.

Department of Physics

Programme Outcomes: B.Sc. Physics:

After successful completion of three-year degree program in Physics a student should be able to

Sr.No.	POs
1	Demonstrate and think in depth to understand the minor and major concepts in scientific and technological aspects in all disciplines of Physics.
2	Enrich the knowledge through problem solving and also think methodically to draw a logical conclusion.
3	Develop analytical abilities towards real world problem and create an awareness of the impact of physics on the society.
4	Develop awareness to use modern techniques, decent equipment's and also the scientific knowledge to design record and analyze the results of physics experiments.

Department of Mathematics

Programme Outcomes: B.Sc. Mathematics :

After Taking Mathematics in F.Y.B.Sc. & S.Y.B.Sc. our program mission is

Sr.No.	Pos
1	To equip students with analytic and problem-solving skills forcareers and graduate work.
2	Students will be well grounded in the basic manipulative skills level of algebra, geometry, trigonometry and beginning levelcalculus.
3	Be able to transmit mathematics ideas both orally and in writing.
4	Investigate and solve unfamiliar math problems.
5	Investigate and apply mathematical problems and solutions in avariety of contexts.
6	Scientific temper will be developed in Students.
7	Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the science stream.
8	Apply mathematical methods involving arithmetic, algebra, geometry, and graphs to solve problems.
9	Students will possess basic subject knowledge required for higher studies.
10	Professional and applied courses like Mathematics, FinancingBanking, Competitive Exam etc.
11	Represent mathematical information and communicate mathematical reasoning symbolically and verbally.

Department of Botany

Programme Outcomes: B.Sc. Botany:

After successful completion of three-year degree program in Botany a student should be able to

Sr.No.	PO's
1	To study the Lower and Higher cryptogrammic plants.
2	To study the diversity and economic importance of Angiospermsand Gymnosperms plant groups.
3	To study plant physiology, metabolism, Anatomy, Embryologyand ecology.
4	To study techniques of Horticulture, Floriculture, Plant Breedingetc.
5	Study of salient features of cryptogrammic plants.
6	To know the Role of Cytology and Phytochemistry in Taxonomy.
7	To study the scope and importance of molecular Biology.

Department of Zoology

Programme Outcomes: B.Sc. Zoology:

After successful completion of three-year degree program in Zoology a student should be able to

Sr.No.	Pos
1	Possess a good command of fundamentals in Zoology and its relationship to other disciplines.
2	Memorize the concepts of laboratory management, organizationand evaluation.
3	Recognize the management and concepts of bio-systems, organization and evaluation.
4	Design and conduct experiments in Zoology.
5	Outline the policy and legislation of animal Science and ethics.
6	Communicate effectively through writing reports, giving presentations, and participating in discussions.
7	Demonstrate skill in the usage of computers, networks andsoftware packages relevant to Zoology.

Department of Computer Science

Programme Outcomes: B.Sc. Computer Science:

After successful completion of three-year degree program in Computer Science a student should be able to

Sr.No.	Pos
1	Understand details about system software.
2	Solve real world problems using appropriate set, function, and relational models.
3	Students are able to perform the E-R Diagram, DFD, Datadictionary, Decision tree about software.
4	They can also design the software in learned language using thecourse content.
5	Get the knowledge of types of testing & how testing is performedin industry
6	Design E-R Model for given requirements and convert the sameinto database tables. .
7	To do basic system program like development of editors lexical analyzers etc.
8	Students are familiar with language processing activities-functions of translators, loader and linkers
9	Differentiate between interactive and non-interactive graphics.
10	Study line Drawing and Circle Drawing techniques andalgorithms.
11	Perform 2D and 3D transformation on different images.
12	Know about detail working of 2D and 3D clipping andwindowing.
13	Understand raster graphics and hidden surface elimination.

