



# METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

King Koti Road, Abids, Hyderabad - 500001

## INNOVATIONS AND ENTREPRENEURSHIP DEVELOPMENT CELL (IEDC)

A.Y. 2019-20

### Functions

- F1. To promote the Entrepreneurship culture by organizing Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes, Faculty Development Programmes and Skill Development Programmes in the institution.
- F2. To initiate innovative student projects each year for new innovative product development.
- F3. To guide and assist prospective entrepreneurs on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support system, information on technologies, etc. by creating a bridge between industries and the academic institution.
- F4. To arrange interaction with entrepreneurs and create a mentorship scheme for student entrepreneurs to be a successful firm.
- F5. To facilitate the creation of entrepreneur's club in each department to foster a culture of entrepreneurship amongst students.
- F6. To encourage filing of patents among students and faculties.

### Program Outcomes

<b>PO1</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3</b>	<b>Design/development of solutions:</b> 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.
<b>PO4</b>	<b>Conduct investigations of complex problems:</b> 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.
<b>PO5</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
<b>PO6</b>	<b>The engineer and society:</b> 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.
<b>PO7</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development.
<b>PO8</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics, responsibilities, and norms of the engineering practice.
<b>PO9</b>	<b>Individual and teamwork:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



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<b>PO10</b>	<b>Communication:</b> 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.
<b>PO11</b>	<b>Project management and finance:</b> 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.
<b>PO12</b>	<b>Life-long learning:</b> 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.

### Mapping of Functions (F) with POs

Correlation Level: High – 3; Medium – 2; Low – 1

PO / F	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>F1</b>	2	2	3	3	2	-	-	-	2	2	3	1
<b>F2</b>	2	3	3	3	2	-	-	-	2	2	3	1
<b>F3</b>	2	2	2	3	3	-	-	-	3	2	3	-
<b>F4</b>	1	2	2	3	3	2	-	-	2	2	3	1
<b>F5</b>	2	2	2	2	3	-	-	-	3	2	3	1
<b>F6</b>	3	3	3	3	2	2	-	-	2	2	3	1
<b>F</b>	2.0	2.3	2.5	2.8	2.5	2.0	-	-	2.3	2.0	3.0	1.0

### Facilities

- A proper infrastructure to provide testing, calibration, quality assurance, design, tool room, pilot plant and other facilities for Entrepreneurs besides expertise in Intellectual Property Rights, Patents search, etc.