

METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY (An UGC-AUTONOMOUS INSTITUTION)







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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING(AI&DS)

Faculty Teaching Methodologies Summary AY:2023-24

	H SEM AY:2023-24									
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	BT Level				
				ES202CS.1	Formulate simple algorithms for arithmetic and logical problem Translate the algorithms to programs	Understand				
				ES202CS.2	Test and execute the programs and correct syntax and logical errors	Evaluate				
1	ES202CS	Data Structures	Mr Senthil kumar	ES202CS.3	Implement conditional branching, iteration and recursion	Implement				
			Mr Murlidhar	ES202CS.4	Decompose a problem into functions and synthesize a complete program using divide and conquer approach Use arrays, pointers, structures and file management to solve real world problems	Apply				
				ES202CS.5	Construct recursive programs and use structures to formulate algorithms and programs	Implemt				
				ES252CS.1	Understand and implement the abstract data type and reusability of a particular data structure.	Implement				
				ES252CS.2	Implement linear data structures such as stacks, queues using array and linked list.	Implement				
2	ECSTACE I	Data Structures Lab	Mr Senthil kumar	ES252CS.3	Understand and implements non-linear data structures such as trees, graphs.	Analyze				
			Mr Murlidhar	ES252CS.4	Implement various kinds of searching, sorting and traversal techniques and know when to choose which technique.	Implement				
				ES252CS.5	Understand and implementing hashing techniques.	Understand				

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				I SEM AY	:2023-24	
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	BT Level
1				ES101CS.1	Understand algorithms and learn fundamental program methodologies of C programming.	Understanding
				ES101CS.2	Understand control statements and derived data types with mathematical and engineering problems.	Applyinging
	ES101CS	Programming for Problem Solving	Mr Mujtaba Ms Radhika	ES101CS.3	Interpret control statements and derived data types with mathematical and engineering problems.	Evaluating
				ES101CS.4	Enhance skills in modular programming for solving a variety of computational challenges, including searching, sorting, and file system operations.	Analyzing
				ES101CS.5	Recognize pre-processor directives and user defined usage.	Creating
				ES151CS.1	Choose appropriate data type for implementing programs in C	Create
				ES151CS.2	Design modular programs involving I/O operations, decision	Understand
2	ES151CS	1	Mr Mujtaba Ms Radhika	ES151CS.3	Implement modular programs involving I/O operations, decision	Create
		Solving Lab		ES151CS.4	Apply derived data types and implement programs to store a	Understand
				ES151CS.5	Develop confidence for self education and ability towards	Applying

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	III SEM AY:2023-24								
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	BT Level			
				1BS305HS.1	To understand concepts of probability and random variables	Applyinging Remembering			
				1BS305HS.2	Apply various probability distributions to solve practical problems, to estimate unknown parameters of populations	Applyinging			
1	1BS305HS	Probability & Statistics	Ms.Hima Bindu	1BS305HS.3	Find Mean, variance, moment generating function and statistical parameters of continuous probability distributions	Applyinging			
				1BS305HS.4	To perform a regression analysis and to compute and interpret the coefficient of correlation	Remembering Analyzing			
				1BS305HS.5	Evaluate t-distribution, F-distribution and chisquare distributions. Fitting of straight line, parabola and exponential curves	Applyinging Evaluating			
		I neary and	Mrs.B.Sowjanya Mrs.J.Sowmya	1ES301 EC.1	Illustrate the basic principles of Binary Systems, Boolean algebra and Logic Gates.	Understanding			
				1ES301 EC.2	Design & Measure various physical parameters Memory and Programmable Logic & understanding of memories	Applyinging			
2	1ES301 EC			1ES301 EC.3	Apply the principles of Analysis Procedure, Design Procedure, for Binary Adder Substractor, Decimal Substractor Binary Multiplier	Remembering			
				1ES301EC.4	Design & Use various types of Synchronous Sequential Logic & Sequential Circuits. Latches. Flip-flops etc.	Analyzing			
				1ES301 EC.5	Identify and understand Identify and classify types of Combinational Logic Design or Sequential Logic Design.	Understanding			



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	1				•	
				1PC302AD.1	Explain Fundamental DBMS Concepts: Students will explain the foundational concepts and principles of database management systems	Understanding
				1PC302AD.2	Analyze Relational Database Design: Students will analyze and evaluate different approaches to relational database design.	Analyzing
3	1PC302AD	Database Management Systems	Mr T Vijay kumar Dr.Syed Azahad	1PC302AD.3	Interpret SQL Querying: Students will interpret and explain complex SQL queries and their output.	Analyzing Understanding
				1PC302AD.4	Discuss Data Integrity and Security: Students will discuss and compare various techniques for ensuring data integrity and implementing security measures	Evaluating
				1PC302AD.5	Evaluate Query Optimization Techniques: Students will evaluate and compare query optimization techniques used to enhance database performance.	Evaluating
	11263014151	H JISCRETE - I	Ms J Sowmya Mr. Venkatram Vennam	1PC301AD.1	Apply mathematical logic to solve problems	Applyinging
				1PC301AD.2	Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate knowledge of their associated operations.	Understanding
4				1PC301AD.3	Identify structures of algebraic nature and apply basic counting techniques to solve combinatorial problems.	Applyinging/An alyzing
				1PC301AD.4	Formulate problems and solve recurrence relations	Creating
				1PC301AD.5	Apply Graph Theory in solving computer science problems	Applyinging
				1PC303AD.1	Explain the organization and architecture of a basic computer (CPU) with different instruction formats and addressing modes	Understanding
		Computer		1PC303AD.2	Describe the internal architecture and register organization of 8086 and the addressing modes in 8086	Understanding
5	1PC303AD		Mr. Venkatram Vennam Dr Diana Moses	1PC303AD.3	Design and develop Assembly level programs using 8086 microprocessor instruction set	Applyinging
		Microprocesso r	Dr Diana Moses	1PC303AD.4	Analyze various I/O Interfacing mechanisms and memory organization techniques	Analyzing
				1PC303AD.5	Applies the knowledge of program execution and its internal hardware operations during design and development of Assemble language programs.	Applyinging



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1	1			e e e e e e e e e e e e e e e e e e e	mary AY:2023-24	
				1MC302HS.1		Understanding
				1MC302HS.2	To outline the various schools of Indian Philosophy	Understanding
6	1MC302HS	Essence of Indian Traditional	Mrs. Prashanthi Mr Satyapal	1MC302HS.3	To demonstrate the diversity in Indian Thought ,Languages , regional culture , dress, living style etc.	Understanding
		Knowledge	Reddy	1MC302HS.4	To Identify the various religious and social reform movements which took place in the past few centuries	Applyinging
				1MC302HS.5	To classify the wealth of Indian Fine Arts and the diversity associated with it over the length and breadth of the country	Understanding
				1PC351AD.1	Understand Database Concepts: Students will demonstrate an understanding of fundamental concepts in databases, including data models, schemas, and normalization.	Remembering
				1PC351AD.2	Design and Implement Databases: Students will be able to design and implement relational databases using appropriate schema design techniques.	Applyinging
7	1PC351AD	Database Management Systems Lab	Mr T Vijay Kumar Dr. Syed Azahad	1PC351AD.3	SQL Querying: Students will write complex SQL queries to retrieve and manipulate data from databases.	Applyinging
,				1PC351AD.4	Data Integrity and Security: Students will apply techniques to ensure data integrity and implement security mechanisms to protect databases from unauthorized access.	Applyinging Analyzing
			·	1PC351AD.5	Performance Tuning: Students will identify and optimize query and database performance issues using indexing, query optimization, and tuning strategies. Database Application Development: Students will develop database-driven applications using programming languages and tools like JDBC or ORM frameworks.	Analyzing Evaluating
		Computer		1PC353AD.1	Interpret the principles of Assembly Language Programming, instruction set in developing microprocessor based applications	Applying
8		Organization and	Mr. Venkatram Vennam	1PC353AD.2	Design and implement programs on 8086 microprocessor	Applying
J			Dr Diana Moses	1PC353AD.3	Understand working of instruction set and addressing modes of 8086	Applying
				1PC353AD.4	Explore and implement the interfacing of various peripheral devices with 8086	Applying
				1PC353AD.5	Analyze the function of traffic light controller.	Analyze



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					Demonstrate solutions to computational problems using python programs.	Understanding
		Python			Solve complex problems using python functions and control structures.	Applyinging
9	1PC352AD	Programming Lab	Mr. Shaik Rasool Ms Keerthi	1PC352AD.3	Use Python lists, tuples and dictionaries for representing compound data.	Evaluating
				1PC352AD.4	Develop object-oriented programs with python classes	Applyinging
				1PC352AD.5	Develop Python programs for GUI applications	Creating
		Skill			Understand IoT Fundamentals: Students will	
				1PW354AD.1	comprehend the fundamental concepts and	Understanding
					components of the Internet of Things (IoT)	
				1PW354AD.2	Sensor Integration: Students will be able to	
					integrate various sensors into IoT systems to	Applyinging
					collect real-world data.	
	1PW354A	Development	Mr M		Data Processing and Analysis: Students will	
10	D	Course – I	Krishnamurthy	1PW354AD.3	1.	Analyzing
	_	(IOT)	Dr. G Saritha		devices using appropriate techniques and tools.	
		(101)			Connectivity Protocols: Students will understand	
				1PW354AD.4	and apply different communication protocols for	Applyinging
					connecting IoT devices to networks.	
			,	1PW354AD.5	IoT Application Development: Students will	
					develop IoT applications using programming	Creating
					languages and platforms.	

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S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	BT Level				
				1PC404AD.1	Explains the concepts of OS aong with an Understand of the process, memory and file managements and also defines the disk structure and I/O sub system	Understand				
	1PC404AD	Organis	Dr. Syed	1PC404AD.2	Applies the knowledge of process, memory and file managements and implements the respective algorithms to find the efficacy and performance	Applying				
1		Operating Systems	Azahad / Dr Sharada Varalakshmi	1PC404AD.3	Applies the OS system calls, process synchronization ,page replacement, directory and disk scheduling algorithms	Applying				
				1PC404AD.4	Analyzes various scheduling algorithms, inter process communication methods such as Readers -Writers problems	Analyzing				
				1PC404AD.5	Evaluates the performance of the Disk structure	Evaluating				
		Statistical Analytics and Computing	Ms Harika / Dr T Praveen Kumar	1PC405AD.1	Recalling basic concepts and syntax of Python, as well as the fundamentals of pandas data structures and file formats.	Remembering				
				1PC405AD.2	Understand the NumPy ndarray, essential pandas functionality, hierarchical indexing, and time series data types and tools.	Understand				
2	1PC405AD			1PC405AD.3	Apply the knowledge of Python, NumPy, pandas, and data cleaning and preparation techniques to solve real-world problems, as well as create and manipulate arrays, use universal functions, read and write data in various formats, group and aggregate data, and perform various time series operations.	Applying				
				1PC405AD.4	Analyze and evaluate data sets, functions, and files using NumPy, pandas, and other Python tools, as well as use data wrangling techniques to combine and reshape datasets, handle missing data, and perform string manipulation.	Analyzing				
				1PC405AD.5	Evaluate the effectiveness of different data aggregation and group operation strategies, and recommend appropriate methods based on specific use cases and data sets.	Evaluating				



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				aching Method		
				1PC406AD.1	Understand the core principles and concepts of AI and exhibit proficiency in problem solving using search strategies, ML techniques to address real world	Understand
				1PC406AD.2	Examine the issues involved in knowledge bases,	Analyze
3	IPC406AD	Foundations of Artificial	Dr P Lavanya	1PC406AD.3	Design and evaluate intelligent agent and expert models for perception and prediction from intelligent environment.	Apply
		Intelligence	Dr U Moulali	1PC406AD.4	Understand and apply fuzzy logic, utility theory and various algorithms of Machine learningenabling them to make informed decisions and manage uncertainties and consider utility in AI applications	Understand
				1PC406AD.5	Understand and Apply Natural Language Processing and Machine Learning Techniques to develop intelligent systems.	Understand
			Dr G Saritha/ Mr Krishnamurthy	1PC407AD.1	Outline working knowledge of alternative approaches and techniques for each phase of SDLC.	Understand
		Software Engineering		1PC407AD.2	Judge an appropriate process model(s) for software project attributes and analyze requirements for project development.	Evaluate
4	1PC407AD			1PC407AD.3	Discover skills necessary as an independent or as part of a team for architecting a complete software project by identifying solutions for recurring problems exerting	Analyze
				1PC407AD.4	Apply appropriate metrics conceding product quality with testing techniques by Understand the practical challenges associated with the development of a	Apply
				IPC407AD.5	Apply the software engineering principles in real time project development.	Apply
				1HS403HS.1	Understand the significance of value inputs in a classroom and start applying them in their life and profession.	Understand
				1HS403HS.2	Assess their own ethical values and the social context of problems.	Understand
5		Professional	Mrs Jayashree/ Mrs Hephzabah	1HS403HS.3	Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Analyzing
		Ethics		1HS403HS.4	Understand the role of a human being in ensuring harmony in society and nature.	Understand
				1HS403HS.5	Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	Analyzing



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				1PC455AD.1	Evaluate the performance of different types of CPU scheduling algorithms.	Evaluating
			Dr. Syed	1PC455AD.2	Implement producer-consumer problem, reader-writers problem, Dining philosopher's problem.	Applying
6	1PC455AD	OperatingSyst emsLab	Azahad / Dr Sharada Varalakshmi	1PC455AD.3	Simulate Banker's algorithm for deadlock avoidance.	Creating
				1PC455AD.4	Implement paging replacement and disk scheduling techniques.	Applying
				1PC455AD.5	Ability to implement inter process communication between two processes.	Applying
				1PC456AD.1	Demonstrate the use of java syntax and semantics, classes, objects and their roles and benefit.	Understand
		Java Programming Lab	Ms K Keerthi/ Ms Sana mateen	1PC456AD.2	Develop Java programs that effectively use arrays, packages, inheritance, String Tokenizer and interface to promote code organization, reusability and flexibility.	Apply
7	1PC456AD			1PC456AD.3	Develop java programs that effectively handle exceptions and ensure error-free code.	Apply
				1PC456AD.4	Analyze java programs on Method Overloading and Method Overriding.	Analyze
				1PC456AD.5	Implement java programs for multithreading and java collection framework.	Apply
				1PC457AD.1	Install Numpy and Pandas	Applying
		Statistical		1PC457AD.2	Work with 1 Dand 2D arrayin Numpy and process data in arrays	Understand, Analyzing
8		Analytics and Computing	Ms Harika / Dr T Praveen	1PC457AD.3	Exploremulti-dimensional arraysin Numpy and perform conversions	Analyzing, Applying
		using PythonLab	Kumar	1PC457AD.4	Perform statistical analysis using Numpyby calculating measures od central tendency, deviation, distances and correlation	Analyzing, Applying
				1PC457AD.5	Perform statistical analysis using Pandas	Analyzing, Applying



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				1PW458AD.1	Explain network technologies, networking model and how devices access local and remote networks.	Understand
				1PW458AD.2	Describe router hardware and Explain how switching operates in a small to medium-sized business network	Understand
9	1PW458AD	Skill Development Course-II	Ms Sanamateen/ Ms A Sowjanya	1PW458AD.3	Design an IPv4 and IPv6 addressing scheme to provide network connectivity for a small to medium-sized business network	Create
				1PW458AD 4	Configure initial settings on a network device using Cisco command-line interface (CLI) and Implement various types of LANs and trunking in a switched network	Create
				1PW458AD.5	Develop critical thinking and problem solving skills using Cisco Packet Tracer.	Create

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				1PC508AD .1	Understand to compute the complexities in different algorithmic approaches like brute force, divide and conquer, greedy method, dynamic programming, describe the classes P, NP, NP-Complete problems and graph traversals	Understand				
		Design and		1PC508AD .2	Solve recurrence relation using different methods and compare the different methods to generate a minimum cost spanning tree using greedy approach and implement Dijkstra's algorithm	Applying				
1	1PC508AD	Design and Analysis of Algorithms	Mrs. Unnati Khanapurkar	1PC508AD .3	Solve problems using algorithm design methods such as backtracking and branch and bound, apply the concept of graph colouring to various practical problems	Applying				
				1PC508AD .4	Analyze the best approach to solve various problems like Knapsack problem, Travelling salesman problem, parallel algorithms and Differentiate deterministic and non deterministic algorithms	Analyze				
				1PC508AD .5	Determine the best sorting and searching algorithm, optimal Hamiltonian circuit and whether a problem is satisfiable or not and perform asymptotic analysis	Evaluate				
				1PC509AD.1	Recognize the different levels of Data Science concepts for visualization of data.	Analyze				
			,	1PC509AD.2	Demonstrate the data visualization and statistical techniques, for describing data structure property.	Understand				
2	1PC509AD	Data Science	Dr. Shaik Khaleel Ahamed/ Mr. Deva	1PC509AD.3	Analyze the basics of probability and statistics models for data exploration	Analyze				
			Rajashekar	1PC509AD.4	Make use of Hypothesis testing for statistical analytics for destroying target based on the mission requirements.	Applying				
				1PC509AD.5	Demonstrate numerous open source data science tools to solve real-world problems through industrial case studies	Applying				



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				1ES501AD.1	Explain the fundamentals of digital image and its processing	
				1ES501AD.2	Understand the enhancement, segmentation, restoration, compression processes on an image	
3	1ES501AD	Digital Image Processing	Dr.G.Saritha Dr. Diana Moses	1ES501AD.3	Explore the fundamental relation between pixels and apply image enhancement, filtering techniques, morphological operations for image processing	
				1ES501AD.4	Explore the utility of 2-D transforms and analyze the different linear image restoration techniques	
				1ES501AD.5	Evaluate point processing techniques, histogram manipulation, compression techniques and mathematical model for image restoration	
				1PE504AD.1	Expresses syntax and semantics in formal notation	Understand
	1PE504AD	PE-Principles of Prograrnming	Mr.K.Muralidhar	1PE504AD.2	Apply suitable programming paradigm for the application scenario	Applying
4				1PE504AD.3	Compare the features of various programming languages.	Analyze
				1PE504AD.4	Describes the programming paradigms of modern programming languages	Understand
				1PE504AD.5	Describes the concepts of ADT and OOP.	Understand
				1PE502AD.1	Preprocesses data and apply mining techniques on it.	Applying
		PE-Data		1PE502AD.2	Generates association rules using different algorithms	Creating
5	TPE502AD1	Mining	Mrs.A.Sowjanya	1PE502AD 3	Applies classification algorithms and evaluates its efficiency	Applying
				1PE502AD.4	Understands various clustering algorithms	Understand
					Explains web and text mining methods	Understand
				OESUICE.L I	Demonstrate the concepts of disaster management	Understand
		O.E- I		OE501CE.2	Identify different types of disasters	Applying
6	OE501CE	(Disaster	Ms.Madhuri	OE501CE.3	Explain the disaster management cycle	Analyzing
		Mitigation)			Illustrate the role of NDMA in disaster management	Understand
				OESUICE.S I	Explain the development of disaster mitigation plan	Evaluating



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				1MC503HS.1	Read, Remember, understand the background and making of Indian constitution and Its importance.	Understanding
				1MC503HS.2	Remember and understand the working of the Central, state and provincial levels of administration.	Understanding
7	1MC503HS	Indian Constitution	Mr. Satyapal Reddy	1MC503HS.3	Remember and understand the fundamental duties, responsibilities and rights as an ideal citizen of India.	Understanding
				1MC503HS.4	Understand and interpret the functioning and distribution of resources between Union and state.	Applying
				1MC503HS.5	Understand the existing hierarchy of the social structure, election process and Grievance redressal in a democracy.	Understanding
	1PC559AD	Data Science Lab	Dr. Shaik Khaleel Ahamed Mr. Deva Rajashekar	1PC559AD.1	Understand the concept of Setup R Programming Environment.	Understand
				1PC559AD.2	Develop programming logic using R-data types, R-Data Structures and R – Packages.	Create
8				1PC559AD.3	Analyze data sets using R – programming capabilities.	Analyze
				1PC559AD.4	Apply various classification and regression models.	Applying
				1PC559AD.5	Apply various clustering techniques on different data sets	Applying
				1ES551CS.1	Understand how the images are read as grayscale and RGB	Understand
				1ES551CS.2	Apply the different techniques to convert the images in different forms	Apply
9	1ES551CS	Digital Image Processing Lab	Dr.G.Saritha Dr. Diana Moses	1ES551CS.3	Understand the processing and implement different images filtering techniques	Understand
				1ES551CS.4	Implement edge dection	Apply
				1ES551CS.5	Comapre the different DFT,DCT and DWT techniques	Apply



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				1HS553HS.1	Listen to a variety of speakers and texts and will be able to comprehend and perform the required tasks.	Understand
				1HS553HS.2	Interact in a group professionally and communicate confidently in terms of both the spoken and written communication.	Applyinging
10	1HS553HS	Soft Skills Lab - I	Dr. Sunil Solomon	1HS553HS.3	Develop the skills and strategies of reading and writing.	Applyinging
				1HS553HS.4	Face any Interview confidently by managing time, making decisions by speaking appropriately according to the context.	Applyinging
				1HS553HS.5	Demonstrate right attitude and right skills to cope with team and communicate professionally.	Applyinging
				1PW560AD.1	Understand the basics of Android development, including the Android Studio IDE, the Android SDK, and the Android Manifest.xml file.	Understand
			Mrs. A.Sowjanya Dr T Praveen Kumar	1PW560AD.2	Create an app with multiple activities that can communicate with each other using intents	Create
11	1PW560A D			1PW560AD.3	Create a variety of user interface elements, such as buttons, text fields, and checkboxes	Create
				1PW560AD.4	Use layouts to arrange their user interface elements in a logical and efficient way.	Apply
				1PW560AD.5	Understand how to store data in Android apps, using both local and remote storage options	Understand

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S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	BT Level
				1PC610AD.1	Understand the concept of Computer Networks, OSI & TCP/IP reference models and discuss the functionalities of each layer in these models.	Jnderstand
				IPC610AD.2	Apply bandwidth utilization techniques, Framming techniques, flow and error control protocols and various addressing schemes for an efficient transmission of data through the layers.	Apply
1	1PC610AD		Ms Radhika/ Mr Venkatram	1PC610AD.3	Analyze various Layered architectures, transmission media, data link control protocols, MAC protocols, address mapping protocols, routing protocols and various application layer protocols	Analyze
			,	1PC610AD.4	Evaluate various routing algorithms such as unicast and multicast routing algorithms.	Evaluate
				1PC610AD.5	Discuss various classes of IP addressing and NAT with examples	Create
		Machine	Dr Deva Rajashekar/ Dr U Moulali	1PC611AD.1	Extract features that can be used for a particular machine learning approach in various applications.	Analyze
				IPC611AD.2	Compare and contrast pros and cons of various machine learning techniques and to get an insight when to apply particular machine learning approach.	Understand
2	1PC611AD			1PC611AD.3	Understand different machine learning types along with algorithms.	Analyze
				1PC611AD.4	Understand how to apply machine learning in various applications.	Understand
				1PC611AD.5	Apply ensemble techniques for improvement of classifiers	Analyze
				1PC612AD.1	Understand the basics of automata, regular expression, push down automata, turing machine, compiler, parser ,code optimization techniques	
		Automata Languages and	Mr	1PC612AD.2	Construct equivalently powerful notations for a language, including DFAs, NFAs, and regular expressions, between PDAs and CFGs	Apply
3	1PC612AD	Compiler	Shrikarshobit/ Ms unnati K	1PC612AD.3	Design Push down automata, Turing machine	Create
		Design	ivis uimati K	1PC612AD.4	Construct parsing tables for different types of parsing techniques and syntax directed translations	Apply
				IPC612AD.5	Compare different memory management techniques in runtime environment and understand process of code generation	Understand



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1			1	B	ologies Summary A 1:2025-24	
				1PE608 AD.1	Understand the basic project management concepts, framework and the process models	Understand
				1PE608AD.2	Apply appropriate software process model and software effort estimation techniques	Apply
4	1PE608 AD	Professional Elective – II(SPM)	Dr Shaik khaleel ahamed/ Ms Radhika	1PE608 AD.3	Estimate risks involved in various project activities, staff and issues related to people management	Evaluate
				1PE608 AD.4	Analyze checkpoints, project reporting structure, projectprogress and tracking mechanisms using project managementprinciples.	Analyze
				1PE608 AD.5	Apply project management concepts through working	Apply
				6OE602ME.1	Describe the fundamentals of 3d printing, classify and explain advantages and disadvantages of 3D Printing technologies	Understand
				6OE602ME.2	Identify the appropriate CAD file formats and software utilized in 3D printing technology.	Understand
5	6OE602ME	OE- II(3D Printing)	Ms I Sowjanya	6OE602ME.3	Describe the operating principles, capabilities and limitations of liquid, solid & powder based 3D Printing Technologies.	Understand
				6OE602ME.4	Compare different 3D printing technologies based on their process capabilities and applications	Understand
				6OE602ME.5	Apply the capabilities and knowledge of 3D printing in different industrial sectors.	Apply
		Effective	Dr Sunil Solomon/ Ms Jayashree	1HS652HS.1	Listen to a variety of speakers and texts and will be able to comprehend and perform the required tasks.	Understand
				1HS652HS.2	Interact in a group professionally and communicate confidently in terms of both the spoken and written communication.	Applying
6	1HS652HS	Technical Communicatio		1HS652HS.3	Develop the skills and strategies of reading and writing.	Applying
		n		1HS652HS.4	Face any Interview confidently by managing time, making decisions by speaking appropriately according to the context.	Applying
				1HS652HS.5	Demonstrate right attitude and right skills to cope with team and communicate professionally.	Applying
				1PC661AD.1	Apply machinelearning algorithms: data set preparation, model selection, model building etc.	Applying
- 1				1PC661AD.2	Evaluate various Machine Learning approaches.	Evaluate
7	1PC661AD	Machine Learning Lab	Mr D Raja sekhar/	1PC661AD 3	Use scikit-learn, Keras and Tensorflow to apply ML techniques.	Applying
		Dourning Duo	Dr U Moulali	IPC661AD.4	Design and develop solutions to real world problems using ML techniques.	Analyze
				1PC661AD.5	Apply unsupervised learning and interprettheresults	Understand



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1			1	otogies Summary AY:2023-24	
			1PC662AD.1	Understand the basics of data visualization and the best practices for creating effective visualizations.	Understand
	Data	D- D'	1PC662AD.2	Connect to data sources and create basic visualizations in Tableau Desktop.	Applying
1PC662AD	Visualization Lab	Moses/ Ms P Nandini	1PC662AD.3	Create more advanced visualizations and dashboards using table calculations, filters, and actions.	Applying
			1PC662AD.4	Present data stories using Tableau by creating interactive visualizations and dashboards.	Applying
			1PC662AD.5	Analyze the impact of different Visualization components and their use in various business sectors.	Analysing
		,	1PW663AD.1	Interpret a variety of approaches and perspectives of system development.	Understand
		Dr U Moulali/ Dr Shaik Khaleel Ahmed	1PW663AD.2	Identify the requirements which are relevant to the design of a system.	Applying
1PW663AD	, ,		1PW663AD.3	Model software design with a set of objects and their relationships using structural modeling.	Applying
			1PW663AD.4	Take part in using advanced & behavioral modeling to develop a case study.	Analysing
			1PW663AD.5	Develop components through architectural modeling.	Creating
		1PW663AD MiniProject	1PC662AD Visualization Lab Moses/ Ms P Nandini 1PW663AD MiniProject Dr U Moulali/ Dr Shaik	1PC662AD.2 Data Visualization Lab Dr Diana Moses/ Ms P Nandini 1PC662AD.3 1PC662AD.3 1PC662AD.4 1PC662AD.4 1PC662AD.4 1PC662AD.4 1PW663AD.1 1PW663AD.1 1PW663AD.2 1PW663AD.2 1PW663AD.3 1PW663AD.4	Data Visualization Lab Dr Diana Moses 1PC662AD.3

Assessment Committee Dept. of Computer Science Methodist College of Engg. & Tech King Koti, Hum.

