

## University of Engineering & Management, Kolkata Department: Computer Applications (CA) Program Outcomes (POs) and Program Specific Outcomes (PSOs)

## List of Program Outcomes (POs) for MCA Department are given below.

<b>PO NUMBER</b>	SUMMARY	DESCRIPTION
PO1	Application of Knowledge	An ability to apply knowledge of
		computing, mathematics, science,
		humanities and engineering fundamentals
		for solution of Computer Application
		problems.
PO2	Problem Analysis	An ability to analyze a problem, then
		identify and formulate the computing
		requirements appropriate to its solution.
PO3	Development of Solutions	An ability to design, implement and
		evaluate a Computer based problems with
		appropriate consideration for public health
		and safety, cultural, societal and
		environmental considerations.
PO4	Conduct investigations of	An ability to design and conduct
	complex problem	experiments, as well as to analyze and
		interpret data to reach valid conclusions.
PO5	Modern Tool Usage	An ability to create, select and apply
		appropriate techniques, skills, and modern
		tools necessary for computing practice.
PO6	Impact on Society	An ability to analyze the local and global
		impact of computing on individuals,
		organizations, and society.
PO7	Environment and	An ability to understand the impact of the
	sustainability	proposed solutions in societal and
		environmental contexts, and demonstrate
200		the need for sustainable development.
PO8	Ethics	An ability to apply ethical principles and
		commit to professional ethics and
		responsibilities and norms while proposing
		solution for various Computer Application
<b>DO</b> 0	Individual and team mark	problems.
ruy	Individual and team work	All ability to function effectively
		diverse and multidiacialineary environment
		to accomplish a common cosl
PO10	Communication	An ability to communicate officially on
1010		complex computational problems with the
1		complex computational problems with the

		business community and with the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance	An ability to demonstrate knowledge and understanding of the technical and
		management principles and apply these to one's work, as a member and leader in a
		team, to manage projects in multidisciplinary environments.
PO12	Continuous Learning	An ability to engage in professional
		development through continuous learning
		changes happening globally
		changes happening globally.

List of Program Specific Outcomes (PSOs)

PSO Number	Description	
PSO 1	Students will demonstrate proficiency in designing, developing, and	
(Advanced Software	managing complex software systems. They will be skilled in applying	
<b>Development and</b>	contemporary programming languages, development frameworks, and	
Engineering Skills)	software engineering principles to solve real-world problems and meet	
	the needs of industry and academia.	
PSO 2	Students will exhibit advanced capabilities in data analytics, database	
(Data Analysis and	management, and information retrieval. They will be able to apply	
Management	statistical and machine learning techniques to analyze large datasets,	
Expertise)	derive meaningful insights, and support data-driven decision-making	
	processes in various sectors.	
PSO 3	Students will possess the ability to conduct independent research,	
(Research and	explore emerging technologies, and innovate new solutions. They will	
Innovation	be adept at formulating research problems, designing experiments,	
<b>Proficiency</b> )	analyzing results, and contributing to the body of knowledge in	
	computer science and its applications through scholarly	
	publications and projects.	