Progressive Education Society's

Modern College of Arts, Science and Commerce (Autonomous),

Shivajinagar, Pune – 411005

Department of Computer Science

Program Specific Outcomes (PSOs) and Course Outcomes (COs)

Programme: M.C.A.

After successful completion of MCA Computer Science, the student will be able to:

	Program Outcomes (POs)	
Knowledge or Academic Expertise:		
i.	Produce knowledgeable and skilled human resources who are	
	employable in IT and can also work as Researchers, Entrepreneurs or	
	Software Professionals	
ii.	Have knowledge required for planning, designing and building Complex	
	Application Software Systems	
iii.	Able to identify, formulate and solve real world computing system	
	problems of various domains by understanding and applying the	
	principles of mathematics, computing techniques and business concepts	
iv.	Provide support to automated systems or application.	
V.	Produce entrepreneurs who develop customized solutions for small and	
	medium Enterprises	
vi.	Students will be able to understand, analyse and develop computer	
	programs in the areas related to algorithm, system software, web design	
	and networking for efficient design of computer based system.	
vii.	Apply standard software engineering practices and strategies in software	
	project development using open source programming environment to	
	deliver a quality of products for business	
viii.	Student will be able to know various issues, latest trends in technology	
	development and thereby provide innovate new ideas and solutions to	
	existing problems.	
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	ix.	Will have the ability to apply knowledge of mathematics, probability and
		statistics to computer science and solve problems.
	Х.	Ability to define, assess and adhere to software quality practices and
		software processes and methodologies
	xi.	Apply mathematical foundations, algorithmic principles and computer
		science theory in the modeling and design of computational systems
	xii.	Students will be able to demonstrate and apply the knowledge of
		Programming languages and technologies to develop effective software
		solutions
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PSO 2	Inqui	sitive learner or involved in Lifelong learning
	i.	Ability of life-long self learning and to keep oneself up-to-date in the
		field of technology
	ii.	Pursue professional certifications available as per latest trends in
		technology
PSO 3	Social	competence
	i.	Analyse and understand the evolutionary changes in computing by
		inculcating employability and entrepreneur skills among the lifelong learners with moral values and ethics
	ii.	Developed skills required for social interaction
	iii.	Gain awareness of Professional ethics in the software industry, and eqip
		them with soft skills essential for working in Professional teams
	1V.	Ability to work in Collaborative and Multidisciplinary work
PSO 4	Fffac4	ive communication
	i.	Students will be able to demonstrate adequate skills in oral and written
		communication for technical English language, actively participate in
		group discussions and interviews and exhibit the evidence of vocabulary
		building.
	ii.	Inculcate essential skills as demanded by the industry which includes
		team-building skills, audio- visual presentations and personality
		development programs
	iii.	Gain confidence for effective public/team interaction

PSO 5	Envi	ronmental awareness
1505	i.	Understanding the global environmental issues and have the ability to
		reflect critically on their roles as citizens, consumers and environmental
		actors in an interconnected world
	ii.	Will be aware of environmental and sustainability issues and work
		towards its conservation
PSO 6	Digit	al competence
	i.	Acquired necessary and state-of-the-art skills to take up industry
		challenges
	ii.	Students will be able to adapt the skills to implement effective solutions
		for need based problems by applying knowledge gained through different
		programming languages, tools and software covered in the syllabus of
		program.
PSO 7	Ехре	riential Learning
	i.	Graduates will be able to demonstrate the ability to design creative
		solutions to real life and most relevant problems faced by the Industry
		and Society at large to meet the requirements of Industrial standards
PSO 8	Fthic	al values
1500	i.	Ability to do SWOT analysis for one-self
	ii.	An understanding of professional, ethical, legal and social issues and
	11.	responsibilities
		responsionnes
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PSO 9		viduality and Teamwork or Interdisciplinary Studies
	i.	Analyse, design, test, develop and maintain desktop, web, mobile and cross platform software applications using modern tools and
		technologies in an economical and affordable way.
	ii.	Gain ability to work as a member or leader in diverse teams in
		multidisciplinary environment.
	iii.	Ability to work as self motivated individual

PSO 10	Research and problem solving competence		
	i. Identify the potentiality to design experiments for complex problems,		
	collect data, interpret data, develop, implement computer programs and		
	use knowledge in various domains to identify research gaps and hence to		
	provide solutions to new ideas and innovations		
	ii. Gain eligibility to take up higher studies/research		
	iii. Incorporate different domains and technologies for research purpose		
	iv. Able to apply the knowledge of programming languages, tools and		
	techniques to conduct research		
	v. Graduates will be able to effectively communicate technical topics in		
	written and verbal forms.		
PSO 11	Stress management		
	ii. Meditation practices		
PSO 12	Extramural skills		
	i. Ability to participate in Co-curricular activities which are important for		
	overall development		
	ii. Participation in International/N ational/ State level competitions		