



**Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)
Bachupally, Kukatpally, Hyderabad – 500 090. (040) 6686 4440
M.Tech in Structural Engineering**

Correlation between POs and PEOs

Programme Educational Objectives (PEO)	Programme Outcomes (PO)
<p>PEO 1:</p> <p>Graduates of the program will equip with professional expertise on the theories, process, methods and techniques for building high-quality structures in a cost-effective manner.</p>	<p>PO 1: An ability to independently carry out research and develop solutions for a practical problems in structural engineering.</p> <p>PO 2: An ability to present technical information in form of structural drawings and documents conforming to desired specifications.</p>
<p>PEO 2:</p> <p>Graduates of the program will be able to design structural components using contemporary softwares and professional tools with quality practices of international standards.</p>	<p>PO 2: An ability to present technical information in form of structural drawings and documents conforming to desired specifications.</p> <p>PO 3: The student should develop in-depth proficiency in the analysis and design of advanced structures, HSC/HPC mixes, Shells and foded plates, earth quake resistant buildings, ability to model, discriminate elastic/plastic behaviour of materials and synthesize new designs using contemporary softwares.</p> <p>PO 5: Ability to possess critical thinking skills and solve core, complex and multidisciplinary structural engineering problems.</p>
<p>PEO 3:</p> <p>Graduates of the program will be effective as both an individual contributor and a member of a development team with professional, ethical and social responsibilities.</p>	<p>PO 3: The student should develop in-depth proficiency in the analysis and design of advanced structures, HSC/HPC mixes, Shells and foded plates, earth quake resistant buildings, ability to model, discriminate elastic/plastic behaviour of materials and synthesize new designs using contemporary softwares.</p> <p>PO 4: Ability to assess the impact of professional engineering solutions in environmental context along with societal, health, safety,</p>

	legal, ethical and cultural issues and the need for sustainable development.
PEO 4: Graduates of the program will grow professionally through continuing education, training, research, and adapting to the rapidly changing technological trends globally in structural engineering.	PO 2: An ability to present technical information in form of structural drawings and documents conforming to desired specifications. PO 5: Ability to possess critical thinking skills and solve core, complex and multidisciplinary structural engineering problems. PO 6: Ability to recognize the need for life-long learning to improve knowledge and competence

Programme Educational Objectives (PEO)		Programme Outcomes (PO)					
		PO1	PO2	PO3	PO4	PO5	PO6
PEO1	Graduates of the program will equip with professional expertise on the theories, process, methods and techniques for building high-quality structures in a cost-effective manner.	H	H				
PEO2	Graduates of the program will be able to design structural components using contemporary softwares and professional tools with quality practices of international standards		M	H		M	
PEO3	Graduates of the program will be effective as both an individual contributor and a member of a development team with professional, ethical and social responsibilities.			M	H		
PEO4	Graduates of the program will grow professionally through continuing education, training, research, and adapting to the rapidly changing technological trends globally in structural engineering.		M			M	H

Graduate Attributes	Programme Outcomes (PO)					
	PO1	PO2	PO3	PO4	PO5	PO6
Engineering Knowledge	X					
Problem Analysis	X				X	
Design/Development	X				X	
Conduct Investigations of Complex Problems			X		X	
Modern Tool Usage			X			
The Engineer And Society			X			
Environment and Sustainability				X		
Ethics				X		
Individual And Team Work	X				X	
Communication		X				
Life Long Learning						X
Project Management And Finance			X		X	