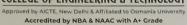


COLLEGE OF ENGINEERING & TECHNOLOGY





#### DEPARTMENT OF MECHANICAL ENGINEERING

#### III-SEMESTER - BE CO-PO Matrix for ACADEMIC YEAR 2023-24

	SN	Code subject Name of		COs	CO-PO Matrix for ACADEMIC YEAR 2023-24  Course Outcomes	Taxonomy								
_	0	Code	subject	the faculty	CO1									
			ics	ь.	CO2	Apply concept of temperature and temperature scale  Apply the first law of thermodynamics for simple open and closed systems under steady and unsteady conditions.	Apply Apply							
	1	6РС301МЕ	Thermodynamics	Mr.G Bhasker	CO3	Apply second law of thermodynamics to open and closed systems and calculate entropy and availability.	Apply							
ı		6PC	Тнетто	Mr.G	CO4	Derive simple thermodynamic relations of ideal and real gases	Create							
ı	1				CO5	Apply Rankine cycle to steam power plant and compare few-cycle improvement methods	Apply							
					COL	Define stresses and strains, explain stress-strain diagram and classify the beams, loads and springs.	Understand							
		ED	terial	DDY	CO2	Apply basic concepts to find various types of stresses, strain energy and properties of beams and also to select suitable spring for the application	Apply							
	2	SPC302ME	of ma	m REJ	CO3	Analyze stresses in cylinders, beams and springs for the given loading conditions	Analyze							
		6PC	Strength	Strength	Strength	Strength	Strength	Strength	Strength	Strength of material	Strength of material	CO4	Measure stresses, torque, slope, deflection, shear force and bending moment for various types of beams under loading conditions	Apply
							CO5	Construct stress- strain diagram, Shear force and bending moment diagrams for the given material under given loading conditions.	Create					
			Metallurgy and Material science	ıterial science	ıterial science	ıterial science		CO1	Discuss crystal structure, mechanical behaviour and heat treatment methods applied to ferrous and non ferrous materials.	Understand				
		ME					ıterial scie	ıterial sci	ıterial scie	ıterial scie	skhar	CO2	Analyse mechanical failure, crack growth and crack propagation in ductile and brittle materials under static and dynamic loading.	Understand
	3	<b>SPC303МE</b>		Arajase	Arajase	Dr.Arajasekhar	CO3	Sketch and interpret Iron-Iron Carbide and other equilibrium diagrams.	Apply					
		99		Metallurgy a	Metallurgy a		CO4	Compare and select suitable material and heat treatment process for a particular requirement.	Analyze					
						Meta	Meta		CO5	Discuss properties and applications of ferrous and non ferrous alloys, polymers, ceramics and composite materials.	Understand			
			lem		COI	Formulate algorithms and learn fundamental program methodologies of C programming.	Creating							
		S	or Prob	ruddin	CO2	Understand control statements and interpret derived data types with mathematical and engineering problems.	Understandin							
	4	SPC301CS	Programming for Problem solving	Dr. Md Fakhruddin	CO3	Develop modular programming techniques to solve searching, sorting and file system problems	Analysing							
1		9	ramı	)ı. N	CO4	Identify pre-processor directives and user defined usage.	Identifying							
			Progra	Δ	CO5	Interpret Arrays (1-D, 2-D), Strings and its library functions	Evaluating							



## METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY



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	DU CO DO Matrix	tor At ADRIVITE YEAR 2023-24

