

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







Estd: 2008

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

	COURSE OUT	COMES		I SEMESTER	
	Course Name Faculty Name		CO/PO	Course Outcomes	Taxonomy
			3ES101CS,I	Formulate simple algorithms for arithmetic and logical problem; Translate the algorithms to programs	Understand
	ROGRAMMING FOR PROBLEM SOLVING		3ES101CS.2	Test and execute the programs and correct syntax and logical errors	Apply
		Mrs. Deepthi Joshi	3ES101CS,3	Implement conditional branching, iteration and recursion	Evaluate
			3E\$101CS,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	Anlyze
			3ES101CS.5	Construct recursive programs and use structures to formulate algorithms and programs	Create
		Mrs. Deepthi	3ES102CS.1	Choose appropriate data type for implementing programs in C language	Create
			3ES102CS.2	Design and implement modular programs involving input output operations, decision making and looping constructs	Understand
	PROGRAMMING FOR PROBLEM SOLVING LAB		3ES102CS.3	Apply the concept of arrays, pointers for implementing programs and string handling	Create
	SOLVINGEAR		3ES102CS.4	Design and implement programs to store data in structures and files	Understand
1			3ES102CS.5	Develop confidence for self education and ability for life long learning need for computer languages	Apply

ASSESSMENT COMMITTEE

Dept. of Computer Science Methodist College of Engg. 9 Trich ting Ketl, Hyderabad

regal of the Department Department of CSE

Methodist College - Figg & Tech Abids, Hyderabad.









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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE O	UTCOMES		II SEMESTER	AY:2022-23	
Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy	
		3ES202CS.1	Analyze the complexities of recursive and Non recursive algorithms.	Analyze	
	SASAYATISA SAATILII KA	3ES202CS.2	Apply the concepts of dynamic memory allocation for reducing the time and space complexity of algorithms.	Apply	
Data Structures	Mr Senthil Kumar/ Mr Shaik Rasool / Mr T Vijay Kumar	3ES202CS.3	Apply ADT concepts such as arrays, stacks and queues for solving infix to post fix, postfix evaluation.	Evaluate	
		3ES202CS.4	Design and implement the Non linear data structures trees to optimize the solution	Create	
		3ES202CS.5	Implement linear, binary, hashing searching techniques and sorting techniques	Apply	
		3ES252CS.1	Understand and implement the abstract data type and reusability of a particular data structure.	Remember	
	E5/2 (48/4) 7	3E\$252C\$.2	Implement linear data structures such as stacks, queues using array and linked list.	Understand	
Data Structures Lab	Mr Shaik Rasool / Mr T Vijay Kumar	3ES252CS 3	Understand and implements non-linear data structures such as trees, graphs.	Evaluate	
Luc		3ES252CS.4	Implement various kinds of searching, sorting and traversal techniques and know when to choose which technique.	Create	
		3ES252CS.5	Understand and implementing hashing techniques.	Analyze	

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ŀ	COURSE OUTCO	MES		III SEMESTER (CSE)	AY:2022-23
	Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
ŀ			3BS305HS.1	To understand concepts of probability and random variables	Apply/ Remember
ı			38S305HS.2	Apply various probability distributions to solve practical problems, to estimate unknown parameters of populations	Apply
	Probability & Statistics	Mr. T. Joseph	3BS305HS.3	Find Mean, variance, moment generating function and statistical parameters of continuous probability distributions	Apply
			3BS305HS.4	To perform a regression analysis and to compute and interpret the coefficient of correlation	Remember/ Anlyze
l			3BS305HS.5	Evaluate t-distribution, F-distribution and chisquare distributions. Fitting of straight line, parabola and exponential curves	Apply/ Evaluate
I	Switching Theory and Logic Design	Mr. G. Arjun	3ES301EC.1	Illustrate the basic principles of Binary Systems, Boolean algebra and Logic Gates.	Understand
			3ES301EC.2	Design & Measure various physical parameters Memory and Programmable Logic & Understand of memories	Apply
l			3ES301EC.3	Design & Use various types of Synchronous Sequential Logic & Sequential Circuits. Latches. Flip-flops etc.	Anlyze
			3ES301EC.4	Apply the principles of Analysis Procedure, Design Procedure, for Binary Adder Substractor Decimal Substractor Binary Multiplier	Remember
			3E\$301EC.5	Identify and understand Identify and classify types of Combinational Logic Design or Sequential Logic Design.	Understand
			3PC301CS.1	Explain Fundamental DBMS Concepts: Students will explain the foundational concepts and principles of database management systems	Understand
			3PC301CS.2	Analyze Relational Database Design: Students will analyze and evaluate different approaches to relational database design.	Anlyze
	Database Management Systems	Dr. M. Sharada Varalakshmi / Dr. Syed	3PC301CS.3	Interpret SQL Querying: Students will interpret and explain complex SQL queries and their output.	Anlyze/ Understand
	Systems	Azahad	3PC301CS.4	Discuss Data Integrity and Security: Students will discuss and compare various techniques for ensuring data integrity and implementing security measures.	Evaluate
			3PC301CS.5	Evaluate Query Optimization Techniques: Students will evaluate and compare query optimization techniques used to enhance database performance.	Evaluate









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	T	3PC302CS.1	Apply mathematical logic to solve problems	Apply
Discrete	Mr. V. Venkat	3PC302CS.2	Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate knowledge of their associated operations.	Understand
Mathematics	Ram Reddy	3PC302CS.3	Identify structures of algebraic nature and apply basic counting techniques to solve combinatorial problems.	Apply/ Anlyze
		3PC302CS,4	Formulate problems and solve recurrence relations	Create
		3PC302CS.5	Apply Graph Theory in solving computer science problems	Apply
		3PC303CS.1	Recall and apply a basic concept of block diagram of computer (CPU) with Microprocessor processor unit (MPU)	Apply
Computer	Mrs. Unnati	3PC303CS.2	Understand the internal architecture and register organization of 8086	Understand
Organization and Microprocessor	Mohan Khanapurkar /	3PC303CS.3	Apply knowledge and demonstrate programming proficiency using the various addressing modes and instruction sets of 8086	Apply
	Mrs. J. Sowmya	3PC303CS.4	Identify and compare different methods for computer I/O mechanisms	Anlyze
		3PC303CS.5	Categorize memory organization and explain the function of each element of a memory hierarchy, Explore cache memory and	Understand Anlyze
Essence of Indian Traditional Knowledge	Mrs. Deepthi	3MC302HS.1	To outline the history of civilization in Indian context since pre- Vedic times	Understand
		3MC302H5.2	To autline the various schools of Indian Philosophy	Understand
		3MC302HS.3	To demonstrate the diversity in Indian Thought ,Languages , regional culture , dress, living style etc.	Understand
		3MC302HS.4	To Identify the various religious and social reform movements which took place in the past few centuries	Apply
		3MC302HS.5	To classify the wealth of Indian Fine Arts and the diversity associated with it over the length and breadth of the country	Understand
		3PC351CS.1	Understand Database Concepts: Students will demonstrate an Understand of fundamental concepts in databases, including data models, schemus, and normalization	Remember
		3PC351CS.2	Design and Implement Databases: Students will be able to design and implement relational databases using appropriate schema design techniques.	Apply
Database Management	Dr. M. Sharada Varalakshmi / Dr. Syed		SQL Querying: Students will write complex SQL queries to retrieve and manipulate data from databases.	Apply
Systems Lab	Azahad	3PC351CS.4	Data Integrity and Security: Students will apply techniques to ensure data integrity and implement security mechanisms to protect databases from unauthorized access.	Apply/ Anlyze
		3PC351CS.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	Anlyze/ Evaluate



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

		3PC352CS.1	Interpret the principles of Assembly Language Programming, instruction set in developing microprocessor based applications	Understand
Computer Organization and	Mrs. Unnati	3PC352C8.2	Design and implement programs on 8086 microprocessor	Create
Microprocessor	Mohan Khanapurkar/	3PC352C8.3	Understand working of instruction set and addressing modes	Understand
Lab	Mrs. J. Sowmya	3PC352CS.4	Explore and implement the interfacing of various peripheral devices with 8086	Apply
		3PC352CS.5	Analyze the function of traffic light controller.	Anlyze
		3PC353CS.1	Demonstrate solutions to simple computational problems using python programs.	Understand
Python Programming Lab	Mr. D. Rajashekar/	3PC353CS.2	Solve complex problems using python functions and control structures.	Apply
	Mrs.B.Vasavi Sravanthi	3PC353CS.3	Use Python lists, tuples and dictionaries for representing compound data.	Evaluate
		3PC353CS.4	Develop object-oriented programs with python classes	Apply
		3PC353CS.5	Develop Python programs for GUI applications	Create
		3PW354CS.1	Understand IoT Fundamentals: Students will comprehend the fundamental concepts and components of the Internet of Things (IoT) ecosystem.	Understand
0.75		3PW354CS.2	Sensor Integration: Students will be able to integrate various sensors into IoT systems to collect real-world data.	Apply
Skill Development Course – I (IOT)	Mr. R. Sandeep / Dr. Shaik Khaleel Ahmed	3PW354CS.3	Data Processing and Analysis: Students will process and analyze data collected from IoT devices using appropriate techniques and tools.	Apply/ Anlyze
		3PW354CS.4	Connectivity Protocols: Students will understand and apply different communication protocols for connecting IoT devices to networks.	Apply/ Understand
		3PW354CS.5	to T Application Development: Students will develop fo T applications using programming languages and platforms.	Create

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COURSE OUTCO	OMES		III SEMESTER (AL& DS)	AY:2022-23
Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
		1BS305HS.1	To understand concepts of probability and random variables	Apply/ Remember
		1B\$305H\$.2	Apply various probability distributions to solve practical problems, to estimate unknown parameters of populations	Apply
Probability & Statistics	Mrx.G.Swapna Reddy	1BS305HS.3	Find Mean, variance, moment generating function and statistical parameters of continuous probability distributions	Apply
		1BS305HS.4	To perform a regression analysis and to compute and interpret the coefficient of correlation	Remember/ Anlyze
		1BS305HS.5	Evaluate t-distribution, F-distribution and chisquare distributions. Fitting of straight line, parabola and exponential curves	Apply /Evaluate
Discrete Mathematics	Mrs. Unnati Mohan Khanapurkar / Mrs. 1. Sowmya	IPC301AD.1	Apply mathematical logic to solve problems	Apply
		IPC301AD.2	Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate knowledge of their associated operations.	Understand
		IPC301AD.3	Identify structures of algebraic nature and apply basic counting techniques to solve combinatorial problems.	Anlyze, Apply
			Formulate problems and solve recurrence relations.	Create
		IPC301AD.3	Perform tree traversals using preorder, inorder, and postorder traversals and apply these traversals to application problems	Apply
		IPC302AD,I	Define, explain and illustrate the fundamental concepts of databases	Understand
Database	Mrs.B.Vasavi	IPC302AD.2	Construct an Entity-Relationship (E-R) model from specifications and to perform the transformation of the conceptual model into corresponding logical data structures.	Apply
Management Systems	Sravanthi / Mr. T.Praveen Kumar	1PC302AD.3	Model and design a relational database following the design principles	Apply
	10000000	1PC302AD.4	Develop queries for relational database in the context of practical applications	Apply
		1PC302AD.5	Define, explain and illustrate fundamental principles of data organization, query optimization and concurrent transaction processing.	Understand







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			THE PERSON OF THE PROPERTY OF	
		IPC303AD;1	Explain the organization and architecture of a basic computer (CPI/) with different instruction formats and addressing modes	Understand
Computer	D 40	1PC303AD,2	Describe the internal architecture and register organization of \$986 and the addressing modes in \$986	Understand
Organization and Microprocessor	Dr. Diana Moses / Mrs. A. Sowjanya	IPC303AD.3	Design and develop Assembly level programs using \$086 microprocessor instruction set	Apply
	on ownjunya	IPC303AD.4	Analyze various I/O Interfacing mechanisms and memory organization techniques	Anlyze
		1PC303AD.5	Applies the knowledge of program execution and its internal hardware operations during design and development of Assemble language programs.	Apply
		1E\$303EC.1	Illustrate the basic principles of Binary Systems, Boolean algebra and Logic Gares.	Understand
Switching Theory and Logic Design		IES303EC.2	Design & Measure various physical parameters Memory and Programmable Logic & Understand of memories	Apply
	Mr. D. Suresh	1ES303EC.3	Design & Use various types of Synchronous Sequential Logic & Sequential Circuits. Latches. Flip-flops etc.	Anlyze
		IES303EC.4	Apply the principles of Analysis Procedure, Design Procedure, for Binary Adder Substractor, Decimal Substractor Binary Multiplier	Remember
		IES303EC.5	Identify and understand Identify and classify types of Combinational Logic Design or Sequential Logic Design.	Understand
Essence of Indian Traditional Knowledge	Mrs. Deepthi	1MC302HS.1	To outline the history of civilization in Indian context since pre- Vedic times	Understand
		1MC302HS 2	To outline the various schools of Indian Philosophy	Understand
		1MC302HS.3	To demonstrate the diversity in Indian Thought ,Languages , regional culture , dress, living style etc.	Understand
		1MC302H5.4	To Identify the various religious and social reform movements which took place in the past few centuries	Apply
		IMC302HS.5	To classify the wealth of Indian Fine Arts and the diversity associated with it over the length and breadth of the country	Understand
		IPC351AD.1	Design and implement a database schema for a given problem	Understand
Database	Mr. T.Praveen Kumar /	IPC351AD.2	Develop the quexy statements with the help of structured query language.	Apply
Management Systems Lab	Mrs.B.Vasavi Sravanthi	IPC351AD3	Populate and query a database using SQL and PL/SQL	Apply
SERVICE METERS	2000,000,000	IPC351AD.4	Develop multi-user database application	Apply
		IPC351AD.5	Design and implement E-R model for the given requirements	Understand









