

Maulana Azad College of Arts, Science & Commerce

Dr. Rafiq Zakaria Campus, Rauza Baugh, Aurangabad.

PROGRAM OUTCOMES (POs)

Program	Bachelors of Science (BSc)
PO1	Pure sciences subjects' knowledge such as Physics, Chemistry, Botany, Zoology, Mathematics, etc. was acquired along with facts and figures.
PO2	Scientific theories, the basic notions and the important principles which are related to different scientific phenomena were understood and their applicability in everyday life was related.
PO3	Scientific instrumental handling, working in laboratory for experiments with systematic planning were attained.
PO4	Analyzing the results accurately from the scientific experimental observations.
PO5	Critical Analysis of Scientific data and capability to reach the objectives and conclusions.
PO6	Grown capable in providing new solutions to the challenges faced, to provide new ideas for the facts and figures and thinking creatively.
PO7	Imbided ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

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PROGRAM OUTCOMES (POs)

Program	Bachelors of Arts (BA)
PO1	Acquisition of language and communication skills: Students acquire conversational skills to communicate with their peers, teachers and also face interviews.
PO2	Inclination for competitive examinations: Language is the medium of expression through which the knowledge base and the academic competency of the student can be determined. Students hereafter become inclined to appear for competitive examinations.
PO3	Heightened social, economic, political consciousness: Students through the syllabi acquire knowledge regarding social, economic, political progress of the country as well as the world and helps them to be sensitised, connect with the society at large and also contribute in its progress.
PO4	Instilling of rational thinking skills, values and ethics: The students through their acquired knowledge can differentiate between legal and illegal activities, face the real world, approach problems realistically and also be empathetic to one another.
PO5	Understanding the importance of uniqueness and inventiveness: Students through their courses of study understand the importance of being creative and unique through acquisition of unique skills, exceptional problem solving and mental ability, deft calculations to name some of them.

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PROGRAM OUTCOMES (POs)

Department	BCA/BCS	Subject	BCS
PO1	Work effectively in a variety of contexts using various languages, systems and environments		
PO2	An ability to apply knowledge of computing and mathematics appropriate to computer science		
PO3	An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.		
PO4	An ability to design, implement, and evaluate a computer-based system, process, components, or program to meet desired needs.		
PO5	An ability to function effectively on teams to accomplish a common goal		
PO6	An understanding of professional, ethical , legal, security and social issues, and responsibilities		
PO7	Recognition of the need for and an ability to engage in continuing professional development		
PO8	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.		
PO9	An ability to apply design and development principles in the construction of software systems of varying complexities.		
PO10	Demonstrate the critical thinking and communication skills required in.		
PO11	Acquire the knowledge, skills, experience and values to become lifelong learners able to obtain employment in a computer-related field or go on to graduate study..		

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PROGRAM OUTCOMES (POs)

Department	BCA/BCS	Subject	BCA
PO1	Demonstrate the ability to adapt to technological changes and innovations in the discipline.		
PO2	Analyze, design, implement and evaluate computerized solutions to real life problems, using appropriate computing methods.		
PO3	Proficiency in the basic mathematics employed in computer science		
PO4	Differentiate among essential data structures used in computer programming, and explain how they work.		
PO5	Gain knowledge of algorithms and their role in computer science.		
PO6	Identify, explain and apply fundamental structured programming techniques.		
PO7	Utilize important data structures and associated algorithms in the development of computer programs.		
PO8	Develop computer programs using functional programming and object-oriented programming paradigms.		
PO9	Apply techniques of software validation and reliability analysis to the development of computer programs.		
PO10	Demonstrate the critical thinking and communication skills required in.		
PO11	Acquire the knowledge, skills, experience and values to become lifelong learners able to obtain employment in a computer-related field or go on to graduate study..		