				-SEMESTE	K - BF C	O-PO Matrix for ACADEMIC YEAR 2023-24						
	SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy					
			artial		COI	Find the solution of algebraic and transcendental equations using numerical methods.	Understand					
		- IS	Numerical Methods and Partial differential Equation	II.	CO2	Apply numerical techniques to solve ordinary differential equations and definite integrals.	Apply					
	5	6BS303HS	1ethods ntial Ec	Dr. Kalyani	CO3	Apply numerical methods to interpolate values and fit different curves from given data	Apply					
		19	rical N	Dr	CO4	Find solutions of first order linear and non linear partial differential equations	Apply					
TAIL OF THE			Nume		CO5	Apply the solution of partial differential equations to physical problems	Apply					
			Ethics		CO1	Understand the Significance of value inputs in a classroom and start applying them in their life and profession	Understand					
		SH session problem CO2 Assess problem CO3 accumu	ional E		CO2	Assess their own ethical values and the social context of problems.	Understand					
	6		Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand								
		19	alue ar	M	CO4	Understand the role of a human being in ensuring harmony in society and nature.	Understand					
			Human V		CO5	Distinguish between ethical and unethical practices and start working out the strategy to actualize a harmonious environment wherever they work.	Understand					
			Metallurgy and Material Testing lab	YMM	COI	Apply the procedure for preparing the sample for metallographic observation and Identify different materials by examining the phases in their microstructure	Apply					
		ME		rgy and Material	and Material	and Material lab	and Material lab	and Material lab	Mrs I Sowjanya & Mr. YMM REDDY	CO2	Analyze the effects of various heat treatment by studying the grain structure	Analyze
	7	6PC351ME							and Ma lab	and Ma lab	and Ma Iab	and Ma lab
		Ф9			Sow	CO4	Measure hardness, shear strength for various materials	Evaluate				
						Metallur	Metallur	Metallu	Metallu	Mrs I 8	CO5	Determine the shear force, bending moment and Young's modulus of different beams under various loading conditions.
			Computer Aided Machine Drawing		COI	Develop the skills in drafting various machine componentusing Auto Cad software	Understar					
				ı	CO2	Interpret the conventions & symbols used in technical drawings into their physical meanings & vice versa	Understar					
		SZME		chande	CO3	Construct orthographic views of simple machine components	Apply					
2	3	6PC352ME		Dr.Ravichander	CO4	Demonstrate the working knowledge in solidworks to model, assemble and generate orthographic views.	Understa					
			Computer		CO5	Develop 3D models, assemble and generate drawings of components using Solidworks. Observe 3D interactive CAD models and determine the steps used in modelling them.	Evaluat					



# COLLEGE OF ENGINEERING & TECHNOLOGY Approved by AICTE, New Delhi & Affiliated to Osmania University



### DEPARTMENT OF MECHANICAL ENGINEERING

#### III-SEMESTER - BE CO-PO Matrix for ACADEMIC VEAR 2023-24

	III-SEMESTER - BE CO-PO Matrix for ACADEMIC YEAR 2023-24										
	SN O	Code	Code subject Name of the faculty COs Course Outcomes		Taxonomy						
			Programming for Problam solving Lab	din	CO1	Understand the fundamentals of programming in C Language.	Understanding				
		CS	r Pı	rud	CO2	Write, compile and debug programs in C.	Creating				
	9	6ES351CS	nming for P solving Lab	Dr. Md Fakhruddin	CO3	Formulate solution to problems and implement in C.	Creating				
		9	ogrami	Dr. M	CO4	Effectively choose programming components to solve computing problems	Applying				
			Pro		CO5	Program illustrating using Command Line Arguments	Understanding				
		Use Solid Edge to assemble, identify interference, are analyze the motion of complicated equipment.  Adjust imported geometries in neutral formats such as		CO1	Make 3D mechanical part models in Solid Edge by employing ordered and synchronous modelling techniques.	Apply					
			ion co	tion co	ızal	CO2	Use Solid Edge to assemble, identify interference, and analyze the motion of complicated equipment.	Analyze			
	10			Apply							
		9	6) 1 Edge	1 Edge	d Edge	d Edge	6 1 Edge	Mr	CO4	Use Solid Edge to analyze and optimize parts and assemblies through simulations.	Create
		Solid		CO5	Recognize how production drawings and tools are developed in order to create rendered pictures of products.	Understand					

Dept. Assessment Coordinator

Head of the Department

H.O.D.

Mechanical Engineering Department Methodist College of Engg & Tech King Koti, Hyderabad-500 001.