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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Computer Organization and	Dr. Diana	IPC352AD.1	Interpret the principles of Assembly Language Programming, instruction set in developing microprocessor based applications	Und
Microprocessor	Moses/	1PC352AD.2	Design and involvement management and	Understand
Lab	Mrs. A.	1PC352AD.3	Understand working of instruction set and addressing modes	Create
	Sowjanya	IPC352AD.4	with 8086	Understand
		IPC352AD.5	Analyze the function of traffic light controller.	Analyze
		IPC353AD.I	Demonstrate solutions to simple computational problems using python programs.	Analyze
Python Programming Lab	Mr. Shaik Rasool / Mr. P.	IPC353AD.2	Solve complex problems using python functions and control structures.	Apply
	V. Ramanaiah	IPC353AD.3	Use Python lists, tuples and dictionaries for representing compound data.	Evaluate
		1PC353AD,4	Develop object-oriented programs with python classes	
		IPC353AD.5	Develop Python programs for GUI applications	Apply
			Understand IoT Fundamentals: Students will comprehend the fundamental concepts and components of the internet of Things (IoT) ecosystem.	Understand
		1PW354AD.2	Sensor Integration: Students will be able to integrate various sensors into IoT systems to collect real-world data.	Apply
Skill Development Course - I (IOT)	Dr. Syed Azahad / Ms. Sana Mateen	1PW354AD.3	Data Processing and Analysis: Students will process and analyze data collected from IoT devices using appropriate techniques and tools.	Apply/ Anlyze
		1PW354AD.4	Connectivity Protocols: Students will understand and apply different communication protocols for connecting IoT devices to networks.	Apply/ Understand
		1PW354AD.5	IoT Application Development: Students will develop IoT applications using programming languages and platforms.	Create

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ASSESSMENT COMMITTEE

Bept. of Computer Science

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Abids, Hyderubad.









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ŀ	COURSE OUT	OMES		V SEMESTER (CSE)	AY:2022-23
ŀ	Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
ŀ			PC501CS.1	Relate an appropriate process model for assessing software project development	Understand
l			PC501CS.2	Build necessary requirements for project development eventually composing SRS	Apply
Ĉ.	Software	Mr. D.	PC501CS.3	Analyze various life cycle activities like Analysis, Design,	Anlyze
l	Engineering	Rajashekar / Mr. R. Sandeep	PC501CS.4	Survey visual models to describe (non-) algorithmic solutions for project build out.	Anlyze
l			PC501CS.5	Choose solutions for recurring problems development exerting knowledge on design principles and patterns.	Evaluate
ļ			PC501CS.6	Determine product quality through testing techniques, employing appropriate metrics.	Evaluate
l		Dr. Diana Moses/ Mrs. A. Sowjanya	PC502CS.1	Expresses syntax and semantics in formal notation	Understand
l	Principles of Programming Languages		PC502CS.2	Apply suitable programming paradigm for the application scenario	Apply
l			PC502CS.3	Compare the features of various programming languages.	Analyze
l			PC502CS.4	Describes the programming paradigms of modern programming	Understand
l			PC502CS.5	Describes the concepts of ADT and OOP.	Understand
L			PC502CS.6	Design program in different language paradigms and evaluate their relative benefits.	Evaluate
			PC503CS.1	To demonstrate abstract models of computing, including deterministic (DFA), non-deterministic (NFA), Push Down	Understand
l			PC503CS.2	Convert among equivalently powerful notations for a language, including among DFAs, NFAs, and regular expressions, and	Create
l	Automata Language &	MrAAR	PC503CS.3	Determine a language's place in the Chomsky hierarchy (regular, context-free, recursively enumerable)	Evaluate
l	Computation	Senthil Kumar	PC503CS.4	To solve various problems of Apply normal form techniques, push down automata and Turing Machines	Apply
			PC503CS.5	Interpret the concepts of Undecidability	Understand
			PC503CS.6	Explain why the halting problem has no algorithmic solution	Understand
ſ			PC504CS.1	Demonstrate fundamental Understand of the history of artificial intelligence (Al) and its foundations.	Understand
			PC504CS.2	Apply different searching algorithms to solve a given problem.	Apply









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DEPARTMENT OF COMPUTER SCIENCE

Artificial Intelligence	Ms. Sana Mateen	PC504CS3	Apply basic principles of AI in solutions that require problem solving, inference, perception, planning, knowledge representation.	Apply
	ormeen	PC504CS.4	Demonstrate awareness and a fundamental Understand of various applications of AI techniques in intelligent agents, expert systems,	Understand
		PC504CS.5	Demonstrate proficiency in Apply scientific method to models of machine learning.	Apply
		PC504C5.6	Apply various NLP sechniques and speech recognition techniques for developing an Application	Apply
		PC505C\$.1	Explain the functions of the different layer of the OSI and TCP/IP Protocol.	Understand
		PC505CS.2	Evaluate data communication link considering elementary concepts of data link layer protocols for error detection and correction	Evaluation
Computer Networks	Mrs. G. Saritha / Mrs. B.	PC505CS.3	Interpret the network layer routing protocols and analyze how to assign the IP addresses for the given network	Evaluation
TVELWORKS	Sowjanya	PC505CS.4	Examine the Transport layer services and protocols.	Anlyze
		PC505CS_5	Comprehend the functionality of application layer	Understand
		PC505CS.6	Identify the basic security threats of a network and different types of encryption techniques	Apply
	Dr. U. Moulali / Mrs. B.	PE515CS.1	Demonstrate knowledge of statistical data analysis techniques utilized in decision making.	Understand
		PE515CS.2	Develop in depth Understand of the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.	Understand
Data Science Professional Elective – 1)		PE515CS.3	Gain practical, hands-on experience with R programming languages and Machine Learning Algorithm through coursework	Apply
	Sowjanya	PE515CS.4	Apply quantitative modeling and data analysis techniques to the solution of real world problems, communicate findings, and	Apply
		PE515CS.5	Employ cutting edge tools and technologies to analyze Machine Learning algorithms to build machine intelligence.	Evaluation
		PE515CS.6	Demonstrate knowledge of statistical data analysis techniques utilized in decision making by use of team work, leadership skills,	Anlyze
		PC551CS.1	Analyze and design software requirements in an efficient manner.	Anlyze
		PC551CS.2	Use open-source case tools to develop software.	Apply
Software	Mr. D. Raischekar	PC551CS.3	Implement the design, debug and test the code	Create



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DEPARTMENT OF COMPUTER SCIENCE & PAGES

	Engineering Lab	Mr. R. Sandeep	PC551CS.4	Take up a case study-based project to analyze, plan, design UML models	Anlyze
			PC551CS.5	Design models from the code for Understand the relationships among various subsystems/classes	Evaluate
			PC551CS.6	Documenting the models considering any one example domai	Create
			PC552CS.1	Implement basic programming constructs in Python, such as loops, conditionals, and functions.	Apply
١	Artificial Intelligence Lab		PC552CS.2	Understand the problem-solving process in artificial intelligence and Design and develop solutions for informed and uninformed search	Apply
		Ms. Sana Mateen	PC552CS.3	Demonstrate reasoning in first order logic using Prolog	Apply
			PC552CS.4	Demonstrate and enrich knowledge to select and apply python libraries to synthesize information and develop supervised learning	Apply
			PC552CS.5	Utilize advanced package like NLTK for implementing natural language processing	Create
ŀ			PC552CS.6	Develop a case study in multidisciplinary areas to demonstrate use	Create
			PC553CS.1	Use various networking Commands like topdump , netstat, ipconfig.	Apply
		Mrs. G. Saritha	PC553CS.2	Implement Iterative and concurrent servers using TCP and UDP.	Create
	Computer Networks Lab	/Mrs. B. Sowjanya	PC553CS.3	Analyze the performance of various network protocols using various simulation tools(NS2/NS3/Cisco Packet tracer)	Anlyze
	area o a la como a	Economica.	PC553CS.4	Analyze the performance of various routing algorithms using network simulator tools.	Anlyze
			PC553CS.5	Develop programs using Raw Sockets	Create
			PC553CS.6	Implementation of various Programs using Remote Procedure calls	Create

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ting Kotl, Hydaraba-

Department of CSE

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COURSE OUT	COMES		IV SEMESTER (CSE)	AV:2022-23	
Course	Faculty Name	CO/PO	Course Outcomes	Taxonomy	
- AMOUNT		1HS464HS.1	Solve Linear Programming Problems by various methods	Apply	
		3HS404HS.2	Finding relationship between primal and dual solution, Economic Interpretation Research	Analyze	
Optimization & Problem	Semile Select	3HS404HS.3	Understand the mathematical tools that are needed to solve	Understand	
Solving Techniques	Mrs Kalyani	3HS404HS.4	Understand the Assignment models, replacement models with change moneyvalue considering with time and with out time	Understand	
		3HS404HS.5	Understand the theory of Game in operations research at the end students would able to explain applications of Game theory in decision making for conflict	Understand	
		3PC404CS.1	Describes data warehousing, multi-dimensional modeling, OLAP Operations	Understand	
Data Mining	Dr. U. Moulali	ning Dr. U. Moulali 3PC40	3PC404CS.2	Analyzes of Data warehouse models, schemas, OLAP Operations and comparison of OLAP and OLTP	Apply
			3PC404CS.3	Understands Data Preprocessing, Data mining tasks, Association rule mining, Classification and Clustering	Understand
			3PC404CS.4	Applies Data Preprocessing, Data mining tasks, Association rule	Analyze
		3PC404CS.5	Evaluates by analysis of different classification and clustering methods	Evaluating	
		3PC405CS.1	Understand Operating System Concepts: Students will demonstrate an Understand of fundamental concepts related to operating systems, including process management, memory management, and scheduling.	Understand	
	Dr.Syed Azahad / Mr. R. Sandeep	3PC405CS.2	Analyze Process Management: Students will analyze various aspects of process management, including process creation, scheduling, synchronization, and communication.	Analyze	
Operating Systems		3PC405CS.	Evaluate Memory Management Techniques: Students will evaluate different memory management techniques, including paging, segmentation, and virtual memory.	Evaluating	
		3PC405CS.	Compare CPU Scheduling Algorithms: Students will compare and contrast various CPU scheduling algorithms, Analyze their impact on system performance and fairness.		
			3PC405CS.	Design File Systems, Disk Scheduling, and RAID Concepts: Students will design and explain different file systems, understand disk scheduling algorithms, and grasp RAID concepts for data protection and performance improvement.	Create / Understand









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		3PC406CS.1	Understand the concept of Computer Networks, CISL& TCP/IP reference models and discuss the functionalities of each layer in these models.	Understand
Computer		3PC406CS.2	Apply bandwidth utilization techniques, Framming techniques, flow and crew control protocols and various addressing schemes for an efficient transmission of data through the layers.	Apply
Networks	Mrs. B. Sowjanya / Ms Sana Mateen	3PC406C\$3	Analyze various Luyered 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
		3HS403HS.1	Understand the Significance of value inputs in a classroom and start Apply them in their life and profession	Understand
	Mrs Jr Hephzabah / Mrs AL Jayashree	3HS403HS.2	Assess their own ethical values and the social context of problems.	Understand
Human Values Professional		3HS403HS.3	Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.	Understand
Ethics		3HS403HS.4	Understand the role of a human being in ensuring harmony in society and nature.	Understand
		3HS403HS.5	Distinguish between ethical and unethical practices and start working out the strategy to actualize a harmonious environment wherever they work.	Understand
		3PC455CS.1	Use Operating System Commands: Students will effectively use various operating system commands for file and process management.	Apply
		3PC455CS.2	Implement Process Synchronization: Students will implement and analyze process synchronization mechanisms to prevent race conditions in concurrent programs.	Analyze
Operating Systems Lab	Dr.Syed Azahad / Mr. R. Sandeop	3PC455C8.3	Develop Memory Management Solutions: Students will develop solutions for memory management tasks, including memory allocation and deallocation.	Create
		3PC455CS.4	Create File Management Programs: Students will create programs to manage files, including reading, writing, and manipulating file data.	Create
		3PC455CS.5	Perform Performance Analysis and Shell Scripting: Students will perform performance analysis of various operating system concepts like process scheduling and memory management, and demonstrate profesency in shell scripting.	Evaluating









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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

			OF COMPUTER SCIENCE & ENGINEERING	
		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 a network protocol analyzer	Apply
Computer Networks Lab	Mrs. B. Sowjanya / Ms Sana Mateen	3PC456CS.3	Apply data link layer framing methods and evaluate data integrity using CRC polynomials.	Apply
	Pro Salita Malega	3PC456CS.4	Design and simulate network topologies using software tools like Packet Tracer to analyze and optimize network configurations.	Create
		3PC456CS.5	Simulate and analyze the performance of various congestion control algorithms using tools like NS2/NS3/NetSim.	Analyze
		3PC456CS.6	design and implement client-server applications using socket programming, enabling communication and data exchange between	Create
	Mrs A.Sowjanya / Mr T.Vijay Kumar	3PC457CS.1	To understand the concept of Object Oriented Programming Systems and use arrays, string Tokenizer.	Understand
Java		3PC457CS.2	To apply OOPs concepts on packages, inheritance and interface.	Apply
Programming Lab		3PC457CS.3	To implement java programs for exception handling and error free code.	Apply
		3PC457CS.4	To analyze java programs on Method Overloading and Method Overloading.	Analyze
		3PC457CS.5	To implement java programs for multithreading and java collection framework.	Apply
		3PW458CS.1	Explain network technologies and how devices access local and	Understand
	3PW458CS 2 Describe router hardware and Expl	Describe router hardware and Explain how switching operates in a small to mediant-sized business network	Understand	
Skill Development	Mrs Unnati K / Mrs.B. Sowjanya	3PW458CS.3	Design an IPv4 and IPv6 addressing scheme to provide network connectivity for a small to medium-sized business network	Create
Course- II		3PW458CS.4	Configure initial settings on a network device using Cisco command-line interface (CLI).	Creste
		3PW458CS.5	Implement basic network connectivity between devices.	Apply

ASSESSMENT COMMITTEE

Dept. of Computer Science Aethodist College of Engo ting Kati, Hydern

result the Department Dapartment of CBE Methodist College : Figg & Tech Abids, Hyderabad.









