

# ASSABAH

Arts and Science College



**PROGRAMME OUTCOME OF  
VARIOUS DEPARTMENTS**

## PROGRAM OUTCOMES OF VARIOUS DEPARTMENTS

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**P.G. PROGRAMMES**



**M.Sc. FOOD SCIENCE AND  
TECHNOLOGY**

Code	PO Statement
PO1	They demonstrate in-depth knowledge of the scientific foundations of the disciplines in engineering and the natural sciences that constitute the field of food technology
PO2	They demonstrate an ability to analyze both complete systems and the constituent parts of the industrial manufacture of food products
PO3	They demonstrate an insight into how different sub-systems cooperate with each other . .
PO4	They demonstrate an insight into current research and development in the field
PO5	They demonstrate enterprising skills
PO6	They demonstrate an ability to identify, formulate and treat complex issues in the field of food technology from a holistic perspective and in an independent manner
PO7	They able to analyze and evaluate critically various technical solutions in the field
PO8	They demonstrate an ability to be able to participate in research and development projects in food technology

<b>Code</b>	<b>PO Statement</b>
PO9	They demonstrate an ability to acquire new knowledge in the field and to integrate this with existing knowledge .
PO10	They demonstrate an ability to plan and execute advanced assignments in the field in an independent manner
PO11	They demonstrate an ability to develop and design industrial food product systems and processes with regard to human needs and conditions, and the goals of society both local and global, for sustainable development
PO12	They demonstrate an ability to give a clear account of his/her level of knowledge and various types of project work, both orally and in writing, in an international context
PO13	They demonstrate an ability to make judgments with regard to relevant scientific, social and ethical aspects in the field
PO14	They demonstrate an ability for working in a team and for cooperation with variously constituted groups
PO15	They demonstrate an ability to identify his/her need of further knowledge in the field and continuously deepen
PO16	Demonstrate practical proficiency in a food analysis laboratory



**MASTER OF ARTS IN ENGLISH**

Code	PO Statement
PO1	Attained profound expertise in discipline
PO2	Acquired ability to function in multidisciplinary Domains
PO3	Attained ability to exercise Research intelligence in investigation and innovations
PO4	Learnt ethical principles and be committed to professional
PO5	Incorporated self directed and lifelong learning
PO6	Obtained ability to maneuver in diverse contexts with Global
PO7	Attained Maturity to respond to one's calling





**MASTER OF COMMERCE**

Code	PO Statement
PO1	To provide a systematic and rigorous learning and exposure to banking and finance related disciplines.
PO2	To train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and banking transactions of a business..
PO3	To acquaint a student with conventional as well as contemporary areas in the discipline of commerce.
PO4	To enable a student well versed in national as well as international trends.
PO5	To facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.
PO6	To provide in-depth understanding of all core areas specifically advanced accounting, international accounting, management, security market operations and business environment, research methodology and tax planning.



**M.Sc. CHEMISTRY**

<b>Code</b>	<b>PO Statement</b>
PO1	Demonstrate and apply the fundamental knowledge of the basic principles in various fields of Chemistry
PO2	Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to Environmental pollution.
PO3	Apply knowledge to build up small scale industry for developing endogenous product.
PO4	Apply various aspects of chemistry in natural products isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach of the subject.
PO5	Collaborate effectively on team-oriented projects in the field of Chemistry or other related fields.
PO6	Inculcate logical thinking to address a problem and become result oriented with a positive attitude.
PO7	Explain environmental pollution issues and the remedies thereof.
PO8	Apply the knowledge to develop the sustainable and eco-friendly technology in Industrial Chemistry.
PO9	Have developed their critical reasoning, judgment and communication skills..
P10	Augment the recent developments in the field of green and eco-friendly reactions, pharmaceutical, Bioinorganic Chemistry and relevant fields of research and development.
P11	Enhance the scientific temper among the students so as to develop a research culture and implementation of the policies to tackle the burning issues at global and local level.