#### DEPARTMENT OF MECHANICAL ENGINEERING

						OF MECHANICAL ENGINEERING						
			V-		R - BE CO	D-PO Matrix for ACADEMIC YEAR 2023-24						
	SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy					
			acturin		COI	Understand the fundamental concepts and principles of CAD and evaluate geometric transformations in both 2D & 3D design space.	Understand					
			Manu	/ar	CO2	Apply the concepts and principles of wireframe modelling to create accurate representation of objects.	Apply					
	_	6PC508ME	Computer aided design and Manufacturin	Mrs Shazia Anwar	CO3	Create realistic and funtional designs by combining surface, solid and assembly modelling techniques effectively.	Create					
		6P(	er aided d	Mrs Sl	CO4	Create Numerical Control (NC) programs using different methods of part programming bothy manual and computer asssisted programming tools.	Create					
			Comput		CO5	Understand the basic concepts and components of Flexible Manufacturing Systems (FMS), and Automated Material Handling Systems.	Understand					
		6PC509ME	DME - Design of Machine Elements		CO1	Recognize the norms, codes, theories of failure, power screws, joint design considerations, stress, stresses, and mechanical components such as couplings, shafts, keys, and joints.	Remember					
	2			azal	CO2	For a specific application, choose the right shafts, keys, couplings, and permanent and temporary joints.	Apply					
				ME - Design of Mac	ME - Design of Ma	or Coord	ign of Ma	Mr. Abdul Fazal	CO3	Demonstrate the ability to apply the fundamentals of stress analysis, theories of failure and material science in the design of Mechanical components of shafts, keys,	Apply	
							X	CO4	Examine and assess power screws, joints, shafts, and important couplings that are subjected to both static and dynamic loads.	Analyze		
					CO5	Using a variety of empirical relations, design keys, couplings, and permanent and temporary joints for a	Create					
			6PC510ME Metrology and Machine Tool	Machine Tool		COI	Evaluate metrological techniques and tools, including micrometers, sine bars, and limit gauge design, to analyze and solve engineering problems,	Evaluate				
	3	10ME			Machine Tool	OME Machine Tool	10ME Machine Tool	OME Machine Tool	Machine Tool	Mrs. I Sowjanya	CO2	Apply the knowledge to measure and assess geometric attributes such as straightness, flatness, and roundness using bench centers and talyronds, perform surface roughness measurements, apply thread metrology methods and conduct general geometric tests on machine tools
		6PC5		Mrs. 1 S	CO3	Understand the constructional features and specifications of machine tools, including lathes, drilling, boring, milling and grinding machines.	Understand					
			Met		CO4	Determine the cutting forces and machining time in lathe, drilling operations.	Evaluate					
					CO5	Applying the principles of indexing for milling machines, demonstrating their ability to synthesize complex machining operations	Apply					

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V-SEMESTER	BE CO-PO Matrix for ACADEMIC VE.	AD 2022 24

			V	-SEMESTE	R - BE C	O-PO Matrix for ACADEMIC YEAR 2023-24			
	Si	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy		
					CO1	Understand the diverse components and construction details of automobile engines	Understand		
			eering	der	CO2	Understand the operations of various systems, including the engine lubrication system and cooling system, as well as comprehend the types of ignition systems and diverse batteries utilized in automobiles.	Understand		
	4	6PE501ME	Automobile Engineering	Dr. P Ravichander	CO3	Apply knowledge to analyze the working principles of steering and suspension systems, along with examining the constructional details of automobile wheels and tires.	Apply		
		19	Automol	Dr. P	CO4	Comprehend the construction and functioning of the braking system in automobile engines and understand the transmission of power from the engine to wheels through clutch plates and the differential gearbox.	Understand		
					CO5	Identify the environmental implications of automobile emissions and strong base for understanding future developments in the automobile industry.	Apply		
			Finacial	l Finacial	l Finacial		COI	Apply economic principles to management decisions and understand the nature&scope of managerial economics, its relationship with other disciplines.	Apply
	5	5HS502HS	Sconomics and Account	Mrs. Brundavani	CO2	Describe how changes in demand and price affects market, estimate demand and forecasting of demand in the market.	Understand		
		SSH9	t Econ Acc		CO3	Understanding the basic concepts of accounting, Classify various books of accounts	Understand		
			Management Economics and Finacial Account	ıgemer	Σ	CO4	Analyze and Interpret financial statements by applying ratios	Analyze	
					CO5	Apply traditional and modern techniques of capital budgeting in longterm investments, to test whether to	Apply		
			ical on	e l	COI	Handle Technical communication effectively by overcoming barriers of communication.	Remember		
_		3HS	echr	shre	CO2	Use different types of Professional correspondence to	Understand		
SEM	9	SHS503HS	Effective Technical Communucation	Ms.Jayashree	CO3	Use different types of business and Interoffice	Analyze		
>		H9		Ms.	CO4	Aquire adequate skills to draft reports efficiently.	Evaluate		
			E E		CO5	Enhance their skills of information transfer.	Apply		
			_		COI	Demonstrate the concepts of Disaster Management, Role of NDMA in Disaster Management	Rememberin g &		
			tigation	sna	CO2	Identify different types of disasters, Mitigation measures of each disaster, case studies of disasters	Understanding		
	7	OE	Disaster Mitigation	Ms Jyotsna	CO3	Explain the disaster management cycle and disaster response, use of technology in disaster mitigation	Understanding		
			Disa		CO4	Illustrate the acts and policies of disaster management in India	Understanding		
					CO5	Explain the concepts of communication and public	Understanding		