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OURSE OU	TCOMES		IV SEMESTER (AI & DS)	AY:2022-23
Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
		IPC404AD,I	Explains the concepts of OS uong with an Understand of the process, memory and file managements and also defines the disk structure and I/O sub system	Understand
Operating Systems	Dr. M. Sharada Varalakshmi / Dr.G.	IPC404AD,2	Applies the knowledge of process, memory and file managements and implements the respective algorithms to find the efficacy and performance	Apply
Systems	Saritha	1PC404AD.3	Applies the OS system calls, process synchronization .page replacement, directory and disk scheduling algorishms	Apply
		1PC404AD.4	Analyzes various scheduling algorithms, inter process communication methods such as Readers - Writers problems	Analyze
		IPC404AD.5	Evaluates the performance of the Disk structure	Evaluating
	Mr. T.Praveen Kumar/ Mr. D. Rajashekar	IPC405AD.I	understand statistical parameters for data analytics	Remember
Statistical		1PC405AD.2	use numpy for organising and Analyze data	Understand
inalytics and Computing		IPC405AD3	use pandas for summarizing and analysis of data	Apply
		1PC405AD.4	use of statistical methods for cleaning and preparation of data	Analyze
		1PC405AD.5	performs aggregation of data and understands analysis of time series data	Evaluating
		1PC406AD.1	Introduction to Artificial Intelligence, its applications and Problem solving techniques. Also the knowledge representation methods, Planning, Expert systems and their algorithms in AI	Understand
		IPC406AD.2	Analyze different searching algorithms and game playing programs to solve given problems.	Analyze
Foundations of Artificial Intelligence	Dr. Shruthi Sriram Koma/ Dr.P.Lavanya	IPC406AD.3	Apply basic principles of AI in solutions that require problem solving, inference, perception, planning, knowledge representation, and learning.	Apply
		1PC406AD.4	Demonstrate awareness and a fundamental Understand of various applications of A1 techniques in intelligent agents, expert systems, probability, artificial neural networks and other machine learning models.	Evaluating
		IPC406AD.5	To explore the Understand of agent based Al Planning Jogical based agents and Expert systems	Create



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		IPC407AD.I	Outline working knowledge of alternative approaches and techniques for each phase of SDLC.	Linderstand
		IPC407AD.2	ludge an appropriate process model(s) for software project attributes and analyze requirements for project development.	Evaluate
Software	Mr. M. V. D. S. Krishna Murthy / Mrs. A. Sowjanya	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 significant software system	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 Apply them in their life and profession	Understand
		1HS403HS.2	Assess their own eshicul values and the social context of problems.	Understand
Human Values and Professional	Mrs Sona Lakshmi	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.	Understand
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.	Understand
	Dr. M. Sharada Varalakshmi / Mrs.G. Saritha	1PC455AD.1	Evaluate the performance of different types of CPU scheduling algorithms.	Evaluating
Operating		1PC455AD.2	Implement producer-consumer problem, reader-writers problem, Dining philosopher's problem.	Apply
Systems Lab		1PC455AD.3	Simulate Banker's algorithm for deadlock avoidance.	Create
		1PC455AD.4	Implement paging replacement and disk scheduling techniques.	Apply
		1PC455AD.5	Ability to implement inter process communication between two processes.	Apply
		1PC456AD.1	To understand the concept of Object Oriented Programming Systems and use arrays, string Tokenizer.	Understand
Java	Mrs.B.Vasavi	1PC456AD.2	To apply OOPs concepts on packages, inheritance and interface.	Apply
Programming Lab	Sravanthi/ Mrs. K.Keerthi	IPC456AD.3	To implement java programs for exception handling and error free code.	Apply
		1PC456AD.4	To analyze java programs on Method Overloading and Method Overriding.	Analyze
		IPC456AD.5	To implement java programs for multithreading and java collection framework.	Apply



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

		1PC457AD,1	mstall numpy and pandas	Understand
Statistical	Mr. T.Praveen	1PC457AD.2	work with 1D and 2D array in numpy and process data in arrays	Analyze
Analytics and Computing using Python Lab	Mr. D. Reinshelm	IPC457AD.3	explore multi-dimensional arrays in numpy and perform conversions	Analyze
		1PC457AD.4	perform statistical analysis using numpy by calculating measures of central tendency, deviation, distance and coorelation	Analyze
		1PC457AD.5	perform statistical analysis using pandas	Analyze
		IPW458AD.1 Build simple LANs, perform basic configurations for routers and switches	Create	
Skill	V	1PW458AD.2	Implement IPv4 and IPv6 addressing schemes.	Analyze Evaluate Analyze Create Apply Apply Apply
Developmen	Mr. D. Rajashekar		Implement VLANs and trunking in a switched network	Apply
Course - II	Ms. Sana Mateen	1PW458AD.4	Implement DHCPv4 to operate across multiple LANs and explain how WLANs enable network connectivity.	Analyze Evaluate Analyze Create Apply Apply Apply
		1PW458AD.5	Develop critical thinking and problem solving skills using real equipment and Cisco Packet Tracer.	Apply

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F	COURSE OUTC	2010 TO 100 TO 1	_	V SEMESTER (AL& DS)	AY:2022-2
ŀ	Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
İ			PC501AD.I	Relate an appropriate process model for assessing software project development	Understand
			PC501AD.2	Build necessary requirements for project development eventually composing SRS	Apply
1	Software	Mr. M. V. D. S. Krishna	PC501AD.3	Analyze various life cycle activities like Analysis, Design, Implementation, Testing and Maintenance.	Anlyze
l	Engineering	Murthy	PC501AD.4	Survey visual models to describe (non-) algorithmic solutions for project build out.	Anlyze
			PC501AD.5	Choose solutions for recurring problems development exerting knowledge on design principles and patterns.	Evaluate
L			PC501AD.6	Determine product quality through testing techniques, employing appropriate metrics.	Evaluate
ı		agement Dr. U. Mondali	PC502AD.1	Understand the fundamentals of database management	Understand
			PC502AD.2	Design a database using ER modeling approach and Apply normalization to improve the database design.	Create
	Database		PC502AD.3	Identify the process of query optimization and join operations in database.	Anlyze
6	Systems		PC502AD,4	Apply the knowledge about transaction management, concurrency control and recovery of database systems.	Apply
Ī			PC502AD.5	Understand the relational model and construct queries using relational algebra.	Create
			PC502AD.6	Use the basics of SQL and construct queries using SQL in database creation and interaction	Create
			PC503AD.1	Demonstrate fundamental Understand of the history of artificial intelligence (AI) and its foundations.	Understand
			PC503AD.2	Apply different searching algorithms to solve a given problem.	Apply
	V-100-11		PC503AD.3	Apply basic principles of AI in solutions that require problem solving, inference, perception, planning, knowledge representation.	Apply
	Artificial Intelligence	Dr. P. Lavanya	PC503AD.4	Demonstrate awareness and a fundamental Understand of various applications of Al techniques in intelligent agents, expert systems,	Understand
				Demonstrate proficiency in Apply scientific method to models of machine learning.	Apply
			PC503AD.6	Apply various NLP techniques and speech recognition techniques for developing on Application	Apply









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		PCS04AD.1	To demonstrate abstract models of computing, including deterministic (DFA), non-deterministic (NFA), Push Down Automata (PDA) and Turing (TM) machine models and their power	Understand
Automata Language &		PC504AD:2	Convert among equivalently powerful notations for a language, including among DFAs, NFAs, and regular expressions, and	Create
Computation	Mr. Ravi Kumar	PC504AD:3	Determine a language's place in the Chomsky hierarchy (regular, context-free, recursively enumerable)	Evaluate
		PC504AD.4	To solve various problems of Apply normal form techniques, push down automata and Turing Machines	Apply
		PC504AD.5	Interpret the concepts of Undecidability	Understand
		PC504AD.6	Explain why the halting problem has no algorithmic solution	Understand
		PC505AD.1	Knowledge of busic concepts in time series analysis and forecasting	Understand
		PC505AD.2	Apply the time series models for forecasting and evaluate the limitations of the methods.	Apply
Forecasting	Dr. M. Sharada	PC505AD.3	Evaluate, criticize and judge time series regression models.	Evaduate
Techniques	Varalakshmi	PC505AD.4	Analyze ARIMA modeling of stationary and non-stationary time series	Analysing
		PCS05AD.5	Build a multivariate times series and other methods of applications	Create
		PC505AD.6	Crease and analyze the forecasting techniques using time series models.	Create
	Mr. Shaik Rasool	PE514AD.I	Construct a basic website using HTML and Cascading Style Sheets.	Create
Web Technologies		PE514AD.2	Build dynamic web page with validation using Java Script objects and by Apply different event handling mechanisms.	Create
(Professional Elective - 1)		PE514AD.3	Develop server-side programs using Servlets and JSP.	Apply
Elective - t)		PE514AD.4	Explain JDBC Connectivity and types of JDBC drivers	Analyse
		PE514AD.5	Construct simple web pages in PHP and represent data in XML	Create
		PE514AD.6	Utilize AJAX and web services to develop interactive web applications	Evaluate
		PC551AD.I	Implement basic programming constructs in Python, such as loops, conditionals, and functions.	Apply
		PC351AD.2	Understand the problem-solving process in artificial intelligence and Design and develop solutions for informed and uninformed search problems in Al.	Apply
Artificial	Dr.P. Lavanya	PC551AD.3	Demonstrate reasoning in first order logic using Prolog	Apply
Intelligence Lab		nessiana	Demonstrate and enrich knowledge to select and apply python libraries to synthesize information and develop supervised learning	Apply
		BCSSIAD 5	Utilize advanced package like NLTK for implementing natural language processing	Create
		PC551AD.6	Develop a case study in multidisciplinary areas to demonstrate use of A1	Create









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		PC552AD.1	Construct a database by using data definition, data manipulation and control languages.	Understand
20 AAC 4 IIII		PC552AD.2	Demonstrate various integrity constraints and Aggregate functions.	Understand
Database Management Systems Lab	Dr. U. Moulali	PC552AD.3	Implement PL/SQL blocks, procedures, functions, cursors and understand the operation on triggers.	Creste
		PC552AD.4	Apply the database concepts, technology and create the relations by specifying primary and foreign keys.	Apply
		PC552AD.5	Ability to design and implement a database schema for given problem.	Analyze
		PC552AD.6	Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.	Create
	PW553AD.1 Interpret a variety of approaches and perspectives of development. PW553AD.2 Identify the requirements which are relevant to the exystem. Mr. M. V. D. S. PW553AD.3 Model software design with a set of objects and the	PW553AD.1	Interpret a variety of approaches and perspectives of system	Understand
		PW553AD.2	Identify the requirements which are relevant to the design of a system.	Apply
MP Lab - Mini		Model software design with a set of objects and their relationships using structural modeling.	Apply	
Project	/ Mr. A. Rajesh	PW553AD.4	Take part in using advanced & behavioral modeling to develop a case study.	Analysing
		PW553AD.5	Design the activities with the help of behavioral modeling.	Create
		PW553AD.6	Develop components through architectural modeling.	Create