HOD CSE Head of the Department Department of CSE Methodist College of Engg. & Tech Abids, Hyderabad



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			uity Teaching Men	VII SEM A	•	
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	BT Level
				PC701AD.1	Demonstrate the fundamentals of neural networks and their training.	Understand
				PC701AD.2	Illustrate the optimization methods for deep neural networks.	Understand
1	PC701AD	Deep Learning	Mrs. K.Radhika	PC701AD.3	Differentiate between various architectures of CNNs, RNN	Analyzing
				PC701AD.4	Apply the relevant architecture to applications of Computer Vision and NLP	Applying
				PC701AD.5	Illustrate architecture of GANs and their applications	Understand
		Mining of Massive DataSets	Mrs Harika	PC702AD.1	Understand various massive datasets and apply pre-processing Techniques and evaluate with various statistical methods for any given raw data.	Remember/under stand
	1			PC702AD.2	Extract interesting patterns from large amounts of data.	Applying
2				PC702AD.3	Choose suitable data mining algorithm for clustering, on data stream and analyse page rank algorithms.	analyse
				PC702AD.4	Discover the role played by data mining in social network	Remember/under stand
				PC702AD.5	Discover the role played by data mining in advertising. 6.Case studies on mining of social network and advertising on the web	Applying
				PC703AD.1	Explain the basic project management concepts, framework and the process models	Understanding
				PC703AD.2	Apply appropriate software process model and software effort estimation techniques	Applyinging
		Software	Mr.M.Krishnamur thy	PC703AD.3	Estimate risks involved in various project activities, staff and issues related to people management	Evaluating
3	PC703AD	Project Management		PC703AD.4	Analyze checkpoints, project reporting structure, projectprogress and tracking mechanisms using project managementprinciples.	Analyzing
				PC703AD.5	Apply project management concepts through working in a group as team leader	Applyinging



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING(AI&DS)

		racu	ty Teaching Meth	odologies Sumi	uary AY:2023-24	
				PE742AD L	Apply pormalization techniques on a document	Applying
					Implement parts of speech tagging and classification techniques on the words	Applying
4	PE742AD	PE-IV(NLP)	Or. Syed Azhaad	PE742AD.3	Sellience light word net and also build the	Analyze and Evaluate
					Understand the WSD and understand to use WORDNET.	Analyze
				PE742AD.5	Analyse Chabot's, dialogue systems, and automatic speech recognition systems	Analyze
				PC751AD.1	Develop ANN without using Machine Learning/Deep learning library	Creating
				PC751AD.2	Understand the Training ANN model with back propagation	Understanding
5		Deep Learning Lab	Mrs. K.Radhika	PC751AD.3	Develop model for sequence learning using RNN	Creating
				PC751AD.4	Develop image classification model using ANN and CNN.	Creating
				PC751AD.5	Generate a new image with auto-encoder and GAN.	Applying
		Mining of Massive DataSets Lab	Mrs Harika	PC752AD.1	Able to understand and implement different methods in Mining the Data.	Remember understand
				PC752AD.2	able to apply statistics and other mathematical functions for mining the data	Applying
6	PC752AD			PC752AD.3	Able to analyse various association rules and implement the algorithms	analyse
				PC752AD.4	Able to understand the Stream Data Model	Remember
				PC752AD.5	Able to implement various clustering algorithms	Applying
				PW761AD.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.	Applyinging
			,	PW761AD.2	Evaluate different solutions based on economic and technical feasibility	Evaluating
7	PW761AD	Project Work(Phase-I)	Dr.P.Lavanya	PW761AD.3	perform all aspects of project management	Analyzing
				PW761AD.4	communication skill	Underatanding
				PW761AD.:	Communicate effectively by comprehending, documenting, making effective presentation an exchanging clear instructions	d Evaluating



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Faculty Teaching Methodologies Summary AY:2023-24

				SI671AD.1	Design/ develop a small and simple product in hardware or software	Creating
	8 1816/1AD 1	Summer	Summer Internship Dr Syed Azahad		Build the task or realize a pre-specified target, with limited scope, rather taking up a COMPLEX TASK AND LEAVE IT	Analyzing
8		Internship			Determine the challenges and future potential for his / her intenship organization in	Analyzing
				SI6/1A1)4 1	Apply various soft skills such as time management, positive attitude and	Applying
				SID/LALLS I	analyze the functioning of internship organization and recommend changes for	Analyzing

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Faculty Teaching Methodologies Summary AY:2023-24

	VIII SEM AV:2023-24								
S. No	Common Co	de Course	Course Instructor	CO No	Course Outcome	BT Level			
				OEN05CE.1	Explain the fundamentals of road safety analysis	Analysing			
		Essentials of	,	OE805CE.2	analyze accident data	Analysing			
1	OE805CE		Ms Madhuri	OE805CE.3	illustrate the concepts of road safty audit	Understand			
		Engineering		OE805CE.4	Demonstrate the applications of road signs and markings	Understand			
				OE805CE.5	Illustrate the traffic systems from road safty point of view	Understand			
				PE851AD.1	The objective of this course is to introduce data engineering and role of data engineers.	Understand			
			15.6 mc 5.7 may 990 (-2	PE851AD.2	Familiarize students with the basic and advanced techniques of data engineering, data modeling and data acquisition.	Understand			
2	PE\$51AD	PE-V(Data Engineering)		PE851AD.3	To learn key techniques of the data modeling framework and Big data tools.	Applying			
				PE851AD.4	To learn categories of API and data science projects using API.	Applying			
				PE851AD.5	to design, develop, and optimize ETL pipelines to process and integrate data from multiple sources into centralized systems.	Analysing			
				PW861AD.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.	Applying			
				PW861AD.2	Evaluate different solutions based on economic and technical feasibility	Evaluating			
	PW861AD	Project Work-	Dr. P. Lavanya	PW861AD.3	Effectively plan a project and confidently perform all aspects of project management	Analyzing			
				PW861AD.4	Demonstrate effective written and oral communication skill	Understand			
				PW861AD.5	Communicate effectively by comprehending, documenting, making effective presentation and exchanging clear instructions	Evaluating			

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Faculty Teaching Methodologies Summary AY:2023-24

I SEM AY:2023-24

S.	Course		102	AY:2023-2	4	
No	Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy
				ES101CS.1	Formulate simple algorithms for arithmetic and logical problem; Translate the algorithms to programs	Understanding
		Programming	Mr T Praveen	ES101CS.2	Test and execute the programs and correct syntax and logical errors	Applying
1	ES101CS	for Problem Solving	Dr G Saritha Mr D Rajashekhar	ES101CS.3		Evaluating
				ES101CS.4	Decompose a problem into functions and synthesize a complete program using divide and conquer approach	Analyzing
				ES101CS.5	Construct recursive programs and use structures to formulate algorithms and programs	Creating
			Mr T Praveen Dr G Saritha Mr D Rajashekhar	ES151CS.1	Choose appropriate data type for implementing programs in C language	Create
				ES151CS.2	Design and implement modular programs involving input output operations, decision making and looping constructs	Understand
2	ES151CS	for Problem Solving		ES151CS.3	Apply the concept of arrays, pointers for implementing programs and string handling	Create
				ES151CS.4	Design and implement programs to store data in structures and files	Understand
				ES151CS.5	Develop confidence for self education and ability for life long learning need for computer languages	Apply

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Faculty Teaching Methodologies Summary AY:2023-24

II SEM AY:2023-24

S. No	Course Code	Course	Course Instructor	CO No	M AY:2023-24	DI
			mstructor		Course Outcome	Blooms Taxonomy
				ES202CS.1	Analyze the complexities of recursive and Non recursive algorithms.	Analyze
		p.	Mr Kareem	ES202CS.2	Apply the concepts of dynamic memory allocation for reducing the time and space complexity of algorithms.	Applying
1	ES202CS	Data Structures	Basha Dr G Saritha	ES202CS.3	Apply ADT concepts such as arrays, stacks and queues for solving infix to post fix, postfix evaluation.	Evaluate
				ES202CS.4	Design and implement the Non linear data structures trees to optimize the solution	Creating
				ES202CS.5	Implement linear, binary, hashing searching techniques and sorting techniques	Applying
		Data Structures		ES252CS.1	Understand and Implement the abstract data type and reusability of a particular data structure.	Remembering
				ES252CS.2	Implement linear data structures such as stacks, queues using array and linked list.	Understand
2	ES252CS		Mr Kareem Basha Dr G Saritha	ES252CS.3	Understand and implements non-linear data structures such as trees, graphs.	Evaluating
			o Sumina	ES252CS.4	Implement various kinds of searching, sorting and traversal techniques and know when to choose which technique.	Creating
				ES252CS.5	Understand and implementing hashing techniques.	Analyzing

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III SEM AY:2023-24

S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy
				3BS305HS.1	variables	Applying/ Remembering
		-		3BS305HS.2	Apply various probability distributions to solve practical problems, to estimate unknown parameters of populations	Applying
1	20220242	Probability & Statistics	Mr. T.Joseph Ms.Hima Bindu	3BS305HS.3	Find Mean, variance, moment generating function and statistical parameters of continuous probability distributions	Applying
				3BS305HS.4	To perform a regression analysis and to compute and interpret the coefficient of correlation	Remembering Analyzing
				3BS305HS.5	Evaluate t-distribution, F-distribution and chisquare distributions. Fitting of straight line, parabola and exponential curves	Applying Evaluating
				3ES301 EC.1	Illustrate the basic principles of Binary Systems, Boolean algebra and Logic Gates.	Understanding
	3ES301 EC	Switching Theory and Logic Design	d Mrs.J.Sowmya	3ES301 EC.2	Design & Measure various physical parameters Memory and Programmable Logic & understanding of memories	Applying
2				3ES301 EC.3	Apply the principles of Analysis Procedure, Design Procedure, for Binary Adder Substractor Decimal Substractor Binary Multiplier	Remembering
				3ES301 EC.4	Design & Use various types of Synchronous Sequential Logic & Sequential Circuits. Latches. Flip-flops etc.	Analyzing
				3ES301 EC.5	Identify and understand Identify and classify types of Combinational Logic Design or Sequential Logic Design.	Understanding
				3PC301CS.1	Define, explain and illustrate the fundamental concepts of databases	Understanding
	,	Database		3PC301CS.2	Construct an Entity-Relationship (E-R) model from specifications and to perform the transformation of the conceptual model into corresponding logical data structures	
3	3PC301CS	-	Dr T Praveen Kumar Dr. U. Moulali	3PC301CS.3	Model and design a relational database following the design principles	Analyzing Understanding
		Systems	Dr. U. Moulali	3PC301CS.4	Develop queries for relational database in the context of practical applications	Evaluating
				3PC301CS.5	Define, explain and illustrate fundamental principles of data organization, query optimization and concurrent transaction processing.	Evaluating



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				3PC302CS.1	Apply mathematical logic to solve problems	Applying
					Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate knowledge of their associated operations.	Understanding
4	3PC302CS	Discrete Mathematics	Mr. Venkatram Vennam Mr. T Vijay Kumar	3PC302CS.3	Identify structures of algebraic nature and apply basic counting techniques to solve combinatorial problems.	Applying/Analy zing
			·	3PC302CS.4	Formulate problems and solve recurrence relations	Creating
				3PC302CS.5	Apply Graph Theory in solving computer science problems	Applying
				3PC303CS.1	formats and addressing modes	Understanding
5	and	Organization	Mrs. A.Sowjanya	3PC303CS.2	Describe the internal architecture and register organization of 8086 and the addressing modes in 8086	Understanding
		Microprocess or		3PC303CS.3	Design and develop Assemble level programs using 8086 microprocessor instruction set	Applying
				3PC303CS.4	Explain various I/O Interfacing mechanisms	Understand
				3PC303CS.5	Analyze the performance of different memory organization techniques	Analyzing
				3MC302HS.1	II. 1 1.1	Understand
		Essence of		3MC302HS.2	Distinguish the Indian languages and literature	Analyzing
6	3MC302HS	Indian	Mrs. Prashanthi	3MC302HS.3	I and I I I I	Understand
		Knowledge		3MC302HS.4	Acquire the information about the fine arts in India	Understand
				3MC302HS.5	Know the contribution of scientists of different eras, interpret the concepts and the importance to protect Intellectual property of the nation.	Understand
				3PC351CS.1	Design and implement a database schema for a given problem	Creating
		Database	Dr T Praveen	3PC351CS.2	Develop the query statements with the help of structured query language.	Applying
7	3PC351CS		Kumar Dr. U. Moulali	3PC351CS.3	Populate and query a database using SQL and PL/SQL	Applying
		,	J. G. Moulan	3PC351CS.4	Develop multi-user database application	Applying
			3PC351CS.5	Design and implement E-R model for the given requirements	Creating	



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Faculty Teaching Methodologies Summary AY:2023-24

				8	mmary AY:2023-24	
			Man A Gard	31033208.1	Interpret the principles of Assembly Language Programming, instruction set in developing microprocessor based applications	Understanding
		Computer Organization		3PC352CS.2	Design and implement programs on 8086 microprocessor	Creating
8	3PC352CS	and Microprocess or Lab	Mrs. A.Sowjanya Mrs. K Keerthi	3PC352CS.3	Understand working of instruction set and addressing modes	Understanding
		or Eur		3PC352CS.4	Explore and implement the interfacing of various peripheral devices with 8086	Applying
				3PC352CS.5	Analyze the function of traffic light controller.	Analyzing
	,			3PC353CS.1	Demonstrate solutions to computational problems using python programs.	Understanding
		Python	Mr. Shaik Rasool Ms. Sana Mateen	3PC353CS.2	Solve complex problems using python functions and control structures.	Applying
9	3PC353CS	Programming Lab		3PC353CS.3	Use Python lists, tuples and dictionaries for representing compound data.	Evaluating
				3PC353CS.4	Develop object-oriented programs with python classes	Applying
				3PC353CS.5	Develop Python programs for GUI applications	Creating
			Dr. Syed Azahad Dr. Shaik Khaleel Ahamed	3PW354CS.1	Understand IoT Fundamentals: Students will comprehend the fundamental concepts and components of the Internet of Things (IoT) ecosystem.	Understanding
		01:11		3PW354CS.2	Sensor Integration: Students will be able to integrate various sensors into IoT systems to collect real-world data.	Applying
10	3PW354CS	Skill Development Course – I (IOT)		3PW354CS.3	Data Processing and Analysis: Students will process and analyze data collected from IoT devices using appropriate techniques and tools.	Applying/ Analyzing
				3PW354CS.4	Connectivity Protocols: Students will understand and apply different communication protocols for connecting IoT devices to networks.	Applying/ Understanding
			3PW354CS.5	IoT Application Development: Students will develop IoT applications using programming languages and platforms.	Creating	

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				IV SE	M AY:2023-24	
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy
				3HS404HS.1	Solve Linear Programming Problems by various methods	Applyinging
				3HS404HS.2	Finding relationship between primal and dual solution, Economic Interpretation Research.	Analyze
1		Optimization & Problem Solving Techniques	Mrs Hima Bindu	3HS404HS.3	Understand the mathematical tools that are needed to solve optimization problems like Transportation models	Understanding
				3HS404HS.4	Understand the Assignment models	Understanding
				3HS404HS.5	Understand the theory of Game in operations research at the end students	Understanding
				3PC404CS.1	Understand the principles of Data Warehousing and Data Mining	Understanding
	3PC404CS	Data Mining	Mr.Srinudhara vath Mr. D. Raja shekar	3PC404CS.2	Implement data warehouse architecture and its applications	Implement
2				3PC404CS.3	Organize and prepare the data needed for data mining using preprocessing techniques	Analyze
				3PC404CS.4	Implement the appropriate data mining methods like classification, association and clustering on a given data set	Implement
				3PC404CS.5	Understand the importance of data mining application and using the most appropriate approach for the realistic strategy	Understanding
				3PC405CS.1	Explains the concepts of OS along with an understanding of the process, memory and file managements and also defines the disk structure and I/O sub system	Understanding
		Onesatina	Ma Malatin		Applies the knowledge of process, memory and file managements and implements the respective algorithms to find the efficacy and performance	Applyinging
3	3PC405CS	Operating Systems	Mr .Mohd.Ilias Dr S K Shruthi		Applies and executes the OS system call programs, process synchronization ,page replacement, directory and disk scheduling algorithms	Applyinging
				3PC405CS.4	Analyzes and studies the operating systems such as LINUX, Windows, Solaris	Analyzing
				3PC405CS.5	Evaluates the performance of synchronization examples and disk algorithms	Evaluating



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				3FC400CS.1	Understand the concept of Computer Networks, OSI & TCP/IP reference models and discuss the functionalities of each layer in these models.	Understand
				3PC406CS 2	Apply bandwidth utilization techniques, Framming techniques, flow and error control protocols and various addressing schemes for an efficient transmission of data through the layers.	Apply
	320.4000.51	Computer Networks	Mrs	3PC406CS.3	Analyze various Layered architectures, transmission media, data link control protocols, MAC protocols, address mapping protocols, routing protocols and various application layer protocols	Analyze
				3PC406CS.4	Evaluate various routing algorithms such as unicast and multicast routing algorithms.	Evaluate
			·	3PC406CS.5	Discuss various classes of IP addressing and NAT with examples	Create
			Dr Sunil Solomon Mr M.L Murty	3HS403HS.1	Understand the Significance of value inputs in a classroom and start applying them in their life and profession	Understand
	3HS403HS			3HS403HS.2	Assess their own ethical values in personal, and social contexts	Understand
5		Human Values Professional Ethics		3HS403HS.3	Understand the role of a human being in ensuring harmony in family, society and nature.	Understand
				3HS403HS.4	Compare and contrast between ethical and unethical conduct within the society	Analyzing
				3HS403HS.:	Relate with the holistic perspective in students' life and profession	Understand
				3PC455CS.	Evaluate the performance of different types of CPU scheduling algorithms.	Evaluate
				3PC455CS.:	Implement producer-consumer problem, reader-writers problem, Dining philosopher's problem.	Applying
6	3PC455C	S Operating Systems Lab	Mr .Mohd.Ilia Dr S K Shruth	1 300 4550	3 Simulate Banker's algorithm for deadlock avoidance.	Creating
				3PC455CS.	4 Implement paging replacement and disk scheduling techniques.	Applying
				3PC455CS	Use different system calls for writing application programs.	Applying



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Teaching Methodologies Summary AY:2023-24

	1		1	caching wietho	odologies Summary AY:2023-24	
				3PC456CS 1	Understand the network services/commands for network troubleshooting and management	Understand
				3PC456CS.2	Apply appropriate network analysis techniques to capture and examine network traffic using protocol analyzer	Applying
7	3PC456CS	Computer Networks Lab	Mrs K Keerthi	3PC456CS.3	Implement datalink layer framing methods and evaluate data integrity using CRC polynomials	Creating
				3PC456CS.4	Design and simulate network topologies using software tools like Packet Tracer to analyze and optimize network configurations	Analyzing
				3PC456CS.5	Simulate and analyze the performance of various congestion control algorithms using tools like NS2/NS3/NetSim.	Analyzing
			Mrs Vasavi Sravanthi Ms Nandhini	3PC457CS.1	To understand the concept of Object Oriented Programming Systems and use arrays, string Tokenizer.	Understand
	3PC457CS	Java Programming Lab		3PC457CS.2	To apply OOPs concepts on packages, inheritance and interface.	Applying
8				3PC457CS.3	To implement java programs for exception handling and error free code.	Applying
				3PC457CS.4	To analyze java programs on Method Overloading and Method Overriding.	Analyzing
				3PC457CS.5	To implement java programs for multithreading and java collection framework.	Applying
				3PW458CS.1	Explain network technologies, networking model and how devices access local and remote networks.	Understand
				3PW458CS.2	Describe router hardware and Explain how switching operates in a small to medium-sized business network	Understand
9	3PW458CS	Skill Development Course- II	Mrs. B. Sowjanya Mrs. Unnati K	3PW458CS.3	Design an IPv4 and IPv6 addressing scheme to provide network connectivity for a small to medium-sized business network	Creating
		254.00 11	ivirs. Onnati K	3PW458CS.4	Configure initial settings on a network device using Cisco command-line interface (CLI) and Implement various types of LANs and trunking in a switched network	Creating
				3PW458CS.5	Develop critical thinking and problem solving skills using Cisco Packet Tracer.	Creating

Assessment Committee

Dept. of Computer Science

Methodist College of Engg. & Tech

King Koti, Hyderabad.

Head of the Department
Department of CSE
Methodist College of Engg. & Tech



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					Y:2023-24	
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy
				3PC507CS 1	Understand the core principles and concepts of AI and exhibit proficiency in problem solving using search strategies, ML techniques to address real world problems.	Understand
				3PC507CS.2	Examine the issues involved in knowledge bases, reasoning systems ,planning and Automatic Speech Recognition.	Apply
1	3PC507CS	Artificial Intelligence	Ms. Sana Mateen Dr. U. Moulali	3PC507CS.3	Design and evaluate intelligent agent and expert models for perception and prediction from intelligent environment.	Analyse
				3PC507CS.4	Understand and apply fuzzy logic, utility theory and various algorithms of Machine learningenabling them to make informed decisions and manage uncertainties and consider utility in A applications	1
				3PC507CS.5	Understand and Apply Natural Language Processing and Machine Learning Techniques to develop intelligent systems.	Understand
			Mr. A.A.R Senthil Kumar Mrs. Unnati Khanapurkar	3ES501CS.1	Explain the fundamentals of digital image and its processing	Understand
				3ES501CS.2	Understand the enhancement, segmentation, restoration, compression processes on an image	Understand
2	27050100	Digital Imag		3ES501CS.3	Explore the fundamental relation between pixels and apply image enhancement, filtering techniques, morphological operations for image processing	Apply
	3ES501CS	Processing		3ES501CS.4	Explore the utility of 2-D transforms and analyze the different linear image restoration techniques	Analyze
				3ES501CS.	Evaluate point processing techniques, histogram manipulation, compression techniques and mathematical model for image restoration	Evaluate



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				o do logica Bull	imary AY:2023-24	
				3FC308CS.1	Acquired working knowledge of alternative approaches and techniques for each phase of SDLC	Analyze
				31 C308C3.2	Judge an appropriate process model(s) for software project attributes and analyze requirements for project development	Analyze
3	3PC508CS	Software Engineering	Dr.G.Saritha Mr. Srinu Dharayath	3PC508CS.3	Acquire skills necessary as an independent or as part of a team for architecting a complete software project by identifying solutions for recruting problems exerting	Understand
			Bilat a vatij		Concede product quality through testing techniques employing appropriate metrics by understanding the practical challenges associated with the development of a significant software system	Apply
					Apply the software engineering principles in real time project development	Apply
		Disaster Mitigation	Mrs. Mary Soujanya	OE501CE.1	Demonstrate the concepts of disaster management	Understanding
	OE501CE			OE501CE.2	Identify different types of disasters	Understanding
4				OE501CE.3	Explain the disaster management cycle	Understanding
				OE501CE.4	Illustrate the role of NDMA in disaster management	Understanding
				OE501CE.5	Explain the development of disaster mitigation plan	Applying
				3PE504CS.1	Describes the programming paradigms of modern programming languages	Understanding
				3PE504CS.2	Applies the naming conventions in defining data types for expressions and control structures in programming and compares the design issues	Applying, Analyzing
5	3PE504CS	Principles of Programming Languages	1411. 141	3PE504CS.3	Demonstrates the use of sub-programs and their referencing in various languages and compares the design issues	Applying, Analyzing
			Krishnamurty	3PE504CS.4	Demonstrates object-oriented programming and functional programming in different programming environments and compares the design issues	Applying, Analyzing
				3PE504CS.5	Evaluate the relative benefits of programs designed in different language paradigms.	d Evaluate



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- 1	1		1	ĺ		
				3MC503HS.1	To outline the history of civilization in Indian Context since pre-Vedic times	Understanding
					Philosophy	Understanding
6	3MC503HST	ndian Constitution	Mr. Satyapal Reddy	3MC503HS.3	To demonstrate the diversity in Indian Thought ,Languages , regional culture , dress, living style etc.	Understanding
				3MC503HS.4	To Identify the various religious and social reform movements which took place in the past few centuries	Applying
				3MC503HS.5	To classify the wealth of Indian Fine Arts and the diversity associated with it over the length and breadth of the country	Understanding
			Ms. Sana Mateen Dr. U. Moulali	3PC559CS.1	Implement basic programming constructs in Python, such as loops, conditionals, and functions.	Apply
	3PC559CS	Artificial Intelligence Lab		3PC559CS.2	Understand the problem-solving process in artificial intelligence and Design and develop solutions for informed and uninformed search problems in AI.	Apply
7				3PC559CS.3	Demonstrate reasoning in first order logic using Prolog.	Apply
				3PC559CS.4	Demonstrate and enrich knowledge to select and apply python libraries to synthesize information and develop supervised learning models.	Apply
				3PC559CS.5	Utilize advanced package like NLTK for implementing natural language processing and Develop a case study in multidisciplinary areas to demonstrate use of AI.	Create
				3ES551CS.1	Understand how the images are read as grayscale and RGB	Understand
		D: 11.11	Mr. A.A.R Senthil	3ES551CS.2	Apply the different techniques to convert the images in different forms	Apply
8	3ES551CS	Digital Image Processing Lab	Kumar Mrs. Unnati	3ES551CS.:	Understand the processing and implement different images filtering techniques	Understand
			Khanapurkar	3ES551CS.	Implement edge dection	Apply
				3ES551CS.	Comapre the different DFT,DCT and DWT techniques	Apply



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Faculty Teaching Methodologies Summary AY:2023-24