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V-SEMESTED	BE CO-PO Matrix for ACADEMIC VEAR 2023-24	
TOURIES IFR -	RECORD Matrix for ACADEMIC VE AD 2022 24	
	DE CO-FO MAITIX for ACADE VIII YEAR 2012 1-24	

SN O	Code	subject	Name of the faculty	COs	CO-PO Matrix for ACADEMIC YEAR 2023-24  Course Outcomes	Taxonomy			
				CO1	Introduction to Artificial Intelligence, its applications and Problem solving techniques. Also the knowledge representation methods, Planning, Expert systems and their algorithms in AI	Understanding			
		епсе		CO2	Analyzing different searching algorithms and game	A			
∞	OE	Artificial Intelligence	Dr. Shruthi	CO <sub>2</sub>	playing programs to solve given problems.  Apply basic principles of AI in solutions that require problem solving, inference, perception, planning, knowledge representation, and learning.	Analyzing			
		Artific	Д	CO4	Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, probability, artificial neural networks and other machine learning models.	Evaluating			
				CO5	To explore the understanding of agent based AI Planning ,logical based agents and Expert systems	Creating			
		Metrology and Machine Tool Lab	Lab	Lab	ıraj	CO1	Use Vernier callipers, height gauges, inside, outside, and depth micrometers to apply measurement principles and techniques.	Apply	
	6PC556ME		Mr. Abdul Faal &Dr.P.Prabhuraj	CO2	Make use of the concepts and methods for calculating ovality and roundness errors using dial bore gauges and V-blocks.	Apply			
6			/ and Mac	, and Mac	y and Mac	l Faal &⊡	CO3	Use a sine bar and a bevel protractor to precisely calculate the angles. Using a Tool Maker's Microscope, measure linear and angular dimensions accurately.	Analyze
			Metrology Mr. Abdu	CO4	Accurately and successfully apply shaping, drilling, gear cutting, thread cutting, and lathe machine operations to	Apply			
				CO5	Use a lathe tool dynamo meter to analyze the cutting force during machining operations.	Analyze			
					CO1	Create the models of the components using solid modelling package.	Create		
				CO2	Demonstrate proficiency in generating 3D part models from assembly drawings using a solid modeling package.	Understand			
	7МЕ	M Lab				Mrs. Shazia Anwar	CO3	Understand and effectively apply geometric dimensioning, tolerance representation on part drawings as well apply the conventional practices to indicate dimensional, form, and position tolerances on engineering drawings.	Understand
10	6PC557ME	CAD/CAM I	Shazia	Shazia	CO4	Interpret and calculate limits, suggest suitable fits for mating parts, and detect interference in assemblies.	Understand		
	9	Ö	Mrs	CO5	Compile the simple part programs to perform machining on a CNC machine and to create various machine components by performing different machining operations	Create			