ASSESSMENT COMMITTEE

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COURSE O	UTCOMES		VI SEMESTER (CSE) 23	AY:202
	Faculty Name	CO/PO	Course Outcomes	Taxonomy
		PC601CS.1	Describes the compiler structure and phases, and parsing techniques	Understand
	Mr. A. A. R. Senthil	PC601CS.2	Describes SDD's, Intermediate code generator and code generator techniques.	Understand
Compiler Design	Kumaar / Mrs.B.Vasavi	PC601CS.3	Developing symbol table, parse tree,3-address code and flow charts for 3- address code.	Apply
	Sravanthi	PC601CS.4	Constructing an automata for tokens, parse tree for top down and bottom up approach, LR parsing and translation of expressions.	Apply
		PC601CS.5	Compute basic blocks of 3 address code	Analyze
		PC601CS.6	Writing lexical analyzer generator Lex.	Apply
	Mrs. Unnati Mohan and Khanapurkar / Mr. is of M. V. D. S. hms Krishna Murthy	PC602CS.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
		PC602CS.2	Solve recurrence relation using the master's theorem , substitution method to calculate complexity	Apply
Design and Analysis of		PC602CS.3	Implement and compare the different methods to generate a minimum cost spanning tree using greedy approach and implement Dijkstra's algorithm	Apply
Algorithms		PC602CS.4	Solve problems using algorithm design methods such as backtracking and branch and bound, apply the concept of graph colouring to various practical problems	Apply
		PC602CS.5	Analyze the best approach to solve various problems like Knapsack problem, Travelling salesman problem, parallel algorithms and Differentiate deterministic and non deterministic algorithms	Analyze
		PC602CS.6	Determine the best sorting and searching algorithm, optimal Hamiltonian circuit and whether a problem is satisfiable or not and perform asymptotic analysis	Evaluate
		PC603CS.1	Describes supervised, unsupervised, semi-supervised and Reinforcement based learning, feature selection and feature extraction methods and their appropriate evaluation procedures and	Understand
	n n:	PC603CS.2	Applies various supervised learning algorithms by Apply them to different scenarios	Apply
Machine learning	Dr Diana Moses / Dr. U. Moulati	PC603CS.3	Applies various unsupervised learning algorithms by Apply them to different scenarios	Apply
		PC603CS.4	Describes different Semi-supervised and reinforcement learning algorithms to different datasets	Understand
		PC603CS.5	Compares and evaluates different machine learning approaches and infers the best learning model for a given scenario	Analyze
		PC603CS.6	Evaluates different machine learning methods using appropriate evaluation metrics	Evaluate









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		PC604CS.1	Discuss the basics of network security and cryptography.	Understand
		PC604CS.2	Explain the various standards Symmetric Encryption algorithms used to provide confidentiality.	Apply
and Network	Mr. Shaik Rasool / Mr. V. Venkat Ram	PC604CS.3	Explain the various standards Asymmetric Encryption algorithms to achieve authentication.	Apply
Security		PC604CS.4	Demonstrate encryption techniques to secure data in transit across network.	Analyze
		PC604CS,5	Explore the knowledge of key exchange protocols.	Analyze
		PC604CS.6	Examine the network security designs using available secure solutions	Evaluate
		PE625CS.1	Understand the data mining concepts, different data types, Data Objects, Attribute types	Understand
Data Mining	Dr Khaleel Ahmed /	PE625CS.2	Analyze the Knowledge Discovery from Data techniques, Basic statistical descriptions of data and data similarity and dissimilarity	Analyze
LVALE STITLING	Mrs.Deepthi Joshi	PE625CS.3	Apply the Data Mining Classification, Decision trees and other algorithms	Apply
		PE625CS.4	Analyze Data Mining Tools for an effective, efficient and scalable data mining.	Analyze
		PE625CS.5	Understand the clustering of data and its methods	Understand
		PE625CS.6	Evaluates the Data Mining applications	Evaluate
	Mrs.P.Prasanna Kumari	OE601CE.1	Define the various terminology and gain Understand of disaster mitigation and managament	Remember
		OE601CE.2	Classify natural and man-made disasters and their causes and effects	Understand
O.E- I(Disaster		OE601CE3	Understand the disaster management cycle and framework and its applications	Apply
Mitigation)		OE601CE.4	Gain Knowledge of disaster management in India	Analyze
		OE601CE.5	Explain the role of science and technology in disaster management	Evaluate
		OE601CE.6	Create innovative solutions for disaster mitigation and management	Create
		PC651CS.1	Describe supervised and unsupervised learning algorithms	Understand
		PC651CS.2	Preprocess datasets to increase the performance of supervised and unsupervised learning algorithms	Apply
Machine	Dr Diana Moses / Dr.	PC651CS.3	Implement Supervised and unsupervised learning algorithms in python	Apply
learning LAB	U. Moulali	PC651CS.4	Interpret the performance of the supervised learning methods using standard performance measures	Apply
		PC651CS.5	Analyze supervised and unsupervised learning algorithms by exploring different visualization tools/plots	Analyze
		PC651CS.6	Evaluate supervised learning algorithms on different datasets and identify the most suited algorithm for a particular dataset	Evaluate



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

		PC652CS.1	Determine whether a graph is connected or not using BFS and DFS methods	Apply
		PC652CS.2	Apply different algorithm design techniques like brute force, greedy and dynamic programming methods.	Apply
Design and	Mr. M. V.	PC652CS.3	Implement the different Backtracking Algorithms	Apply
Analysis of Algorithms	D. S. Krishna Murthy Mes. Unnati Mohan	PC652CS.4	Compare the performance of sorting algorithms like quick and merge sort	Analyze
Lab	Khanapurkar	PC652CS.5	Examine to find the minimum cost of spanning tree using Prim's , Kruskal's algorithms and illustrate the different algorithmic techniques to find the shortest path in a given graph	Analyze
		PC652CS.6	Implement various programming paradigms using high level programming language	Apply
		PW653CS.1	Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems	Understand
Mini Project	Mr K Muralidhar	PW653CS.2	Evaluate different solutions based on Economic and Technical feasibility	Evaluating
		PW653CS.3	Effectively plan a project and confidently perform all aspects of project.	Analyze
		PW653CS.4	Demonstrate effective written and oral communication skills	Understand
		PW653CS.5	Undertake problem identification, formulation and solution	Create
		PW653CS.6	Plan, analyze, design and implement a software project or gather knowledge over the field of research.	Create
		S1671CS.1	Design/ develop a small and simple product in hardware or software	Create, Apply
		\$1671CS.2	Build the task or realize a pre-specified target, with limited scope, rather taking up a COMPLEX TASK AND LEAVE IT	Apply
Summer Internship	Dr SK Shruthi/ Mr D Srinu	\$1671CS.3	Determine the challenges and future potential for his / her intenship organization in PARTICULAR AND THE SECTOR IN GENERAL	Analyze
	out D Stilld	51671CS.4	Test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period.	Analyze
		S1671CS.5	Apply various soft skills such as time management, positive attitude and communication skills during performance of the tasks	Apply
		\$1671CS.6	analyze the functioning of internship organization and recommend changes for improvement in processes.	Analyze

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COURSE O	UTCOMES		VI SEMESTER (AI & DS)	AY:2022-
Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
		PC601AD.1	Describes supervised, unsupervised, semi-supervised and Reinforcement based learning, feaure selection and feature extraction methods and their appropriate evaluation procedures and metrics used for machine learning models	Understand
		PC601AD:2	Applies various supervised learning algorithms by Apply them to different scenarios	Apply
Machine Learning	Dr Diana Moses	PC601AD3	Applies various unsupervised learning algorithms by Apply them to different scenarios	Apply
Leaning		PC601AD.4	Describes different Semi-supervised and reinforcement learning algorithms to different datasets	Understand
		PC601AD.5	Compares and evaluates different machine learning approaches and infers the best learning model for a given scenario	Analyze
		PC601AD.6	Evaluates different machine learning methods using appropriate evaluation metrics	Evaluate
	PC602AD. PC602AD. Mrs. K.Keerthi PC602AD. PC602AD.	PC602AD.1	Understand the fundamentals of Big Data, its types, and its importance in the current business scenario.	Understand
		PC602AD:2	Demonstrate a high level of comprehension of Apache Hadoop, including its historical background, Hadoop Distributed File	Understand
		PC602AD.3	Analyze data using Unix tools and Hadoop, including Hadoop Streaming, Hadoop archives, and Hadoop I/O.	Analyze
Big Data Analytics		PC602AD.4	Understand and Apply the concept and working of MapReduce, including the mutomy of a MapReduce job run, scheduling, and	Apply
		PC602AD.5	Analyze the various components of the Hadoop Eco System, including Pig. Hive, Hbase, and Big SQL, by evaluating their services, execution modes, and comparing them with traditional	Analyze
		PC602AD.6	Apply data analytics using R programming, demonstrating proficiency in machine learning methods, including supervised and unsupervised learning as well as collaborative filtering.	Apply
		PC603AD.1	Define Cloud Computing and related concepts and describe the characteristics, advantages, risks and challenges associated with cloud computing.	Understand
Cloud	Dr. Shruthi Sriram	PC603AD.2	Characterize various cloud service models, cloud deployment models	Understand,App
Computing	Koma	PC603AD.3	Explore virtualization techniques, virtual clusters and resource management	Apply,Analyze
		PC603AD.4	Examine the Data security and its issues in cloud.	Analyze,Evaluat
		PC603AD.5	Understand various database management mechanisms	Evaluating
		PC603AD.6	Illustrate the use of various cloud services available online	Evaluating,Creat



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		PE621AD.1	OF COMPUTER SCIENCE & ENGINEERING	
		100000000000000000000000000000000000000	Design and create data visualizations.	Create
Data		PE621AD.2	Conduct exploratory data analysis using visualization.	Analyze
		PE621AD.3	Craft visual presentations of data for effective communication.	Apply Understand
	Mr. D. Srinivas	PE621AD.4	Use Knowledge of perception and cognition to evaluate visualization design alternatives.	Apply
		PE621AD.5	Design and evaluate color palettes for visualization based on principles of perception.	Create Evaluation
		PE621AD.6	Use Knowledge of perception and cognition to plot and visualize design.	Apply Understand
Cyber Security		PE635AD,1	Explain Cybersecurity Fundamentals: Students will demonstrate an Understand of fundamental concepts and principles of cybersecurity.	Understand
		PE635AD.2	Analyze Threats and Vulnerabilities: Students will analyze various threats and vulnerabilities in computer systems and networks.	Analyze
	Dr.Syed Azahad	PE635AD.3	Implement Security Measures: Students will implement security measures to protect computer systems and networks from cyber threats.	Apply
		PE635AD.4	Conduct Cybersecurity Investigations: Students will conduct investigations to identify and mitigate cyber incidents.	Analyze / Evaluating
		PE635AD.5	Design Secure Systems: Students will design computer systems and networks with security as a primary consideration.	Create
		PE635AD.6	Apply Shell Scripting in Security Tasks: Students will use shell scripting to automate security tasks and enhance system defenses.	Apply / Create
		OE601CE.1	Relate the terms and concepts related to disaster management	Understand
		OE601CE,2	Demonstrate the various categories of disasters and their specific characteristics	Understand
O.E-	Mrs.shaik	OE601CE.3	Outline the emerging risks of disasters like climate change on urban areas	Understand
I(Disaster Mitigation)	mohammed Imran	OE601CE.4	Explain the pre-disaster, during disaster and post-disaster measures and framework	Understand
		OE601CE.5	Explain the disaster management acts and frameworks specific to India	Understand
		OE601CE.6	Illustrate the various technological applications to aid disaster management	Understand



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

			TENSETENCE & ENGINEERING	
		PC654AD.I	Describe supervised and unsupervised learning algorithms	Understand
Machine Dr Diana Moses Learning Lub		PC654AD.2	Preprocess distasets to increase the performance of supervised and unsupervised learning algorithms	Apply
	Dr Diana Moses	PC654AD.3	Implement Supervised and unsupervised learning algorithms in python	Apply
	PC654AD.4 Interpret the performance of the supervised learning methods usintandard performance measures		Apply	
		PC654AD.5	Analyze supervised and unsupervised learning algorithms by exploring different visualization tools/plots	Analyze
		PC654AD.6	Evaluate supervised learning algorithms on different datasets and identify the most suited algorithm for a particular dataset	Evaluate
		PC655AD.1	Understand Hadrop working environment	Understand
	Mrs. K.Keerthi / Mr	PC655AD.2	Work with big data applications in multi node clusters	Apply
BDA Lab	Shaik Rasool	PC655AD.3	Write scripts using Pig to solve real world problems	Apply
		PC655AD.4	Write queries using Hive to analyse the datasets	Analyze
		PC635AD.5	Model and build a recommendation system using Mahout Hadoop and Apply big data and echo system techniques for real world	Create

ASSESSMENT COMMITTEE

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Department of CSE

Wathodist College - Frigg & Tack

Abids, Hyderabad.