					Mility A1.2025-24	
				3PW560CS.1	Understand the basics of Android development, including the Android Studio IDE, the Android SDK, and the AndroidManifest.xml file.	Understand
		Skill		3PW560CS.2	Create an app with multiple activities that can communicate with each other using intents.	Create
9	3PW560CS	Development Course- III	Mr.T.Vijay Kumar Mrs Harika	3PW560CS.3	Create a variety of user interface elements, such as buttons, text fields, and checkboxes.	Create
				3PW560CS.4	Use layouts to arrange their user interface elements in a logical and efficient way.	Apply
				3PW560CS.5	Understand how to store data in Android apps, using both local and remote storage options.	Understand
				3HS553HS.1	Listen to a variety of speakers and texts and will be able to comprehend and perform the required tasks.	Understand
				3HS553HS.2	Interact in a group professionally and communicate confidently in terms of both the spoken and written communication	Apply
10	3HS553HS	Soft Skills Lab - I	Ms. Sona Lakshmi Ms. J. Hephzabah	3HS553HS.3	Develop the skills and strategies of reading and writing.	Apply
				3HS553HS.4	Face any Interview confidently by managing time, making decisions by speaking appropriately according to the context.	Understand & Apply
				3HS553HS.5	Demonstrate right attitude and right skills to cope with team and communicate professionally.	Understand

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S.	Course			VI SE	M AY:2023-24	
S. No	Course Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy
				3PC609CS.1	Understand to compute the complexities in different algorithmic approaches like brute force, divide and conquer, greedy method, dynamic programming, describe the classes P, NP, NP-Complete problems and graph traversals	Understand
				3PC609CS.2	Solve recurrence relation using different methods and compare the different methods to generate a minimum cost spanning tree using greedy approach and implement Dijkstra's algorithm	Applying
1	3PC609CS	Analysis of 1	Mrs. B. Sowjanya	3PC609CS.3	Solve problems using algorithm design methods such as backtracking and branch and bound, apply the concept of graph colouring to various practical problems	Applying
				3PC609CS.4	Analyze the best approach to solve various problems like Knapsack problem, Travelling salesman problem, parallel algorithms and Differentiate deterministic and non deterministic algorithms	Analyze
				3PC609CS.5	Determine the best sorting and searching algorithm, optimal Hamiltonian circuit and whether a problem is satisfiable or not and perform asymptotic analysis	Evaluate
			Dr Diana	3PC610CS.1	Describes supervised, unsupervised, semi-supervised and Reinforcement based learning, feature selection and feature extraction methods and their appropriate evaluation procedures and metrics used for machine learning models.	Understand
				3PC610CS.2	Applies various supervised learning algorithms by applying them to different scenarios.	Applying
2	3PC610CS	Machine Learning	Moses Ms Sana Mateen	3PC610CS.3	Applies various unsupervised learning algorithms by applying them to different scenarios.	Applying
			- Valeen	3PC610CS.4	Describes different Semi-supervised and reinforcement learning algorithms to different datasets.	Understand
				3PC610CS.5	Compares and evaluates different machine learning approaches and infers the best learning model for a given scenario using appropriate evaluation metrics.	Analyze
				3PC611CS.1	Understand the basics of automata, regular expression, push down automata, turing machine, compiler, parser ,code optimization techniques	Understand



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1	1		, -	- Tricting	dologies Summary AY:2023-24	
2	3DC(11CS	Automata	Mr Srikar -	3PC611CS.2	Construct equivalently powerful notations for a language, including DFAs, NFAs, and regular expressions, between PDAs and CFGs	Applying
3	3PC611CS	Languages and Compiler Design	Mr Sagar Babu	3PC611CS.3	Design Push down automata, Turing machine	Applying
		,		3PC611CS.4	Construct parsing tables for different types of parsing techniques and syntax directed translations	Applying
				3PC611CS.5	Compare different memory management techniques in runtime environment and understand process of code generation	Understand
				3PE610CS.1	Apply normalization techniques on a document and evaluate a language model.	Applying
		Duefessional		3PE610CS.2	Implement parts of speech tagging and classification techniques on the words	Applying
4	3PE610CS	ruechve –	Mr Mujtaba Gulam	3PE610CS.3	Establish relationships among words of a sentence using word net and also build the question answering system.	Analyze and Evaluate
				3PE610CS.4	Understand the WSD and understand to use WORDNET.	Analyze
				3PE610CS.5	Analyse Chabot's, dialogue systems, and automatic speech recognition systems	Analyze
		Open Elective – II(3D Printing)	Mrs Shaziya	60E602ME.1	Describe the fundamentals of 3d printing, classify and explain advantages and disadvantages of 3D Printing technologies	Understand
				60E602ME.2	Identify the appropriate CAD file formats and software utilized in 3D printing technology.	Understand
5	60E602ME			6OE602ME.3	Describe the operating principles, capabilities and limitations of liquid, solid & powder based 3D Printing Technologies.	Understand
				60E602ME.4	Compare different 3D printing technologies based on their process capabilities and applications	Understand
				6OE602ME.5	Apply the capabilities and knowledge of 3D printing in different industrial sectors.	Applying
				3HS602HS.1	Handle Technical Communication effectively by over coming barriers of communication	Understand, Applying
		Effective Technical	M.L .Murty	3HS602HS.2	Use different types of Professional correspondence to communicate effectively.	Applying
6	3HS602HS	Communication(E	Mrs Hephzabah	3HS602HS.3	Use different types of Business and Inter Office Correspondence	Applying
				3HS602HS.4	Acquire adequate skills drafting efficient reports	Applying
				3HS602HS.5	Enhance their skills of information transfer.	Applying



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Faculty Teaching Methodologies Summary AY:2023-24

				3PC661CS.1	Apply machine learning algorithms using libraries like scikit-learn to build predictive models for real-world problems.	Applying
				3PC661CS.2	Effectively use pandas, numpy and scipy to conduct	Applying
7	3PC661CS	Machine Learning Lab	Dr Diana Moses Ms Sana Mateen	3PC661CS.3	Demonstrate the application of k-means and hierarchical clustering algorithm by implementing them on real-world datasets.	Applying
				3PC661CS.4	Evaluate the performance of various supervised learning algorithms on a dataset using appropriate evaluation metrics in python and weka.	Analyse
				3PC661CS.5	Demonstrate ensemble techniques like boosting, bagging and random forest	Applying
	32(667(8)	Web Technology Lab	Mr. Shaik Rasool Dr Shaik Khaleel Ahamed	3PC662CS.1	Create web pages using HTML and Cascading Styles sheets.	Creating
				3PC662CS.2	Develop web applications using PHP.	Applyinging
8				3PC662CS.3	Write a well-formed / valid XML document.	Creating
				3PC662CS.4	Write a server side java application.	Creating
				3PC662CS.5	Compare Servlet and JSP concepts and apply JSP concepts to create dynamicweb pages by reducing the code complexity.	Applyinging
				3PW663CS.1	Identify the engineering problem relavant to the domain interest	Applying
				3PW663CS.2	Carry Out Literature Survey for its Worthiness	Analyze
9	3PW663CS	Mini Project	Dr .G.Saritha Dr. Syed	3PW663CS.3	Analyse and Identify an appropriate technique to solve the problem	Analyze
			Azahad	3PW663CS.4	Performe experiments /simmulations /Programming/Fabrication collect and interpret data	Implement
				3PW663CS.5	Document ,Prepare technical report and submit	Analyze

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Faculty Teaching Methodologies Summary AY:2023-24

S. Course								
No	Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy		
				PC701CS.1	Understand the problems and challenges associated with distributed systems and analyze IPCs with various architectures implemented.	Understanding		
				PC701CS.2	Analyze synchronization among processes, distributed algorithms along with the general properties of networked communication necessary through RPC and RMI interfaces.	Analyzing		
	PC701CS	Distributed Systems	Dr.Shruthi SK Mr.K.Muralidhar	PC701CS.3	Understand the importance of security in distributed systems. Analyze with Distributed-coordination based systems to achieve Consistency and Replication.	Applying		
				PC701CS.4	Differentiate about working of various Distributed file systems and Computing techniques. Apply distributed transaction control algorithms to reduce deadlocks.	1		
				PC701CS.5	Analyze the Distributed web-based system for concurrency control along with the web service and distributed service oriented architecture, fault tolerance mechanisms.	Analyzing, Applying		
			PE -III(Software Reuse Ms Mariya Nadeem	PE73XCS.1	Construct a design consisting of a collection of modules.	Applying		
		-III(Software		PE73XCS.2	Distinguish between different categories of design patterns.	Analyzing		
	PE73XCS			PE73XCS.3	Ability to understand and apply common design patterns to incremental/iterative development.	Applying		
				PE73XCS.4	Ability to identify appropriate patterns for design of given problem.	Understand		
				PE73XCS.5	Design the software using Pattern Oriented Architectures	Applying		
		PE-IV((Deep		PE74XCS.1	Ability to understand the fundamentals of a Neural Network, Perceptron and MP neuron	Understand		
	DETAVOS		Dr.P.Lavanya	PE74XCS.2	Ability to recall and apply the activation functions to Neural Networks	Applying		
	PE74XCS	Learning)	Mrs Harika	PE74XCS.3	Ability to analyse the architectures of CNN and RNN	Analyzing		
				PE74XCS.4	Ability to analyse the need for optimization	Analyzing		
				PE74XCS.5	Ability to explain the Adversial Learning Models,	Applying		



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Teaching Methodologies Summary AY:2023-24

				inotiologies Su	5	
				Explain the Indian industrial environment, opportunities and challenges of women entrepreneur in enterprise, first-generation entrepreneur, project financing in india, Intellectual patent rights and Aspects of Start-Up.	Understanding	
				OE701ME.2	Identify the characteristics of entrepreneurs, importance of linkage among small- medium and heavy industry, collaborative interaction for technology development, Concept of Patent. Start-up Policy and statargies.	Applying
	OE701ME	OE -II (Start Up Entrepreneurs hip)	Start Up repreneurs Mr Uday Kumar	OE701ME.3	Demonstrate the principle of project formulation, various types of enterprises, market demand, Financial, profitability analysis, sources forms of Intellectual Property	Analysing
				OE701ME.4	Sumarize the economic growth and environmental influence of entrpreneurship, evaluation of ideas, Patent document, Invention protection, Granting of patent, Rights of a patent, Licensing, Transfer of technology, Progress of startups in India	Understanding
				OE701ME.5	Make use of Knowledge of competence of entrepreneur, objective of small scale industry, Conception, Principles of future organizations, start-up sectors, and action plan for start-ups by Govt. of India.	Applying
				PC751CS.1	Write programs that communicate data between two hosts	Creating
				PC751CS.2	Configure Network File Systems	Understanding
1	PC/SICS I	Distributed Systems Lab		PC751CS.3	Use distributed data processing frameworks and mobile application tool kits	Applying
				PC751CS.4	Trace Communication protocols in distributed systems	Analyze
-				PC751CS.5	Design of algorithm distributed system	Creating
				PC752CS.1	Analyze a web page and identify its elements and attributes.	Analyzing
				PC752CS.2	Apply Cascading Style Sheets web pages for a good aesthetic sense of design.	Applying
1	1	Web Technologies	Mrs.B.Sowjanya	PC752CS.3	Build dynamic web pages using JavaScript	Creating
			Mr. Shaik Rasool	PC752CS.4	Develop server-side scripting using Middleware Technologies for various application scenarios	Creating
				PC752CS.5	Facilitate back-end Database communication for users via Middleware Technologies	Underatanding



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Faculty Teaching Methodologies Summary AY:2023-24

			rearry reacting week	no a o logico Dal	minary A1.2025-24	
				PW751CS.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.	Applying
			Dr T Praveen	PW751CS.2	Evaluate different solutions based on economic and technical feasibility	Evaluating
	PW751CS	Project Work – I	Kumar Dr. M Sarada varalakshmi	PW751CS.3	Effectively plan a project and confidently perform all aspects of project management	Analyzing
			Varatakshmi	PW751CS.4	Demonstrate effective written and oral communication skill	Underatanding
				PW751CS.5	Communicate effectively by comprehending, documenting, making effective presentation and exchanging clear instructions	Evaluating
		2CS Summer Internship	Dr Shruthi SK	SI752CS.1	Design/ develop a small and simple product in hardware or software	Creating
SI7				SI752CS.2	Build the task or realize a pre-specified target, with limited scope, rather taking up a COMPLEX TASK AND LEAVE IT	Analyzing
	SI752CS			S1752CS.3	Determine the challenges and future potential for his / her intenship organization in PARTICULAR AND THE SECTOR IN GENERAL	Analyzing
				SI752CS.4	Apply various soft skills such as time management, positive attitude and communication skills during performance of the tasks assigned in internship	Applying
				S1752CS.5	analyze the functioning of internship organization and recommend changes for improvement in processes.	Analyzing

Assessment Committee ... Dept. of Computer Science Methodist College of Engg. & Tec King Koti, Hyderahad

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Teaching Methodologies Summary AY:2023-24

VIII SEM AY:2023-24						
Course Code	Course	Course Instructor	CO No	Course Outcome	Blooms Taxonomy	
			PE85XCS.1	Apply normalization techniques on a document and evaluate a language model	Applying	
		Mr. M V D S	PE85XCS.2	Implement parts of speech tagging and classification techniques on the words	Implement	
PE85XCS		Krishnamurthy Mr.Srinu	PE85XCS.3	Establish relationships among words of sentence using wordnet and also build the question answering system	Analyze	
		diaravati	PE85XCS.4	Underastand the WSD and understand to use WORDNET	Understand	
			PE85XCS.5	Analyze chatbots, Dialogue systems, and automatic speech recognition systems	Analyze	
	Essentials of Road Safety Engineering	Mr. Bharath Naik	OE802CE.1	Explain the fundamentals of road safety analysis	Analysing	
			OE802CE.2	analyze accident data	Analysing	
OE802CE			OE802CE.3	illustrate the concepts of road safty audit	Understanding	
			OE802CE.4	Demonstrate the applications of road signs and markings	Understanding	
			OE802CE.5	Illustrate the traffic systems from road safty point of view	Understanding	
	Project Work-II	Dr T Praveen Kumar Dr M Sharadha varalakshmi	PW861CS.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.	Applyinging	
			PW861CS.2	Evaluate different solutions based on economic and technical feasibility	Evaluating	
PW861CS			PW861CS.3	Effectively plan a project and confidently perform all aspects of project management	Analyzing	
			PW861CS.4	Demonstrate effective written and oral communication skill	Underatanding	
			PW861CS.5	Communicate effectively by comprehending, documenting, making effective presentation and exchanging clear instructions	Evaluating	
	PE85XCS OE802CE	PE85XCS Professional Elective-V (NLP) Essentials of Road Safety Engineering	PE85XCS Professional Elective-V (NLP) Beside and the professional Elective-V (NLP) Course Instructor Mr. M.V.D.S Krishnamurthy Mr.Srinu dharavath Mr. Bharath Naik Project Work-II PW861CS Project Work-II Physical Course Course Instructor Mr. M.V.D.S Krishnamurthy Mr.Srinu dharavath Course Instructor Dr. T. Praveen Kumar Dr. M. Sharadha	Course Code Course Course Instructor CO No PE85XCS Professional Elective-V (NLP) Mr. M.V.D.S Krishnamurthy Mr. Srinu dharavath PE85XCS.2 PE85XCS.3 PE85XCS.4 PE85XCS.4 PE85XCS.4 PE85XCS.5 PE85XCS.5 OE802CE.1 OE802CE.2 OE802CE.2 PE85XCS.3 OE802CE.1 OE802CE.2 OE802CE.2 OE802CE.3 OE802CE.3 OE802CE.4 OE802CE.5 PW861CS.1 PW861CS.1 PW861CS.2 PW861CS.3 PW861CS.3 PW861CS.3	PE85XCS Professional Elective-V (NLP) PE85XCS.1 PESSXCS.2 Professional Elective-V (NLP) PE85XCS.2 Professional Elective-V (NLP) PE85XCS.3 PESSXCS.4 Professional Elective-V (NLP) PE85XCS.4 PESSXCS.4 PESSXCS.4 PESSXCS.4 PESSXCS.5 PESSXCS.4 PESSXCS.4 PESSXCS.5 PESSXCS.4 PESSXCS.5 PESSXCS.4 PESSXCS.5 PESSXCS.4 PESSXCS.5 PESSXCS.	

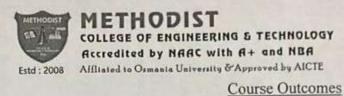
Assessment Committee
Methodist College of Engg. & Tech
King Koti, Hyderahad

Head of the Department

Department of CSE

Methodist College of Engg. & Tech

Abids, Hyderabad.



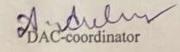


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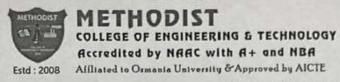
III Semester

Course Code	Course Name	Course Outcomes	Taxonomy
		Find the solution of algebraic and transcendental equations using numerical methods.	Apply
		Apply numerical techniques to solve ordinary differential equations an definite integrals.	Apply
4BS303EE	NMFS	Apply numerical methods to interpolate values and fit different curves from given data.	Apply
		Expand function as a Fourier series	Apply
		Apply the solution of partial differential equations to physical problems	Apply
4PC301EE		Understand the vector calculus for electromagnetism.	Understand
		Apply the electric fields for simple configurations under static conditions	Apply
	EMF	Analyze and apply the static magnetic fields.	Analyze
		Analyze the Electrical Circuits with the concept of Network topology	Analyze
		Understand Maxwell's equation in different forms and different media	Understan
		Understand the propagation of EM wave	Understar
	EC-I	Explain the concepts of single phase, three phase systems and magnetic circuits	Understar
		Calculate various parameters of magnetic circuits and electrical circuits (under steady state and transient condition)	Apply
4PC302EE		Analyze electrical circuits with network theorems, mesh and nodal analysis methods and under resonance condition	Analyze
		Analyze electrical circuits under transient condition with and without Laplace transforms	Analyze
		Analyze a given three phase system and magnetic circuits	Analyz
		Explain features and structure of C,type conversion,operators,storage classes,recursion,pointers,file handling operations	Understa
		Write components of computer system, flowchart for algorithms and types of files, Pre processors	Apply
4ES304CS	PPS	apply the knowledge of coding for the problem solving and compilation	Apply
		apply the knowledge of conditional branching, loops, arrays and string to pass functions, call by value, call by reference with dynamic memory allocation concept.	Apply
			A

4PC303EE 4HS302HS	ADE	Analyze the CE,CB using small signal model, transistor biasing, feedback concept Analyze the working principal of oscillators, amplifiers, its applications Design the combinational circuits using basic gates Design the sequential circuits using the basic flip flops Analyze the A/D D/A converters, understand the different types memory devices Understand the Significance of value inputs in a classroom and start applying them in their life and profession Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc. Understand the role of a human being in ensuring harmony in society	Analyze Create Create Analyze Understand Understand Understand
	ADE	Design the combinational circuits using basic gates Design the sequential circuits using the basic flip flops Analyze the A/D D/A converters, understand the different types memory devices Understand the Significance of value inputs in a classroom and start applying them in their life and profession Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Create Create Analyze Understand Understand Understand
		Design the sequential circuits using the basic flip flops Analyze the A/D D/A converters, understand the different types memory devices Understand the Significance of value inputs in a classroom and start applying them in their life and profession Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Create Analyze Understand Understand Understand
		Analyze the A/D D/A converters, understand the different types memory devices Understand the Significance of value inputs in a classroom and start applying them in their life and profession Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Analyze Understand Understand Understand
4HS302HS		Understand the Significance of value inputs in a classroom and start applying them in their life and profession Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand Understand Understand
4HS302HS		Understand the Significance of value inputs in a classroom and start applying them in their life and profession Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand
4HS302HS	HVPE	Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand
4HS302HS	HVPE	Assess their own ethical values and the social context of problems. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand
4HS302HS	HVPE	Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand
4HS302HS	HVPE	Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	
4HS302HS	HVPE	physical facilities, the Self and the Body, Intention and Competence of	
4HS302HS	HVPE	an individual, etc.	
		an individual, etc.	Alaka Maranasan and
		The desired the rate at a militar to the in view	Understand
		and nature	
		Distinguish between ethical and unethical practices and start working	Understand
		out the strategy to actualize a harmonious environment wherever they	
		work.	
		Understand the concepts of Indian culture and Traditions and their	Understand
		importance	
		Distinguish the Indian languages and literature	Understand
	n. eweg	Learn the philosophy of ancient, medieval and modern India.	Understan
4MC302HS	EITK	Acquire the information about the fine arts in India	Understan
		Know the contribution of scientists of different eras, interpret the	Understan
		concepts and the importance to protect intellectual property of the	
		nation	1 James
		Describe and analyze different types of diodes, their operations and	Analyze
		characteristics Calculate ripple factor, efficiency and % regulation of rectifier circuits	Design
		Analyse feedback amplifiers and op-amp oscillator circuits	Analys
- 2061EE	I DE LAR		Design
4PC351EE	ADE LAB	Design single, and multi-stage amplifier, wave snaping and controller circuits	25.5
		Understand the characteristics of electronics devices	Understa
		Design of p, pi and pid controllers using op-amps	Create
		Choose appropriate data type for implementing programs in C language	Apply
		Design and implement modular programs involving output operations,	Create
		decision making and looping constructs	
4ES354CS	PPS LAB	Apply the concept of arrays, pointers for implementing programs and	Apply
		Design and implement programs to store data in structures and files	Creat
		Design and implement programs to store data in structures and files Develop confidence for self education and ability for lifelog learning	Creat
		need for computer languages	1



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Department of HOD
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Course Outcomes

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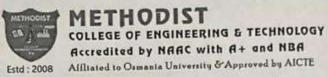
IV Semester

Course Code	Course Name	Course Outcomes	Taxonomy
		Understand the basic concepts of financial accounting classify preparation of various books of accounts	Understand
		Analyze& interpret financial statements.	Analyze
HS403BM	MEFA	Interpret knowledge about the functioning & working of various financial institutions.	Understand
	WEIT	Apply traditional & modern techniques of capital budgeting in long term investments, to test whether to invest in a particular project or not.	Apply
		Analyze the liquidity, solvency & profitability of financial statements.	Analyze
p		Evaluate the financial performance of the business unit.	Evaluate
		Analyze and understand working of conventional power generation methods	Analyze
4PC404EE	PS-I	Analyze and understand the alternate energy sources of power generation	Analyze
4PC404EE	rs-1	Analyze concepts of economics of power generation	Analyze
		Evaluate inductance and capacitance of transmission lines	Evaluate
		Evaluate sag, string efficiency and grading of cables	Evaluate
		Understand the concepts of magnetic circuits.	Understand
		Understand electrical principle, laws, and working of DC machines.	Understand
	EM-I	Identify the parts of DC machines understand its operation	Apply
		Analyze the construction and characteristics and application of various types of DC generators.	Analyze
4PC405EE		Analyze the construction and characteristics and application of various types of DC motors and testing of motors.	Analyze
		Understand electrical principle, laws, and working of 1 – phase transformer and losses and also conduct various tests on the transformer	Understand
		Explain the basic concepts of control systems	Understand
	CS	Apply the concepts of time response of system, stability criterion, frequency response, state models, state transition matrix, solution of state equations	Apply
4PC406EE		Analyze the concepts of F-I and F-V analogous systems, Block diagram reduction technique, signal flow graph, root locus technique	Analyze
		Analyze the concept of stability analysis from bode plot, polar plot	Analyze
		Design the networks of lead, lag and lead-lag compensation using Bode plot	Create
		Explain the concepts of two port network, complex frequency, transformed network, graph theory, filters and attenuators	Understand
	EC-II	Find two port parameters, impedance, and network equations	Apply
4PC407EE	EC-II	Analyze electrical circuits with the concept of network topology	Analyze
		Analyze and design various types filters and attenuators	Analyze

		Examine Python syntax and semantics and be fluent in the use of	Apply
		Python flow control and functions.	The state of
		Demonstrate proficiency in handling Strings and File Systems	Understand
		Create, run and manipulate Python Programs using core data structures like Lists, Tuples and Dictionaries.	Create
4ES405CS	PYP	Interpret the concepts of Object-Oriented Programming as used in Python.	Understand
		Create and animate a variety of shapes and develop an application with graphical user interface (GUI).	Create
		Implement exemplary applications related to Network Programming, Web Services and Databases in Python	Analyze
		Have a general knowledge and back ground about the Constitution of India and its importance	Understand
		Will distinguish and understand the working of the Central, state and provincial levels of administration.	Apply
4MC403HS	IC	Will be conscious about the fundamental duties, responsibilities and rights as an ideal citizen of India	Understand
		Will be able to perceive and interpret the functioning and distribution of resources between Centre and state.	Apply
		Have awareness and relate to the existing hierarchy of the social structure, election process and Grievance redressal in a democracy.	Understand
		Evaluate the time response and frequency response character sties of R,L, C Series and parallel circuits	Evaluate
		Simplify the complicated circuits using Thevenin's, Norton's and Superposition theorems.	Analyze
4PC452EE	EC LAB	Examine various parameters of a two-port network.	Analyze
		Develop code to obtain transient analysis of electrical circuits using spice	Apply
		Evaluate the three phase power of balanced loads	Evaluate
	1000	Analyze the networks from a given transfer function	Analyze
		Understand Performance of P, PI and PID Controllers.	Understan
		Develop PLC programs for certain applications.	Apply
		Make use of the knowledge of Data acquisition system and Industrial process control in real world.	Apply
4PC453EE	CS LAB	Develop transfer function of various control system plants practically by conducting the experiments.	Apply
		Design and Simulate the Programming and control system concepts using MATLAB.	Create
		Design of lag and lead compensation by using Networks.	Create
		Develop solutions to simple computational problems using Python	Create
		programs	
		Solve problems using conditionals and loops in Python	Apply
4ES455CS	PYP LAB	Develop Python programs by defining functions and calling them	Create
		Use Python lists, tuples and dictionaries for representing compound data	Apply
		Develop Python programs for GUI applications	

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Course Outcomes

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V Semester

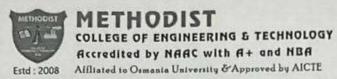
Course Code	Course Name	Course Outcomes	Taxonomy
		Explain the basic concepts of 3-phase Induction Motor and Induction Generator ,BLDC Motor and Stepper Motor	Understand
		Analyze the performance of 3-phase Induction Motor	Analyze
4PC508EE		Analyze the principle of operation ,performance and voltage regulation methods of Synchronous motors	Apply
	EM-II	Analyze the emf generated, parallel operation, starting of Synchronous generators and two reaction theory of alternators and regulation	Analyze
		Analyze double field revolving theory, equivalent circuit and starting of 1- phase Induction Motor	Analyze
		To explain the different types and constructions of dc and single phase / three phase ac measuring equipment used along with their governing equations	Understand
	EMI	Understand the construction and applications of ac meters, their errors, compensation and testing.	Apply
		To identify, out of the various methods using bridge circuits available, for the determination of electrical parameters of Resistance, Inductance Capacitance, and frequency and the importance of gauges and transducers	Apply
		To utilize the importance of B – H curve in electrical apparatus as in CTs and PTs and their errors	Apply
		To Examine the use of ac and de Potentiometers for use in calibration of meters.	Analyze
		To appraise the importance of special meters like MDI, PF, Frequency, synchro scopes, strain gauges and transducers	Evaluate
		Explain the operation & characteristics of power semiconductor devices	Understan
		Explain the triggering and commutation techniques of thyristor	Understan
4PC509EE	PE	Analyze uncontrolled and controlled rectifiers	Analyze
		Analyze chopping circuits & AC voltage controllers	Analyze
		Analyze cycloconverter and inverter circuits	Analyze
		Classify the transmission lines and evaluate the performance of short, medium and long transmission lines.	Apply
		Define the occurrence of corona, corona losses and the methods to minimize corona losses in the transmission. Lines	Understa
4PC510EE	PS-II	Choose per unit values and apply for the analysis of symmetrical fault calculations.	Apply
		Understand the impact of different types of faults occurring on overhead transmission lines and evaluate fault currents.	Understa
1 200	1	Elaborate the reasons for the voltage variations, and Improve the	Evaluate

		natural impedance of transmission line and significance in the	
BY STATE OF		operation of power system network.	
		Handle Technical Communication effectively by overcoming barriers of communication.	Apply
		Use different types of Professional correspondence to communicate	Apply
4HS504HS	ETC	effectively. Use different types of Business and Inter Office Correspondence.	Apply
		Acquire adequate skills to draft reports efficiently.	Apply
		Enhance their skills of information transfer.	Apply
		List and Compare the various forms of non conventional energy	Analyze
		resources and analyze the different Fuel cells with applications of	
		Explain the solar energy applications and calculations of solar energy	Analyze
4PE502EE	RES	Analyzing how wind energy can be tapped from the nature and its calculations	Analyze
		Illustrate the concepts of Geothermal ,Wave, Tidal energy & OTEC	Understand
		Outline the Biomass, its mechanism of production of energy and its	Understand
	100000	applications Demonstrate the concepts of Disaster Management, Role of NDMA	TEN.
		Demonstrate the concepts of Disaster Management	Understan
		in Disaster Management Identify different types of disasters, Mitigation measures of each	
		disaster case studies of disasters	Understan
		Explain the disaster management cycle and disaster response, use of	DEREN PA W
	DM	technology in disaster mitigation	Understar
OE501CE		Ulustrate the acts and policies of disaster management in India	Understar
		Explain the concepts of communication and public awareness along	
		with case studies.	Understa
		Demonstrate the concepts of Disaster Management, Role of NDMA	7.7. 1
		in Disaster Management	Understa
		Introduction to Artificial Intelligence, its applications and Problem	Understa
		solving techniques. Also the knowledge representation methods,	
		Planning, Expert systems and their algorithms in AI	Analyz
		Analyzing different searching algorithms and game playing	Anaryz
		programs to solve given problems.	Apply
		Apply basic principles of AI in solutions that require problem	, ipp.j
		solving, inference, perception, planning, knowledge representation,	
		and learning. Demonstrate awareness and a fundamental understanding of various	Evalua
OE501AI	AI	applications of AI techniques in intelligent agents, expert systems,	
		probability, artificial neural networks and other machine learning	
	BURGE		
		models. To explore the understanding of agent based AI Planning ,logical	Creat
		based agents and Expert systems	
		Introduction to Artificial Intelligence, its applications and Problem	Underst
		solving techniques. Also the knowledge representation methods,	
The state of		Planning, Expert systems and their algorithms in AI	
		Explain the Indian industrial environment, opportunities and	Unders
	1811	shallenges of women entrepreneur in enterprise, first-generation	
OE501ME	SE	entrepreneur, project financing in india, Intellectual patent rights and	

		among small- medium and heavy industry, collaborative interaction for technology development, Concept of Patent. Start-up Policy and statargies.	***
		Demonstrate the principle of project formulation, various types of enterprises, market demand, Financial, profitability analysis, sources forms of Intellectual Property	Analyze
		Sumarize the economic growth and environmental influence of entrpreneurship, evaluation of ideas, Patent document, Invention protection, Granting of patent, Rights of a patent, Licensing, Transfer of technology, Progress of startups in India	Understand
		Make use of Knowledge of competence of entrepreneur, objective of small scale industry, Conception, Principles of future organizations, start-up sectors, and action plan for start-ups by Govt. of India.	Apply
	EM-I LAB	Verify the theory and working of electrical machines through laboratory experimental work.	Understand
		Make circuit diagram connections to perform experiments, measure, analyze the observed data to come to a conclusion.	Evaluate
PC459EE		Organize reports based on performed experiments with effective demonstration of diagrams and characteristics/graphs.	Analyze
		Determine the different parameters of a DC Motors	Understand
		Determine the different parameters of a DC Gemnerators	Analyze
		Demonstrate measurement of resistance, inductance and capacitance.	Understand
		Determine the error and calibrate the energy meter.	Apply
		Calibrate ammeter, voltmeter and wattmeter using potentiometer.	Apply
PC460EE	EMI LAB	Assess the iron loss of given specimen	Apply
		Determine the amplitude and frequency of an unknown signal.	Apply
		Determine the error and calibrate the power factor meter	Apply

DAC-coordinator

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Course Outcomes

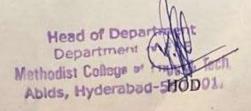
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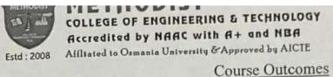
VI Semester

Course Code	Course Name	Course Outcomes	Taxonon
4PC612EE		Acquire the knowledge of construction, working principles and testing of different electromagnetic relays, static relays, distance relays, differential relays and circuit breakers used to protect generators, Transformers, Transmission lines and distribution feeders.	Understar
	SGP	Analyze the characteristics of over current, over voltage, distance and differential relays	Analyze
		Select the ratings of relays and circuit breakers for different applications	Analyze
		Explain the construction details, advantages and disadvantages of Gas insulated sub stations	Understan
		Select the protection method used against over voltages	Analyze
		Apply the concepts of rectifiers to analyze DC Motor	Apply
		Control DC motors with Dual converters	Analyze
4PC613EE	PECED	Apply chopper concepts to analyze DC motors	Apply
		Apply AC voltage regulator concepts to analyze Induction motors	Apply
		Explain the synchronous motor operation fed by inverters	Understan
	МРМС	Adapt the knowledge of Architecture of 8085 and 8051, writing assembly language programming for different applications.	Create
		Explain types of microcontrollers and their applications.	Understan
		Develop a program to run on 8085 microprocessor based systems.	Apply
4PC614EE		Define the techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors.	Remembe
		Interpret the difference between Microprocessors and Microcontrollers.	Analyze
		Simplify and design system using memory chips and peripheral chips for 8-bit 8085 microprocessor.	Create
		Understand the basic concepts related to continuous and discrete time signals, mathematical representation of periodic signals.	Understand
		Understand the basic concepts related to continuous and discrete time systems.	Understand
4ES606EC	SS	Evaluate the concept of Laplace transform and its properties.	Evaluate
	55	Evaluate the concept of Z-transform and its properties.	Evaluate
	0-	Analyze the continuous time systems in frequency domain with the help of Fourier series representation.	Analyze
		Analyze the discrete signals in frequency domain with the help of DTFT and DFT.	Analyze
		Understand the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamental	Understand
4PE605EE	EV	Know about different energy storage technologies used for hybrid electric vehicles and their control.	Understand
		Choose a suitable drive scheme for developing an electric hybrid vehicle depending on resources Design the company	Create

		Define a green building, along with its features, benefits and rating systems	Understand
		Describe the criteria used for site selection and water efficiency methods	Understand
20E601CE	GBT	Explain the energy efficiency terms and methods used in green building practices	Understand
		Select materials for sustainable built environment & adopt waste management methods	Understand
		Describe the methods used to maintain indoor environmental quality	Understand
		Verify the theory and working of electrical machines through laboratory experimental work.	Understand
		Make circuit diagram connections to perform experiments, measure, analyze the observed data to come to a conclusion.	Evaluate
4PC656EE	EM-II	Organize reports based on performed experiments with effective demonstration of diagrams and characteristics/graphs.	Analyze
4PC030EE	LAB	Determine the different parameters of a three-phase alternator and its regulation	Understand
		Determine the different parameters of a three-phase synchronous motor as well as its 'V' and 'inverted V' curves	Analyze
		Compare the performance characteristics of different electrical machines.	Create
		Analyze the characteristics of SCR	Analyze
	PED LAB	Analyze firing and commutation circuits of SCR	Analyze
an or comm		Analyze various power electronic circuits	Analyze
4PC657EE		Analyze the operation of various motors fed by power electronic circuits	Analyze
		Simulate various power electronic circuits fed motors using MATLAB/SIMULINK software	Analyze
		Listen to a variety of speakers and texts and will be able to comprehend and perform the required tasks.	Understand
		Interact in a group professionally and communicate confidently in terms of both the spoken and written communication.	Apply
4HS654HS	SS LAB	Develop the skills and strategies of reading and writing.	Create
		Face any Interview confidently by managing time, making decisions by speaking appropriately according to the context.	Apply
		Demonstrate right attitude and right skills to cope with team and communicate professionally.	Evaluate
		Select the task or realize a prespecified target, with limited scope, rather than taking up a complex task and leave it.	Remember
	Mini	Outline the alternate viable solutions for a given problem and evaluate these alternatives with reference to pre-specified criteria.	Understand
4PW601EE	Project	Choose the selected solution and document the same.	Apply
	Seminar	Examine with industrial experts to familiarize the work culture and ethics of the industry.	Analyse
		Determine and enhance the confidence while communicating with industry engineers.	Evaluate
	/ V	Design/develop a small and simple product in hardware or software.	Create

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VII Semester

AY: 202	23-24	VII	Semester
Course Code	Course Name	Course Outcomes	Taxonomy
Code		Develop Control Circuits for remote control and interlocking of electric drives	Create
		Explain the concept of protection of motors using various protecting	Understand
		equipments Develop control circuits for starting and braking of induction motors	Create
PC428EE	CED	Develop control circuits for starting and braking of synchronous motors	Create
		Develop control circuits for starting and braking of DC motors	Create
		Develop driver circuits for stepper motor	Create
		Solve load flow by appropriate modeling of the given power system and formulation of Ybus.	Apply
		Evaluate generation mix for economic operation with and without transmission losses.	Apply
		Explain load frequency control and estimate the frequency deviation through modeling.	Understand
PC429EE	PSOC	Analyse and describe different types of power system stability and establish SSSL.	Analyze
		Identify various methods of voltage control and study the reactive power compensation.	Apply
		Solve load flow by appropriate modeling of the given power system and formulation of Ybus.	Apply
		Know the reactive power compensation	Understand
		Learn the series and shunt compensation in Power Transmission system.	Understand
		Know the application of FACTS devices in Power Transmission system.	Understand
PC430EE	PEAPS	Study and apply the power transmission schemes - HVDC Transmission	Apply
		Implement the control circuits based on the Controlling parameters of HVDC system	Analyze
YE . TO		Study mtdc transmission	Understand
		Understand the concepts of Rate structure, Customer billing, distribution transformers in distribution systems.	Understand
PE507EE	EDS	Understand the concepts of rating of distribution substation, voltage fluctuations and measures to reduce flickering, forward sweep and backward sweep methods, components & advanced metering infra and automatic	Understand

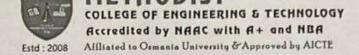
metering reading in distribution SCADA.

PE508EE U		Analyze the concept of percentage voltage drop calculations, radial and loop with multiple feeders, percentage voltage drop calculations, radial and loop types of primary feeders, unbalanced loads and voltages, economic justification for capacitors. Design best capacitor location - algorithm in distribution systems. Explain the requirement , advantages of electric heating , welding, illumination, motor control and starting, track electrification and batteries	Analyze Create Understand
PE508EE U		Design best capacitor location - algorithm in distribution systems. Explain the requirement , advantages of electric heating , welding, illumination, motor control and starting, track electrification and batteries	
PE508EE U	JEE	illumination, motor control and starting, track electrification and batteries	Understand
PE508EE U	JEE	21 1 1 1 1 1 more motor control methods	
PE508EE U	JEE	Analyze the types of heating and welding, motor control methods	Analyze
ESUGEE	1111	Analyze working of lamps and lighting in streets, offices and industries	Analyze
		Analyze speed time curves, characteristics and control methods of traction	Analyze
		motors Evaluate heating elements specifications, illumination , tractive effort, energy consumption, and adhesion in traction	Evaluate
		Define a green building, along with its features, benefits and rating systems	Understand
		Describe the criteria used for site selection and water efficiency methods	Understand
THE PROPERTY OF		Explain the energy efficiency terms and methods used in green building	Understand
OE811CE	GBT	Select materials for sustainable built environment & adopt waste	Understan
		Describe the methods used to maintain indoor environmental quality	Understan
		Interpret positive, negative and zero sequence Impedance of Transformer	Understan
		and Alternator Analyze the performance of transmission lines	Analyze
		Determine the dielectric strength of oil and the efficiency of string insulators	Evaluate
PC465EE	PS LAB	Explain Voltage and current relay settings	Understa
	LAD	Explain Voltage and current relay strains	Evaluat
		Measure the capacitance of three core cable	Understa
		Understand the operation of Differential protection of transformer	Create
		Compose (Write) MATLAB code using some basic commands. Develop MATLAB code for analyzing power system network by obtaining	Apply
		Develop MATLAB code for analyzing power systems line parameters, Z, Y matrices, and Economics of power systems Simulate the concepts of Electrical Circuits, to design a led, lag, led and lag compensator and obtain the characteristics by Control Systems and interpret	Create
PC466EE	ES LAB	data. Demonstrate (Determine) the knowledge of programming environment, compiling, debugging, linking and executing variety of programs in	Evalua
		MATLAB. Demonstrate ability to develop Simulink models for various electrical	Appl
		systems. Validate simulated results from programs/Simulink models with theoretic	
pw701FF		Validate simulated results from programs/Simulink models with theoretical calculations.	Apply

	A STATE OF	alternatives with reference to pre-specified criteria.	Apply
	-	- 1 1-1 colution and document the same.	Analyse
		Choose the selected solution and decame and ethics of Examine with industrial experts to familiarize the work culture and ethics of	
		the industry. Determine and enhance the confidence while communicating with industry	Evaluate
			Create
		Design/develop a small and simple product in hardware or software. Rephrase the basic concepts of electrical engineering and discover the	Analyse
			Apply
		Develop the design and analysis of a particular problem in project	Create
	DIVI I	Formulate the programming and interpret the project	Create
PW702EE	PW-I	Develop the hardware	Evaluate
	ALC: US	Perceive the practical knowledge within the chosen area of technology for	
read to the		project development Evaluate different solutions based on economic and technical feasibility	Create

DAC-coordinator

Head of Department
Department of FEE
Methodist College at Engg & Tech
Abids, Hyderabad-500 001.





Course Outcomes

AY: 2023-24

DAC Coordinator

VIII Semester

AY: 202	3-24		II Semester
Course Code	Course Name	Course Outcomes	Taxonom
		Assess the role of automation and digitization in Transmission and Distribution	Understan
		Describe the principles and requirements of the next generation future power network (or smart grid), using the latest trends in SCADA for power systems.	Apply
PE514EE	SGT	Apply advanced knowledge of electrical power system operations and control	Apply
		Analyze the challenges and opportunities due to increased penetration of renewable energy sources.	Analyze
		Investigate operation and the importance of data acquisition devices and their location for Voltage and Frequency control	Analyze
The state of the s		Identify the characteristics of renewable energy sources and converters.	Apply
		Understand the operation of power system	Understan
PE513EE	GIRES	Analyze the importance of power electronic systems in renewable power applications.	Analyze
		Realize the management systems for grid integration.	Analyze
		Analyze the challenges faced by the grid by integrating renewable energy sources.	Analyze
		Demonstrate about road accidents and its study objectives. Prepare accident investigation reports and database based on data collected.	Understan
		Apply design principles for roadway geometrics improvement with various types of traffic safety appurtenances/tools	Apply
	RSE	Explain the road safety design operations, counter measures & characteristics to manage traffic including incident management	Understan
OE603CE		Illustrate the concept of Road Safety Auditing its principles, procedures and code of good practice and checklists	Understan
		Explain about design and working principles of road signs and traffic signals	Understan
		Describe applications of ITS in effectively managing the traffic incidents.	Understan
		Rephrase the basic concepts of electrical engineering and discover the implementation	Analyse
		Develop the design and analysis of a particular problem in project	Apply
PW703EE	PW-II	Formulate the programming and interpret the project	Create
	2 // 1983	Develop the hardware	Create
		Perceive the practical knowledge within the chosen area of technology for project development	Evaluate
_	* 0	Evaluate different solutions based on economic and technical feasibility	og Greate

Separation of FEE

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: III

S.no	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	Bloom's Taxonomy Level			
			-		COI	Find the solution of algebraic and transcendental equations using numerical methods.	Understand			
		SHS	ical arial	Swathi	CO2	Apply numerical techniques to solve ordinary differential equations and definite integrals.	Apply			
1	Ш	2BS303H	Numerical Methods an Partial Differentia	r. Swat Mathur	CO3	Apply numerical methods to interpolate values and fit different curves from given data.	Apply			
		SBS	Nur leth P. P.	Dr.	CO4	Find solutions of first order linear and non linear partial differential equations.	Apply			
		14	2 -	_	CO5	Apply the solution of partial differential equations to physical problems.	Apply			
			_ & >	es.	COI	Determine the responsibility and Decision making in organisation	Apply			
		2HS302HS	Managerial conomics de Financial	Robina Ithana	CO2		Understand			
2	Ш	300	Manageria Economics Financial Accountant	Irs. Robin Sulthana	CO3	Understand the principles of accounting and solve the problem	Understand			
		2HS	Man con Fir	Mrs	CO4	Analysis the financial performance	Apply			
			ω <		COS	Understand the capital structure and to take decisions on selection of projects	Understand			
				_	COI	Understand algorithms and learn fundamental program methodologies of C programming.	Understand			
	3 111	CS	Programming for problem solving	Senthi	CO2	Understand control statements and derived data types with mathematical and engineering problems.	Understand			
3		301		R	CO3	Interpret control statements and derived data types with mathematical and engineering problems.	Apply			
		2ES		Ar A/	CO4	Enhance skills in modular programming for solving a variety of computational challenges, including searching, sorting, and file system operations.	Apply			
					CO5	Recognize pre-processor directives and user defined usage.	Understand			
			ste		CO1	Differentiate between various building materials i.e., both conventional and smart building materials.	Understand			
			Сопсте	Ali	I A II	I A II	IAII	CO2	Illustrate the properties of concrete materials and procedures of their physical tests i.e., Cement, Aggregates, Adixtures, Reinforcing steel.	Understand
4	III	301CE	erials and hnology	Shahe	CO3	Explain the process of plastering, pointing and damp proofing and mortars	Understand			
		2PC.	ng Materi Techn	THE ST	Mr. Mohd	CO4	Demonstrate the properties of fresh Concrete & Hardened Concrete and understand the procedure for testing of concrete materials and on fresh and hardened concrete as per IS code	Understand		
			Build		COS	Calculate the concrete mix proportions according to requirements of IS, BIS and ACI codes. Illustrate the characteristics of concrete.	Apply			

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: III

S.no	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	Bloom's Taxonomy Levo
					COI	APPLY the fundamental concepts of stress and strain in the analysis and design of axially loaded members	Apply
		3	anics	Srikanth	CO2	ANALYSE the determinate beams to construct SFD and BMD	Analyse
5	ш	PC302C	d Mech	P. Srik	CO3	DETERMINE the bending and shear stress distribution in beams and also the stresses in members subjected to combined axial and bending stresses.	Apply
		2	Soli	Mr.	CO4	ANALYSE the compound stresses at a point and evaluate principal stress and EVALUTE stresses in cylindrical pressure vessels.	Analyse
					COS	EVALUATE the stresses of circular members subjected to torsion and analyze different types of springs.	Evaluate
		PC303CE		nran	COI	Explain the concepts, working principles involved in basic as well as modern surveying equipments & technologies and also defines the concepts of horizontal and vertical curves.	Understand
			랻	nmad Ir	CO2	Apply the knowledge of surveying & levelling in calculating lengths, bearings, areas, Volumes, reduced levels, elevation differences, plot of a ground & scale of photographs.	Apply
6	Ш		urveyı	Mohar	CO3	Apply the knowledge of theodolite and trigonometry in finding horizontal and vertical angles, heights of inaccessible points	Apply
		2		Shaik	CO4	Make use of knowledge of curves concept in surveying, in setting out both horizontal and vertical curves for the purpose of roadway and railway alignment	Apply
					M.	CO5	Analyse the amount of closing error of a traverse after finding out the omitted measurements in traverse and compute the missing data
			dian	eddy	COL	Understand the concept of Indian culture and traditions and its importance.	Understand
		2HS	Indian	yal R	CO2	Distinguish the Indian languages and literature.	Understand
7	Ш	IC302	ce of nal K	atya	CO3	Learn the philosophy of ancient, medieval and modern India.	Remember
		2N	Fissence	3	CO4	Acquire the information about the fine arts in India.	Remember
			_ E	M.	CO5	Know the contribution of scientists of different eras, interpret the concepts.	Remember

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: III

<u>S.no</u>	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES							
			Problem atory		CO1	Choose appropriate data type for implementing programs in C language	Understand						
		ICS	for Probl	Senthil	CO2	Design modular programs involving I/O operations, decision making and looping constructs	Apply						
8	m	2ES35	ming ng La	AAR	СОЗ	Implement modular programs involving I/O operations, decision making and looping constructs.	Apply						
			Solvi	Mr.	CO4	Apply derived data types and implement programs to store a data in structures and files	Apply						
			Prog		CO5	Develop confidence for self-education and ability towards lifelong learning-need of computer languages	Apply						
			Surveying Laboratory							Thrain	COI	Demonstrate the working principles and handling procedures of basic surveying instruments like chain, cross staff in finding out linear measurements	Understand
		CE		ul bemu	CO2	Demonstrate the levelling instruments and apply the knowledge of levelling in finding out the reduced levels of ground	Apply						
9	m	2PC3510		6'	Moham	CO3	Demonstrate the working principles and handling procedures of theodolite, total station and Hand- held GPS	Understand					
		12			Shaik	CO4	Make use of surveying equipment in computing lengths, areas & bearings of given field work	Apply					
										Mr.	CO5	Apply the knowledge of trigonometrical levelling in finding out reduced levels of elevated objects which are both accessible and inaccessible points	Apply
		743	20 00	65	COL	Outline the importance of testing of cement and its properties	Understand						
		352CE	Concrete echnology Laboratory	Shaista	CO2	Assess the different properties of Cement	Apply						
10	111	33	Concrete xchnolog aborator			Assess the different properties of Fine aggregate	Apply						
		2PC	O 8 E	Mrs.		Assess the different properties of Coarse aggregate	Apply						
					CO5	Summarise the concept of workability and testing of concrete	Understand						

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

Sen	nester	:	IV
		-	

S.no	Semester	Course Code	Course Name	Course Instructors	COURSE OUTCOMES	Bloom's Taxonomy Leve						
			s and thics	hy	CO1 Understand the significance of value inputs in a classroom and start applying them in their life and profession.	Understand						
		3HS	5 m	furthy	CO2 Assess their own ethical values and the social context of problems.	Understand						
1	IV	2HS40	an Valu Ssional	M.L.N	CO3 Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual etc.	Understand						
		7	Human Professi	Mr.	CO4 Understand the role of a human being in ensuring harmony in society and nature.	Understand						
			T P		CO5 Distinguish between ethical and unethical practices and start working out the strategy to actualize a harmonious environment wherever they work.	Understand						
			gimi		CO1 Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.	Apply						
		SCS	gram	my	CO2 Demonstrate proficiency in handling Strings and File Systems	Understand						
2 IV	2ES40	on Prog Langua	rs. Sow	Cos Create, run and manipulate Python Programs using core data structures like Lists, Tuples and Dictionaries.	Create							
			0	Pytho	Pytho	Pytho	Pytho	ytho	ytho	Mrs	CO4 Interpret the concepts of Object-Oriented Programming as used in Python.	Understand
			ď.						Cos Create and animate a variety of shapes and develop an application with graphical user interface (GUI).	Create		
					CO1 Calculate the deflections of determinate beams due to transverse loads by various methods.	Apply						
		Э.		nth	Evaluate the buckling/critical load of columns for various end conditions using different theories.	Evaluate						
3 IV	IV	C404C	MMS	Srikanth	Analyse the beams subjected to unsymmetrical bending and compute the location of shear center for various sections.	Analyse						
		2PC		Mr.	Determine the static and kinematic indeterminacy of indeterminate structures and analyse propped cantiliver, fixed beams and continous beams using force method of analysis.	Apply						
					Apply the energy principles and various energy methods to analyse beams, indeterminate trusses and frames to find deflections and redundant forces.	Apply						

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: IV

S.no	Semester Course Course Course Code Name Instructors			COURSE OUTCOMES	Bloom's Taxonomy Level				
				egum	COI	Define the characteristic strength of materials and partial safety factors for load and materials & Explain the design philosophies of working stress method and Limit state method	Remember		
4	IV	305CE	DRCS	sta B	CO2	Apply the key concepts, theories and mathematical fundamentals to analyse and design the structural elements	Apply		
		2PC.	Ď	Shai	CO3	Analyze the moment capacity of structural elements & design the structural elements for flexure, shear and torsion	Analyse		
				Mrs	CO4	Examine the serviceability of structural elements	Evaluate		
					CO5	Design simple structural members to be able to safely resist bending, shear, torsion, deflection and compression within the imposed factors of safety.	Apply		
		E	92	. Fa	COI	Illustrate the various properties of fluids and compute pressure using manometers	Understand		
		990	Fluid Mechanic	pine	ndit ik	CO2	Relate types of flows with the corresponding mathematical equations	Understand	
2	IV	C306		.Bane Naik	CO3	Apply principles of fluid Statics, dynamics and kinematics to make flow measurement calcul	Apply		
		2P		D	CO4	Make use of different fluid flow measuring devices.	Apply		
					CO5	Apply dimensional analysis and model studies to fluid flow problems.	Apply		
		<u>D.</u>	Hydrology	hali	COl	Explain the interaction among various processes in the hydrologic cycle.	Understand		
)7C		iphali	CO2	Estimate net evaporation rate from waterbodies with free surface bodies	Analyse		
6	IV	C30		dro	Sh.	CO3	Develop the rainfall- runoff relationship	Apply	
		2P(113	Ms.	CO4	Analysis of drawdown and yield in aquifers	Analyse		
							CO5	Design the flood for Water Resources Structures	Analyse
			. a	>	COI	Read, Remember, understand the background and making of Indian constitution and Its importance.	Understand		
		HS	of Indi	Reddy	CO2	Remember and understand the working of the Central, state and provincial levels of administration	Understand		
7	IV	IC4031	ution	Satyapal	CO3	Remember and understand the fundamental duties, responsibilities and rights as an ideal citizen of India.	Understand		
		2N	Constit	Mr.S.S	CO4	Understand and interpret the functioning and distribution of resources between Union and state.	Understand		
					CO5	Understand the existing hierarchy of the social structure, election process and Grievance redressal in a democracy.	Understand		

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024 COURSE OUTCOMES

Semest	er:	IV
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S.no	Semester	Course Code	Course Name	Course Instructors		- COURSE OUTCOMES	Bloom's Taxonomy Leve
		m	qe	aista 1 & kanth	CO1 A	Appraise the behaviour of ductile material under direct tension test	Understand
8	TV.	53C		haista m & rikant	CO ₂ lo	dentify hardness of various metals like brass, copper, aluminium etc.	Understand
0	IV	4	MMS	Sugar	CO3 C	Compute the response of the beam by deflection method	Apply
		2PC	Σ	Mrs Beg Mr. P.	CO4 C	Calculate the deflection of springs using tensile and compression tests	Apply
				2		ompute the torsion and impact strength using respective test setup	Apply
		S		ya		Demonstrate solutions to computational problems using python programs.	Understand
9 IV		53C	PP Lab	Ars. Sowm	CO2 S	olve complex problems using python functions and control structures.	Apply
	IV	S4				se Python lists, tuples and dictionaries for representing compound data.	Apply
		2E				Develop object-oriented programs with python classes	Create
- 4						Develop Python programs for GUI applications	Create
					COI	lustrate the basic principles of building planning and drawings as per codal provisions.	Understand
10	IV	454CE) Lab	<		apply the tools of AUTOCAD software to prepare structural drawings of various building omponents.	Understand
		Develop plan, elevation and sectional drawings of residential buildings in AutoCAD oftware	Understand				
					CO4 D	Develop isometric views of Single storey.	Apply
					CO5 D	Develop isometric views of Double storey residential buildings.	Apply

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

Semester: \	V		ter	lesi	em	S
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<u>5.no</u>	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	BT level							
			88		CO1	Apply the concepts of disaster management to evaluate a disaster situation.	Understand							
		(1)	sdne	a)	CO2	Interpreting the causes of disaster and after effects of disasters.	Understand							
1	V	2ES506CE	Preparedness Planning	Irs, S. Deva Samyktha	CO3 1	Select appropriate pre-disaster, during a disaster and post-disaster measures and framework	Understand							
		2ES	saster	Mrs. Sar	L CO4 I	Identify the disaster management acts and frameworks specific to India relevant to a situation	Understand							
			Di		CO5	Identify a suitable technological application to aid disaster management.	Apply							
						Analyse the Arches, cables and suspension bridges for static and moving loads	Analyse							
	V	CE	nalysis	kanth	1 (0 2 1	Analyse the structure using flexibility matrix method to calculate redundant forces and sketch BMD and SFD.	Analyse							
2		2PC508	Structural A	Mr. P. Sri	1 (()) 1	Analyse the structure using stiffness matrix method to calculate redundant forces and sketch BMD and SFD.	Analyse							
					1 (() 4 1	Develop stiffness matrix using direct element method for indeterminate structures and Demonstrate the Structural analysis software packages.	Analyse							
					CO5	Analyse the frames using approximate method of analysis.	Analyse							
					CO1	Classify the soil and interpret their index properties.	Understand							
					1 1 1 1	Explain capillarity and laboratory procedure to determine the permeability parameters. Calculate the capillarity and permeability parameters of soils.	Apply							
2	V	09CE	Mechanics	Madhuri	Madhur	Madhuri	Madhur	Madhur	Madhuri	Madhuri	Madhun	1 (0)	Explain Seepage, quick sand condition and soil stresses. Draw a flow net to compute the seepage quantity in soils.	Understand
3	V	2PC5	_	Ms. M	CO4	Illustrate the mechanisms of the process of compaction and consolidation of soils, and the laboratory procedures to determine their characteristics.	Understan							
					CO5	Analyse the soils for their shear strength and predict the stability of slopes	Analyse							

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

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S.no	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	BT level
					COL	Find crop – water requirements.	Understand
		2PC302CE	esource	a Naik	CO2	Explain the design aspects of different types of weirs and regulatory systems	Understand
4	V		Water Res Enginee	Bandita	CO3	Design different types of storage works and fixation of different levels of reservoirs.	Apply
		- 7	N E	Dr.	CO4	Analyze and design gravity dams and earthen dams.	Apply
					CO5	Analyze the different types of cross drainage structures.	Apply
				=	CO1	Classify various types of flow in pipes.	Analyse
		田田	Hydraulic	Preeti	CO2	Demonstrate friction loss in laminar and turbulent flows.	Apply
5	V	10CE		Ms. Shipali F Aind	CO3	Solve various problems in open channels.	Apply
3	V	CS			CO4	Illustrate the hydraulic jumps and its uses.	Apply
		2P	田田		CO5	Apply their knowledge of fluid mechanics in addressing problems in hydraulic machinery.	Apply
		E606CE	of Steel ctures	Shaista Begum	CO1	Explain the composition of structural steel and IS codal provisions and load combinations implemented in the design codes for steel structures	Understand
6	V				CO2	Analyze and design simple connections between structural members including riveted and welded connections.	Analyse
		2PE	sign Stru	Sha	CO3	Analyze and Design of tension members	Analyse
		(4	De	2	CO4	Analyze and Design of compression members, beams and base slab	Analyse
				Σ	CO5	Evaluate the loading on roof trusses and design of purlins	Evaluate
			8	un	COI	Determine Specific gravity of different soils by test results, interpret and validate the same.	Apply
		CE	echani	Madhuri	CO2	Analyze particle size distribution of soil by conducting sieve analysis test	Analyse
7	V	555	1ccl orat		CO3	Analyze the behavior of soils with water by conducting tests.	Analyse
		2PC	il Me Labo	Σ	CO4	Analyze shear strength of soils on application of stress in laboratory	Analyse
		(4	Soi	NS.	CO5	Determine permeability and compaction characteristics of various soils.	Apply

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

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S.no	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	BT level
			& ung	- week	COI	Compute discharge flowing through streams and canals	Apply
		556CE	Mechanics die Engineeriaboratory	li Preet	CO2	Determination the type of flow in pipe, and discharge through pipes and losses in pipes	Apply
8	V	C55	fech Er Porn	Shipali Aind	CO3	Competence in understanding flow phenomenon in open channels	Apply
		2PC	luid drau L	Ms. Sh	CO4	Analyze the force acting due to jets concept and its application in hydraulic machines	Analyse
			F Hy		CO5	Demonstrate working principles of hydraulic pumps and turbines	Apply
			-	ran	CO1	Explain techniques, processes and tools used in the industry	Understand
		E	choof		CO2	Discuss the current needs of the industry in his/her area of interest	Understand
9	V	SOICE	Sch	Shaik mad In	CO3	Explain the practical knowledge acquired in the chosen area/work done.	Understand
		PW5	actice	Mr. S Mohamm	CO4	Summarize and prepare a technical report on practice school completed at industry	Apply
		1	Pr		CO5	Adapt to work in a team or as an individual effectively	Apply
			eurship		COI	Explain the Indian industrial environment, opportunities and challenges of women entrepreneur in enterprise, first-generation entrepreneur, project financing in india, Intellectual patent rights and Aspects of Start-Up.	Understand
				5	CO2	Identify the characteristics of entrepreneurs, importance of linkage among small- medium and heavy industry, collaborative interaction for technology development, Concept of Patent. Start-up Policy and statargies.	Apply
10	V)E516MC	. Ептетрге	Prabhura	CO3	Demonstrate the principle of project formulation, various types of enterprises, market demand, Financial, profitability analysis, sources forms of Intellectual Property	Analyse
		90E	Start Up &	Dr	CO4	Sumarize the economic growth and environmental influence of entrpreneurship, evaluation of ideas, Patent document, Invention protection, Granting of patent, Rights of a patent, Licensing, Transfer of technology, Progress of startups in India	Understand
						Make use of Knowledge of competence of entrepreneur, objective of small scale industry, Conception, Principles of future organizations, start-up sectors, and action plan for start-ups by Govt. of India.	Apply

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: VI

S.no	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	Bloom's Taxonomy Leve
				ctha	CO1	Understand the construction Industry, construction practices, and management systems for construction projects	Understand
		4CE	>	Samyuktha	CO2	Apply various network theories such as PERT, CPM in construction management to construction projects	Apply
1	VI	2PC61	CEM	Deva	CO3	Analyze cost-time analysis, and resource optimization techniques and apply project management software for resource optimization in construction projects	Analyse
				Mrs.S	CO4	Understand various types of contract documents, tenders, detailed project reports, and labor acts in construction practice	Understand
					CO5	Apply optimization techniques and linear programming in construction practice	Apply
		2PC613CE	TE		COL	Understand transportation engineering principles, historical context, and road network classification.	Understand
				anth	CO2	Apply traffic engineering concepts to analyze traffic flow, volume, accidents, and design effective traffic signals.	Apply
2	VI			Mr. R. Srik	CO3	Identify pavement materials, design pavements considering soil stabilization, flexibility, and maintenance.	Apply
					CO4	Explain transportation systems management, planning, environmental impact, and the role of Al.	Understand
					CO5	Demonstrate knowledge of data collection, forecasting, and planning methodologies for transportation projects.	Understand
				Aind	COI	Determine the water demand for different cities and design the water supply network	Evaluate
		E		recti A	CO2	Design the components of water treatment plant and understand the concept of Building plumbing	Apply
3	VI	PC615	E	hiphali Pi		Calculate the sewage flow using different approaches through various sources and design the components of a simple sewerage system	Evaluate
		2		S	CO4	Illustrate sludge, activated sludge process, solid waste treatment and disposal	Apply
				Ms	CO5	Identify air and noise pollution problems, pollution control methods, mechanism and devices.	Apply

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: VI

S.no	Semester	Course	Course Name	Course Instructors	COURSE OUTCOMES	Bloom's Taxonomy Lev
				Imran	CO1 Define theories related to stress distribution of soil, types of foundations and their various bearing capacities as well as settlements	Remember
		E		mad	CO2 Explain Safe bearing capacity of shallow foundations, sinking and stability of well foundations	Understand
4	VI	2PC616C	PE	Moham	CO3 Explain necessity, types, methods and suitability of pile foundations, caissons, coffer dams, geotechnical investigations and dewatering techniques	Understand
		21		Shaik N	Make use of field tests and settlement analysis to calculate vertical stresses and safe bearing capacity of shallow foundations	Apply
			Mr.	CO5 Make use of load tests and formulae to calculate load carrying capacities & efficiency of pile and pile groups	Apply	
		CE		anth	CO1 Explain the concept of pre-stressing and the behavior of concrete structures and recognize the general principles, methods of prestressing, and prestressing devices for pre-tensioning and post-tensioning.	Understand
5	VI	man	PSC	Mr. P. Srika	CO2 Determine the losses of pre-stress in prestressed concrete structures.	Apply
	V1	2PE60			Apply the provisions of IS- 1343(2012) code to design of prestressed concrete structures for flexure and shear.	Apply
					CO4 Analyse the two span continous beam for different cable profile.	Analyse
					Analyse the stress in anchorage zones and design end anchorages for prestressed concrete beams and evaluate the short and long term deflections of beams.	Analyse
		ш	4, 60	, p	CO1 Discuss basics of Photogrammetry, flight planning and stereoscopic vision	Understand
	177	E604C	Advance Surveying	Mr. Shaik Mohammad Imran	CO2 Illustrate basics, energy interactions and sensor characteristics in Remote Sensing	Understand
6	VI)E6	Apy	fr.Shai shamm Imran	CO3 Explain Segments, Errors and Positioning modes in GPS	Understand
		2P	S	Σχ	CO4 Explain Map projections, data models and spatial data creation and analysis in GIS	Understand
					CO5 Determine elevations, scale and lengths of the lines from photographs	Apply
		ш	en X	aza	CO1 Describe the fundamentals of 3D printing, classify and explain advantages and disadvantages of 3D Printing technologies.	Understand
		Σ	rinting	L	CO2 Select the suitable CAD data formats and software used in 3D Printing technology.	Annly
7	VI	OE602	3D Pri technol	r.Mohd	CO3 Describe the operating principles, capabilities and limitations of liquid, solid & powder based 3D Printing Technologies.	Apply Understand
				Σ	CO4 Compare different 3D printing technologies based on their process capabilities and applications.	Anal
					CO5 Apply the capabilities and knowledge of 3D printing in different industrial Sector	Analyse

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester : VI

<u>S.no</u>	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	Bloom's Taxonomy Level
				D.	COI	Listen to a variety of speakers and texts and will be able to comprehend and perform the required tasks.	Understand
8	VI	653HS	Lab	aya Shree	CO2	Interact in a group professionally and communicate confidently in terms of both the spoken and written communication.	Apply
		2HS(SS	Jay	CO3	Develop the skills and strategies of reading and writing.	Apply
		2		Mrs	CO4	Face any Interview confidently by managing time, making decisions by speaking appropriately according to the context.	Apply
					CO5	Demonstrate right attitude and right skills to cope with team and communicate professionally.	Apply
		7CE	TE Lab	kanth & rath Naik	COI	Explain the principles of testing aggregates and bitumen	Apply
					CO2	Explain the principles of traffic engineering, such as capacity, level of service and traffic signal design	Apply
9	VI	593		Srikani Bharath	CO3	Apply the IS 2386 code to perform tests on aggregates and bitumen	Apply
		2PC		~	CO4	Analyze traffic data to identify patterns and trends	Apply
				Mr.F Mr.D	COS	Evaluate the effectiveness of transportation engineering solutions to real world problems	Apply
		m		1 8 4	COI	Determine physical, chemical and biological characteristics of water and wastewater	Livaluate
		658C	de	Shiphali ti Aind & Santosh Sumar	CO2		Understand
10	IV	C65	EE	San San Kurr	CO3	Determine break - point chlorination	Evaluate
		2P(ш	Ms.S Preeti Dr.S Ku	CO4	Assess the quality of water and wastewater.	Evaluate
					CO5	Determine the BOD, COD and bacterial density of portable water.	Understand

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: VII

S.no	Sem	Course	Course		urse uctors		COURSE OUTCOMES												
		Code	Name	Sec- A	Sec- B	СО	Course Outcome	Bloom's Taxonom											
		E	ntion	ya	/a	COI	Describe the types of estimates and different specifications required for construction works.	Understand											
	VII		pecifica	Soujanya	Soujanya	CO2	Compute and prepare estimates for buildings using longwall-shortwall method and centre-line method	Apply											
1		C4170	S pura u	Mary	Mary	CO3	Compute and prepare estimates for roads, culverts, retaining walls, over head tanks and irrigation canals	Apply											
		Ь	Estimation	Mrs. M.	Irs. M.	CO4	Estimate the steel quantities required for various Civil Engineering works and also prepare bar bending schedule	Evaluate											
				2	M	CO5	Analyze rates of different items of work based on specifications using Schedule of rates.	Analyse											
						CO6	Summarize valuation of various Civil Engineering works using different valuation methods	Evaluating											
		ES310CE	ster Preparedness & Planning	Shipali Preeti Ainde	iti	COI	Explain the terms and concepts of disaster management	Understand											
					hipali Pree Ainde	CO2	Summarize the catergories of disasters and their characteristics	Understand											
2	VII					CO3	Discuss the disaster management cycle, framework and measures of pre-disaster, during disaster, post-disaster measures	Understand											
					SI	CO4	Interpret the Indian Disaster Management acts and it's framework	Understand											
			lisa	N S	Ms	CO5	Describe the application of various technologies to disaster management.	Understand											
						CO6	Differentiate the vanous mitigative measures and implement them accordingly	Understand											
						COI	Explain the fundamental concepts of Prestress and systems of prestressing	Understand											
			U	E	=	CO2	Evaluate and analyze the stresses under various conditions	Evaluate											
		E	oncret	Begun	Begur	CO3	Estimate the various losses of prestress and deflections occurring in the pressed members for various cable profiles	Apply											
3	VII	PE5130) passa	Shaista	Mrs. Shaista B	Shaista E	Shaista E	Shaista E	Shaista E	Shaista B	Shaista E	Shaista E	Shaista E	Shaista E	Shaista B	Shaista B	CO4	Extend the knowledge of analysis to Design a PSC beam section for the given conditions	Apply
			Prestr	Mrs.		CO5	Extend the knowledge of analysis to Design a PSC beam section for the given conditions	Apply											
						CO6	Assess the extent of bursting tension in the end block of a PSC beam and Develop the method of strengthening the end bloc	Apply											

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

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			Intelligent Tranportation Systems			COI	Demonstrate comprehension of ITS objectives, historical background, and benefits.	Understand
						CO2	Recall the data collection techniques used in ITS, including detectors, AVL, AVI, GIS, and video data collection.	Remember
4	VII	PE518CE		Srikanth	rikanth	CO3	Utilize the importance of telecommunications in ITS, including information management, TMCs, and vehicle-roadside communication.	Apply
				R. Srik	R. Srik	CO4	Demonstrate comprehension of ITS functional areas including ATMS, ATIS, CVO, AVCS, APTS, and ARTS	Understand
				Mr.	Mr.	CO5	Recall user needs and services of ITS, including travel and traffic management, public transportation management, electronic payment, and emergency management.	Remember
							CO6	Utilize concepts of automated highway systems, including vehicles in platoons and global overview of ITS implementations, and understand impact on sustainable mobility and travel demand management.
		PE524CE	GIS and Remote Sensing	nmad	mmad	CO1	Illustrate basics of remote sensing, energy interactions with earth surface features and their spectral properties	Understand
				Moha	Mohau	CO2	Classify different types of satellites, sensors and sensor characteristics in remote sensing	Understand
5	VII			_		CO3	Demonstrate the basic concepts of GIS	Understand
				hrak	hiak	CO4	Demonstrate the basic concepts of Map Projections	Understand
				S	S	CO5	Explain data models and spatial data creation in GIS	Understand
				Ž	M	CO6	Explain the various operations in spatial data analysis & terrain modelling	Understand
		H 460CE	mation and ecification aboratory	=	=	CO1	Estimate the quantities of materials used in various construction works.	Apply
				< p	V P	CO2	Estimate quantities of materials used in Bridges	Apply
	VII			hahed	ahed	CO3	Prepare rate analysis for various quantities	Apply
)	VII	C4		Sh	Shah	CO4	Assess, the value of land and buildings.	Apply
			Esti Sp La	M	Mr.	CO5	Compute and prepare bar bending schedule	Apply
						CO6	Compute and prepare Reports.	Apply
		_	al al	anthi	nthi	COI	Understand the concept of Indian culture and traditions and its importance.	Remember
		803P	an an ion	sha	rashant	CO2	Distinguish the Indian languages and literature.	Understand
7	VII	080	Indi adit	Pra	Pra	CO3	Learn the philosophy of ancient, medieval and modern India.	Understand
		×	E T Z	13.	As.	CO4	Acquire the information about the fine arts in India.	Remember
				Σ	2	CO5	Know the contribution of scientists of different eras, interpret the concepts.	Understand

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

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						CO1	Identify and collect technical and research literature relevant to the topic of the Project	Understand			
		W703CE	Work- I	Σ	Σ	CO2	Review, classify and explain the findings from the literature relevant to project topic.	Understand			
8				& Ms	& Ms	CO3	Identify the problem to be solved based on literature review and outline the objectives of the project	Analyse			
	VII		133	ta Naik Madhur	ta Naik Madhuri	CO4	Demonstrate communication and presentation skills in explaining literature review, objectives and solution methodology	Analyse			
			Proj	Bandi	Bandi	CO5	Identify and demarcate clearly the contribution towards work done in individuals and teamwork	Understand			
				Dr	Dr	CO6	Make use of documentation and presentation tools to formulate and prepare an effective project report, with proper citations and references	Apply			
		ω.	1 d u	y ad	y ad	COI	Explain techniques, processes and tools used in the industry	Understand			
	VIII	02C	Summer Internship Evaluation	Mr. Shaik Aohammad Imran	1r. Shaik ohammad Imran	CO2	Discuss the current needs of the industry in his/her area of interest	Understand			
9	VII	PW7(Mr. S Aohar Imi	r. S shar Imr	CO3	Explain the practical knowledge acquired in the chosen area/work done.	Understand			
				M	Mr. Moh Ir	CO4	Summarize and prepare a technical report on practice school completed at industry	Apply			
						CO5	Adapt to work in a team or as an individual effectively	Apply			
					uraj	COI	Explain the Indian industrial environment, opportunities and challenges of women entrepreneur in enterprise, first-generation entrepreneur, project financing in india, Intellectual patent rights and Aspects of Start-Up.	Understand			
		JE.	eurship	rabhuraj		3 1	5 1	5 1	5 1	CO2	Identify the characteristics of entrepreneurs, importance of linkage among small- medium and heavy industry, collaborative interaction for technology development, Concept of Patent. Start-up Policy and statargies.
0	VII	OE621	repren	r. Prabl	r. Prabh	CO3	Demonstrate the principle of project formulation, various types of enterprises, market demand, Financial, profitability analysis, sources forms of Intellectual Property	Analyse			
			Ent	Δ	Q	CO4	Sumarize the economic growth and environmental influence of entrpreneurship, evaluation of ideas, Patent document, Invention protection, Granting of patent, Rights of a patent, Licensing, Transfer of technology, Progress of startups in India	Understand			
						CO5	Make use of Knowledge of competence of entrepreneur, objective of small scale industry, Conception, Principles of future organizations, start-up sectors, and action plan for start-ups by Govt. of India.	Apply			

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: VIII

S.no	Semester	Course Code	Course Name	Course Instructors		COURSE OUTCOMES	Bloom's Taxonomy							
			ndia	y	CO1	Read, Remember, understand the background and making of Indian constitution and Its importance.	Remember							
		803HS	ı of Inc	Reddy	CO2	Remember and understand the working of the Central, state and provincial levels of administration	Remember							
1	VIII	MC80	titution	Satyapa	CO3	Remember and understand the fundamental duties, responsibilities and rights as an ideal citizen of India.	Understand							
			ons	Mr. S	CO4	Understand and interpret the functioning and distribution of resources between	Understand							
					CO5	Understand the existing hierarchy of the social structure, election process and Grievance redressal in a democracy.	Understand							
	VIII		ange		COI	Define the impacts of climate change on natural environment.	Remembering							
			Chan	ya	CO2	Explain the fundamentals of climate system and global water balance	Understanding							
2		PE527CE	limate	Mrs. Mary Soujan	Soujar	Soujar	Soujar	Soujar	Soujar	Soujar	Soujar	CO3	Apply the Knowledge of climate changes and its impact on Monsoon and Hydrology	Applying
-			Principles of C		CO4	Take part in introduction of climate modelling especially using statistical downscaling techniques.	Analysing							
					CO5	Select correction methods in climate science.	Applying							
					CO6	Identify international initiatives which support countries to plan for climate	Applying							
			ng Systems	13	CO1	Explain the concept of BMS, FA, security systems, access control systems, Energy management	Understanding							
		SCE		aketha	CO2	Examine the BM, BA, systems, fire control pannels, FAS architecture	Analyze							
3	VIII)E605C	uildir	N.S.	CO3	Functionality of PA Ssystem, CCTV, DVR ,DVM,	Analyze							
			art Bi	Mrs	CO4	Examine security systems, EPBX systems, integration of systems	Analyze							
			Sms		CO5	Analyze the energy saving systems IBMS architecture	Analyze							

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2023-2024

COURSE OUTCOMES

Semester: VIII

S.no	Semester	Course Course Course				COURSE OUTCOMES	Bloom's Taxonomy Level	
5		Code	Name	and Dr.	COI	Summarize in written form the literature study carried out with relevant data analysis, interpretation and problem identification for the selected project	Understanding	
			_		CO2	Analyse the specific problem using engineering knowledge to arrive at a	Analysing	
		4CE	/ork - 1	Na ur	CO3	obtained data using a laboratory procedure and/or modern engineering software and tools.	Creating	
	VIII	PW70	PW70	1. Madh Bandita	M. Mad Bandit	CO4	recommendations or estimations, keeping in view the safety norms and regulations in codes of practice.	Understanding
		Discuss and communicate in oral and writter	Discuss and communicate in oral and written forms, the technical contents of the project, observing professional ethical principles of documentation.	Understanding				
					C06	Demonstrate individual and teamwork skills in carrying out and managining	Analysing	

ASSESSMENT COORDINATOR

HEAD OF THE DEPARTMENT

Head of the Department
Department of Civil Engineering
METHODIST COLLEGE OF ENGG. & TELH
King Koti Road. Abids. Hyderabad



METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
(An UGC-AUTONOMOUS INSTITUTION)





Estd: 2008

Accredited by HAAC with A+ and HBA Affiliated to Osmania University & Approved by AICTE

Department of Electronics and Communication Engineering

Course Outcomes

				III Semester	
XY: 202 SNO	Course	Course Name	CO No.	Course Outcomes	Taxonomy
	Code .		coi	Understand the PN Diode V-I Characteristics and its applications.	Creating
		• • •	CO2	Identify the merits and demerits of various Rectifier circuits with Calculation of Ripple Factor and %Efficiency.	Understanding
1	SPC301EC	ELECTRONIC DEVICES	CO3	Discriminate the BJT Configurations to recognize appropriate Transistor Configuration for any given application.	Analyzing
		2	CO4	Analyze, Compare and design of BJT Amplifiers.	Remembering
	1.0°		CO5	Distinguish the working principles of BJT and FET.	Remembering
	,		CO1.	Define and differentiate types of signals and systems in continuous and discrete time.	Understanding
•	a)		CO2	Apply the properties of Fourier transform to continuous time signals	Analyzing
2	5PC302EC	SIGNALS AND SYSTEMS	CO3	Relate Laplace transforms to solve differential equations and to determine the response of the Continuous Time Linear Time Invariant Systems to knowninguts.	Applying
	9	l A	CO4	Obtain Linear Convolution and Correlation of discrete time signals with graphical representation.	Evaluating
			CO5	Apply Z-transforms to discrete time signals to solve Difference equations.	Evaluating
3	5PC303EC	NETWORK THEORY	COI	Able to Express given Electrical Circuit in terms of A, B, C, D and Z, Y Parameter Model and Solve the circuits and how they are used in real time applications.	Understandi
			CO2	Able to learn how to calculate properties of networks and design of attenuators.	Applying
1					

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			CO3	Able to design of equalizers.	Evaluating
			CO4	Able to design different types of filters using passive elements.	Understanding
		a c	CO5	Able to synthesize the RL & RC networks in Foster and Cauer Forms.	Evaluating
			COL	Explain the basic concepts related to number system and their conversion.	Applying
4		SWITCHING	CO2	Analyze the Boolean logic equations and simplify using K-map and tabular method.	Analyzing
	5PC304EC	THEORY AND LOGIC DESIGN	CO3	Analyze the different combinational circuits and implement them using IC's.	Understandin
	, .		CO4	Explain the operation of flip flops and converting one flip flop to another.	Applying
			CO5.	Analyze the concepts of sequential circuits.	Understanding
			COI	To understand different types of Random variables their density and distribution functions.	Understandin
		PROBABILITY	CO2	To learn one Random variable characteristics of different variables theirdensity and distribution functions.	Applying
5	5ES303EC	THEORY AND STOCHASTIC PROCESSES	CO3	To extend bi-variate distributions and the operations on.	Applying
			CO4	To understand elementary concepts of the stochastic process in to Temporal characteristics.	Understanding
			CO5	To understand elementary concepts of the stochastic process in to spectralcharacteristics.	Understanding
			COI	Understand the financial and Accounting aspects of a business	Analyzing
			CO2	Evaluate financial Performance of the business unit	Evaluating
6		MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	CO3	Understand about the financial system and markets	Evaluating
	5HS302HS		CO4	Evaluate the viability of projects by using Capital budgeting Techniques.	Understand
,	*		CO5	Analyse the overall financial functioning of an Enterprise	Evaluating

	- .		COI	Know the background of the present constitution of India.	Evaluating
		ž.	CO2.	Understand the working of the union, state and local levels.	Evaluating
_		INDIAN	CO3	Gain consciousness on the fundamentals rights and duties.	Understanding
7	5MC303HS	CONSTITUTION	CO4	Be able to understand the functioning and distribution of financial resources between the states	Understanding
			COS	Be exposed to the reality of hierarchical Indian social structure and the ways the grievances deprived section can be addressed to raise human dignity in a democratic way.	Evaluating
			COI	Explain basic principles of Python programming language.	Understanding
		. PYTHON PROGRAMMING	CO2	Create, run, and manipulate Python Programs using core data structures like Lists, Tuple, Set and Dictionaries.	Applying
8	5ES304EC		CO3	Understand and summarize different File handling operations.	Understand
Ì			CO4 ·	Handle exceptions in programming.	. Applying
			CO5	Identify the commonly used operations involving file systems and regular expressions.	Understanding
	6 2		COI	Understand characteristics of Diodes	Analyzing
		ELECTRONIC	CO2	Plot the characteristics of BJT in different configurations	Understanding
9	5PC351EC	DEVICES AND	CO3	Record the parameters of BJT and FET amplifiers.	Creating
		LOGIC DESIGN LAB	CO4	Understand biasing techniques of BJT.	Remembering
	-	7	CO5	Design and performance evaluation of full wave rectifiers	Understanding
2			COI	Use the basic electronic components and design circuits.	Creating
			CO2	Verify various parameters of the circuits by applying theorems.	Analyzing
10	5PC352EC	NETWORK THEOREM LAB	CO3	Understand the making of PCB.	Applying
7.			CO4	Design various filters.	Evaluating
			COS	Determine voltages and currents in a resonant circuit	Evaluating

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			CO1	Write, Test and Debug Python Programs.	Creating
11 5ES		DVTHON	CO2	Implement Conditionals for Python Programs	Applying
	5ES353CS	THO GIG HAMAII	CO3	Implement Loops for Python Programs	Applying
	9 2	LABORATORY	CO4	Lists, Tuples and Dictionaries	Applying
			CO5		Applying

Dept Assessment Coordinator

T. Srawan Kumard

Head of the Department
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH
ABIDS. HYDERABAD.



METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY (AN UGC-AUTONOMOUS INSTITUTION)





Accredited by NAAC with A+ and NBA
Affiliated to Osmania University & Approved by AICTE

Department of Electronics and Communication Engineering

Course Outcomes

AY: 2023-24

IV Semester

S.no	Course	Course Name	CO No.	Course Outcomes	Taxonomy
	Code		COI	Design and Analyze various amplifiers using BJT	Analyzing
	,	~	CO2	Analyze the frequency response of BJT	Analyzing
1	5PC405EC	ANALOG ELECTRONIC CIRCUITS	CO3	Understand the concept of negative feedback and effect of negative feedback.	Understandir
			CO4	Design of different types of oscillators	Designing
			CO5	Design of power amplifiers and calculate their efficiencies.	Designing
		. to	COI	Explain the concepts of control systems, time& frequency domain specification, and also concepts of state space representation.	Understandi
		. AUTOMATIC	CO2	Apply the concepts of networks, block diagram reduction rules, Mason's gain formula for computing the transfer function of control systems and transfer function of sample data systems.	Applying
2	. 5PC406EC	CONTROL SYSTEMS	. CO3	Analyze the modelling of mechanical	Analyzin
			CO4	Analyze the control system stability using frequency domain techniques.	Analyzin
			COS	Analyze the Discrete control systems and	Analyzin
			coı	Perform mathematical operations on fixed and floating point digital data.	Understand
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			CO2	Illustrate the operation of a digital computer.	Analyzing
3	5PC407EC	COMPUTER ORGANISATION AND ARCHITECHTURE	CO3	Understand I/O interfacing of a computer.	Analyzing
	# 1 3		CO4 .	Interface microprocessor with memory devices.	Applying
	· ·		CO5	Understand latest trends in microprocessors.	Evaluating
			COI	Understand the different coordinate systems, concepts of electric, magnetic fields, Electromagnetic fields and transmission line parameters	Understandir
			CO2	Apply the principles of electrostatics to the solutions of problems relating to electric field and electric potential, boundary conditions and electric energy density.	Applying
4	5PC408EC	ELECTROMAGNETIC THEORY AND TRANSMISSION LINES	CO3	Apply the principles of magneto statics to the solutions of problems relating to magnetic field and magnetic potential, boundary conditions and magnetic energy density	Applying
₹.			CO4	Analyze the EM wave propagation in different mediums and understand the concept of transmission lines & their applications.	Analyzing
	* _{**}	ė	COS	Analyze the SC,OC transmission lines and computing the impedance using smith chart.	Analyzing
5	5PC409EC	IC APPLICATIONS	COI	Explain Differentiate IC and Discrete components, understand manufacturing process of IC and how monolithic components are being developed	Understandir
			CO2	Apply Learn about the basic concepts for the circuit configuration for the design of linear, integrated circuits and & Develop skills to develop simple filter circuits and	Applying

				N .	
	1			various amplifiers and can solve problems	
8				related to it	
1	5				
			CO3	Analyze To study the block diagrams of 555 timer and 565 phase locked loops ICs and use them to construct various applications	Analyzing
	- '		CO4	Analyze the basic logic gates by using digital ic. Learn about various techniques to develop A/D and D/A convertors	Analyzing
			ÇO5	Analyze: The ability to understand, analyze and design various combinational and sequential circuits	Analyzing
		•	COI	To outline the history of civilization in Indian context since pre-Vedic times	Understanding
	20 -		CO2	To outline the various schools of Indian Philosophy	Understanding
	C) (C)(O)(IS	ESSENCE OF INDIAN TRADITIONAL	CO3	To demonstrate the diversity in Indian Thought, Languages, regional culture, dress, living style etc.	Understanding
6	5MC402HS	KNOWLDEGE	CO4	To Identify the various religious and social reform movements which took place in the past few centuries	Applying
			CO5	To classify the wealth of Indian-Fine Arts and the diversity associated with it over the length and breadth of the country	Understanding
	-		COI	Ensures students sustained happiness through identifying the essentials of human values	Understandin
7.		(*)	CO2	Ensures students sustained happiness thrugh identifying the essentials of professional ethics	Understandin and Analyzin
		HUMAN VALUES AND	CO3	It facilitates a correct understanding between profession and happiness	Understandin
7	5HS403HS	PROFESSIONAL ETHICS	CO4	Understand practically the importance of trust, mutually satisfying human behaviour and enriching interaction with nature.	Understanding evaluating
			CO5	Ability to develop appropriate	Analyzing

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		÷	CO1	Calculate gain and bandwidth of BJT, FET.	Understandin,
8	5PC453EC	AEC LABORATORY	CO2	Study Feedback amplifier circuits.	Remembering Creating
8.		*.	CO3	Study oscillator circuits.	Understanding
27			CO5	Demonstrate filter circuits. Demonstrate power amplifier and OpAmp. Circuits	Understanding
e F			COI	Study and performance 0f various parameters of op-amp & Construct linear and non-linear applications circuits.	Applying
	1.00		CO2	Design and Analyze different filters & their frequency comparision. (theoritical & practical)	Creating
9 .	5PC454EC	IC APPLICATIONS LABORATORY	CO3	Design different multivibrators and their comparision. (theoritical & practical) by using IC 555	Analyzing
			CO4	Design sequential circuit synchronous & asynchronous counters	Applying
		CO5	Verify Flip-Flop conversions and latches using gates and ICs.	Applying	

Dept Assessment Coordinator

T- Gravan Russon

Head of the Department
HEADOFTHE DEPARTMENT
DEPARTMENT OF ECTE "METHODISTICOOLEGE OF ENGG. & TEEGH. ARBIDS HYDERABAD).



METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY (An UGC-AUTONOMOUS INSTITUTION)





Activities to Osmania University & Approved by AICTE
Department of Electronics and Communication Engineering

<u>Course Outcomes</u>

AY: 2023-24

V Semester

		ν.		7	Taxonomy
S.no	Course	Course Name	CO No.	Course Outcomes	
	Code		COI	Explain the architecture of 8051	Understanding
	· ·	CO2	Write Assembly programming using 8051microcontroller.	Applying	
1	5PC510EC	Microcontrollers	CO3	Interface different peripherals to 8051microcontroller.	Applying
	51 00 100		CO4	Explain the architecture of ARM controller.	Understanding
	2		CO5	Interface different peripherals to ARM controller.	Applying
			COI	Apply the knowledge of FFT Algorithms for computation of DFT.	Understanding
			CO2	Design of FIR filters using various methods.	Applying
2	5PC511EC	Digital Signal Processing	CO3	Design of IIR filters using various methods.	Applying
2		Processing	CO4	Apply decimation and interpolation concepts for the design of sampling rate converters.	Analyzing
			CO5	Understand and identify important features of TMS320C67XX DSP processors.	Understanding
			COI	Explain and analyze the various continuous modulation systems	Understanding
	W W		CO2	Demonstrate and contrast the different Angle	Analyzing
			CO3	modulation schemes Illustrate and compare the pulse modulation	Applying
3	5PC512EC	C Analog Communication		Interpret with differentiate types of transmitters and receivers used for particular	Understandin
•			CO5	application. Identify the noises present in continuous wave modulation systems and analyze Signal to Noise ratio in each system.	Analyzing
4	5PE513EC	Real Time Operating	COI	Classify various types of kernels and operating systems	Understandin

•		Systems (PE-I)	CO2	Analyse various scheduling algorithms related to RTOS.	Applying
		•	CO3	Summarize the Inter process communication tools.	Understandin
*			CO4	Understand the elementary concepts of VxWorks.	Understandin
	•		CO5	Enumerate the fundamental concepts of UNIX operating system.	Understandin
			COI	Understand the fundamental concepts and classification of neural networks	Understandin
. 1			CO2	Analyze and interpret the mathematical models of artificial neural networks	Analyzing
5	5PE514EC	Neural Networks (PE-I)	CO3	Evaluate and compare different activation models in neural networks	Applying
Á			CO4	Apply the basic learning laws of neural networks ;	Applying
		1.4	CO5	Design and implement neural network memory systems	Analyzing
			COI	Understand fundamental AI concepts and identify a range of symbolic andnon symbolic AI techniques.	Applying
6	10E501AD	Artificial Intelligence	CO2	Demonstrate an understanding of various searching algorithms such as adversarial search and game-playing commonly used in artificial intelligencesoftware.	Applying
		(OE-I)	CO3	Use different knowledge representation techniques used in AI Applications.	Applying
			CO4	Demonstrate an understanding of agent based Al architectures, Planning and logic based agents.	Evaluating
			CO5	Exploring Expert systems options.	Applying
			COI	Handle Technical Communication effectively by overcoming barriers of communication.	Understanding
7	HS 502HS	Effective Technical	CO2	Use different types of Professional correspondence to communicate effectively.	Analyzing
		Communication	CO3	Use different types of Business and Inter Office Correspondence.	Analyzing
- 1			CO4	Acquire adequate skills to draft reports	Understanding

.		,		efficiently.	
			CO5	Enhance their skills of information transfer.	Understanding
9		_4,	coi	To write assembly language programs using 8051 controller.	Understandin
			CO2	To develop interfacing applications using 8051 controller.	Applying
8	5PC551EC	Microcontroller Lab	CO3	To develop embedded C programming concepts of ARM.	Applying
			CO4	To develop ARM based programs for various interface modules	Analyzing
			CO5	Design algorithms and different programs for SFRs using C cross compilers for 8051 Microcontroller	Analyzing
			CO1	Develop MATLAB files for the verification of system response.	Applying
		ं	CO2	Design and analyze the digital filters using MATLAB.	Applying
9	5PC552EC	Systems and Systems Lab	CO3	Verify the functionality of FFT algorithms.	Analyzing
)	CO4	Experiment with multirate techniques using MATLAB & CCS.	Analyzing
10.0			CO5	Design and implement the digital filters on DSP processor.	Evaluating
			COI	Get practical experience of software design and development, and codingpractices within Industrial/R&D Environments.	Understandin
			CO2	Gain working practices within Industrial/R&D Environments	Applying
10	5PW571EC	Mini Project	CO3	Prepare reports and deliver effective presentation.	Understandin
			CO4	Demonstrate effective written and oral communication skills.	Applying
			CO5	Innovate in various engineering disciplines and nurture their entrepreneurial ideas.	Analyzing

Dept Assessment Coordinator

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH
ABIDS HYDERABAD



METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY (An UGC-AUTONOMOUS INSTITUTION)





Accredited by NAAC with A+ and NBA
Affiliated to Osmania University & Approved by AICTE
Department of Electronics and Communication Engineering

Course Outcomes

AY: 2023-24

VI Semester

S.No.	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
		2	COI	Classify the different types of digital modulation techniques PCM, DPCM, DM and ADM and compare their performance by SNR.	Understanding
	•		,CO2	Illustrate the classification of channels and Source coding methods.	Applying
1	5PC613EC	Digital Communication	CO3	Distinguish different types of Error control codes along with their encoding/ decoding algorithms.	Analyzing
			CO4	Examine the Performance of different Digital Carrier Modulation schemes of Coherent and Non-coherent type based on Probability of error.	Analyzing
		a*	COS	Generation of PN sequence using Spread Spectrum and characterize the Acquisition Schemes for Receivers to track the signals.	Analyzing
	SDG4145G		COI	Familiarize with the constructs and conventions of the verilog HDL programming in gate level and data flow modeling.	Analyzing
2	5PC614EC	VLSI Design	CO2	Generalize combinational and sequential logic circuits in behavioural modeling and concepts of switch level modelling.	Understanding
jā I			CO3	Analyze modes of operation of MOS transistor and its basic electrical	Analyzing

÷				properties.	
	• Sec	24	CO4	Draw sticks diagrams and layouts for any MOS transistors.	Analyzing
			CO5	Analyse the operation of various arithmetic and sequential logic circuitsusing CMOS transistors.	Applying
			COI	To illustrate the basic principles of antennas and learn the antenna terminology.	Understanding
		Antonio and Warr	CO2	To design different types of wire antennas and make proficient in analyticalskills for understanding practical antennas.	Applying
3	SPC615EC	Antenna and Wave Propagation	CO3	To design different types of antennas for various frequency ranges and get updated with latest developments in the practical antennas.	Analyzing
			CO4	To apply the principles of antennas, to design antenna arrays and measure various parameters of antennas.	Analyzing
			CO5	To Identify and understand the suitable modes of Radio Wave propagationused in current practice.	Understanding
		· · · · · · · · · · · · · · · · · · ·	CO1	After completing this course, the student will be able to:	Understanding
.*			CO2	Understand the fundamentals of the embedded system design.	Understanding
4	5PE621EC	Embedded System Design (PE-II)	CO3	Enumerate the instruction set of ARM Processor by studying the architecture of ARM core.	Applying
			CO4	Acquire knowledge on the serial, parallel and network communication protocols.	Applying
•			CO5	Learn the embedded system design life cycle and co-design issues.	Understanding
5	5PE631EC	Internet of Things (PE-III)	COI	Understand the various applications of IoT and other enabling technologies.	Understanding

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	•:	,	*		
		- 45	CO2	Comprehend various protocols and communication technologies used in IoT.	Applying
		å	CO3	Design simple IoT systems with requisite hardware and Python programming software.	Analyzing
			CO4	Understand the relevance of cloud computing and data analytics to IoT.	Understanding
			CÓ5	Comprehend the business model of loT from developing a prototype to launching a product.	Applying
	19		COL	Analyze and evaluate the cyber security needs of an organization.	Understanding
5 00			CO2	Understand Cyber Security Regulations and Roles of International Law.	Applying
6	5PE632EC	Cyber Security (PE-III)	СОЗ	Design and develop security architecture for an organization.	Applying
	·	2	CO4	Understand fundamental concepts of data privacy attacks.	Understanding
			CO5	Understand the defensive techniques against these attacks	Understanding
•			CO1 ·	Acquired working knowledge of alternative approaches and techniques foreach phase of SDLC.	Understanding
7	30E602CS	Software Engineering	CO2	Judge an appropriate process model(s) for software project attributes and analyze requirements for project development.	Understanding
P		(OE-II)	CO3	Acquire skills necessary as an independent or as part of a team for architecting a complete software project by identifying solutions for recurring problems exerting	Applying
,			CO4	Concede product quality through testing techniques employing	Applying

		•		appropriatemetrics by understanding the practical challenges associated with thedevelopment of a significant software system	
2			CO5	Apply the software engineering principles in real time project development.	Applying
170			COL	To identify and describe the history and evolvement of electric & hybrid electric vehicles to emphasize on the need and importance of EV/HEV for sustainable future.	Understanding
			CO2	To identify and describe the principles of various EV/HEVs drive train topologies along with their power flow control and fuel efficiency estimation.	Applying
8	4OE602EE	Electric Vehicle Technology	CO3	To design and select electric propulsion system components for EV/HEV drives suitability for the desirable performance and control.	Understanding
3.4E			CO4	To compare and evaluate various energy sources and energy storage components for EV and HEV applications.	Applying
		•	CO5	Students will also be able to address practical challenges in integrating EV charging infrastructure with grid systems and renewable energy sources.	Applying
			C.O1	Understand and simulate modulation and demodulation of AM and FM.	Applying
29	5PC651EC	Analog/Digital Communication Lab	CO2	Construct pre-emphasis and de- emphasis at the transmitter and receiverrespectively.	Applying
	•	*	CO3	Understand and simulate the PAM, PWM & PPM circuits	Applying

			CO4	Understand baseband transmission (i.e., PCM, DPCM, DM, and ADM) generation and detection.	Analyzing
	١.	-	CO5	Understand error detection and correction.	Analyzing
			CO1	Write the Verilog HDL programs in Gate level and Data flow Modelling.	Applying
			CO2	Implement combinational and sequential circuits using Verilog.	. Creating
10	5PC652EC	VLSI Design Lab	CO3	Analyse digital circuits using VLSI CAD tools like DSCH, Microwind.	Applying
		0 B	CO4	Design CMOS circuits like basic gates, adders at the transistor level.	Analyzing
	- ·		CO5	Implement the layout of simple CMOS circuits like inverter and basic gates.	Analyzing
	*		CO1	Listen to a variety of speakers and texts and will be able to comprehend and perform the required tasks.	Applying
			CO2	Interact in a group professionally and communicate confidently interms of both the spoken and written communication.	Creating
. 11	HS 553HS	Soft Skills Lab	CO3	Develop the skills and strategies of reading and writing.	Applying
			CO4	Face any Interview confidently by managing time, making decisions by speaking appropriately according to the context.	Analyzing
·			CO5	Demonstrate right attitude and right skills to cope with team and communicate professionally.	Analyzing
12	5PW774EC	Summer Internship	COI	Acquire practical experience of software design and development, and coding practices within Industrial / R&D Environments	Understandin

CO2	understand working practices within Industrial/R&D Environments	Applying
CO3	Prepare reports and deliver effective presentation.	Analyzing
CO4	demonstrate effective written and oral communication skills	Analyzing
CO5	Innovate in various engineering disciplines and nurture their entrepreneurial ideas.	Applying

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Dept Assessment Coordinator

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METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY (An UGC-AUTONOMOUS INSTITUTION)





Accordited by NMMC with #1 and NBM

Department of Electronics and Communication Engineering <u>Course Outcomes</u>

AY: 2023-24 (AICTE Model Curriculum)

VII Semester

1				7	
Sa	no Course Code	Course Title	CO No.	Course Outcome	TAXONOM Y
	12 ⁵		COI	Analyze the propagation of Guided waves in different modes between parallel planes.	Understanding
	1	Michowayin	CO2	Evaluate different parameters (Like impedance, attenuation and quality factor.) for Rectangular & Circular Waveguides & Cavity Resonators.	Applying
1	PC416 EC	MICROWAVE THEORY AND TECHNIQUES	СОЗ	Determine Scattering parameters of different microwave components and analyze their properties.	Applying
			CO4	Integrate the concept of bunching and velocity modulation to summarize the operation of microwave tubes and the high frequency limitations of conventional tubes.	Analyzing
			CO5	Analyze the principle, operation and characteristics of different microwave solid state devices.	Evaluating
		FUNDAMENT ALS OF	COI	Identify problems that are amenable to solution using State space search algorithms	Analyzing
2	PE511EC	ARTIFICIAL INTELLIGENC	CO2	Understand and analyze working of an Al technique using Heuristic search.	Understanding
-	PESITEC	E AND MACHINE	CO3	Understand and design the Bayesian Networks.	Analyzing
	· - - -	LEARNING (PE-III)	CO4	Understand and apply the concepts of Markov Decision process.	Understanding
			CO5	Apply of AI concepts to Reinforcement Learning.	Applying
4		CELLULAR AND MORE E	COI	Understand the method of selection and reuse of a set of frequency channels, Base station requirement.	Understanding
3 PE5,1		AND MOBILE COMMUNICA TIONS (PE-IV)		Appreciate and understand the methods of electromagnetic wave propagation in cellular communication.	Analyzing
		,	CO3	Identify different a methods of mobile access	Applying

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	· · .			technologies and which of them suitable for mobile	
			CO4	cellular solutions. Explain features, authentication, operational details of GSM and CDMA mobile cellular system.	Applying
		·	CO5	Understand the development and limitation of the preliminary and advanced generation of mobile	Understanding
	1		COL	systems and the present trends. Analyze and evaluate the cyber security needs of an organization.	Understanding
2	*	=	CO2	Understand Cyber Security Regulations and Roles of International Law.	Applying
4	OE 816 IT	Cyber Security (OE-II)	CO3	Design and develop security architecture for an organization.	Applying
		2	CO4	Understand fundamental concepts of data privacy attacks.	Understanding
		•	CO5	Understand the defensive techniques against these attacks	Understanding
			COI		Understanding
				Understand the usage of IDE tools Develop interfacing applications like display devices	Applying
	PG440EG	Embedded syste	CO2	and input devices using ARM Processor Develop program using ARM processor to read the	Analyzing
6	PC460EC	IoT applications	CO4	sensor values and display them Develop the IoT applications using	Analyzing
	2.		CO5	Arduino/Raspberry Pi Utilize the thingspeak cloud to display the sensor values	Understanding
			COI	Analyze frequency, Wave length, SWR and Impedance for Reflex klystron Oscillator by using its equation	Analyzing
			CO2	Evaluate of mode characteristics of Reflex klystron and V-I Characteristics of Gunn diode.	Evaluating
7	PC461EC	MICROWAVE LAB	CO3	Analyze of the characteristics of Circulator, Isolator, Directional Coupler, Tees like (Magic tee, E & H plane tees) using the Scattering parameters.	Analyzing
	1000	j. 2.	CO4	To analyze the radiation pattern of antenna	Analyzing
	8		CO5	Generate the Radiation pattern of different antennas like Yagi-Uda and Horn Antenna and measure the gain of the antennas.	Analyzing
8	PW702EC	SUMMER	COI	Apply knowledge and skills learned in company/industry/organization to real-world problems.	

		20			
	U Sa	INTERNSHIP	CO2	Demonstrate knowledge of contemporary issues related with engineering in general.	
	y	(3%)	CO3	Effectively use new tools and technologies for solving engineering problems.	
			CO4	Gain experience related to working practices within Industrial/R&D Environments.	
			CO5	Prepare reports and other relevant documentation.	
			COI	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.	Analyzing
10	PW703EC	W703EC MAJOR PROJECT PHASE-1	CO2	Evaluate different solutions based on economic and technical feasibility.	Analyze
10			CO3	Effectively plan a project and confidently perform all aspects of project management	Creating
	1 4		CO4	Demonstrate effective written and oral communication skills.	Creating
			CO5	Find relevant sources (e.g., library Internet experts)	Creating

Dept Assessment Coordinator T. Francis Kuner

Head of the Department
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METHODIST
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Estd: 2008

Accredited by MAAC with A+ and MAA Affiliated to Camania University & Approved by AICTE

Department of Electronics and Communication Engineering

Course Outcomes

AY: 2023-24 (AICTE Model Curriculum) VIII Semester

S.no	Course Code	Course Title	CO No.	Course Outcome	TAXONOMY			
	Code		COI	Demonstrate and understand the factors detecting the radar using radar range equation.	Understanding			
	PE520	RADAR	CO2	Illustrate various types of radars and their variation	Analyzing			
1	EC .	SYSTEMS (PE-V)	CO3	Explain different types of MTI radars and Non conerent	Analyzing			
		(12-1)	CO4	Illustrate on radar tracking methods and differences	Remembering			
	15		CO5	Fundam search radars and various antennas used in radars.	Understanding			
		•	COI	Explain the concepts of fundamentals & Segments of GPS and its error & different types of dilution of	Understanding			
		GLOBAL	CO2	Describe the Global & Indian regional satellites system and its features.	Understanding			
2	PE 523 EC	NAVIGATIO NAL SATELLITE SYSTEMS	CO3	Apply the concepts time references on satellite & Calculate different error's in GPS and can design the system in GPS and can design the system with improved accuracy.	Applying			
	· •	(PE-VI)	CO4	Analyze the GPS errors and their modelling techniques.	Analyzing			
			CO5	Design Analyze the different types of GNSS Architectures	Designing			
-			COI	Understand fundamental principles of road safety.	Understanding			
100		ESSENTIALS	CO2	Analyze traffic safety data using statistical methods and engineering techniques.	Understanding			
3	OE603 CE	OF ROAD SAFETY	OF ROAD	OF ROAD	OF ROAD	CO3	Apply geometric design principles and integrate safety features into roadinfrastructure.	Applying
		ENGINEERIN G (OE-III)	CO4	Master traffic management systems to enhance road safety.	Understanding			
			CO5	Conduct road safety audits and develop comprehensive safety management systems.	Applying			
4	PW 704 EC	MAJOR PROJECT	COI	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.	Analyzing			
	704 EC	PHASE-II	CO2	Evaluate different solutions based on economic and	Analyzing			

		technical feasibility.	
ļ ,.	CO3	Effectively plan a project and confidently perform all aspects of project management	Applying
	CO4	Demonstrate effective written and oral communication skills.	Analyzing
	CO5	Find relevant sources (e.g., library, Internet, experts) and gathers information for preparing reports and other relevant documentation.	Creating

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Dept Assessment Coordinator

T- Sorven Kiner

Head of the Department

METHODIST COLLEGE OF ENG. & TECH
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METHODIST





DEPARTMENT OF MECHANICAL ENGINEERING

	DE CO	DO MA	CART	EMIC YEAR 2023-24
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SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy				
				CO1	Apply concept of temperature and temperature scale	Apply				
	m	nics	ier.	CO2	Apply the first law of thermodynamics for simple open and closed systems under steady and unsteady conditions.	Apply				
1	6РС301МЕ	Thermodynamics	Mr.G Bhasker	CO3	Apply second law of thermodynamics to open and closed systems and calculate entropy and availability.	Apply				
	6PC	Тћетт	Mr.G	CO4	Derive simple thermodynamic relations of ideal and real gases	Create				
				CO5	Apply Rankine cycle to steam power plant and compare few cycle improvement methods	Apply				
			7.5	CO1	Define stresses and strains, explain stress-strain diagram and classify the beams, loads and springs.	Understand				
		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				
c 6PC302ME	302MI	6PC302ME Strength of material	ım REI	CO3	Analyze stresses in cylinders, beams and springs for the given loading conditions	Analyze				
	6PC		6PC Strength	6PC Strength	6PC Strength	6PC Strength	6PC Strengt	Strength of material Mr. Y mm REDDY	CO4	Measure stresses, torque, slope, deflection, shear force and bending moment for various types of beams under loading conditions
				CO5	Construct stress- strain diagram, Shear force and bending	Create				
		Material science	Y	CO1	Discuss crystal structure, mechanical behaviour and heat treatment methods applied to ferrous and non ferrous materials.	Understand				
	ME		aterial sci	aterial sci	terial sci	aterial sci	asekhar	CO2	Analyse mechanical failure, crack growth and crack propagation in ductile and brittle materials under static and dynamic loading.	Understand
3	6РС303МЕ		Dr.Arajas	CO3	Sketch and interpret Iron-Iron Carbide and other equilibrium diagrams.	Apply				
	9	Metallurgy and	Δ	CO4	Compare and select suitable material and heat treatment process for a particular requirement.	Analyze				
		Meta	Meta	Meta	Meta	Meta	Meta	CO5	Discuss properties and applications of ferrous and non ferrous alloys, polymers, ceramics and composite materials.	Understand
		olem		CO1	Formulate algorithms and learn fundamental program methodologies of C programming.	Creating				
	S	or Prol	ıruddir	solving Dr. Md Fakhruddin	CO2	Understand control statements and interpret derived data types with mathematical and engineering problems.	Understandi			
4	6PC301CS	Programming for Problem solving	ning fo solving		CO3	Develop modular programming techniques to solve searching, sorting and file system problems	Analysing			
		Lam)r. N	CO4	Identify pre-processor directives and user defined usage.	Identifying				
		Progr	Ц	CO5	Interpret Arrays (1-D, 2-D), Strings and its library functions	Evaluating				





III-SEMESTER	DE CO-I	PO Matrix	for ACADEMIC	YEAR 2023-24
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	SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy				
			artial		CO1	Find the solution of algebraic and transcendental equations using numerical methods.	Understand				
		SI	Numerical Methods and Partial differential Equation	, <u>i</u>	CO2	Apply numerical techniques to solve ordinary differential equations and definite integrals.	Apply				
	5	5BS303HS	Aethoda ntial Ec	Dr. Kalyani	CO3	Apply numerical methods to interpolate values and fit different curves from given data	Apply				
		19	erical N differe	Ď [CO4	Find solutions of first order linear and non linear partial differential equations	Apply				
SEM			Num		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				
. (sional		CO2	Assess their own ethical values and the social context of problems.	Understand				
4	6	6HS303HS	Human Value and Professional Ethics	Mr. Murthy	CO3	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 a	M	CO4	Understand the role of a human being in ensuring harmony in society and nature.	Understand			
					CO5	Distinguish between ethical and unethical practices and start working out the strategy to actualize a harmonious environment wherever they work.	Understand				
		ME	and Material Testing Iab	YMM	CO1	Apply the procedure for preparing the sample for metallographic observation and Identify different materials by examining the phases in their microstructure	Apply				
				& Mr.	CO2	Analyze the effects of various heat treatment by studying the grain structure	Analyze				
	7	6PC351ME		Mrs I Sowjanya & Mr. YMM REDDY	CO3	Determine the tensile, compressive and impact strength for various materials	Evaluate				
		9	rgy	Sow	Sow	Sow	Sow	CO4	Measure hardness, shear strength for various materials	Evaluate	
			Metallu	Metallu	Metallu	Metallurgy ar	Metallu	Mrs I	CO5	Determine the shear force, bending moment and Young's modulus of different beams under various loading conditions.	Evaluate
			wing		COI	Develop the skills in drafting various machine components using Auto Cad software	Understand				
			ne Dra	er	CO2	Interpret the conventions & symbols used in technical drawings into their physical meanings & vice versa	Understand				
	8	SPC352ME	Machi	Dr.Ravichander	CO3	Construct orthographic views of simple machine components	Apply				
		6PC3	Aided	Dr.Rav	CO4	Demonstrate the working knowledge in solidworks to model, assemble and generate orthographic views.	Understand				
			Computer Aided Machine Drawing		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.	Evaluate				



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DEPARTMENT OF MECHANICAL ENGINEERING

SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy		
		blam	.g	CO1	Understand the fundamentals of programming in C Language.	Understanding		
	S	Pro ab	ppn	CO2	Write, compile and debug programs in C.	Creating		
9	6ES351CS	nming for P solving Lab	l Fakhr	Formulate solution to problem	Formulate solution to problems and implement in C.	Creating		
	6E	Programming for Problam solving Lab	gramm	gramm solv	Dr. Mc	CO4	Effectively choose programming components to solve computing problems	Applying
	,		CO5 Program illustrating using Command Line Arguments	Program illustrating using Command Line Arguments	Understanding			
	6 7/5	Solid Edge certification course		CO1	Make 3D mechanical part models in Solid Edge by employing ordered and synchronous modelling techniques.	Apply		
	(1)		ızal	CO2	Use Solid Edge to assemble, identify interference, and analyze the motion of complicated equipment.	Analyze		
10	6MC351ME		Mr. Abdul Fazal	CO3	Adjust imported geometries in neutral formats such as IGES, STEP, and Para-solid in accordance with specifications.	Apply		
	19		Mr.	CO4	Use Solid Edge to analyze and optimize parts and assemblies through simulations.	Create		
), 	Soli		CO5	Recognize how production drawings and tools are developed in order to create rendered pictures of products.	Understand		

Dept. Assessment Coordinator

ad of the Department

H.O.D.

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



IV SEMESTER - BE CO-PO Matrix FOR A.Y :2023-2024

			F 1	IV	SEMESTER - BE CO-PO Matrix FOR A.Y :2023-2024	<u> </u>																				
S No	Co de	subject	Facult y Name	CO No.	. Course Outcomes	Taxonomy Level																				
		ing	Z.	COI	How to be able to introduce core programming basics	Remembering																				
	SS	lin H	CO2	Design program with functions using Python programming language.	Creating																					
1	6ES403CS	rogr	rudd	CO3	Summarize a range of Object-Oriented Programming.	Understanding																				
	6ES	on P	akh	CO4	Organize in-depth data and information processing techniques.	Applying																				
		Python Programming	Dr. Fakhruddin H.N	Dr. I	Dr. F	CO5	Match the high-performance programs designed to strengthen the practical expertise	Remembering																		
		ics		CO1	Understand the principles and types of air compressors, internal combustion engines, combustion in IC engines, steam boilers, steam power plants and nozzles	Understanding																				
	1E	dynami	Reddy	Reddy	leddy	Reddy	CO2	Demonstrate the safe operation and maintenance of air compressors, IC engines, steam power plants, boilers and nozzles	Applying																	
2	6PC404ME	Гћегто	Mr. Y.M.M Reddy	CO3	Apply the principles of thermodynamics and fluid mechanics to analyze the thermodynamic cycles of IC engines and evaluate their	Applying																				
6PC404ME Applied Thermodynamics	plied 7	Mr. Y	CO4	Apply knowledge of IC engine design and operation to perform basic maintenance and repair tasks safely and effectively	Applying																					
	Ap		CO5	Analyze and evaluate the performance of different types of air compressors, types of steam boilers, nozzles, IC engines and factors affecting combustion in IC engines	Analyzing																					
la .	S	es		COI	Describe the basic principle and working of various types of basic manufacturing processes.	Understanding																				
	田	rocess	ekhar	CO2	Discuss the materials, equipment and tooling used in various manufacturing processes.	Understanding																				
3	05M	ing F	r. A. Rajas	Dr. A. Rajasekhar	CO3	State the advantages and limitations of various manufacturing	Remembering																			
	6PC405ME	Manufacturing Processes)r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R	r. A. R)r. A. R	Jr. A. R	Dr. A. R	Dr. A. R	Dr. A. R	Dr. A. R	CO4
		Man	П	CO5	Demonstrate the knowledge in identifying the possible defects, their causes and remedies of various manufacturing processes.	Applying																				
		chines		CO1	Explain the concepts of properties of fluids, Types of flows, flow through pipes, Hydraulic Turbines and pumps	Understanding																				
	鱼	Fluid Mechanics & Hydraulic Machines	Cumar	CO2	Interpret the knowledge of pressure measurement devices, stream lines and pathlines, shear stress and pressure gradient relationship, pelton, Francis, Kaplan turbines.centrifugal and reciprocating pumps	Evaluating																				
4	6PC406ME	ics & Hyc	Dr. M. Uday Kumar	соз	Analyze the pressure gauges and Manometrs, continuity, stream and velocity functions, total energy lines, velocity triangles of turbines and pumps	Analyzing																				
		/echan	Dr.	CO4	Develop the equations of motion, Darcy-Weisbach equation, workdone and efficiencies of turbines and pupms	Applying																				
		Fluid N		CO5	Estimate the coefficient of discharge of flow meters, friction factors, drag and lift coefficients, efficiencies, unit quantities and specific	Applying																				



IV SEMESTER - BE CO-PO Matrix FOR A.Y:2023-2024

				IVS	SEMESTER - BE CO-PO Matrix FOR A.Y :2023-2024	
S No	Co de	subject	Facult y Name	CO No.	Course Outcomes	Taxonomy Leve
				CO1	Recall & relate the theoretical terms, concepts used in Machine Kinematics; position, velocity & acceleration analysis; Friction & its	Understand
		chines	~	CO2	Determine the velocity & acceleration of any point on planar mechanisms with simple revolute & prismatic joints as well as gears	Apply
5	6PC407ME	s of Ma	Mr. Srikanth R	СОЗ	Apply the knowledge of friction to solve problems on Belts/rope drives, Brakes & Dynamometers.	Apply
	6PC	Kinematics of Machines	Mr. Sı	CO4	Analyse the effect of variation in dimensions of a mechanism on motion (position, velocity & acceleration) using CAD software like OnShape or Fusion 360.	Analyze
		×		CO5	Evaluate the given mechanism for potential problems in the view of requirements provided & eliminate them.	Evaluate
		raditional		CO1	Understand the concepts of indian culture and traditions and their importance.	Understanding
	-		.=	CO2	Distinguish Indian languages and literature.	Understanding
6	6MC402HS Essence of Indian Traditional Knowledge	dian T wledge	Ms. Deepthi	соз	Learn the philosophy of ancient, medieval and modern India.	Understanding and Applying
		e of In Kno	Ms.	CO4	Acquire the information about the fine arts of India.	Understanding and Applying
			CO5	Know the contribution of scientists of different eras, interpret the concepts and the importance to protect intellectual property of the	Understanding	
		Lab		COI	Develop solutions to simple computational problems using Python programs	Applying
	S	ming 1	in H.N	CO2	Solve problems using conditionals and loops in Python	Applying
7	6ES453CS	gram	hrudd	CO3	Develop Python programs by defining functions and calling them.	Applying
	6E	Python Programming Lab	Dr. Fakhruddin H.N	CO4	Make use of Python lists, tuples and dictionaries for representing compound data.	Applying
		Py		COS	Develop Python programs for GUI applications	Applying
		ab		COI	Determine volumetric efficiency and isothermal efficiency of a two stage reciprocating air compressor.	Evaluating
	o 6PC453ME	amics I	eddy	CO2	Construct port timing diagram of two stroke engine, valve timing diagram of four stroke engine	Applying
8		nodyn	M.	соз	Evaluate the performance of internal combustion engines	Evaluating
U	6PC4	Therr	Mr. Y.M.M Reddy	CO4	Develop heat balance sheet of internal combustion engine	Creating
		Applied Thermodynamics Lab	M	CO5	Determine the properties of (flash point, fire point, viscosity, etc) given lubricating oil	Evaluating



14.7		100		IV	SEMESTER - BE CO-PO Matrix FOR A.Y :2023-2024	
S No	Co de	subject	Facult y Name	CO No.	Course Outcomes	Taxonomy Level
	5PC454ME turing Processes Lab	Lab		COI	Explain the design of patterns, mould making procedures and testing the sand properties.	Understanding
		cesses	nwar	CO2	Apply the various joining techniques to fabricate different geometries.	Applying
9		Manufacturing Processes Lab	Mrs.Shazia Anwar	CO3	Demonstrate the blanking and piercing operations for simple components	Remembering
	19		Mrs.5	CO4	Classify the Applications of plastics and manufacture a simple component by using plastic injection moulding processes	Applying
				CO5	Evaluate the mechanical properties of welded joints.	Applying
		ulic		CO1	Determine the Coefficient of Discharge of Venturimeter and Orifice meter	Analyzing
	ш	& Hydraulic Lab	umar	CO2	Evaluate the performance of Centrifugal, Reciprocating, Gear, Self priming pumps	Evaluating
10	5 6PC455ME		day K	CO3	Evaluate the performance of Pelton ,Francis ,Kaplan Turbines	Evaluating
	6PC4	fechanics & Hy Machines Lab	Dr. M. Uday Kumar	CO4	Determine the coefficient of Jet on Vanes	Applying
		Fluid Mechanics Machines	Δ	CO5	Explain the principles of Hydraulicand Pneumatic circuits and models	Understanding

Dept. Assessment Coordinator

Head of the Department

H.O.D.

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





COLLEGE OF ENGINEERING & TECHNOLOGY



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DEPARTMENT OF MECHANICAL ENGINEERING

V-SEMESTER - BE CO-PO Matrix	for ACADEMIC YEAR 2023-24
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SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy			
		facturin		COI	Understand the fundamental concepts and principles of CAD and evaluate geometric transformations in both 2D & 3D design space.	Understand			
		Manu	var	CO2	Apply the concepts and principles of wireframe modelling to create accurate representation of objects.	Apply			
-	6PC508ME	esign and	Mrs Shazia Anwar	CO3	Create realistic and funtional designs by combining surface, solid and assembly modelling techniques effectively.	Create			
	(P	Computer aided design and Manufacturin	Mrs S	CO4	Create Numerical Control (NC) programs using different methods of part programming bothy manual and computer assisted programming tools.	Create			
		Comput		CO5	Understand the basic concepts and components of Flexible Manufacturing Systems (FMS), and Automated Material Handling Systems.	Understand			
2		lements		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			
	IE	DME - Design of Machine Elements	ΜЕ - Design of Machine E	, МЕ - Design of Machine E	ign of Machine E	fazal	CO2	For a specific application, choose the right shafts, keys, couplings, and permanent and temporary joints.	Apply
	6РС509МЕ					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
					Z	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			
				CO1	Evaluate metrological techniques and tools, including micrometers, sine bars, and limit gauge design, to analyze and solve engineering problems,	Evaluate			
. 3	510ME	6PC510ME Metrology and Machine Tool	6PC510ME	6PC510ME cology and 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	Apply	
	6PC;				rology an	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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	11			The second secon		OF MECHANICAL ENGINEERING				
			V-	SEMESTER	R - BE CO	O-PO Matrix for ACADEMIC YEAR 2023-24				
	SN O	Code	Code subject Name of the faculty COs Course Outcomes							
					CO1	Understand the diverse components and construction details of automobile engines	Understand			
			ering	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	le Engin	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			
		149	Automobile Engineering	Dr. P F	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			
			Management Economics and Finacial Account		COI	Apply economic principles to management decisions and understand the nature&scope of managerial economics, its relationship with other disciplines.	Apply			
		2HS		gement Economics and Account	gement Economics and Account	Mrs. Brundavani	CO2	Describe how changes in demand and price affects market, estimate demand and forecasting of demand in the market.	Understand	
	5	6HS502HS				Econd Acct	rs. Bru	CO3	Understanding the basic concepts of accounting, Classify various books of accounts	Understand
						<u>Ā</u>	CO4	Analyze and Interpret financial statements by applying ratios	Analyze	
8					CO5	Apply traditional and modern techniques of capital budgeting in longterm investments, to test whether to	Apply			
			F 128933	1	COI	Handle Technical communication effectively by overcoming barriers of communication.	Remember			
1		SHS	cati	hree	CO2	Use different types of Professional correspondence to	Understand			
V SEM	9	SHS503HS	Effective Technical Communucation	Ms.Jayashree	CO3	Use different types of business and Interoffice	Analyze			
S		H9	fecti	Ms]	CO4	Aquire adequate skills to draft reports efficiently.	Evaluate			
			留口		CO5	Enhance their skills of information transfer.	Apply			
					COI	Demonstrate the concepts of Disaster Management, Role of NDMA in Disaster Management	Rememberin g &			
			gation	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			
			Disast	2	CO4	Illustrate the acts and policies of disaster management in India	Understanding			
					CO5	Explain the concepts of communication and public	Understanding			

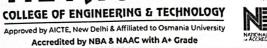


V-SEMESTER - BE CO-PO Matrix for ACADEMIC YEAR 2023-24

SN O	Code	subject	Name of the faculty	COs	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	Understandin				
		ence				CO2	Analyzing different searching algorithms and game playing programs to solve given problems.	Analyzing		
∞	OE	Artificial Intelligence	Dr. Shruthi	CO3	Apply basic principles of AI in solutions that require problem solving, inference, perception, planning, knowledge representation, and learning.	Applying				
		Artific		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	ıraj	CO1	Use Vernier callipers, height gauges, inside, outside, and depth micrometers to apply measurement principles and techniques.	Apply				
	E		ine Tool	nine Tool	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	6PC556ME		and Mac	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				
		etrology	fr. Abdul	CO4	Accurately and successfully apply shaping, drilling, gear cutting, thread cutting, and lathe machine operations to	Apply				
		Me	2	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				
10	ME	CAD/CAM Lab	Lab	Lab	Lab	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.	
	6PC557ME		Shazia	CO4	Interpret and calculate limits, suggest suitable fits for mating parts, and detect interference in assemblies.	Understand				
	9		Mrs. S	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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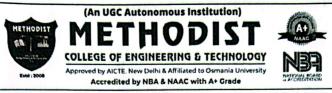
DEPARTMENT OF MECHANICAL ENGINEERING

SN O	Code	subject	Name of the faculty	COs	Course Outcomes	Taxonomy					
				COI	To improve and develop technical abilities.	Apply					
11			zal	CO2	To put into practice the theoretical knowledge they have learned in their classes.	Apply					
	6PW551ME	Internship	Mr. Abdul Fazal	CO3	To acquire practical abilities pertinent to their academic programs.	Apply					
	Md9	oent Lab -2	Inte	Inte	Inte	Inte	Inte	Inte	Inte	CO4	To acquire knowledge relevant to their academic courses that is industry-specific.
				CO5	To cooperate and communicate professionally with co-workers, managers, and business associates.	Evaluate					
			u	CO1	Recall & Gain insights into the professional aspects of mechanical engineering.	Rememberin g					
	52		Dr. Md Fakhruddin	CO2	Hands-on experience experimenting with tools, equipment, and software used in the industry.	Analysing					
12.0	6MC5:		Ad Fak	CO3	Collaborate, communicate & Illustrate ideas, and work effectively as part of a team.	Understandin g					
		kill De	Dr. N	CO4	Improve the critical thinking abilities and adapt to the evolving demands of the industry.	Creating					
		S		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.



S	Co		Family		MESTER - BE CO- PO Matrix FOR A.Y :2023-2024	Taxonomy				
S No	de	subject	Faculty Name	CO No.	Course Outcomes	Level				
*				COI	State the function of springs, gears, Bearings, IC Engine parts and theory of bending of members with initial curvature	Remembering				
		Machine Design	_	CO2	Summarize the Materials for springs, Gears, Bearings, IC Engine components, Rope and Chain drives	Understanding				
1	413 ME		Dr. M Prasad	CO3	Select Various types of Springs ,Bearing, Gear drives and, drive systems for specific applications	Applying				
	PC 4	Machin	Dr. M	CO4	Analyze Helical coil springs, leaf springs Gear and Chain drives, IC Engine components for mechanical systems	Analyzing				
		7		CO5	Determine the design procedure for Helical coil springs, leaf springs Gear and Chain drives, IC Engine components for various mechanical systems	Evaluating				
				COI	Explain cutting tool material, chip formation, source of heat distribution, cutting fluids, tool wear in metal cutting operation	Understanding				
2	414 ME	Metal Cutting and Machine Tools	Metal Cutting and Machine Tools	ols	slo	sools	7, -	CO2	Demonstrate the working principle of machine tool, grinding machine, abrasive, bonds used for grinding and selection of grinding wheel, threading applicationand jig and fixtures in work place.	Understanding
				Dr. Prabhuraj	CO3	Analyse the Tool Geometry and Nomenclature of single point cutting tool by ASA & ORS systems and Geometry of drilling, milling cutters for Optimum Cutting Speeds for maximum production rate and minimum cost in manufacturing industry. analyse the Gear shaping, Gear hobbing, Gear shaving and grinding in manufcturing industry.	Analyzing			
	PC 4			etal Cutting a	Dr. P	CO4	Make use of knowledge of Mechanics of metal cutting, Merchant 's analysis, Shear angle, Solutions of Merchant and Lee & Shafer in industry, Tool life & Machinability, Machinability index. Taylor's tool life equation in real time application	Applying		
					CO5	Apply the knowledge of Drilling, Milling and Boring, Indexing methods, Quick return mechanisms in shaping industry, Broaching, Lapping, Honing, Polishing, Buffing, Super Finishing and Burnishing, Screws and Gear Manufacturing, Tapping, Jigs and Fixtures in work place and UCMP principles.	Applying			
	i e			COI	Formulating the local stiffness matrix into global stiffness matrix, Summarise the basic elasticity equations, analyse the one dimensional elements using minimum potential energy equation.	Creating				
		nalysis	ar	CO2	Analyze the truck element frames and beam elements along with	Analyzing				
3	415 ME	nent Ar	Mr. G Bhaskar	соз	Analyse the two-dimensional by using CST in natural coordinate system, Axi-symmetric bodies and	Analyzing				
	PC 4	Finite Element Analysis	Mr. G	CO4	Analyse the two -dimensional four nodel iso-parametric element, the heat transfer in one & two dimensional under the steady and unsteady state conditions and torsional circular shafts.	Analyzing				
		H		CO5	Formulate the mass & stiffness matrices of one dimensional beam elements eigen values and eigen vectors using Langarangian and Hemilton principles	Creating				



VI SEMESTER - BE CO- PO Matrix FOR A.Y :2023-2024

			and the second second second	And the same of th	VI SE	MESTER - BE CO- PO Matrix FOR A.Y :2023-2024											
	S No	Co de	subject	Faculty Name	CO No.	Course Outcomes	Taxonomy Level										
			ement		CO1	Understand the different types of production systems and their characteristics, as well as the factors that influence plant location and layout decisions.	Understanding										
		(*)	ns Manage	nya	CO2	Understand of the principles of work study, including method study and work measurement. Apply standard time calculations, select appropriate methods of rating, and use work sampling to improve work processes.	Understanding										
	4	522 ME	eratior	Sowjaı	CO3	Apply various forecasting techniques to predict demand patterns using both qualitative and quantitative methods.	Applying										
		PE 5	Production and Operations Management	Mrs. I. Sowjanya	CO4	Understand of Materials Requirement Planning (MRP), including its importance, inputs, outputs, and calculations and also gain knowledge of Manufacturing Resource Planning (MRP 2) and Enterprise Resource Planning (ERP)	Understanding										
		Produ		CO5	Apply the principles of project management to develop network diagrams, differentiate between PERT and CPM, schedule activities using review technique	Applying											
				Z.	Z.	CO1	Identify the various sources of energy for power generation and explain the working of various sub systems such as coal handling, ash handling in a steam power plant.	Apply(2)									
VI SEM		int Engg.	Power Plant Engg.	ant Engg.	Dr. MD. Fakhruddin H.N	CO2	Combustion process descriptions and the various sub systems in air and gas circuit, feed water and cooling water circuit and the working of gas turbine power plants.	Understand(1)									
>	5	PE 533	wer Pla	D. Fak	соз	Descriptions of the working of a hydro power plant & Nuclear power plant	Understand(1)										
			Po	Dr. MI	Dr. MI	M	M	∑	Ī	∑	X	Σ	Σ	Σ	CO4	Describe the working of a nuclear power plant and hazard involved	Understand(1)
						CO5	Estimate the cost of power generation and the environmental effects of various power plants.	Evaluate(3)									
		-			CO1	Explain the terms and concepts of disaster management	Remembering & Understanding										
					CO2	Summarize the catergories of disasters and their characteristics, mitigative measures	Understanding										
		CE	tigation	otsna	CO3	Discuss the framework and measures of pre-disaster, during disaster, post- disaster measures	Understanding										
	6	OE 601	Disaster Mitigation	Ms. P. Jyotsna	CO4	Interpret the Indian Disaster Management acts and it's framework	Understanding										
			Ď		COS	Describe the application of various technologies to disaster management.	Understanding										

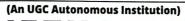


VI SEMESTER	- BE CO- PO	Matrix FOR	A.Y:2023-2024
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			1	VISE	MESTER - BE CO- PO Matrix FOR A.Y :2023-2024								
S No	Co de	subject	Faculty Name	CO No.	Course Outcomes	Taxonomy Level							
		gence		100	Introduction to Artificial Intelligence, its applications and Problem solving techniques. Also the knowledge representation methods, Planning, Expert systems and their algorithms in AI	Understanding							
		Principles of Artificial Intelligence	been	CO2	Analyzing different searching algorithms and game playing programs to solve given problems.	Analyzing							
7	OE61		Mrs. Shaziya Jabeen	ıziya Ja	ziya Jal	ziya Jal	ziya Ja	ıziya Ja	CO3	Apply basic principles of AI in solutions that require problem solving, inference, perception, planning, knowledge representation, and learning.	Analyzing		
	3	nciples of Ar		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							
		Prii		CO5	To explore the understanding of agent based AI Planning ,logical based agents and Expert systems	Creating							
	achine	ine	Sowjanya Prabhuraj	COI	Identify and use various instruments for external, internal and angular measurements	Applying							
		achi		Mrs. I. Sowjanya / Dr. Prabhuraj	ıya aj	ıya aj	nya raj	anya uraj	nya aj	nya aj	nya raj	CO2	Apply the principles of optical measurements in measuring the screw.
8	PC 458 ME	ogy and M Tools Lab			CO3	Identify and use various types of force and temperature measurement instruments/tools.	Applying						
	PC 4	Metrology and Machine Tools Lab	Mrs. I. / Dr. F	CO4	Apply the knowledge of metal cutting principles to perform various machine tool operations.	Applying							
		Met		CO5	Determine Shear angle, cutting forces, temperatures and tool life in metal cutting processes	Evaluating							
		led ab	ıaskar	COI	classify different types of beams and truss element to perform static analysis	analyzing							
1	ME	Aid ng L		CO2	classify different types of meshing	analyzing							
9	C 459 ME	Computer Aided Engineering Lab	Mr. G. Bhaskar	CO3	analyze the stress and deformations of axi-symmetric bodies and connecting rod	analyzing							
	PC	Con	M	CO4	predict natural frequencies in case of critical load condition.	Creating							
	1			CO5	Control of the Contro	analyzing							
				ĆOI	Explain and identify various materials, processes, products and their applications and limitations.	Understand							
	П	ghip	khar	CO2	Apply the fundamental and advanced Technical / Engineering knowledge in real industrial situations.	Apply							
10	PW 701 ME	Summer Internship	Dr. A. Rajasekhar	CO3	problems.								
	d		D.	CO4	Explain the social, economic and administrative considerations that influence the working environment of industrial organizations.	Evaluate							
				CO5	Explain and sharpen the real time technical / managerial skills required to meet the industry needs.	Understand							

Dept. Assessment Coordinator Head of the Departmen

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





METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY



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DEPARTMENT OF MECHANICAL ENGINEERING

CNI			Name of		CO-PO Matrix for ACADEMIC YEAR 2023-24								
SN O	Code	subject	the faculty	COs	Course Outcomes	Taxonomy							
		1		CO1	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							
			ч	rch	ų		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							
	H ₈	Operati	M	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	d.	CO1	List various types of refrigerants, refrigeration cycles, Psychometric properties and Air Conditioning Systems	Remember							
			Refrigiration and Air Conditioning	PC417ME Refrigiration and Air Conditioning	PC417ME Refrigiration and Air Conditioning	nditioning	ditioning	ditioning	ditioning		CO2	Summarize refrigerants CFC and HFC types, refrigeration cycles, Psychometric properties and Air Conditioning Systems	Understand
2	17ME					l P rasad	CO3	Choose refrigerants, refrigeration cycles, Psychometric properties and Air Conditioning Systems systems based on applications	Apply				
	PC4					Refrigiration 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			
							Refrigi	Refrigi	Refrigi	Refrigi	Refrig	Refrigi	Refrigi
		iri		COI	Understand the importance of automation in the field of manufacturing.	Understand							
	(7)	ıufactu	ınya	CO2	Apply the various concepts of CAD and Numerical control machines.	Apply							
2	W9	ma) Wj	CO3	Apply the concepts of CAM and CNC machining.	Apply							
3	PC410	PC416ME Automation in manufacturin	Mrs. I Sowjanya	CO4	Understand the concepts of Additive Manufacturing Technologies.	Understan							
			×	CO5	Understand the concepts of pneumatics & hydraulics systems and controls, and various elements of Flexible Manufacturing System.	Understan							





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DEPARTMENT OF MECHANICAL ENGINEERING

VII-SEMESTER -	BE CO-PO Matrix	for ACADEMIC	YEAR 2023-24
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			k;		COI	Interpret the features of 3D printing technology, its advantages, disadvantages, its applications and comparision with conventional manufacturing methods.	Understand
		PE541ME	3D Printing Technology	Mrs Shazia Anwar	CO2	Illustrate the operating principles ,capabilities and limitations of liquid, solid and powder based3D printing technologies.	Understand
	4		inting	s Shazi	CO3	Categorize different data formats, softwares used for 3D printing technology and list the errors in STL format.	Analyze
			3D Pr	Mr	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
Ī		CE	8		CO1	Comprehend core principles of green building and sustainable development.	Understand
			GBT- Green Building Technology	ınth	CO2	Apply strategies to minimize environmental impact through site planning.	Apply
	5	PE520CE		rika	CO3	Implement conservation techniques for water and energy.	Apply
		PE		R. Srikanth	CO4	Choose materials for construction with low embodied energy and sustainable sourcing.	Apply
			Ü		CO5	Apply strategies for improving indoor environmental quality.	Apply
		OE	Non Conventional Energy Sources		CO1	List and Compare the various forms of non conventional energy resources and analyze the different Fuel cells with applications of fuel cells	Analyze
				Babu	CO2	Explain the solar energy applications and calculations of solar energy	Analyze
	6			Mr.Ramesh Babu	CO3	Analyzing how wind energy can be tapped from the nature and its calculations	Analyze
				Mr.R	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
İ					CO1	Clear understanding of liquid penetrant inspection and magnetic particle inspection.	Creating
			Testing	din	CO2	View and interpret radiographs, utilize the various principles of radiography for different components of different shapes.	Understandin g
	8	PE551ME	Non Destructive Testing	Fakrud	СОЗ	Knowledge of acoustic emission for NDT and the instrumentation used for NDT.	Analysing
		PES	ı Destn	Dr.Md.Fakruddin	CO4	Ability to analyze quality control and prepare a technical report.	Identifying
			Non		CO5	Knowledge of latest research, developments and trends in NDT.	Evaluating



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DEPARTMENT OF MECHANICAL ENGINEERING

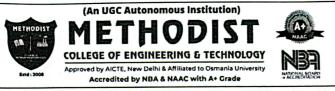
			DEPAI	KIMENI	OF MECHANICAL ENGINEERING	and the second
A Maria		VII	-SEMESTE	R - BE C	CO-PO Matrix for ACADEMIC YEAR 2023-24	La company and the
		ab		CO1	Develop tool path simulations for a given step turning and face turning scenario using computer-aided design (CAD) software.	Apply
	6 PC460ME	ation I	nya	CO2	Apply knowledge of drilling depths and lathe controls to execute a combined drilling and grooving operation.	Apply
9		CAM and Automation Lab	Mrs. Sowjanya	CO3	Generate tool path simulations for a given scenario involving multiple machining operations using CNC programming.	Apply
		AM aı	2	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
-		100		CO1	Adapt the attitude of writing reviews on the literature	Create
	(11)	K I	maı	CO2	Develop practical & professional skills	Apply
	W	Nor	aku	CO3	Apply the tools and technicals of documentations	Apply
1	PW702ME	sct /	ct V	CO4	Make use of the Team work	Apply
	PW	Project Work	Dr. Udayakumar	CO5	Develop to the industrial practice and Research Practices, Innovative and entrapranuer ideas	Apply

Dept. Assessment Coordinator

of the Department

HOD

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



VIII SEMESTER - BE CO-PO Matrix FOR A.Y :2023-2024

	S N o	Code	sub ject	Name of the faculty	CO No.	Course Outcomes	Taxonomy Level					
					COI	Demonstrate the working principle, steam power plant layout, types of coals, coal & ash handling system.	Understanding					
			eering		CO2	Illustrate feeding and burning of coal, comprehend the basic working principle of steam power plant and gas turbine power plant	Understanding					
	1	PE 813 ME	Power Plant Engineering	G. Bhaskar	CO3	Identify types of dams & spillways, working principle of hydro power plant, hydrology	Applying					
-		PE	wer Pla	G.	CO4	Explain the working principle of nuclear fission, types of power plants & reactors	Understanding					
7			Pe		CO5	solve the power plant economy factors, load factors, illustrate the methods to control of pollutants emitted by fossile fuel used in power plants and its safety aspects of power plant operation	Applying					
		PE823ME			CO1	Explain the Indian industrial environment, opportunities and challenges of women entrepreneur in enterprise, first-generation entrepreneur, project financing in india and Motivational aspects.	Understanding					
			lopment		CO2	Identify the characteristics of entrepreneurs, importance of linkage among small- medium and heavy industry, collaborative interaction for technology development and Human aspects of project management	Applying					
	2		Entreprenuership Development	Dr. Prabhu Raj	CO3	Demonstrate the principle of project formulation, market demand, Financial, profitability analysis, Project Management during construction phase in organization and behavioral aspects of entrepreneurs.	Analyzing					
			Entreprer		CO4	Evaluate the technical feasibility of a project management, conception and evaluation of ideas and their sources, CPM & PERT techniques and explain the tax assessment burden.	Evaluating					
										CO5	Make use of Knowledge of Personality determinants, attributes, Leadership concepts and models, values and attitudes and motivation aspects and Time Management principles.	Applying
Σ			g		COI	Explain scenario of road safety in world, accident characteristics, causes, investigation techniques, data collection, analysis and preventive measures	Understandin					
VIII SEM			ngineerir	VAIK	CO2	Explain Traffic Engineering studies, Characteristics, management measures and their influence on road safety	Understandin					
	3	OE801CE	Road Safety Engineering	D. BHARATH NAIK	CO3	Explain road safety in planning, designing, equipments used for construction during construction, at construction site and devices used for protection	Understandin					
			RSE- Roa	D. Bl	CO4	Explain Functioning and factors affecting the traffic Signals, road signs and pavement markings	Understandin					
		47 3	Ž		CO5	Expalin road safety audit process, strategies and ITS	Understandin					

				CO1	Demonstrate the ability to synthesize the knowledge and skills acquired in the academic program to the real-world problems	Understanding
		п	Dr. MD. FAKHRUDDIN H.N	CO2	Apply the knowledge and skills acquired in the academic program to the real-world problems	Applying
4	PW703ME	Project Work-		соз	Evaluate different solutions based on economic and technical feasibility	Evaluating
	PW	Proje		CO4	Effectively plan a project and confidently perform all aspects of project management	Applying
				CO5	Demonstrate effective written and oral communication skills	Understanding
		nergy	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
-	贸	nal E	nesh	CO2	Explain the solar energy applications and calculations of solar energy	Analyze
5	DE701EE	Non Conventional Energy Sources	Mr.Jarapala Ramesh Babu	CO3	Analyzing how wind energy can be tapped from the nature and its calculations	Analyze
		Con	ırap	CO4	Illustrate the concepts of Geothermal ,Wave, Tidal energy & OTEC	Understand
		Non	Mr. Ja	CO5	Outline the Biogas & Biomass, its mechanism of production of energy and its applications	Understand

Dept. Assessment Coordinator

H.O.D.

Mechanical Engineering Department
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King Koti, Hyderabad-500 001.



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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2023-24 ODD SEMESTER COURSE OUTCOMES SUMMARY

MBA I SEMESTER - Autonomous

S.No	Course Code	Course Name	Course Instructor	CO No	Course Outcome	Taxonomy Level
		Management & Organizational Behaviour		CO1	To understand the evolution and principles of management through classical and modern approaches.	Understand
	MB101C)rganiz our	wathi	CO2	decision-making skills under different scenarios.	Apply
1		ent & Orga Behaviour	Mrs.A.Swathi	CO3	personality traits, perception, and motivation theories.	Analyze
		lageme	Σ	CO4	styles for effective team-building and conflict resolution.	Analyze
		Mar	4	CO5	including stress management, change management, and organizational culture.	Evaluate
		ment		CO1	To Understand the Nature and Scope of Financial Accounting	Understand
	MB102C	Accounting for Management	ounting for Managen	CO2	To Determine the Trading, Profit & Loss A/c and Balance Sheet	Determine
2			ubena	CO3	To Analyze the Financial Statements – Classify the Ratios	Analyze
			Accounting Mrs.Ro	CO4	To Categorize the Cash Flow Statement – the utility of Cash Flow Statements	Categorise
		Acco		CO5	To Classify different Costs – Fixed & Variable Costs – Break –Even Point & P/V Ratio	Classify
			M. C.	CO1	Evaluate the relevance of marketing concepts impact on environmental change while designing marketing plans, strategies and	Evaluate
		gement	Dr.S.Sujatha	CO2	Develop marketing strategies based on segmentation, target marketing and positioning by examining consumer behaviour.	Develop
3	MB103C	Marketing Management		СОЗ	Ability to summarize the unique marketing mixes and selling propositions for specific product offerings and pricing objectives.	Understand
3		Marketi D _l		Develop and apply knowledge to create integrated marketing communication strategies and distribution strategies.	Apply	
					Ability to analyse marketing control techniques and can understand strategies related to rural, global and services marketing areas.	Analyze

		ıt		CO1	Understand the concept and applications of probability in the management	Understand
	MB104C	Statistics for Management	avi	CO2	To classify different types of random variables and probability distributions	Classify
4			Mrs.G.Madhavi	CO3	Understand the concept of sampling theory and develop the solutions of problems in management	Understand
	N	istics fo	Mrs.(CO4	Apply small sample tests and the ANOVA test for specified population problems	Apply
		Stati		CO5	To determine the coefficient of correlation and regression, use the concept of correlation and regression analysis	Examine
		S		CO1	Demonstrate an understanding of the legal aspects of business.	Demonstrate
	S	& Ethi	lhavi	CO2	Apply basic legal knowledge to business transactions.	Apply
5	MB105C	Business Law & Ethics	Mrs.G.Madhavi	CO3	Examine the importance of the legal system with respect to business.	Examine
	4		Mrs	CO4	Integrate the concept of ethics & value based considerations in business.	Integrate
				CO5	To Understand the role of managers in the firms	Estimate
		IT Applications for Management		CO1	To summarize the concepts and classify the categories of Information systems.	Understand
			п	CO2	To apply the technology infrastructure of computer hardware & software.	Apply
6	MB106C		Mr.D.Srinu	CO3	To apply the basic knowledge of database connectivity.	Apply
	M		Mr.	CO4	To apply different types of inter-organizational systems.	Apply
				CO5	To take measures to solve the problems relate to information security and laws.	Apply
		ices		CO1	To understand the structure of Indian financial m	Understand
	æ	Financial Markets & Services	avani	CO2	To analyze concepts and innovations in financial services.	Analyze
7	MB107E.a	ırkets	Mrs.A.Brundavani	CO3	To evaluate merchant banking roles and SEBI regulations.	Evaluate
	MI	cial M	Mrs.A.	CO4	To assess leasing and hire-purchasing mechanisms.	Evaluate
		Finan		CO5	To examine factoring, bill discounting, and credit rating services.	Analyze

		tion		CO1	To acquire the requisite knowledge about the fundamentals of communication skills	Understand
	q.	Communication	Sunder	CO2	To study how to write business letters, reports and other business correspondence	Understand
8	MB107E.b			CO3	viz Presentation Skills, Group Discussions and Negotiation	Apply
	Σ	Managerial	Mr.C.Shyam	CO4	To acquire knowledge about various types of interviews	Create
		Мап		CO5	etiquittes in order to handle day-to-day managerial responsibilities	Analyze

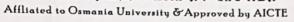
Assessment Coordinator

Department of Business Management, Methodist College of Engineering & Technology, Abids, Hyderabad-500 001 (T.S.) India



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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2023-24 ODD SEMESTER COURSE OUTCOMES SUMMARY

MBA III SEMESTER - Autonomous

S.No	Course	Course	Course	CO No	Course Outcome	Taxonomy		
3.110	Code	Name	Instructor	CONO	Course Outcome	Level		
		ııt		CO1	To understand features of operations & production, and types of processes	Understand		
		адеше	Rani	CO2	sequencing, capacity & maintenance management	Understand		
1	MB301	ıs Man	Mrs.G.Shiba Rani	CO3	To analyze work study techniques & service management	Analyze		
		Operations Management	Mrs.G	CO4	To understand need & importance of material in manufacturing firms	Understand		
		do		CO5	To analyze stores functions & inventory models	Analyze		
				CO1	To understand E-business basic development and contribution to society	Understand		
	8	SS	Rani	CO2	Technologies in E-business, Social consequences	Classify		
2	MB302	MB502	Mrs.G.Shiba Rani	CO3	Understand the concept of Digital marketing, CRM, Tools	Understand		
			펀	구	구	7	Mrs.C	CO4
				CO5	To understand the components of distribution system, E-payment	Understand		
		Entrepreneurship Development		CO1	Understand the foundational concepts of entrepreneurship, including its role in	Understand		
	1 2		ihi	CO2	Analyze the steps involved in identifying oppo	Analyze		
3	MB303		Mrs.A.Swathi	CO3	Apply knowledge to develop effective business plans and strategies for startups.	Apply		
	2		Mrs	CO4	Evaluate different financing options and growth strategies for entrepreneurial	Evaluate		
				CO5	Understand the social responsibilities and ethical dimensions of entrepreneurship.	Understand		
		Territoria de la companya della companya della companya de la companya della comp		CO1	To Understand higher level skill in Global business	Understand		
4		MB304 Global Business Management	ha	CO2	To Analyse changes towards Global business environment	Analyze		
	MB304		less Ma	Dr.S.Sujatha	CO3	To Understand problems of global marketing	Understand	
	2	d Busir	Dr.	CO4	To Apply strategies of global market entry	Apply		
		Globa		CO5	To attain the knowledge international industries & markets	Understand		

		nt		CO1	Financial Assets – Investment Decision Process	Understand
5	F-I	Investment Management	Mrs.Roubena Sultana	CO2	To Analyze the Fixed Income Securities and their Valuation and Management	Analyze
	MB305E-F-I			CO3	To Identify the Common Stocks and to Construct the Security Market Indexes	Identify
		estme	Mrs.Ro	CO4	To Analyze the Concept of Portfolio – and Construct the minimum Risk Portfolio	Analyze
		Į	-	CO5	To Evaluate Performance of Mutual Funds – Problems & Prospects in India	Evaluate
	9 MB305E-F-II	43		CO1	To understand international financial systems and institutions.	Understand
		Tinance	Mrs.A.Brndavani	CO2	To analyze foreign exchange markets and exchange rates.	Analyze
6		International Finance		CO3	To evaluate exchange rate theories and risk management.	Evaluate
				CO4	To assess multinational corporate financial decisions.	Evaluate
				CO5	To examine international taxation and transfer pricing.	Analyze
	R-I	Industrial Relations & Labour Laws	Mrs.G.Madhavi	CO1	To Understand Industrial relations & Labour laws	Understand
				havi	CO2	To Analyse Industrial disputes & resolutions
7	MB305E-HR-I			CO3	To Understand trade unionism & legal framework	Understand
	MB3			CO4	To Summarise the labour legislation in India	Analyze
		Indust		CO5	To Summarise the important provisions of wage legislation & women	Analyze
		ent		CO1	Understand the fundamental concepts, processes, and importance of organization	Understand
	R-II	elopmo	thi	CO2	Analyze organizational challenges using diagnostic tools and methods.	Analyze
8)5Е-Н	MB305E-HR-II Organisation Development	Mrs.A.Swathi	CO3	Apply various OD interventions to manage change effectively.	Apply
	MB3(Mrs.	CO4	Evaluate the role of leadership in facilitating organizational change and development.	Evaluate
			Orga		CO5	Explore emerging trends and innovations in organization development practices.

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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2023-24 EVEN SEMESTER COURSE OUTCOMES SUMMARY

MBA II SEMESTER - Autonomous

S.No	Course	Course	Course	A THE ST	ESTER - Autonomous		
2.140	Code	Name	Instructor	CO No	Course Outcome	Taxonomy Level	
1	MB201C	Human Resource Management	Mrs.A.Swathi	CO1	Understand the evolution, functions, and strategic alignment of HRM with corporate	Understand	
				CO2	Develop the ability to design and evaluate jobs, workforce planning, and recruitment strategies	Apply	
				CO3	Gain insights into training methodologies and career development frameworks for workforce	Analyze	
				CO4	Learn to implement HR systems that enhance employee engagement, grievance redressal, and	Apply	
				CO5	Explore contemporary HR practices like diversity, inclusivity, HR analytics, and global	Evaluate	
	MB202C	Financial Mangement	Mrs.A.Brndavani	CO1	To understand the finance function, risk-return trade-off, and time value of money.	Understand	
				CO2	To evaluate the investment decision process and capital budgeting under risk.	Evaluate	
2				CO3	To analyze financing decisions, capital structure, and cost of capital.	Analyze	
				CO4	To assess current assets management and dividend decision theories.	Evaluate	
				CO5	To examine corporate restructuring, mergers, and corporate governance.	Analyze	
	MB203C	Operations Research	Mrs.I.Sowjanya	CO1	To understand definition, scope, objectives, phases, models & limitations of operations	Understand	
3				CO2	To apply the primal and dual relationships by adapting to other models.	Apply	
				CO3	To apply different application areas of operations research like transportation problem,	Apply	
				CO4	To identify the resources project and generate a plan and work schedule.	Analyze	
				CO5	To analyze the usage of game theory, Queuing theory and simulation for solving business	Analyze	
	MB204C	MB204C Total Quality Management	Rani	CO1	To understand the fundamental principles of TQM	Understand	
4				CO2	To choose appropriate TQM Tools for improving processes & quality	Choose	
			Quality Manage	.Shiba	CO3	To choose appropriate TQM Technique for improving processes & quality	Choose
			Mrs.G	CO4	To understand concept of six sigma & apply six sigma problem solving tools	Understand	
				CO5 To c	To construct TQM in service sectors	Construct	

5	MB205C	Business Research Methods	THE ST	CO1	To categorise the methods involved in analyzing the business outcomes.	Analyze					
			Mrs.G.Madhavi	CO2	To demonstrate the ability to collect data from various sources for the purposes of research.	Demonstrate					
				CO3	To Classify the quality of data collected by analysis, scaling and probability	Classify					
				CO4	To be able to evaluate by cause and efect the correlation and a mathematical expression by	Evaluate					
				CO5	To be able to apply the Business research Methods for the solution of problems in	Apply					
6	MB206C	Economics For Managers	Mrs.Roubena Sultana	CO1	To Understand the role of managers in the firms	Understand					
				CO2	Understand the demand & supply conditions of the firm	Analyze					
				CO3	To Interpret production function, economies & diseconomies of scale, cost analysis	Construct					
				CO4	To understand market structure & pricing practices	Apply					
				CO5	Understand the concept of National income, Inflation & its effect on trade	Understand					
7	MB207E.a	Innovation Management	Mr.C.Shyam Sunder	CO1	To gain the conceptual clarity on the basic concepts of R & D	Understand					
				CO2	To define budget allocations for R & D projects in organization.	Remember					
				Mr.C.Shyam S	Mr.C.Shyam S	Mr.C.Shyam S	Mr.C.Shyam S	Mr.C.Shyam S	CO3	To understand effective R & D Management and evaluating progress	Understand
									Mr.C.S	Mr.C.Sl	Mr.C.Sl
				CO5	To learn about innovation within the organization and impact of IT on innovation	Understand					
8	MB207E.b	Customer Relationship Management		CO1	It focuses on the holistic understanding of customer relationship management and gives a	Understand					
			Customer Relationship Management Dr.S.Sujatha	CO2	To Analyse, acquaint, understand and describe a customer relationship management	Analyze					
				Customer Relati Manageme Dr.S.Sujath	CO3	To provide real-time insights into the successfully implemented CRM in various	Analyze				
					CO4	To Create Awareness in implementation of CRM by understanding the end users and to	Remember				
					Cm	Cm	Ö	CO5	To study how CRM allowed for decision making, evolved relationships to a higher level	Understand	

AssessmentCoordinator

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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2023-24 EVEN SEMESTER COURSE OUTCOMES SUMMARY

MBA IV SEMESTER - Autonomous

S.No	Course Code	Course Name	Course Instructor	CO No	Course Outcome	Taxonomy Level	
1	MB401C	Strategic Management	Mrs.G.Madhavi	CO1	concept of Strategy & Strategic Management Process.	Formulate	
				CO2	Formulate the Vision, Mission statements and define goals, objectives for organizations.	Analyse	
				CO3	Analyze role of environment for strategy formulation.	Determine	
				CO4	Determine the alternatives for strategy formulation & sustenance.	Identify	
				CO5	Identify strategy implementation procedures coupled with corporate ethics.	Understand	
2	MB402C	Business Intelligence	Mrs.G.Madhavi	CO1	To Understand the History, Evolution, Styles & Benefits of Business Intelligence	Classify	
				CO2	To Classify the Data Warehousing and Data Mining Approaches and Applications	Compare	
				CO3	Measurement (BPM) and Business Intelligence	Classify	
				CO4	To Classify Business Analytics and Data Visualization	Summarize	
				CO5	To Summarize Business Intelligence Implementation	Understand	
		Supply Chain Management Mrs.G.Shiba Rani		CO1	Understand basic and fundamentals of supply chain management	Summarize	
3	MB403C Supply Chain Managem			CO2	To summarize logistics management & Inventory management	Understand	
				CO3	Understand the role of Transportation & Warehousing	Analyze	
			M ply Ch	Mrs.G	CO4	Analyze role of Information technology in SCM	Understand
			CO5	Understand key operation aspects like Distributors, HR in Supply Chain	Understand		
	MB404C-F-I	MB404C-F-I Financial Risk Management	ient	CO1	Illustrate Risk Management Process – pre- requisites	Understand	
4			Mrs.Roubena Sultana	CO2	To Construct the Value at Risk (VaR) and Cash Flow at Risk	Examine	
			isk Ma	CO3	Management – Forwards and Future Contracts	Identify	
			rcial Ri	CO4	To Compare the different types of Swaps – Interest Rate Swaps & Currency Swaps	Evaluate	
		Finar	4	CO5	To Apply the Techniques and Tools of Risk Management – Options on Stock Indices	Apply	

5	MB404C-F-II	Banking & Insurance	Itana	CO1	To understad the structure of banking &	Understand
					insurance business in India.	
				CO2	To examine the products & services in Banking & Insurance.	Examine
			ı Su		To identify the regulation & innovations in	71 .10
			Mrs.Roubena Sultana	CO3	the banking system.	Identify
				CO4	To evaluate the potential of Insurance	Evaluate
					business in India.	
				CO5	advanced banking and insurance services to	Propose
					the customers.	Торозс
	MB404C-HR-I	Leadership & Change Mangement	Mr.C.Shyam Sunder	CO1	To understand the basic concepts of	Understanding
				COI	leadership and personality types.	
				CO2	To acquire knowledge and understanding of	Understanding
					different leadership styles and models.	
6				CO3	To define various change process models for	Remembering
			.Sh	CO4	organizational change. To familiarize with the drivers, methods and	Understanding
			Mr.C		model of change.	
					To define various methods and models of	Remembering
				CO5	change management.	Kememoering
	MB404C-HR-II	MB404C-HR-II Performance Management		CO1	Understand the scope, process, and	Understand
					importance of performance management in	
					organizations.	
7				CO2	Apply various performance appraisal methods	Apply
			hi		and tools for effective employee evaluation.	
			s.A.Swathi		Analyze performance metrics to set	
			A.S		benchmarks and evaluate organizational	
			Mrs		success.	3 3
				CO4	Develop competency frameworks and link	Create
				004	performance to compensation strategies.	
1 4				00-	Evaluate various performance management	Evaluate
					models and their application in achieving organizational goals.	Evaluate
					organizational goals.	

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