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#### NATIONAL PLANS

### DEPARTMENT OF MECHANICAL ENGINEERING

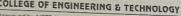
		V-:	SEMESTER	S - BE CO	O-PO Matrix for ACADEMIC YEAR 2023-24							
SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy						
				CO1	To improve and develop technical abilities.	Apply						
	IE IE		azal	CO2	To put into practice the theoretical knowledge they have learned in their classes.	Apply						
11	6PW551ME	Internship	Mr. Abdul Fazal	CO3	To acquire practical abilities pertinent to their academic programs.	s pertinent to their academic Apply						
	6PV	Int	Mr. Al	CO4	that is industry-specific.	Understand						
				CO5	To cooperate and communicate professionally with co-workers, managers, and business associates.	Evaluate						
		p -2	-	CO1	Recall & Gain insights into the professional aspects of mechanical engineering.	Rememberin						
	SMC552	25	22	6MC552 Skill Development Lab	SMC552 relopment Lal	52 ent Lal	52 ent La	52 ent La	Dr. Md Fakhruddin	CO2	Hands-on experience experimenting with tools, equipment, and software used in the industry.	Analysing
12.0		6MC55	SMCS:			Id Fakl	CO3	Collaborate, communicate & Illustrate ideas, and work effectively as part of a team.	Understandin g			
			Dr. N	CO4	Improve the critical thinking abilities and adapt to the evolving demands of the industry.	Creating						
		Ş		CO5	Solve complex problems, and make informed decisions.	Applying						

Dept. Assessment Coordinator

Head of the Department H.O.D.

Mechanical Engineering Department
Methodist College of Engg & Tech
King Koti, Hyderabad-500 001.







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		VII	I-SEMESTI	ER - RE	O PO MODELLE OF THE STATE OF TH											
SN	0.1		Name of	JK-BE	CO-PO Matrix for ACADEMIC YEAR 2023-24											
0	Code	subject	the faculty	COs	Course Outcomes	Taxonomy										
				COI	The students to have the knowledge of Linear Programming Problem in operations Research and would be able to understand the concept and develop the models for different applications.	Create										
		arch		CO2	The students to have the knowledge of conversion of Linear Programming Problem into Dual problems in operations Research and would be able to solve the solution for different applications.	Analyze										
1	HS104ME	Operations Research	Mr.G Basker	CO3	The students to have the knowledge of solving trasportation problems using LPP/OR models and able to analyse the problems associate to job assign in real life scenario	Analyze										
		Oper	Oper	Oper	Oper	4	CO4	The students understand the concept Replacement models and theory of game in OR at the end students would able to explain various features and applications of replacement models in real time scenario and explain Game theory in decision making for a conflict.	Understand							
								CO5	The students to have the knowledge of Sequencing model, Queuing Theory and Optimum techniques at the end student would able to develop optimum model for job scheduling and waiting line cases.	Apply						
		Refrigiration and Air Conditioning	Dr. M P rasad	CO1	List various types of refrigerants, refrigeration cycles, Psychometric properties and Air Conditioning Systems	Remember										
				CO2	Summarize refrigerants CFC and HFC types, refrigeration cycles, Psychometric properties and Air Conditioning Systems	Understand										
2	PC417ME			CO3	Choose refrigerants, refrigeration cycles, Psychometric properties and Air Conditioning Systems systems based on applications	Apply										
	PC PC		Refrigiration and	Refrigiration an	Refrigiration an	Refrigiration an	Refrigiration an	Refrigiration an	iration and	iration an	iration an	iration an	Dr. M	CO4	Analyze various problems on psychometric processes, refrigeration cycles, and Air Conditioning Systems know the construction and application of Psychometric chart	Analyze
										CO5	Design an air conditioning system based on given inside and outside conditions. Evaluate cooling and heating loads in an air-conditioning system	Evaluate				
		turin		CO1	Understand the importance of automation in the field of manufacturing.	Understand										
	E	anufaci	anya	CO2	Apply the various concepts of CAD and Numerical control machines.	Apply										
3	161	m m	Moo	CO3	Apply the concepts of CAM and CNC machining.	Apply										
	PC416ME	ation in	Mrs. I Sowjanya	CO4	Understand the concepts of Additive Manufacturing Technologies.	Understand										
		Automa	Automation in manufacturin	Automat		CO5	Understand the concepts of pneumatics & hydraulics systems and controls, and various elements of Flexible Manufacturing System.	Understand								