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COURSE OUTCO	OMES		VII SEMESTER 23	AY:2022
Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy
		PC701CS.I	Understand the steps in Security Systems development life cycle (SecSDLC)	Understand
		PC701CS.2	Demonstrate the common threats and attack to information systems	Apply
Information	Mrs. G. Saritha	PC701CS.3	Understand the legal and ethical issues of information technology	Apply
Security	SWS, G. Sartina	PC701CS.4	Identify security needs using risk management and choose the appropriate risk control strategy based on business needs	Analyze
		PC701CS.5	Demonstrate basic knowledge of security frameworks in preparing security blue print for the organization	Apply
		PC701CS.6	Develop network perimeter solution tools such as firewalls, antivirus software and Intrusion Detection techniques and ethical hacking	create
	Dr. Ramakanta Mohanty / Dr Shaik Khaleel Ahamed	PC702CS.1	Demonstrate knowledge of statistical data analysis techniques utilized in decision making	Understand
		PC702C5.2	Develop in depth Understand of the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modelling, and statistics.	Understand
Data Science Using		PC702CS.3	Gain practical, hands-on experience with R programming languages and Machine Learning Algorithm through coursework	Apply
R Programming		PC702CS.4	Apply quantitative modelling and data analysis techniques to the solution of real world problems, communicate findings, and effectively present results using data visualization techniques.	Analyse
		PC702CS.5	Employ cutting edge tools and technologies to analyse Machine Learning algorithms to build machine intelligence.	Evaluate
		PC702CS.6	Demonstrate knowledge of statistical data analysis techniques utilized in decision making by use of team work, leadership skills, decision making and organization theory.	Create
		PC703CS.1	Understand the problems and challenges associated with distributed systems and analyze IPCs with various architectures implemented.	Understand
		PC703CS.2	Analyze synchronization among processes, distributed algorithms along with the general properties of networked communication necessary through RPC and RMI interfaces.	Analyze







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Distributed Systems	Dr. Shruthi	PC703CS.3	Understand the importance of security in distributed systems. Analyze with Distributed-coordination based systems to achieve Consistency and Replication.	Understand, Analyze
	Seiram Korna	PC703CS.4	Differentiate about working of various Distributed file systems and Computing techniques. Apply distributed transaction control algorithms to reduce deadlocks.	Apply
		PC703CS.5	Analyze the Distributed web-based system for concurrency control along with the web service and distributed service oriented architecture, fault tolerance mechanisms.	Analyze
		PC703CS.6	Remember the emerging trends in distributed computing and deduce representations to incorporate Map-reduce model.	Understand
		OE701ME.1	Outline Indian Industrial Environment, Entrepreneurship and Economic growth, Small and Large Scale Industries, Types and forms of enterprises	Understand-2
Entrepreneurship	Mr. M. V. D. S. Krishna Murthy	OE701ME.2	Identify the characteristics of entrepreneurs, Emergence of first generation entrepreneurs, Conception and evaluation of ideas and their sources	Apply-3
(Open Elective -		OE701ME.3	Utilize the principles of project formulation	Apply-3
11)		OE701ME.4	Analysis of market demand, Financial and profitability analysis and Technical analysis.	Anlyze-4
		OE701ME.5	Outline the concept of Intellectual Property Rights and Patents	Understand-2
		OE701ME.6	Value the aspects of Start-Ups	Evaluate-5
	Dr. Ramakanta Mohanty / Dr Shaik Khaleel Ahamed	PC751ME.1	Show the installation of R Programming Environment.	Understand
		PC751ME 2	Utilize R Data types for developing programs	Apply
Data Science Lab		PC751ME.3	Make use of different R Data Structures.	Apply
		PC751ME.4	Develop programming logic using R Packages.	Create
		PC751ME.5	Use R Libraries for Data Visualization	Evaluate
		PC751ME.6	Analyze the datasets using R programming capabilities	Analyze
		PC752ME.1	Write programs that communicate data between two hosts	Create
		PC752ME.2	Configure Network File Systems	Understand
	Dr. Shruthi Sriram Korna	PC752ME.3	Use distributed data processing frameworks and mobile application tool kits	Apply
	J. J. J. L.	PC752ME.4	Trace Communication protocols in distributed systems	Analyze
		PC752ME.5	Develop an application using a technology from distributed system	Create
		PC752ME.6	Design of algorithm distributed system	Create









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		PW861CS.1	Demonstrate the ability to apply the knowledge and skills acquired in the academic program to the real-world problems	Understand
Project Work-I		PW861CS.2	Evaluate different solutions based on feasibility study	Evaluate
	Dr. T Praveen	PW861CS.3	Effectively plan a project.	Anlyze
		PW861CS.4	Demonstrate effective written and oral communication skills	Understand
			Undertake problem identification, formulation and execution	Create
			Plan, analyze, design, implement and test a software project.	Create

ASSESSMENT COMMITTEE

Dept. of Computer Science Methodist College of Engo & Team fing Eatl, Hydershare

resid of the Department Department of CSE Methodist College - Figg & Tash Abida, Hydarabad.



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

	COURSE	OUTCOMES	VIII SEMESTER		
Course Name	Faculty Name	CO/PO	Course Outcomes	Taxonomy	
		PE#27CS.1	To provide an introduction to wireless voice and data communication essentials	Understand	
		PE827CS.2	To get skilled with several telephone and satellise networks	Apply	
E-VI Mobile	Dr.G.Saritha /	PE827CS.3	To explore the standards and wireless LAN operating principles	Apply	
Computing	Mr. D. Srinivas	PE827CS.4	To acquire knowledge about routing and adhoc network principles	Create	
		PE827CS.5	To learn more about how to integrate mobile networks with the internet.	Create	
		PE827CS.6	To acquire the necessary expertise to create mobile applications using wireless application protocols.	Create	
	Mrs Madhuri	PE827CS.1	Explain scenario of road safety in world, accident characteristics, causes, investigation techniques, data collection, analysis and	Understand	
		PE827CS.2	Explain Traffic Engineering studies, Characteristics, management measures and their influence on road safety	Understand	
OE-III Road		PE827CS.3	Explain road safety in planning, designing, equipment's used for construction during construction, at construction site and devices	Understand	
Safety Engineering		PE827CS.4	Explain Functioning and factors affecting the traffic Signals, road signs and pavement markings	Understand	
		PE827CS.5	Explain road safety audit process, strategies, and ITS	Understand	
		PE827CS.6	Make use of Statistical methods for traffic Safety analysis	Apply	
		PE827CS.1	Demonstrate the ability to apply the knowledge and skills acquired in the academic program to the real-world problems	Understand	
		PE827CS.2	Evaluate different solutions based on feasibility study	Evaluating	
Project Work		PE827CS.3	Effectively plan a project.	Analyze	
-11	Dr T Pravsen Kumar	PE827CS.4	Demonstrate effective written and oral communication skills	Understand	
		PE827CS.5	Undertake problem identification, formulation and execution	Creste	
		PE827CS.6	Plan, analyze, design, implement and test a software project.	Create	

ASSESSMENT COMMITTEE

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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2022-23 ODD SEMESTER COURSE OUTCOMES SUMMARY

MRAMISEMESTER - Autonomous

S.No	Semester	Course Code	Course Name	Course Instructor	CO No	Course Outcome
					CO1	To understand features of operations & production, and types of processes
1	m	MB301	Operations		CO2	To understand strategic levels in process sequencing, capacity & maintenance management
	1	I Commonto	Management	1	CO3	To analyze work study techniques & service management
					CO4	To understand need & importance of material in manufacturing firms
					COS	To analyze stores functions & inventory models
		III MB302	112 E-Business	Mrs.G.Shiba Rani	CO1	To understand E-business basic development and contribution to society
					CO2	Technologies in E-business, Social consequences
2	101				CO3	Understand the concept of Digital marketing, CRM, Tools
					CO4	To attain knowledge of E-business & operations management
					CO5	To understand the components of distribution system, E-payment
					cot	To learns the cues and motives of Entrepreneurship
- 6	1 0	MB303	Entrepreneurship Development		CO2	To learn more about types of Enterprises and growth
3:	100			Mrs.A.Swathi	003	Knowledge of entrepreneurship prepares the entrepreneurial bent of mind
	-		art topposes		004	To understand Problems and perspectives of the entrepreseurabin
_	-				CIO5	To understand and comprehend on venture capital funds
					COI	To Understand higher level skill in Global business
	1 200	50000	Global Business		CO2	To Analyse changes towards Global business environment
	III	MB304	Management	Dr.S.Sujatha	CO3	To Understand problems of global marketing
					CO4	To Apply strategies of global market entry
	-				CO5	To attain the knowledge international industries & markets
	1				COL	To Understand the concept of Real vs Financial Assets - Investment Decision Proce

					CO1	Process
2	MB305E-F-	Investment	Mrs Roohena	CO2	To Analyze the Fixed Income Securities and their Valuation and Management	
5	m	1	Management	Sultana	CO3	To Identify the Common Stocks and to Construct the Security Market Indexes
				- Contractor	CO4	To Analyze the Concept of Portfolio - and Construct the minimum Risk Portfol
_	_				CO5	To Eyaluate Performance of Mutual Funds - Problems & Prospects in India
		1			COL	To Understand the Evolution of International Financial System
		100000			CO2	To Classify the Foreign Exchange Market - Distinctive features and its types
6	m	MB305E-F-		Mrs.Rosbena	CO3	To Examine the Exchange Rate Determination and Risk Management
		n	Finance	Sultana	CO4	To Analyze the Multinational Corporate Decisions in Global Markets
					COS	To Examine the International Tax Environment - Tax implications of foreign enterprises
				COL	To apply the concept of digital marketing	
	2000	MB305E-	Marketing Engineering	Mrs. G.Madhavi	CO2	To understand internet marketing and Digital marketing mix
7	ш	M-I			COS	To understand various social media marketing
	- 0				CO4	To understand Digital marketing strategies and mobile marketing
					COS	To apply new trends in Digital enarketing
		MB305E- M-II	Advertisement and Retail Mgt	Dr.S.Sujatha	COL	To understand the importance of advertising in marketing mix
					003	To understand the importance of creativity in ad-campaign
8	ш				C03	To apply the various concepts of Retail marketing & understand recent trends in retail marketing
					CO4	To compare the functions and performance of organized retailed sector to others
					CO5	To understand concepts of CRM &develop retail CRM programmes
					CO1	To Understand Industrial relations & Labour laws
		MR305E	Industrial		CO2	Analyse Industrial disputes & resolutions
9	III	HR-I	Relations &	Mrs.G.Madhavi	CO3	To Understand trade unionism & legal framework
		Hev.	Labour Laws		CO4	To Summarise the labour legislation in India
		1			CD3	To Summarise the important provisions of wage legislation & women
					CO1	in organization for development.
					CO2	To develop and enhance conceptual, behavioral skills to implement system wide organization change efforts.
10	m	MB305E-	Organisation	Mr.C.Shyum	CCG	To explore about managing the organization development process.
10	411	HR-II	Development	Sunder	CO4	Enhance self-awareness and understanding of group process in order to perform more effectively in their roles.

	005	Examine systematically the techno structural, strategic interventions and sustainability that occurs during organization change efforts.
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Assessment Coordinator

Department of Business Management Methodist College of Engineering & Tachno. Abids. Hydembod-500 001 (1.8.) India



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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2022-23 ODD SEMESTER COURSE OUTCOMES SUMMARY

S.No	Semester	Course Code	Course Name	Course Instructor	CO No	A I SEMESTER - Autonomous Course Outcome
					CO1	Understand the principles and practices of management and specifically the nature of management functions, roles and skills.
	1		Management &		CO2	Understand the process of decision making and its models.
-1	10	MB101C	Organizational	Mrs.A.Swathi	CO3	To inculcate knowledge on personality, perception and theories of motivation.
			Behaviour		C04	Analyze the behavior of individual and groups in organizations in terms of organizational behavior theories, models and concents
					CO5	To understand the concept of organization design, organization climate, organization culture, various aspects of Organization Rehavior and importance of
			Accounting for Management	Mrs.Roubena Sultana	COL	To Understand the Nature and Scope of Financial Accounting
		MB162C			CO2	To Determine the Trading, Profit & Loss A/c and Balance Sheet
2	1				COS	To Analyze the Financial Statements - Classify the Ratios
					CO4	To Categorize the Cash Flow Statement the water of the
					CO5	Ratio Costs - Fixed & Variable Costs - Break - Even Point & P/V
						Evaluate the relevance of marketing concepts impact on environmental change while designing marketing plans, strategies and practices
			14.7.5		CO2	positioning by examining community but below the but and
3	1	МВ103С	Marketing Management	Mr.C.Shyam Sunder	CO3	Abulty to attenuate the unique marketing mixes and selling propositions for specific product offerings and pricing objects.
					CD4	strategies and distribution attention
1				- 7	me	Ability to analyse marketing control techniques and can understand strategies related to rural, global and services marketing areas.