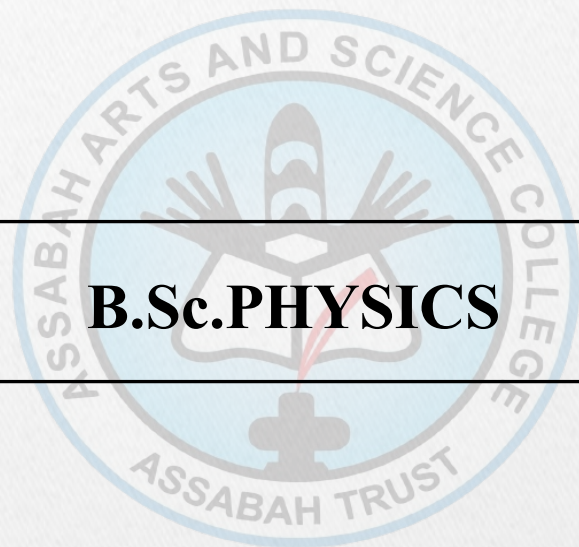


**M.Sc. PHYSICS**

<b>Code</b>	<b>PO Statement</b>
PO1	Demonstrate comprehensive understanding and mastery of the foundational principles of classical mechanics, quantum mechanics, electrodynamics, and statistical mechanics.
PO2	Apply advanced theoretical knowledge in frontier subjects such as atomic physics, molecular physics, nuclear physics, plasma physics, solid state physics, materials science, and astrophysics..
PO3	Utilize mathematical physics as a theoretical tool to solve complex physical problems and develop new theories..
PO4	Conduct sophisticated experiments using electronics as an experimental tool, encompassing general physics, modern physics, and computational physics techniques.
PO5	Engage in independent and collaborative research projects, contributing to the advancement of knowledge in both foundation and frontier subjects of physics.
PO6	Develop strong problem-solving skills, enabling the analysis and interpretation of complex physical phenomena.
PO7	Apply the principles and techniques learned to real-world problems and contemporary research in physics, demonstrating the relevance of physics to various scientific and technological domains.
PO8	Cultivate critical thinking and innovative approaches in exploring new areas of research and addressing unresolved questions in physics.



**U.G. PROGRAMMES**



**B.Sc.PHYSICS**



Code	PO Statement
PO1	Demonstrate a deep understanding of core physics principles including mechanics, properties of matter, and electrodynamics
PO2	Comprehend and apply theoretical frameworks in quantum mechanics, relativistic physics, nuclear physics, optics, spectroscopy, solid state physics, astrophysics, statistical physics, photonics, and thermodynamics.
PO3	Utilize knowledge of electronics to design and analyze various analog and digital circuits.
PO4	Develop proficiency in computer programming and numerical analysis for solving complex physical problems.
PO5	Conduct experiments to test and verify theoretical concepts, demonstrating proficiency in laboratory techniques and data analysis.
PO6	Engage in research methodologies and projects, fostering critical thinking and problem-solving skills..
PO7	Effectively communicate scientific ideas and results, both orally and in writing, and collaborate successfully within a team
PO8	Uphold ethical standards and exhibit professionalism in scientific practices and interactions. Recognize the importance of lifelong learning and continuously seek to update and expand their knowledge in the field of physics.