# COLLEGE OF ENGINEERING & TECHNOLOGY



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Г			VII	-SEMEST	EK - BE	CO-PO Matrix for ACADEMIC YEAR 2023-24	
	4	PE541ME	3D Printing Technology	Mrs Shazia Anwar	CO1	Interpret the features of 3D printing technology, its advantages, disadvantages, its applications and comparision with conventional manufacturing methods.	Understand
					CO2	Illustrate the operating principles ,capabilities and limitations of liquid, solid and powder based3D printing technologies.	Understand
					CO3	Categorize different data formats, softwares used for 3D printing technology and list the errors in STL format.	Analyze
					CO4	Applying the capabilities of 3D printing in different industrial sectors.	Apply
					CO5	Exploring the knowledge of 3D printing technologies for developing innovative applications.	Apply
	5	PE520CE	GBT- Green Building Technology	R. Srikanth	CO1	Comprehend core principles of green building and sustainable development.	Understand
					CO2	Apply strategies to minimize environmental impact through site planning.	Apply
					CO3	Implement conservation techniques for water and energy.	Apply
					CO4	Choose materials for construction with low embodied energy and sustainable sourcing.	Apply
					CO5	Apply strategies for improving indoor environmental quality.	Apply
	6	OE	Non Conventional Energy Sources	Mr.Ramesh Babu	CO1	List and Compare the various forms of non conventional energy resources and analyze the different Fuel cells with applications of fuel cells	Analyze
					CO2	Explain the solar energy applications and calculations of solar energy	Analyze
					CO3	Analyzing how wind energy can be tapped from the nature and its calculations	Analyze
					CO4	Illustrate the concepts of Geothermal ,Wave, Tidal energy & OTEC	Understand
					CO5	Outline the Biogas & Biomass, its mechanism of production of energy and its applications	Understand
	8	PESSIME	Non Destructive Testing	Dr.Md.Fakruddin	CO1	Clear understanding of liquid penetrant inspection and magnetic particle inspection.	Creating
					CO2	View and interpret radiographs, utilize the various principles of radiography for different components of different shapes.	Understandin
					CO3	Knowledge of acoustic emission for NDT and the instrumentation used for NDT.	Analysing
					CO4	Ability to analyze quality control and prepare a technical report.	Identifying
					CO5	Knowledge of latest research, developments and trends in NDT.	Evaluating



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### DEPARTMENT OF ME

		VII	-SEMESTE	D DE	OF MECHANICAL ENGINEERING		
				R - BE CO-PO Matrix for ACADEMIC YEAR 2023-24			
		CAM and Automation Lab	Mrs. Sowjanya	CO1	Develop tool path simulations for a given step turning and face turning scenario using computer-aided design (CAD) software.	Apply	
	ME			CO2	Apply knowledge of drilling depths and lathe controls to execute a combined drilling and grooving operation.	Apply	
9	PC460ME			CO3	Generate tool path simulations for a given scenario involving multiple machining operations using CNC programming.	Apply	
				CO4	Generate a robot program for pick & place operations using appropriate programming tools and software.	Apply	
				CO5	Attain the working knowledge in simulation of Pneumatic Hydraulic and PLC simulation	Understand	
		Project Work I	Dr. Udayakumar	CO1	Adapt the attitude of writing reviews on the literature	Create	
	Œ			CO2	Develop practical & professional skills	Apply	
10	02N			CO3	Apply the tools and technicals of documentations	Apply	
	PW702ME			CO4	Make use of the Team work	Apply	
				CO5	Develop to the industrial practice and Research Practices,Innovative and entrapranuer ideas	Apply	

Dept. Assessment Coordinator

H.O.D.

Mechanical Engineering Department Methodist College of Engg & Tech King Koti, Hyderabad-500 001.