					.CO	Understand the concept and applications of probability in the management
4 ~ MB10		Statistics for Management	Mr.J.Rama Krishna	CO2	the execution introduced dypes of registering recognition and producting districtions	
	MB104C			003	The state of the s	
			10 31		C04	technological annual and an alternative and appearing population broblems
					C05	The determines the search search search at the search sear
					COI	I william and the property of the regal aspects of behildest.
5	2.00	*****	Business Law &	The second second	CO2	Apply basic legal knowledge to business transactions.
	200	MBHISC	Ethics	Dr.S.Sqiatha	C03	
- 1					C04	Integrate the concept of ethics & value based considerations in business
-	_				005	To Understand the role of managers in the firms
				CO1	To summarize the concepts and classify the categories of Information systems.	
. 1	191	MB166C	IT Applications for Management	Mr.D.Seina	CO2	To apply the technology infrastructure of computer hardware & software.
. 1	3				003	To apply the basic knowledge of database connectivity.
					CO4	To apply different types of inter-organizational systems.
-		_			005	10 take measures to solve the problems valors to 1.05
-1			Financial a Markets de Services	Mrs.G Shiba Rani	CO1.	To understand & differentiate between financial markets & financial services
					CO2.	Understand Merchant banking and its functions
	- 1	MB107E.a			CO3	To summarize the concept of I mains and IV.
					COL	trends transcription de la contracteristics de la contracteristic de la c
					005	To Understand the concept & functions of Factoring and concept of Credit ratio
					001	
					COI	To understand about the role and process of communication.
			1		CO2.1	government and the second communication management of the
	1	MB107E.6	Managerial Communication	Mrs.A.Swathi		
			снашинасторя	AND SEASON STREET	CO4	To enhance presentation skills and methods of speaking, analyzing the audience.
_					CCOS	To maintain better relations with media and understand about crisis

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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2022-36 EVEN SEMESTER COURSE OUTCOMES SUMMARY

S.No	Semester	Course Code	Course Name	Course Instructor	CON	Course Outcome
				-	CO1	organizations
		111			CO2	Examine current issues, trends, practices, and processes in HRM
1	и	MB201C	Human Resource Management	Mrs.A.Swathi	C03	Simplify employee performance management and organizational effectiveness
					CO4	Problem-solve human resource challenges
	_				C05	Develop effective written and oral communication skills
				COI	To Classify the Nature and Scope of Pissance Function	
	2 II MB202C			CO2	To Evaluate and Appraise the Investment Decisions	
2		MB202C Financial Mangement	Financial	Mrs. Roubens	CO3	To Identify the different Sources of Finance
2			Sultuna	CO4	To Classify the Current Assets and Examine the major theories of Dividends	
- 1	_				CO5	To Outline Corporate Restructuring and Corporate Governance
			28	l is	COL	of operations research and apply the eraphical method to find any
					MANE I	LO RECEIVE DATE STREET, and afternal conference of the con-
	n I	MR293C	Operations Research		Invove: I	The second of the second secon
				Mrs.I.Sowjanyu	-	canopartation problem, assumment model and to solve them
ч			The Woods		COL	To identify the resources project and generate a plan and the
-					CO5	solving business problems.
Ш		1			CO1 7	To understand the fundamental principles of TOM
ч	- 1	- 1			CO2	to choose appropriate TOM Tools for improving assessment
	п	MB204C	Total Quality Management	Mrs.G.Shiba Rani	CC3	uality (Control of the Control of th
_1					CO4 7	o understand concept of six sigma & apply six sigma problem solving

					CO5	To construct TQM in service sectors
					001	To categorise the methods involved in analyzing the business outcomes
			Business		CO2	To demonstrate the ability to collect data from various sources for the purposes of research.
5	п	MB205C	Research Methods	Mrs.G.Madkevi	C03	To Classify the quality of data collected by analysis , scaling and probability
			reguerous		C04	To be tole to evaluate by cause and effect the confession and a mathematical expression by regression of the data
					cos	To be able to apply the Business research Methods for the solution of problems in practice.
				Mrs.G.Madhavi	CO1	To Understand the role of managers in the firms
			Economics For Managers		C02	Understand the demand & supply conditions of the firm
6	п	MB206C			CO3	To Interpret production function, economies & diseconomies of scale, cost analysis
					CO4	To understand market structure & pricing practices
					CO3 -	Understand the concept of National income, Inflation & its effect on trade
				Mr.C.Shyan Sunder	COL	Gain the conceptual clarity on the basic concepts of R & D
					CO2	Define budget allocations for R & D projects in organization
7	II	MB207E.a	Innovation		CO3	Understand effective R & D Management and evaluating progress
		-	Management		004	Explain innovation management and importance of impossion
_					CO5	Learn about innovation within the organization and impact of IT on innovation
			3		CO1	management and gives a real world understanding of CRM. Understand
					C02	To Analyse, acquaint, understand and describe a customer relationship management application.
R	n	MB207E.b	Customer Relationship	Mrs.A.Swathi	cm	To provide real-time insights into the successfully implemented CRM in various organizations :
			Management		004	To Create Awareness in implementation of CRM by understanding the end users and to retain their customers
					C05	To study how CRM allowed for decision making, evolved relationships to a higher level of understanding & target market users.

Assessment Chardinator

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DEPARTMENT OF BUSINESS MANAGEMENT ACADEMIC YEAR 2022-23 EVEN SEMESTER COURSE OUTCOMES SUMMARY MBA IV SEMESTER - Autonomous

.Ne	Semester	Course	Course Name	Course Instructor	CO No	Course Outcome
					CO1	Understand the importance, scope and concept of Strategy & Strategic Management Process.
,	. IV.	MB401C	Strutegic	Dr S Sujetha	CO2	Formulate the Vision, Mission statements and define goals, objectives for organizations.
21	F. 330	Manage	Management		CO3	Analyze role of environment for strategy formulation.
					CO4	Determine the alternatives for strategy formulation & sustenance.
					CO5	Identify strategy implementation procedures coupled with corporate ethics.
Ч				Mrs.G.Madhavi	001	To Understand the History, Evolution, Styles & Benefits of Business Intelligence
		SS S LOS	Business		CO2	To Classify the Data Warehousing and Data Mining Approaches and Applications
2	IV	MB402C	Intelligence		CO3	To Compare the Business Performance Measurement (BPM) and Business Intelligence
					CO4	To Classify Business Analytics and Data Visualization
					CO5	To Summarize Business Intelligence Implementation
					COL	Understand basic and fundamentals of supply chain management
			P 1 1		COI	To summarize logistics management & Inventory management
3	IV.	MB403C	Supply Chain Management	Mrs.G.Shiba Rani	COI	Understand the role of Transportation & Warehousing
			hammagement		CO4	Analyze role of Information technology in SCM
					CO5	Understand key operation aspects like Distributors, HR in Supply Chain
					CO1	To Understand the concept of Risk, and Illustrate Risk Management Proces
					CO2	To Construct the Value at Risk (VaR) and Cash Flow at Risk (

,	IV	MB404C-F-	Financial Risk	Mrs. A Brundayani	CO3	To Identify the Techniques and Tolls of Risk Management – Forwards and Future Contracts
	14	1	Management	MR.A.Brindishiii	CO4	To Compare the different types of Swaps - Interest Rate Swaps & Currency Swaps
					COS	To Apply the Techniques and Tools of Risk Management - Options on Stock Indices
					COL	To understad the structure of banking & insurance business in India.
- 1			Banking & Insurance		CO2	To examine the products & services in Banking & Insurance.
	iv	MB464C-F-		44 0000 000	CO3	To identify the regulation & innovations in the banking system.
5	1×	п		Mrs.G.Shiha Rani	C04	To evaluate the potential of Insurance business in India.
					COS	To propose diversified, customised and advanced banking and insurance services to the customers.
					COL	To understand how major factors influences in buyer behaviour
	IV	MB404C-	Buyer Behaviour	Mrs. G Madhavi	C02	To apply theories of buying behaviour in learning principles and their marketing implications
6	IV	M-L			CO3	To understand the impact of culture on buyer behaviour
					CO4	To understand post purchase behaviour of consumer
					CO5	To apply traditional and contemporary models of consumer behaviour
					001	To apply concepts for effective management in service marketing
		MB404C-	Services	Dr.S.Sujatha	002	To understand customer expectations through market research and consume behaviour in services
7	IV:	M-II	Marketing		CO3	To apply marketing mix in services marketing
		Jan-M	istarseoug		CO4	To understand product differentiation ,pricing,promotion,distribution of services
					CO5	To apply various service models in different sectors
					COL	Understand the basic concepts of leadership and personality types.
	-	MB484C-	Leadership &		CO2	Acquire knowledge and understanding of different leadership styles and models.
8	IV	HR-I	Change	Mr.C.Shyam Sunder	CO3	Define various change process models for organizational change.
ш			Maagement		C04	Familiarize with the drivers, methods and model of change.
					C05	Define various methods and models of change management.
					COL	and the essentials of performance management
					COZ	The student will learn the nature and complexity of performance management & able to design one that is suitable to a business

9	īv	MB404C- HR-II	Performance Management	Mrs.A.Swathi	CO3	To build performance plans in respect of employees and develop a system of counseling for improving their performance
					CO4	To experiment with different methods of performance appraisals and involve employees towards managing their performances
					005	To take part in teams and link their performances with reward systems and to ensure achievement of organizational goals successfully

Assessment Coordinator

Department of Business Management.
Methods College of Ingreering & Technolog.
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					DEP	University & Approved by AICTE ARTMENT OF CIVIL ENGINEERING
					ACADI	MIC YEAR 2022-2023 ODD SEMESTER
					-	COURSE OUTCOMES SUMMARY
5	Semest	Cours	Course	Course		Semester : III SEM Autonomous
2.00	er	e	Name	Instruct	Co No	COURSE OUTCOMES
		60			COL	
		2BS303HS	Mathematics	Mr. Rama Krishna	CO2	Find the solution of algebraic and transcendental equations using numerical methods.
1	III	30	8 H	2.4	CO3	Apply numerical techniques to solve ordinary differential equations and definite integrals
		88	4	5.5	CO4	Apply mamerical methods to interpolate values and fit different curves from given data
		6.6	2	2	COS	Find solutions of first order linear and nonlinear partial differential equations.
				- 22	COI	Apply the solution of partial differential equations to physical problems
		90	Managerial Economics & Financial	1	CO2	Describe various forces and decision making in the organization
77	90,50	2HS302HS		Mr. Shyam Sunder	DA ASSET	Describe various factors influencing demand & price in market
2	m	8			CO3	Explain the principles of accounting and shall be able to prepare & solve problems in journal, ledger, trial balance & final accounts
					CO4	Analyse the financial statement and performance of the company
			Z 20			Explain the capital structure & to take decision on selection of projects and long-term
					CO5	investment of the following decision on selection of projects and long-term
			20 20		COL	Formulate simple algorithms for arithmetic and logical problem
		99	2.5	S	CO2	Implement conditional branching inequires and assessing
3		ĕ	1 8	th th	CO3	Decompane a problem into functions and synthesize a compare program using divide and conque approach
3	III	2ES301CS	日日	n. Sbaz Jabeun		
		- 11	Programming for problem solving	Mrs. Shaziya Jabeen	CO4	Use arrays, pointers, structures and file management to solve real world problems
- 11			P 25	2	COS	The first programming to source intuitive addition and multiplications wealth-
_	_	_	-	_	-	
	- 1	1 9	73 .		COL	Differentiate between various building materials i.e., both conventional and smart
- 1			8 60	-	200	
- 1		100	1 전	2	CO2	Illustrate the properties of concrete materials and procedures of their physical tests i.e.,
. 1		0	5 45	Sp -		
4	III	ZPC101CE	10 15	5	CO3	Explain the process of plantaging and the
- 1		2	20 00	0.		
- 1		54	Building Moterials and Concrete Technology	Ms. P. Jyotsna	CO4	to seeing or concrete materials and on fresh and bardened on seeing
- 1			S W			
			444		CO5	Calculate the concrete mix proportions according to requirements of IS, BIS and ACI
_		_				codes. Illustrate the characteristics of concrete

S.no	The state of the s	Cours	Course	Course		COURSE OUTCOMES
	er		Name	Instruct	Co No	Course Outcome
			26		COL	APPLY the fundamental concepts of stress and strain in the analysis and design of axially loaded members
		141	i i	tu	CO2	ANALYSE the determinate beams to construct SFD and BMD
5	m	2PC302CE	Solid Mechanics	Mr. P. Srikanth	CO3	members subjected to combined axial and bonding stresses
		2PC	Solid	Mr. P	CO4	EVALUTE stresses in cylindrical pressure wessels
					CO5	EVALUATE the stresses of circular members subjected to torsion and analyze different types of springs.
				Imran	CO1	Explain the concepts, working principles involved in basic as well as modern surveyin equipments & technologies and also defines the concepts of horizontal and vertical curves.
6	m	2PC303CE	Surveying	Mr. Shaik Mohammad Imran	CO2	Apply the knowledge of surveying & levelling in calculating lengths, bearings, areas, Volumes, reduced levels, elevation differences, plot of a ground & scale of photograph
		2PC	Sun	ik Mc	CO3	angles, heights of inaccessible points
				r. Sha	CO4	Make use of knowledge of curves concept in surveying, in setting out both horizontal and vertical curves for the purpose of resolution and vertical curves for the purpose of resolution and vertical curves.
_				X	CO5	measurements in traverse and compute the missing data
		50		28	COL	Understand the concepts of Indian culture and Traditions and their important
00	1	프	o u n	E -	C-076	consumption and indian languages and literature
7	Ш	8	ssence o Indian adition	å l	CO3	Learn the philosophy of ancient, medieval and modern India.
		2MC302HS	Essence of Indian Traditional	Mrs. Deepthi	cos !	Acquire the information about the fine arts in India Know the contribution of scientists of different erns, interpret the concepts and the
\neg				_	and the second	importance to protect intellectual property of the nation
		2ES351CS	ogramming fo oblem Solving Laboratory	Mrs. Stazzya Jabeen	COS	Choose appropriate data type for implementing programs in C language Design and implement modular programs involving output operations, decision making
8	ш	150	TIL S	S. Shazri) Jabeen	24	and tooping constructs
		53	len de	1 H	CO4 I	Apply the concept of arrays, pointers for implementing programs and string handling
		6	Programming for Problem Solving Laboratory	Mr	cos l'	Design and implement programs to store data in structures and files. Develop confidence for self education and ability for lifelog learning need for computer anguages.
			6		COI	Demonstrate the working principles and handling procedures of basic surveying
		19	boratory	hammad	CO2 1	Demonstrate the levelling instruments and apply the knowledge of levelling in finding out the reduced levels of ground