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PROGRAM OUTCOMES (POs)

Program	Commerce & Management
PO1	<p style="text-align: center;">Critical Thinking:</p> <p>Actively and skillfully conceptualize, apply, analyze, synthesize, and/or evaluate information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action.</p>
PO2	<p style="text-align: center;">Effective Communication:</p> <p>Develops communication skills and build confidence to face the challenges of the corporate world. Enables to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language. Capacitates exploring the world by connecting people, ideas, books, media and technology.</p>
PO3	<p style="text-align: center;">Effective Citizenship:</p> <p>Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.</p>
PO4	<p style="text-align: center;">Ethics:</p> <p>Recognize different value systems including our own, understand the moral dimensions of our decisions, and accept responsibility for them.</p>
PO5	<p style="text-align: center;">Environment and Sustainability:</p> <p>Understand the issues of environmental protection, conservation and sustainable development.</p>
PO6	<p style="text-align: center;">Self-directed and Life-long Learning:</p> <p>Acquire the ability to engage in independent and life-long learning in the wake of socio-technological changes.</p>

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PROGRAM OUTCOMES (POs)

Department	Commerce & Mgt. Science	Program	M.Com.
On successful completion of M.Com :			
PO1	The students are equipped with necessary knowledge of latest trends in business and corporate world, research skills and commercial aptitudes.		
PO2	They can become good Managers, Accountants, Management Accountants, Cost Accountants, Bankers, Auditors, Stock agents, Lead Managers, Tax consultants, Teachers, government employees and so on.		
PO3	They can effectively perform at higher designations in corporate firms with the accounting and managerial skills acquired.		
PO4	They can effectively work on taxation related business processes.		
PO5	The students can set up and run successfully their businesses.		

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PROGRAM OUTCOMES (POs)

Department	Commerce & Mgt. Science	Program	MPM
On successful completion of MPM:			
PO1	The students are equipped with necessary knowledge of latest trends in labour market, business and corporate world, research skills and commercial aptitudes.		
PO2	They can become skilled H.R Managers, talent managers, consultants, placement coordinators, teachers and so on.		
PO3	They can effectively perform at higher designations in corporate firms with the necessary managerial skills acquired.		
PO4	They can effectively work in areas of employee recruitment, employee compensation, employee welfare, employee enrichment etc..		
PO5	The students can set up and run successfully their businesses.		

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PROGRAM OUTCOMES (POs)

Department	Chemistry	Program	M.Sc. Analytical Chemistry
PO1	Develops statistical knowledge required for carrying out research in chemistry field along with the basic essential knowledge of computers and use of certain software which are commonly used in chemistry.		
PO2	Application of various instrumentation techniques and working principles helpful in instrument handling in industries and research laboratories.		
PO3	Develops understanding of various types of instrumentations. Helpful in today's period of research studies and also in the industry. Have scope in research, development in new molecule identification.		
PO4	Understanding to job opportunities in the fields like Research, pharmaceutical, chemical and industrial sectors.		
PO5	Getting acquainted with techniques in selection of sources and compound purification. Have potential application in pharmacy. Basics of analytical chemistry which are very much helpful for getting opportunities in the quality division of various industries.		
PO6	Knowing the core concept of pharmaceutical industry.		
PO7	HPLC, HPTLC, and purification involves the most advanced techniques which are being used nowadays to solve many issues and development of various therapeutic products and have wide spread applications. Have scope in pharmaceutical, food, textile and various other industries.		
PO8	Tools of analytical techniques, advanced electro analytical techniques which are useful in industry.		

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PROGRAM OUTCOMES (POs)

Department	Biotechnology	Program	MSc Biotechnology
PO1	Acquire knowledge in domain of biotechnology enabling their applications in industrial research.		
PO2	Empower the students to acquire technological knowledge by connecting disciplinary and interdisciplinary aspects of biotechnology.		
PO3	Recognize the importance of Bioethics, IPR, entrepreneurship, Communication and management skills so as to usher next generation of Indian industrialists.		
PO4	Graduates obtain position in successful career in industry, research institutions, academic, government organizations and entrepreneurship.		
PO5	Graduates to be professionally competent in biotechnology to solve the problems in environmental, food, biochemical and biomedical engineering.		
PO6	Graduates should be able to do creative research and develop new technologies in the field of biotechnology, which can contribute to the industry and to academia.		
PSO7	Graduates should be able to practice biotechnology engineering in a responsible, professional and ethical manner and implement eco-friendly sustainable technologies for the benefit of industry as well as society.		
PO8	Graduate to be able to interact with their peers in immunological professionals and leaders to set up technical ambience in the society.		

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PROGRAM OUTCOMES (POs)

Department	Computer Science	Program	M.Sc. Computer Science
PO1	Proficiency in applying the principles of computer science and software development to develop effective computing-based solutions, while also understanding the underlying theoretical concepts.		
PO2	A solid foundation in computer science, with the ability to apply this knowledge creatively to solve complex problems using modern technologies.		
PO3	The skills necessary to analyze and formulate solutions to challenging scientific and technological problems, using a data-driven approach.		
PO4	Ability to pursue a successful career in information technology-oriented businesses or industries, developing the necessary skills to thrive in a fast-paced and competitive field.		
PO5	Ability to pursue successful employment in diverse computing-related fields, such as software development, Software engineering sub-areas, cyber security, and other related areas, by acquiring the necessary skills and knowledge to thrive in a variety of professional contexts.		
PO6	The skills and knowledge necessary to pursue advanced courses in computer science or related fields as well as pursue research-based studies.		

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PROGRAM OUTCOMES (POs)

Department	CHEMISTRY	Program	M.Sc INDUSTRIAL CHEMISTRY
PO1	Scientific knowledge applies knowledge of chemistry and industrial chemistry specialization to solution of complex scientific problems.		
PO2	Identify & formulates resource literature and analyzes complex scientific problems reaching substantiated using principles of chemistry & Industrial Chemistry.		
PO3	Design, development of solutions, design of solutions for complex scientific problems and design of complex process chemical process that meet the specified needs with appropriate considerations of public health and safety and cultural society and environmental considerations.		
PO4	Conduct of investigations complex problems use research based methods including design of experiments analysis and interpretation of data and synthesis of chemical products leading to logical conclusions.		
PO5	Modern tool usage creates select and applying appropriate techniques resources and modern production modeling complex scientific activities with an understanding of limitations.		
PO6	Environment and sustainability understand the impact of professional scientific solutions in the society and environmental context and demonstrate the knowledge of and the need for sustainable development area of industrial chemistry.		
PSO7	Capability to demonstrate knowledge and understanding of major chemistry concepts for article principles and experimental findings and ability to use modern instrumentation techniques with chemical analysis and separation process.		
PO8	Communication skills excellent communication skills to transmit complex technical information related to chemistry and industrial chemistry presentations and compilation in the form of scientific reports.		
PO9	Critical thinking able to employee critical thinking and efficient problem solving skills in the basic area of chemistry students will become efficient in managerial skills able to employee critical thinking analytical reasoning problems solving and interpretation and recommendation of laboratory experiments level suitable to level suitable to succeed at an entry level position in chemical industry.		
PO10	Students are able to identify and explore new areas of research and planning, execute and report the results of an experiment or investigation critical thinking and scientific enquiry in the performance and design approaches towards problems with critical reasoning research related skills will develop and ability to scale up chemical products and techniques at laboratory to the industrial level the course will take a student's beyond chemistry knowledge into the world of industrial professionals.		

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PROGRAM OUTCOMES (POs)

Department	Mathematics	Program	M.Sc. Mathematics
PO1	Be able to understand the core concepts and mathematical techniques.		
PO2	Be able to imagine abstract concepts and generalized concepts.		
PO3	Be able to obtain solution of mathematical problems by analytical approach with independent judgment.		
PO4	Be able to do prediction of quantitative information.		
PO5	Be able to think independently for solving the mathematical problems.		

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PROGRAM OUTCOMES (POs)

Department	Microbiology	Program	M.Sc. Microbiology
PO1	Develops statistical knowledge required for carrying out research in microbiological field along with the basic essential knowledge of computers and use of certain softwares which are commonly used in biological research. Develops insight into the metabolic pathways and utilization of various carbon compounds and understanding of bioenergetics. Helpful in the field of biological research.		
PO2	Application of various instrumentation techniques and working principles helpful in instrument handling in industries and research laboratories. Develops sound understanding of fermentation processes and products. Gets basic knowledge of the applied microbiology. Have scope in dairy and food industries. Can have opportunities in FDA, FSSAI etc.		
PO3	Develops understanding of various types of viruses. Helpful in today's period of viral studies and also in the studies of emerging virus. Have scope in research, development of kits for identification of viruses, vaccine production. Clear concepts of immunology helps in getting opportunities in medical research, vaccine production, development of kits for detection of diseases.		
PO4	Understanding microbial physiology is of utmost importance if someone is interested in carrying out research in microbiological field. Getting acquainted with extremophiles and extreme environmental is very promising in getting opportunities in environmental research, exploitation of those microbes for industrial purpose.		
PO5	Getting acquainted with techniques in selection of sources and enzyme purification. Have potential application in enzyme engineering. Basics of bioprocess engineering is very much helpful for getting opportunities in the production division of various industries.		
PO6	Knowing the genetics of the organism is helpful in most of the research and applications. Knowledge of environmental issues helps in solving various environmental issues by using the microbes as they are the efficient agents for reducing pollution or bioremediation etc.		
PO7	Recombinant DNA technology involves the most advanced techniques which are being used nowadays to solve many issues and development of various therapeutic products and have wide spread applications. Development of various industrial strains for economic production of industrially important products. Have scope in pharmaceutical, food, textile and various other industries.		

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PROGRAM OUTCOMES (POs)

Subject	Chemistry	Program	M.Sc. Organic Chemistry
PO1	Students are able to apply the knowledge gained during the course of the program of Chemistry, basic principles and concepts, basics of organic, inorganic and physical chemistry.		
PO2	Students able to understand the core concept of Chemistry subjects.		
PO3	Students acquired theoretical and practical aspects and analytical and logical skills in organic, inorganic and physical chemistry for higher Education.		
PO4	Students acquired the ability to design and execution of the experiment and understanding of principles of different analytical techniques, instruments, skills, reagents properties and its specific use.		
PO5	The students got ability and confidence to take up competitive exams and also eligible for admissible in Master degree program.		
PO6	Trained to take up job opportunities in allied fields such as pharmaceuticals, chemicals and other industrial sectors.		
PO7	Students are able to apply the skills and knowledge gained during the course of the program of Chemistry, basic principles and concepts, basics of organic, inorganic and physical chemistry.		
PO8	Able to understand the core concept of Chemistry subjects.		
PO9	Students acquired theoretical and practical aspects and analytical and logical skills in organic, inorganic and physical chemistry for higher Education.		
PO10	Students acquired the ability to design and execution of the experiment and understanding of principles of different analytical techniques, instruments, skills, reagents properties and its specific use.		
PO11	The students got ability and confidence to take up competitive exams and also eligible for admissible in Master degree program.		

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PROGRAM OUTCOMES (POs)

Department	Geology	Program	PGDDT
PO1	The students are equipped with necessary knowledge of latest trends in Drilling Technology		
PO2	Expected Jobs on Onshore and Offshore Drilling Rigs		
PO3	Jobs as Mud logger, Sampler Catcher, Data Engineer		
PO4	In Directional Drilling, MWD, Assistant Driller		
PO5	Wide range of jobs in Open cast and Underground Mining		
PO6	Geo technical Operator in Drilling sites of various companies like DGM, GSDA, GSI, CGWB etc.		
PO7	The students can set up and run successfully their businesses.		