**B.Sc.PSYCHOLOGY**

Code	PO Statement
PO1	Possess disciplinary knowledge of concepts, theoretical approaches, and methodologies to understand, predict, and manage human behavior and mental processes.
PO2	Develop a healthy curiosity about applications of psychology to everyday life and cultivate an attitude of lifelong learning; apply the knowledge of psychology to various work, relationship and life settings (e.g., human resource management, parenting, academics, etc.); analyze interpersonal and intrapersonal processes and situations using psychological approaches.
PO3	Understand how information is processed (encoding, storage, retrieval for cognitive processes); evaluate and think critically about information that is disseminated through books, articles and social media.
PO4	Understand social psychological theories of individual and group behaviour (social cognition, social perception, social influence, group processes).
PO5	Understand human development from conception to death (including physical, cognitive, emotional and social aspects).
PO6	Understand how psychometric tools are developed and used for assessment; evaluate the different techniques of psychological assessment.
PO7	Understand the complex interaction of factors that contribute to mental health disorders.
PO8	Understand the basic counseling process, skills, and techniques used for psychotherapy.
PO9	Understand and use the scientific method of research to verify existing knowledge and create new knowledge.
P10	Conduct experiments, administer tests, and maintain a journal with written reports of practicals conducted in the laboratory (including a literature review, methodology, treatment of results, and discussion for each practical experiment).
P11	Appreciate diversity in experiences, people, ideas, and perspectives; explore individual differences and acknowledge the power of subjective reality; use divergent thinking for creative problem-solving.
P12	Prepare himself/herself for a career specializing in a field of psychology (clinical, counseling, industrial, social, cognitive, developmental, research, and assessments).

Code	PO Statement
P13	Have conversational competence (listen and communicate effectively with others to enhance relationships, and develop empathy).
PO14	Develop an attitude of self-understanding, reflexivity, and personal growth; develop positive attributes (compassion, accountability) and self-regulation (emotional intelligence); use constructive strategies to cope with conflict and stress.
PO15	Understand the importance of gender sensitization and apply these insights to interpersonal and group interactions.
PO16	Apply knowledge of psychology to understand group processes and socially relevant topics and community issues (e.g., prejudice, altruism, abuse, polarization, interpersonal attraction, stigmatization of mental illness, ethics, constructive coping, multiculturalism, etc.).
PO17	Understand and apply psychological research to enhance attitudes and behavior in the workspace (organizational behavior); work independently and in groups (understand the power of collaboration and cooperation).
PO18	Develop a multilevel commitment to health and wellbeing (individual, organization, community, society).



**B.Sc. GEOLOGY**

Code	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Problem Solving: Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired from humanities/ sciences /mathematics/social sciences.
PO3	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO6	Self-directed and Life-long Learning: Acquire the ability to engage in independent and lifelong learning in the broadest context socio-technological changes.



**B.A. ENGLISH LANGUAGE  
AND LITERATURE**

Code	PO Statement
PO1	Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (Intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Effective Citizenship: Ability to demonstrate empathetic social concern and equity entered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO4	Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development.
PO5	Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings..
PO7	Problem Solving and Analytical Skills: Ability to think rationally, analyse situations and solve problems adequately.





**BACHELOR OF BUSINESS  
ADMINISTRATION**

<b>Code</b>	<b>PO Statement</b>
PO1	To provide the students with the basic understanding about management education..
PO2	To prepare student to exploit oppurtunities being newly created in the management profession.
PO3	To focus on the holistic development of the students with conceptual clarity, analytical ability, critical thinking and communication skills.
PO4	To develop appropriate skills in the students so as to make them competent and provide themselves self employment.
PO5	To train the students to be competent entry level management professionals.
PO6	To impart basic and operational knowledge on all functional areas of management.
PO7	To inculcate entrepreneurial skill among the management graduates to turn to successful entrepreneurs.
PO8	To promotes ethical and value based leadership ability.
PO9	To equip students to demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems.