S.no	Semest	Cours	Course	Course		COURSE OUTCOMES
111111	er	e	Name	Instruct	Ca No	Course Outcome
	m	2PC351	ng La	Shaik Ma Imnan	CO3	Demonstrate the working principles and handling procedures of theodolite, total station and Hand-held GPS
		21	Surveying	Sha	C04	Make use of surveying equipment in computing lengths, areas & bearings of given field work
		155	Mr.	CO5	Apply the knowledge of trigonometrical levelling in finding out reduced levels of elevated objects which are both accessible and inaccessible points	
			te Technology aboratory	Prasanna Kumari & r. P. Srikanth	COI	Determine the properties of cement of given cement sample and assess its suitability for use in construction
		н			CO2	Determine the properties of F.A. and C.A. samples to assess their suitability for use in construction works
10	m	2PC352CE			CO3	Determine the properties of C.A. samples to assess their suitability for use in construction work
	1	12	문결	Mr. Pra	CO4	Measure the workability of concrete and recommend its suitability for structural works
			Concrete	Mrs. P. I	CO5	Determine the compressive strength of concrete cubes
					C06	Conduct destructive and non-destructive tests to evaluate the quality and strength of concrete

June !

Head of the Department
Department of Civil Engineering
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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 EVEN SEMESTER

	100				mester : IV :	SEM Autonomous	
Sino	Semest	Course	Course Name	Course		COURSE OUTCOMES	
-	er	Code	- Course ; tange	Instructors	Co No	Course Outcome	
			-0 W	8	CO1	Understand the significance of value inputs in a classroom and start applying them in their, life and profession.	
	1 1	100	8.3	-dg	CO2	Assess their own ethical values and the social context of problems.	
£	IV	2HS403HS	Human Values and Professional Ethics	Mrs. A. L. Jayashroo	CO3	Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual etc.	
		Ħ	fuma rofes	FF. A	CO4	Understand the role of a human being in ensuring harmony in society and nature.	
				Z	COS	Distinguish between ethical and unethical practices and start working out the strategy to actualize a harmonious environment wherever they work.	
			200	Dr. Shaik Khaleel Ahamed	coi	Examine Python syntax and semantics and be fluent in the use of python flow control and functions	
		100	Ē		CO2	Demonstrate proficiency in handling strings and file systems	
2	IV	2ES403CS	Seram measure		CO3	Create, run and manipulate python programs using core data structures lik lists, tuples and dictionaries	
			2		CO4	Interpret the concepts of object-oriented programming as used in python	
			Python Programming		CO5	Created and animate a variety of shapes and develop an application with graphical user interface (GUI)	
			60		CO6	Implement exemplary applications related to network programming, web services and databases in python	
			pg		COL	Calculate the deflections of determinate beams due to transverse loads by various methods	
		50	is see	e	CO2	Evaluate the buckling/critical load of column for various end conditions using different theories.	
3	IV	04CE	os of Mate Structures	Srikan	CO3	Analyse the beams subjected to unsymmetrical bending and compute the location of shear center for various sections	
<i>y</i> .		2PC404CE	2PC40	unics of Materials and Structures	Mr. P. Srikauth	CO4	Determine the static and kinematic indeterminacy of indeterminate structures and analyse propped cantilever, fixed and continous beams using force method of analysis.

S.no	Semest	Course	Course Name	Course		COURSE OUTCOMES
- Sector	er	Code		Instructors	Co No	Course Outcome
			Med		CO5	Apply energy principle and various energy methods to analyse beams, indeterminate trusses and frames to find deflections and redundant forces.
			Design of Reinforced Concrete Structures	trian	CO1	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
2	200	SCE	same same	Mrs. M. Mary Soujanya	CO2	Apply the key concepts, theories and mathematical fundamentals to analyzand design the structural elements.
4	IV	2PC405CE	Reinforced	Man	CO3	Analyze the moment capacity of structural elements & design the structural elements for flexure, shear and torsion
			Jo	×	CO4	Examine the serviceability of structural elements
			Design	Mrs.	COS	Design simple structural members to be able to safely resist bending, shear torsion, deflection and compression within the imposed factors of safety.
		ш	Si	Kaik	CO1	Illustrate the various properties of fluids and compute pressure using manometers
-33	20	29	Fluid Mechanics	Dr. Bandita Naik	CO2	Relate types of flows with the corresponding mathematical equations
5	IV	2PC306CE			CO3	Apply principles of fluid Statics, dynamics and kinematics to make flow measurement calculations
	1 1		2		CO4	Make use of different fluid flow measuring devices.
			184	E2	CO5	Apply dimensional analysis and model studies to fluid flow problems
	1 1	CHI CHI	8	77	COI	Explain the interaction among various processes in the hydrologic cycle.
100		22	100	\$ 5 L	CO2	Estimate net evaporation rate from waterbodies with free surface bodies
6	IV	8	dr.o	E 2	CO3	Develop the rainfall-runoff relationship
		2PC307CE	Hydrology	Ms. SHipbali Pretti Aind	CO4	Analysis drawdown and yield in aquifers
		144	1771	2 ~	COS	Design the flood for Water Resources Structures
					CO1	Have a general knowledge and back ground about the Constitution of India and its importunce
		HS	Constitution of India	sthi	CO2	Will distinguish and understand the working of the Central, state and provincial levels of administration.
7	IV	2MC403HS	nogn	Ms. Deepthi	C03	Will be conscious about the fundamental duties, responsibilities and rights as an ideal citizen of India
		2N	onstill	ž	CO4	Will be able to perceive and interpret the functioning and distribution of resources between Centre and state
			ŭ		COS	Have an awareness and relate to the existing hierarchy of the social structure, election process and Grievance redressal in a democracy.

S.no	Semest	Course	Course Name	Course		COURSE OUTCOMES
SAME	er	Code	Course Name	Instructors	Co No	Course Outcome
			als		coi	Appraise the behaviour of a ductile material under direct tension test, in addition to gaining knowledge on clastic properties of the material.
	1 1		ie.		CO2	Identify the hardness of various metals like brass, copper, aluminum etc
8	IV	1PC453CE	Laboratory	iy Sai	CO3	Assess the flexural properties of beams (simply supported, cantilever and fixed) of different materials like wood, steel, copper, aluminum etc.
8.			Mechanics of Materials Laboratory	Mrs. M. Mary Soujanya	CO4	Interpret the application of tension and compression springs in practice to understand the properties like stiffness, capacity, shear modulus etc. of the springs
			×		CO5	Examine the impact properties of the materials and also energy absorption.
		ZPC454CE	g and ilory	pod sms	COL	Illustrate the basic principles of building planning and drawings as per coda provisions.
9	IV		Building Drawing and Draffing Laboratory	Mr. Mohd Shahed All/ Ms. P. Jyotsuu	CO2	Apply the tools of AUTOCAD software to prepare structural drawings of various building components.
					CO3	Develop plan, elevation and sectional drawings of residential buildings in AutoCAD software.
	1 1		祖 英 居	2 2	CO4	Develop isometric views of Single storey.
	-		田 四	2000	CO5	Develop isometric views of Double storey residential buildings
		2ES453CE	Python Programming Lab	3 - 2	COI	Develop solutions to simple computational problems using Python programs
10	IV.	8	E il de	nde on	CO2	Solve problems using conditionals and loops in Python
	5.77	95	Python grammi Lab	Dr. Shaik Khaleel Ahamed	CO3	Develop Python programs by defining functions and calling them
		54	Prog	2×4	CO4	Use Python lists, tuples and dictionaries for sepresenting compound data
					CO5	Develop Python programs for GUI applications

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Head of the Department
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						DEPARTMENT OF CIVIL ENGINEERING
_					AC	ADEMIC YEAR 2022-2023 ODD SEMESTER
						COURSE OUTCOMES SUMMARY
Semes	ter: V SI					Service Control of the Control of th
Sam	Semest	Course	Course	Course		COURSE OUTCOMES
	er.	Code	Name	Instructors	Co No	Course Course
					COL	DIFFERENTIATE the difference between statically determinate and indererminate structures.
		00.	sunce	die	CO2	ANALYSE the given continous beam using slope deflection method, moment distribution method in Kani's method.
	v	PC409CE	f Stru	Mr. P. Schanth	CO3	ANALYSE the given portal frame using slope deflection method, moment distribution method and Kani's method.
		2	24	6	C04	ANALYSE the given structure to draw SFD and BMD.
			Theory of Structures	4	COS	ANALYSE the INFI DENCE LINE DIACIDANCE for the con-
					CO6	ANALYSE the INFLUENCE LINE DIAGRAMS for the given simple beam and trusses with moving loads.
				Ms. M. Madhuri	COL	Classify the soil and interpret their index properties.
		įų.	Soil Mechanics		CO2	Explain capillarity and laboratory procedure to determine the permiability parameters. Calculate the capillarity and permeability parameters of soils.
2	v	ŏ			CO3	Explain the stresses in the soil and draw to flow net to compute the seepage quantity in soils.
		PC410CE			2772.4	Illustrate the mechanisms of the process of compaction and consolidation of soils, and the laboratory procedures to determine their characteristics
			66	×	COS	Analyse the soils for their shear strength and predict the stability of slopes.
					CO6	Explain the concept of Quick Sand Phenomena and its remedial measures
			400		COL	Explain the properties of cement and admixtures as per IS code.
	1 7	100	Concrete	Mrs. Mary Soujanya	CO2	Explain the properties of aggregates as per IS code
3	v	=	20 00	M of	CO3	Illustrate the properties of fresh Concrete.
	1 2 1	PC411CE	Concrete	2 8	CO4	Examine the properties of Hardened Concrete
		E.	Te	200	CO5	Use the codal provisions for the preparing required concrete mix.
			3.2		CU6 1	Demonstrate specific application of aperial concretes
		Tree.	Water Resource Engineering	Dr. Bandita Naik	COL	illustrate different types of storage works. fixation of different levels of reservoirs and evaporation reduction techniques (LWL_FR)_AFWT)
		- 5	8 5	a l	CO2	Distinguish between the types of dants, irrigation tanks, spillways and spillway crest gates
4	V		B 8	9	CO3	Design different types of Storage works Applying
		PC412CE	fater Resourc Engineering	in G	CO4	Analyze the structural stability of different storage works
		-	N E	7	COS	Apply the Design of regulatory systems
			5	0	CO6	Select the factors leading to the assessment of waterpower potential and layout of a hydel plant
9			Ti		COL	Identify the sources of water and externate the water quality.

