



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

2.6.2 PROGRAM SPECIFIC LEARNING OUTCOMES, PROGRAM OUT COMES AND PROGRAM EDUCATIONAL OBJECTIVES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STATEMENTS	
PROGRAM OUTCOMES (PO)	
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with 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.

Guide



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

PO1 1	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO1 2	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO 1	Professional Skills: Ability to design, develop and evaluate innovative projects which meet the requirements of industry.
PSO 2	Ability to do Research and Development using the modern computing technology for society.

Program Educational Objectives (PEOs) of

Department After course completion CSE graduates will

be able to:

PEO 1	Graduates acquire advanced knowledge of Computer Science Engineering and excel in leadership roles to serve the society.
PEO 2	Graduates of the program will apply Computer Science and Engineering and excel in leadership computer science professional.
PEO 3	Graduates adapt Value-Based Proficiency in solving real time problems.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING MTech

STATEMENTS	
PROGRAM OUTCOMES (PO)	
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PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
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PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with 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.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

PO1 1	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO1 2	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	

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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

<u>STATEMENTS</u>	
PROGRAM OUTCOMES (PO)	
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
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PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with 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: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO1	Professional Skills: Ability of using mathematical methodologies for analysis of computing concepts, data structure, computer hardware, layered technologies and suitable algorithm which in turn helps students to model, design and implement a system to meet specific requirement
PSO2	Software Skills: Ability to grasp the software development lifecycle and methodologies of software systems and to build software engineering system of varying complexity



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STATEMENTS

INSTITUTE VISION

To be a leader in imparting value based Technical Education and Research for the benefit of society.

INSTITUTE MISSION

To provide state of the art Infrastructure facilities.

To implement modern pedagogical methods in delivering the academic programs with experienced and committed faculty.

To create a vibrant ambience that promotes Learning, Research, Invention and Innovation.

To undertake manpower and skill development programmes for Academic Institutions and Industries. To enhance Institute Industry Interface through Collaborative Research and Consultancy

To generate and disseminate knowledge through training programme/workshops/seminars/conferences/publications.

To be a more comprehensive college in terms of the number of programs offered.

To relentlessly pursue professional excellence with ethical and moral values.

DEPARTMENT VISION

To develop outstanding Electronics and Communication Engineers to meet the ever changing Social and Technological needs of the Society.

DEPARTMENT MISSION

MoD 1 To provide State-of-the-Art infrastructure in Electronics and Communication Engineering.

MoD 2 To disseminate strong theoretical and practical exposure to meet the emerging trends in the industry.

MoD 3 To promote a free thinking environment with innovative teaching-learning pedagogy.

MoD 4 To develop value based socially responsible professionals for the betterment of the Society.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO 1 Develop and excel in their chosen profession on technical front and/or progress towards advanced continuing education, Inter-disciplinary Research and Entrepreneurship.

PEO 2 Become reputed and innovative solution provider to complex system design problems or challenges relevant to Electronics and Communication.

PEO Progress as effective team members and achieve a leadership position with trust, mutual respect and professional ethics.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

3	
PEO 4	Become responsible and pro-active citizens for the overall welfare and progress of the Society.
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

	environments.
PO1 2	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO 1	Develop the components for analog and digital systems, communication systems, control and signal processing systems using acquired knowledge of basic skills and various design tools.
PSO 2	Formulate the solution for interdisciplinary problems through acquired programming knowledge in the respective domain by complying real-time constraints.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

M.Tech in VLSI & ES

STATEMENTS	
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

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PO1 2	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO 1	Develop the knowledge and competency in areas of VLSI and Embedded Systems, IC Fabrication, Design, Testing, Verification and prototype development focusing on applications.
PSO 2	Formulate solutions for interdisciplinary problems through acquired programming knowledge in the respective domains complying with real-time constraints.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF MECHANICAL ENGINEERING

<u>STATEMENTS</u>	
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with 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.
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PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO1	Graduates are able to analyze, design and manufacture mechanical systems with latest available technologies
PSO2	Graduates are able to work on interdisciplinary projects in their research and development activities.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF MECHANICAL ENGINEERING (MACHINE DESIGN)

PROGRAM OUTCOMES (PO)	
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PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

	knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with 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.
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PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO1	Graduates are able to analyze, design and manufacture mechanical systems with latest available technologies
PSO2	Graduates are able to work on interdisciplinary projects in their research and development activities, along with the skills and adequate knowledge in managerial capability and entrepreneurship.
PROGRAM EDUCATIONAL OBJECTIVES (PEO)	
PEO 1 (Knowledge)	Graduates of Mechanical Engineering shall Develop Strong Academic Foundation in science and mechanical engineering to pursue a diverse range of careers as engineers, consultants and entrepreneurs.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

PEO 2 (Skills)	Emerging as skilled engineers mastered in diversified interdisciplinary technologies as a concrete competent innovators in Industries and Academics.
PEO 3 (Attitude)	Graduates of Mechanical Engineering will inculcate skills to identify real time needs and provide solutions based on social, environmental, ethical and cultural values through interdisciplinary team approach.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

<u>STATEMENTS</u>	
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

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PO1 2	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO 1	Graduate will be able to apply the knowledge acquired from strong fundamentals of mathematics, science and engineering subjects to identify, formulate, design and investigate complex engineering problems of electrical and electronics to pursue successful carrier/higher studies.
PSO 2	Be a professional to apply appropriate techniques and modern engineering software tools to design and develop Electrical systems, also engage in lifelong learning and successfully acquire leadership qualities, communication skills, ethical attitudes, achieve competence excel individually, work efficiently in team and become entrepreneur.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

MTECH IN POWER SYSTEM ENGINEERING

STATEMENTS	
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

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PROGRAM SPECIFIC OUTCOMES (PSO)	
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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF CIVIL ENGINEERING (2020-21)

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AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

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PO1 2	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO 1	Graduates are able to analyse, design and construct Civil Engineering systems with state of the art technologies
PSO 2	Graduates are able to work on interdisciplinary and multidisciplinary projects in Green Buildings Sustainable Technologies related research and development activities
PSO 3	CIVIL Engineering Graduates are encouraged to hone their skills in Total Quality Management and Entrepreneurship



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

STATEMENTS	
PROGRAM OUTCOMES (PO)	
PO1	Computational Knowledge: Apply Knowledge of Computing Fundamentals, Computing Specialization, Mathematics, and Domain Knowledge appropriate for the Computing Specialization to the Abstraction and Conceptualization of Computing models from defined problems and requirements.
PO2	Problem analysis: Identify, Formulate, Research Literature, and solve Complex Computing problems reaching substantiated conclusions using fundamental Principles of Mathematics, Computing Sciences, and relevant Domain Disciplines.
PO3	Design/development of solutions: Design and Evaluate solutions for Complex Computing problems, and Design and Evaluate systems, Components, or Processes that meet specified needs with appropriate consideration for Public Health and Safety, Cultural, Societal, and Environmental considerations.
PO4	Conduct investigations of complex problems: Use Research-Based Knowledge and Research methods including design of Experiments, Analysis and Interpretation of data, and synthesis of the information to provide valid conclusions
PO5	Modern tool usage: Create, Select, Adapt and Apply Appropriate techniques, resources, and Modern Computing tools to Complex Computing activities, with an understanding of the limitations.
PO6	Professional Ethics: Understand and Commit to Professional Ethics and Cyberregulations, Responsibilities, and norms of Professional Computing Practices.
PO7	Life-long Learning: Recognize the need, and have the ability, to engage in independent Learning for Continual Development as a Computing Professional.
PO8	Project management and finance: Demonstrate Knowledge and understanding of the Computing and Management Principles and Apply these to one's own work, as a member and leader in a team, to manage projects and in Multidisciplinary Environments.



AMC ENGINEERING COLLEGE

18th K.M, Bannerghatta Road, Kalkere, Bengaluru - 560 083

PO9	Communication Efficacy: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
PO10	Societal and Environmental Concern: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practices.
PO11	Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
PO12	Innovation and Entrepreneurship: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.
PROGRAMME EDUCATIONAL OBJECTIVES (PEO)	
PEO1	To prepare students to compete in computing careers by providing strong technical foundations in the field of computer applications.
PEO2	To provide students various computing skills like analysis, design, coding and development of innovative software products to meet the industry and societal needs.
PEO3	To encourage students to pursue lifelong learning and to do innovation, research and development as computing professionals.
PEO4	To encourage students to communicate and perform excellently in teams in interdisciplinary fields within the global and environmental perspective.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO1	Understand and apply the latest computing tools and techniques for solving the realtime industrial, societal and environmental issues.
PSO2	Analyse, design, develop, test and maintain the software with current tools and technologies.



AMC ENGINEERING COLLEGE

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

<u>STATEMENTS</u>	
PROGRAM OUTCOMES (PO)	
PO1	Acquire sufficient theoretical knowledge and are enabled to apply them to solve practical problems in business and other organizations / Institutions of importance
PO2	Apply Effective communication skills with a high degree of lateral and critical thinking that enhances learn ability, developed for being continuously employable.
PO3	Demonstrate leadership qualities, ethically sound, enabled with decision making skills that reflect a high degree of social consciousness
PO4	Recognize the need for sustained research orientation to comprehend a growingly complex, economic, legal and ethical environment
PO5	Possess self-sustaining entrepreneurship qualities that encourages calculated risk taking.
PROGRAM SPECIFIC OUTCOMES (PSO)	
PSO 1	Apply various concepts and strategies of Business Management.
PSO 2	Carry out Research in the field of Management
PSO 3	Demonstrate Team Management skills and to become Competitive.



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PROGRAM EDUCATIONAL OBJECTIVES (PEO)	
PEO 1	Management Graduates to gain knowledge on critical functions of business
PEO 2	Produce Skilled Management Professionals to Analyse Qualitative and Quantitative Data of Enterprise to make smart decisions
PEO 3	Management Graduates to develop Positive Attitude, Leadership Qualities, Team Work, Social, Legal and Ethical Responsibilities in Business and Society.

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