Programme Outcomes (POs)

Post Graduate (PG)

ARTS	SCIENCE
English	Chemistry
Geography	Physics
	Computer Science

Department of English

Programme Outcomes: M.A. English:

After successful completion of Two Year Post Graduation degree program in English a student should be able to :

Sr.No.	POs
1	To facilitate students to demonstrate a degree of mastery over thearea as per their program of specialization at a level higher than requirements in UG program.
2	To enable students to carry out research/ investigation and development work independently to solve critical problems in their respective field.
3	To apply a number of strategies for sorting through the applicability of and connections among a range of scholarly approaches to speculate and reconstruct their previous knowledge
4	To prepare students to produce original scholarship that contributes to knowledge in their respective fields.
5	To persuade students to compare and validate previous and contemporary development in their respective field of knowledgeto generate remedies for contemporary social situation.

Department of Geography

Programme Outcomes: M.A. Geography:

Upon successful completion of the M.A/M.Sc program in Geography, student will be able to;

Sr.No.	POs
1	Understand the unifying themes of both human and physicalgeography as well as have a working knowledge of the discipline's diverse conceptual and methodological approaches.
2	Demonstrate an ability to develop research questions, critically understand quantitative and qualitative data sources, data bias, and data analysis and presentation, and conduct research using primary and/or secondary source material.
3	Students will be able to apply geographical knowledge for the exploration of GIS, Remote Sensing, and geographical resources.
4	M.A / M. Sc. Geography Programme is structured for providingadvances and by considering the overall development of students.
5	Students will able to work in public and private sector companiesworking in the field of GIS, Tourism, and Cartographer.

Department of Chemistry

Programme Outcomes: M.Sc. Chemistry:

After successful completion of Two Year Post Graduation degree program in Chemistry a student should be able to:

Sr.No.	POs
1	Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their irrelevances in the day-to-day life.
2	Administer the skills in handling scientific instruments, planning and performing in laboratory experiments
3	Analyze the given scientific experimental data critically and systematically and the ability to draw the objective conclusions.
4	Model and formulate the real problems and find solution based-on knowledge acquired
5	Gain proficiency and skills in laboratory techniques of Chemistry with 3 handling scientific instruments, planning and performing in laboratory experiments.
6	Learn to work as a team as well as independently to retrieve information, carry out research investigations and result interpretations.
7	Develop the ability to understand and practice the ethics of surrounding scientific research
8	Design, synthesis, characterization, and applications of organic compounds.

Department of Physics

Programme Outcomes: M.Sc. Physics:

After successful completion of Two Year Post Graduation degree program in Physics a student should be able to:

Sr.No.	POs
1	Apply the knowledge and skill in the design and development of Electronics circuits to fulfill the needs of Electronic Industry
2	Become professionally trained in the area of electronics, optical communication nonlinear circuits, materials characterization and lasers.
3	Pursue researches related to Physics and Materials characterization
4	Demonstrate highest standards of Actuarial ethical conduct and Professional Actuarial behavior, critical, interpersonal and communication skills as well as a commitment to life-long learning
5	Prepare students to become Physics professionals with comprehensive knowledge and Practical skills for emerging requirement
6	Prepare students who will achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, design and implementation skills.
7	To prepare them to take up higher studies of interdisciplinarynature.
8	To give exposure to a vibrant academic ambience and to create asense of academic and social ethics among the students

Department of Computer Science

Programme Outcomes: M.Sc. Computer Science:

After successful completion of Two Year Post Graduation degree program in Computer Science a student should be able to:

Sr.No.	POs
1	An ability to apply knowledge of computer science appropriate tothe discipline.
2	An ability to apply computer science foundations, algorithmic principles, and computer science theory in the modeling anddesign of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
3	Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
4	Communicate effectively in a variety of professional and research contexts.
5	Recognize professional responsibilities and make informedjudgments in computing practice based on legal and ethical principles.
6	Apply computer science theory and software development fundamentals to produce computing-based solutions.
7	Acquire and apply new knowledge as needed, using appropriatelearning strategies.