**B.Sc. MATHEMATICS**

Code	PO Statement
PO1	Disciplinary knowledge
PO2	Communication skills
PO3	Critical thinking.
PO4	Analytic reasoning
PO5	Problem solving
PO6	Research related skills
PO7	Information/digital literacy
PO8	Self directed learning
PO9	Life long learning
PO10	Application skill
PO11	Experimental skill
PO12	Moral and ethical awareness /reasoning



**B.Sc. CHEMISTRY**

Code	PO Statement
PO1	To understand basic facts and concepts in chemistry.
PO2	To develop the ability for applying the principles of chemistry
PO3	To appreciate the achievements in chemistry and to know the role of chemistry in nature and in society.
PO4	To familiarize the emerging areas of chemistry and their applications in various spheres of chemical sciences and to apprise the students of its relevance in future studies
PO5	To develop skills in the proper handling of instruments and chemicals.
PO6	To be exposed to the different processes used in industries and their applications.
PO7	To make the students eco-friendly by creating a sense of environmental awareness in them.
PO8	To make the students aware of the applications of chemistry in day-to-day life



**B.Sc. FOOD TECHNOLOGY**

Code	PO Statement
PO1	They will demonstrate knowledge of Food Chemistry, Food Microbiology, Food science and Food engineering.
PO2	They will demonstrate an ability to identify, formulate and solve processing problems related to food sector/industry.
PO3	They will able to focus on the importance of safe processed nutritious food.
PO4	They will be get exposure to various technologies aspect of Food product preparation.
PO5	They will demonstrate an ability to design or process food products as per the needs and specifications. .
PO6	They will demonstrate an ability to work in Food industries, research organization and teaching.
PO7	They will demonstrate skills to use modern tools and equipment to analyze food prone infection and food spoilage.
PO8	They will demonstrate knowledge of professional and ethical





# **BACHELOR OF COMMERCE**

Code	PO Statement
PO1	The students will get new ideas, insights and thoughts. The mindset of students will change. They get new ideas and practical experience. Such students can face challenges with confidence and succeed in life
PO2	The students will be thorough with the procedures and formalities of establishment and management of business units. As all aspects are well debated, it will be easy for them to establish and successfully run business units
PO3	The students will be conversant with the various accounting principles and practices. All will be capable of recording, generating financial reports and arriving at conclusions and predictions
PO4	The inter-disciplinary approach will help students to solve business issues easily and will emerge as successful entrepreneurs in future
PO5	The multidisciplinary in-depth learning across all related topics of business and industry will definitely pave a strong foundation for higher learning in commerce and management
PO6	In depth understanding of management principles will help to create managerial aptitude and skills in students will foster successful managers for future
PO7	In depth understanding of Accounting principles and practices coupled with interdisciplinary learning will help to create newer ideas in accounting and will bring in innovative and creative professionals in Finance, Cost and Management
PO8	The knowledge of direct and indirect taxation will open up a new area of living by students. Information on both direct and indirect taxation systems will cut open a wider area of employment and professionalism
PO9	The improved communication skills and basic understanding of laws in force of the country will definitely add to the content level and level of interaction by students
PO10	Students become more confident, self-reliant, competent and Competitive with practical insights and thorough learning



**Bsc. COMPUTER SCIENCE**

<b>Code</b>	<b>PO Statement</b>
PO1	Demonstrate the aptitude of Computer Programming and Computer based problem solving skills
PO2	Display the knowledge of appropriate theory, practices and tools for the specifications, design and implementation.
PO3	Ability to learn and acquire knowledge through online courses available at different massive open online course providers
PO4	Ability to link knowledge of Computer Science with other two chosen Complementary disciplines of study
PO5	Display ethical code of conduct in usage of Internet and Cyber systems
PO6	Ability to pursue higher studies of specialization and to take up technical employment
PO7	Ability to formulate to model, to design solutions, procedure and to use software tools to solve real world problems and evaluate
PO8	Ability to operate manage, deploy, configure computer network, hardware, software operation of an organization
PO9	Ability to present result using different presentation tools
PO10	Ability to appreciate emerging technologies and tools



# **BACHELOR OF COMPUTER APPLICATION**

Code	PO Statement
PO1	Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives. Computer Programming and Computer based problem solving skills
PO2	Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Effective Citizenship: Ability to 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.
PO4	Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development.
PO5	Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO7	Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately.