Civil Engineering
PROGRAM EDUCATIONAL OBJECTIVES

PEO1
Uphold the professionalism, ethics and responsibility of the Civil Engineering profession.

PEO2
Possess a general education and an understanding of the global demand of civil engineering markets and hence able to promote themselves in the international arena.

PEO3
Extend their knowledge by independent learning and continuing education and contribute to the advancement of the profession through involvement in research and development (R&D) activities.

PEO4
Promote multicultural harmony and unity amongst different races and cultures by involvement in the technical or non-technical societies.
PROGRAM OUTCOMES

01. Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to solve complex Civil Engineering problems.

02. Identify, formulate and analyze complex Civil Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

03. Design solutions for complex Civil Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for global, socio-economic and environmental aspects.

04. Conduct investigation into complex Civil Engineering problems utilizing systemic approach to provide valid conclusions.

05. Create, select and apply appropriate techniques, resources and modern engineering and IT tools, to Civil Engineering activities, with an understanding of the limitations.

06. Apply reasoning informed by contextual knowledge to assess societal, health, safety and cultural issues and the consequent responsibilities relevant to professional Civil Engineering practice.

07. Understand the impact of professional Civil Engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

08. Apply ethical principles and commit to professional ethics and responsibilities and norms of Civil Engineering practice.

09. Communicate effectively on Civil 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.

10. Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.

11. 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.

12. Demonstrate knowledge and understanding of Civil 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 and cultivate entrepreneurship skills.
PEO & PO

Mechanical & Manufacturing Engineering
PROGRAM EDUCATIONAL OBJECTIVES

PEO1
Uphold the professionalism and ethics of the Mechanical and Manufacturing Engineering profession in national and international arena.

PEO2
Enhance knowledge by practicing independence and life-long learning in order to contribute to the advancement of the profession through involvement in research and development activities.

PEO3
Promote multicultural harmony and unity amongst different races and cultures through involvement in the technical or non-technical societies.
PROGRAM OUTCOMES

01. Apply knowledge of mathematics, science, engineering fundamentals or an engineering specialization to solve complex Mechanical and Manufacturing Engineering problems.

02. Identify, formulate and analyse complex Mechanical and Manufacturing Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

03. Design solutions for complex Mechanical and Manufacturing Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for global, socio-economic and environmental aspects.

04. Conduct investigation into complex Mechanical and Manufacturing Engineering problems utilizing systematic approach to provide valid conclusions.

05. Create, select and apply appropriate techniques, resources and modern engineering and IT tools, to engineering activities, with an understanding of the limitations.

06. Apply reasoning informed by contextual knowledge to assess societal, health, safety and cultural issues and the consequent responsibilities relevant to professional Mechanical and Manufacturing Engineering practice.

07. Understand the impact of professional Mechanical and Manufacturing Engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

08. Apply ethical principles and commit to professional ethics and responsibilities and norms of Mechanical and Manufacturing Engineering practice.

09. Communicate effectively on Mechanical and Manufacturing 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.

10. Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

11. 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.

12. Demonstrate knowledge and understanding of 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 and to cultivate entrepreneurship skills.
PEO & PO

Electronics Engineering (Telecommunication)

PROGRAM EDUCATIONAL OBJECTIVES

PEO1
Applying Electronics Engineering knowledge based on a solid foundation in Telecommunication Engineering areas for the needs of the stakeholders.

PEO2
Upholding the importance of professionalism and ethics in Electronics Engineering profession to form a cultured and more developed society.

PEO3
Possessing communication and interpersonal skills, to meet the nation’s and stakeholders’ aspiration.

PEO4
Developing skills in research in Electronics Engineering particularly in the areas of Telecommunication Engineering to generate new knowledge to satisfy the needs of the stakeholders.
Electronics Engineering (Computer)

PROGRAM EDUCATIONAL OBJECTIVES

PEO1
Applying Electronics Engineering knowledge based on a solid foundation in Computer Engineering areas for the needs of the stakeholders.

PEO2
Upholding the importance of professionalism and ethics in Electronics Engineering profession to form a cultured and more developed society.

PEO3
Possessing communication and interpersonal skills, to meet the nation’s and stakeholders’ aspiration.

PEO4
Developing skills in research in Electronics Engineering particularly in the areas of Computer Engineering to generate new knowledge to satisfy the needs of the stakeholders.
PEO & PO

PROGRAM OUTCOMES

01. Apply knowledge of mathematics, science, engineering fundamental or an engineering specialization to solve complex Electronics Engineering problems.

02. Identify, formulate and analyze complex Electronics Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

03. Design solutions for complex Electronics Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for global, socio-economic and environmental aspects.

04. Conduct investigation into complex Electronics Engineering problems utilizing systematic approach to provide valid conclusions.

05. Create, select and apply appropriate techniques, resources and modern engineering and IT tools, to engineering activities, with an understanding of the limitations.

06. Apply reasoning informed by contextual knowledge to assess societal, health, safety and cultural issues and the consequent responsibilities relevant to professional Electronics Engineering practice.

07. Understand the impact of professional Electronics Engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

08. Apply ethical principles and commit to professional ethics and responsibilities and norms of Electronics Engineering practice.

09. Communicate effectively on Electronics 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.

10. Function effectively as an individual and as a member or leader in diverse teams in multi-disciplinary settings.

11. 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.

12. Demonstrate knowledge and understanding of 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 and cultivate entrepreneurship skills.
Chemical Engineering

PROGRAM EDUCATIONAL OBJECTIVES

PEO1
Graduates are able to apply a strong foundation of scientific and technical knowledge in chemical engineering, energy and environment.

PEO2
Graduates demonstrate adaptability in pursuing their career nationally and internationally.

PEO3
Graduates have the competency to explore, utilise and diversify natural resources sustainably.

PEO4
Graduates demonstrate soft skills necessary as a professional.
PEO & PO

PROGRAM OUTCOMES

01. Apply knowledge of mathematics, science, engineering fundamentals or an engineering specialization to solve complex Chemical Engineering problems.

02. Identify, formulate and analyze complex Chemical Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

03. Design solutions for complex Chemical Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for global, socio-economic and environmental aspects.

04. Conduct investigation into complex Chemical Engineering problems utilizing systematic approach to provide valid conclusions.

05. Create, select and apply appropriate techniques, resources and modern engineering and IT tools, to engineering activities, with an understanding of the limitations.

06. Apply reasoning informed by contextual knowledge to assess societal, health, safety and cultural issues and the consequent responsibilities relevant to professional Chemical Engineering practice.

07. Understand the impact of professional Chemical Engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

08. Apply ethical principles and commit to professional ethics and responsibilities and norms of Chemical Engineering practice.

09. Communicate effectively on Chemical 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.

10. Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

11. 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.

12. Demonstrate knowledge and understanding of 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 and cultivate entrepreneurship skills.