Sug	Semest		I Day 1071 No. Co. The	The second second second		COURSE OUTCOMES
	cr	Code	Annual Control of the Control	Instructors	Co No	Course Outcome
		83	8 E	12.00	COL	Determine the water demand for different cities and Design the water supply network
5	v	PC413CE	nvironnera Engineering	# ×	CO3	Use the basic information in designing the components of water treatment plant
		3	5 5	S E	CO4	Determine the sewage flow using various approaches
		2	Environment Engineering	Ms. Shipali Preeti Aind	CO3	Explain the knowledge on Self purification of streams, BOD and COD
			144		CO6	Apply the basic concepts to design of septic tank, activated shadge tank and its components.
			9	mari	COL	projects
	v	PCMI4CE	action ing an	Mis. Prasana Kumari	CO2	Apply various network theories such as PERT and CPM in construction management to construction projects
6	V.		Construction Engineering and Management	rasan		Analyze cost time analysis, resource optimization techniques and apply project management software for resource optimization in construction projects.
				Mrs. 1	C04	Understand various types of contract documents, tenders, detailed project reports and labour acts in construction practice.
_		_	-		COS	Apply optimization techniques and linear programming in construction practice.
		25.	Soil Mechanics Lab	Mr. D. Bharach Naik		Appendicular the index properties of Soil
		PC455CE			CO2	Determine the Atterberg's limits of time prained Soil
7	V	55			CO3	Identify and classify the soil
		Ď.	N	02	CO4	Calculate the Permeability of Soils
		100	9	5	COS	Determine the Engineering properties of Soil
_		_		The second second	CO6	Determine the Shear Parameters of Soil by Direct Shear Foot
		100	Concrete Technology Lab	Mrz. Shaista Begum & Mrz. Mary Soujanya	COL	Outline the importance of cernent appropriate and their properties
		PC456CE	Concrete tinology I	Mrz. Shaista kegum & Mrs fary Soujany	COZ	Evaluate the different properties of cement
8	v	99	9 9	S as as	CO3 1	Assess the different properties of Fine Autreoute
100		2	9 8	E 1 10	CO4	Assess the different properties of Course Appropria
		- Mar	00	N M M	CO5	Evaluate the workabilty on fresh concrete
_		_			CO6	Analyze the compressive strength of hardened concrete
		15/2	EE	E 20 P	COL	Determine physical, chemical and biological characteristics of water and consequent
		E	5 20	2 × 2	14.166	Outsine the procedure for preparations of stock and standard solutions their bandline and standard
9	V.	6	8 5	L. San tar & ali Pr	2-2-5-3	Peneritanic dreak a noint entorination
	120	PC457CE	ne ne	N E E	CO4	Assess the suitability of water for drinking, irriention purpose and consecution
		0.	Environmental	Dr. K. Santonh Kumar & Ms. Shipali Preeti Aind	-5/50/C E	Acceptance and proper and particular density of portable worter
_				Sec. 1997. 11	CO6	Assess the quality of water and wastewater

July

Head of the Department
Department of Civil Engineering
METHODIST COLLEGE OF ENCE & TECH.



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DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2022-2023 EVEN SEMESTER COURSE OUTCOMES SUMMARY

Schester: V1 SEM

S.no	SESSO AFFE	Cour	Cou	Cours		COURSE OUTCOMES												
-	ster	se	rse	e	Co No													
			536		COL	Explain the concepts, roles ,norms, bodies, regulations, contract Act and standards of Professional Practice.												
		2	Sice Est	Sultan	C02	Apply the knowledge of professional Business Corporate, Engineering Personal Code of Eth Professionalism, Gift vs Bribery, Whistle blowing.												
1	VI	HS1048M	ud Prac	Rubins	CO3	Apply the knowledge of the Arbitration ,Agreements,Types,Challenge,Court assistance,Conciliation,Lok Adalats												
		-	Professional Practice Ethics	Mrs. R	CO4	Make use of knowledge of Labour ,Related Laws,Sub contract,Industrial Dispute Act, Workmen's Compensation Act,RERA Act.												
			£		CO5	Explain the concepts of Intellectual property Copyrights, Trademarks, Patents and Design , Law and policy considerations.												
		RC419CB	Design of Steel Structures	Som	COI	Explain the composition of structural steel and IS codal provisions and food combinations implemented in the design codes for steel structures.												
2	VI			Shainta Begom	375	Analyze and design simple connections between structural members including riveted and welded connections.												
-				Mrs. Shai	s. Shui	s. Shui	s. Shui	s. Shu	s. Shar	s. Shar	r. Shii	s. Shar	s. Shui	The state of	1	1	CO3	Analyze and Designof tension members
														CO4	Analyze and Design of compression members and beams			
					CO5	Design of Guster base and column bases												
					E06	Evaluate the loading on roof trusses and design of purlins												
					COL	Demonstrate the basics elements of Highway, Pavement, Railway and airport engineering												
			eering		CO2	Explain geometric design of highways, flexible pavements, rigid pavements, railways and airport as per standard code books												
	VI	PC416CE	Engin	Madhuri	cos.	Demonstrate and Identify the traffic parameters and pavement material properties by conducting experiments.												
3	VI.	PC43	PC-196CE fransportation Engineering	ortacion	Ms.M.)	CO4	Explain design principles of highways, intersections, traffic signals, parking studies, pedestria facilities, airport components											
			Transp	-	005	Explain about airport layout, runway and taxiways, design and construction of permanent way of railways												
					COs	Analyze different stress conditions in rigid pavements												

5,00	Seme	Cour	Con	Cours	COURSE OUTCOMES				
- Titte	ster	NC	THE		Co No	5,1001 15, 52004,01111			
			100		COI	Analyse the Arches, cables and suspension bridges for static and moving loads.			
		H	Structural Analysis	Seilanth	CO2	Awalyse the structure using flexibility matrix method to calculate redundant forces and sketch HMD and SFD.			
4	-Vi	PESNICE	arral A	5.50	0.03	Analyse the structure using stiffness matrix method to calculate redundant forces and sketch BMD and SFD.			
	1	- Char	3	Mr. P	C04	Develop stiffness matrix using direct element method for indeterminate structures			
			Ø.	-	CO5	Demonstrate the Structural analysis software puckages.			
_	-		-	-	C06	Analyse the frames using approximate method of analysis.			
			25	HZ20	C01	Define theories related to stress distribution of soil, types of foundations and their various bearing capacities as well as settlements			
	1 -		- 1	7	CO2	Explain Safe bearing capacity of shallow foundations, sinking and stability of well foundations			
-	VI	PESOSCE.	Foundation Engineering	Mr. Stack Mehammed Instan	CO3	Explain necessity, types, methods and suitability of pile foundations, caissons, coffer dams, geotechni- investigations and dewatering techniques.			
*		PES	dation	N N	C04	Make use of theories and field tests to calculate vertical stresses and safe bearing capacity of shallow foundations			
			Found	8	CO5	Make use of load tests and formulae to calculate load earrying capacities & efficiency of pile and pile groups			
	-	-	-	2	CO6	Analyse and calculate different settlements of shallow foundations using settlement analysis			
				hahod	100	Defining infrastructure engineering, economic zone and Compare urban infrastructure and			
		140	Infrastracture Engineering		CO1	Explain Infrastructure Privatization, Compare public and private sector role in infrastructure			
6	VI	2	2 20	N N	C03	Explaining infrastructure planning and implementation, Identifing Risks related to			
		PESIZCE	2 4	Mr. Mohd Shahod All	10 ×	CO4:	Asses the Social & Environmental impacts due to infrastructure Projects. List the		
	1	2	All all		€05	Identify the strategies for successful Infrastructure project implementation, Risk Managemer			
						×	C06	Explain Role of Government in infrastructure implementation.	
			Soft Skiffs & Datement Skiffs		COI	To train the students in effective listening skills required for comprehending and			
		(3)	4 7	2	002	performing the required tasks in Professional Communication			
2	VI	3	2 2	1 2	CO3	To enable the students to develop the required speaking skills as per the necessary			
2	1.55	DEMONEG	W 2	Mr. M. L. Murty	CO4	To equip the students with appropriate reading, comprehending & summarizing			
		0	8 5	Į.	005	To develop professional writing & publishing varieties of documents and required ski To empower the students with the Right Attitude and Coping Techniques			
	1		2		-	The state of the s			
_	+	-	-	-	CX06	To inculcate potential skills in the learners to prepare them to deal with the external			
			8.3	Srikansh Srikansh	CO1.	Identify the grade & properties of bitumen			
	100	PC458CE	3 2	2.3	C03	Create the awareness about various traffic studies in the field			
8	Vf	87	100	200	CO4	Find out peak hour traffic & peak time for a given location on the road			
	1	0	Ternsportation	R 4	COS	Find design speed, maximum speed & minimum speed limits of a location through speed			
			F 20	Temsportation Engineering Lab	76	7 20	Mr. R. Srikansh R. Mr. P. Selkansh	CO3	Identify engineering properties of aggregate Explain nex design of bitumen and CBR test etc
	1			-	COL	Understand the application of software's in civil engineering.			

1704444F L 17	Seme	Cour	Cou	Cours	COURSE OUTCOMES	
	ster	se	rse	e	Co No	Course Outcome
		25	5 6 6	2.	CO2	Development of programs for Design of Siructural elements ading Excel
9	.VI	8	E 2 3	8 8	003	Use of software knowledge for solving Geo technical related problems
		2	1 2 3	2 4	CO4	Use of software knowledge for solving Hydraulic Engineering problems
		-	1 -	2	CO5	Analyze and Design two span continuous beam using STAADPRO
					CO6	Analyze and Design two storied frame using STAADPRO

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Department of CME Engineering
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DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2022-2023 ODD SEMESTER COURSE OUTCOMES SUMMARY

Semester: VII SEM

Sno			Course	Course		COURSE OUTCOMES
34100	er	Code	Name	Instructors	Co No	A STATE OF S
				2	COL	Identify and report the importance and necessity of construction management
		247	pund sud	Mrs. S. Devæ Samyvávlia	CO2	Employ bar charts, networks to determine the critical path and after the construction schedules accordingly.
i	VII	PCA01CE	Construction Engineering and Management	V SS	CO3	Interpret the terms related to costs and time, and there by solve problems on crashing of networ
		2	Con	S D	C04	Categorize various construction contracts, acts and examine various documents related to construction.
			1	Mrs.	CO5	Interpret the concept of Linear Programming in Construction, and solve problems on Graphics and Simplex methods.
		PC402CE		# g CO	C01	Explain the concept of prestressing methods and techniques and recognize the importance of materials used in PSC work
	NSAS.		Prestresned Concrete	Mrs. Shaista Begom	CO2	Explain the behavior of a PSC beam section under given prestress and loads and assess the losss in prestressing
2	VII	2	- 73	15	CO3	Analyse the indeterminate PSC members
		5	8	N. S.	CO4	Extend the knowledge of analysis to Design a PSC beam section for the given conditions.
		-	- 6	16	COS	Analyze the Shear failure and deflections of a PSC beam for safe design of PSC beams
			Pre	M.	CO6	Assess the extent of bursting tension in the end block of a PSC beam and Develop the method of strengthening the end block
			**	-6	CO1 :	Explain the terms and concepts of disaster management
		94	Disaster Management	D. Bharath Naik	CO2	Summarize the catergories of disasters and their characteristics
3	VII	ž	5 E	Na By	CO3	Discuss the framework and measures of pre-disaster, during disaster, post-disaster measures
	7.81	PEHONCE	Disaser	o Z	0.004	Interpret the Indian Disuster Management acts and it's framework
		- D	H 4	N.	CO5	Describe the application of various technologies to desaster management
				- 2	COS	Differentiate the various mitigative measures and our lement them accordingly
			GIS & Remote Sensing	Mohammad Imam (Seo-A) & Ms. M. Madhuri(Seo- B)	COL	Hiestrate basics of remote seasing, energy interactions with earth surface features and their spectral properties
11	2.30	Ü	E 20	T & G	CO2	Classify different types of satellites, sentors and sensor characteristics in remote sensing
4	VII	PE408CE	Sensing Sensing	hammad fo co- A) & N Machuri(S B)	COL	Demonstrate the basic concepts of GIS
		100	8 8	1 6 4 1	CO4	Demonstrate the basic concepts of Map Projections
		100	15	fohrmmad Seo-A) & 4. Mathurit B)	COS	Explain data models and spatial data creation in GIS
- 1			0	S S M	CO6	Explain the various operations in spatial data analysis & terrain modelling

Sime	Semest	Course	Course	Course		COURSE OUTCOMES
NAME OF TAXABLE PARTY.	er	Code	Name	Instructors	Co No	
			disp		CO1	Understand Indian Industrial Environment, Entrepreneurship and Economic growth, Small and Large Scale Industries, Types and forms of enterprises.
		92	encur	Cumilie	C02	Identify the characteristics of entrepreneurs, Emergence of first generation entrepreneurs, Conception and evaluation of ideas and their sources.
5	VII	OE701ME	птерг	iday 3	CO3	Practice the principles of project formulation, Analysis of market demand, Financial and profusbility analysis and Technical analysis.
		8	Startup & Encrepreneurahip	Dr. M. Uday Kumar	C04	Apply the concepts of Project Management during construction phase, project organization, peoject planning and control using CPM, PERT techniques
			Startu	ă	C05	Understand the Behavioral aspects of entrepreneurs. Tithe Management, Various approaches of time management, their strengths and weakness. The urgency addiction and time management matrix
				-	COL	Explain techniques, processes and tools used in the industry
		E2 7.1	100	Mr. Shaik Mohammad Imran	CO2	Discuss the current needs of the industry in his/her area of interest
6	VII	10		r. Shaid sharman Imran	CO3	Explain the practical knowledge acquired in the chosen area/work done
	1.46	PRADICE	Seminar	244	CO4	Summarize and prepare a technical report on internship completed at industry
		£.	. 47	2 2	CO5	Adapt to work in a team or as an individual effectively
				B) &	CO1	Summarize in written form the literature study carried out with relevant data analysis, interpretation and problem identification for the selected project topic.
		667	-	8 8	CO2	Analyse the specific problem using engineering knowledge to agree at a solution with 4.1
7	vn	PW401CE	Project Work- I	nake S barri C	CO3	remutate an investigation procedure and analyze, interpret and synthesise the obtained data using a laboratory procedure and/or modern envincering software and tools.
	1.40	PW4	roject	N and N	C5/50m	Draw valid conclusions and engineering solutions including design, recommendations or estimations, keeping in view the safety norms and remissions in codes of practice.
			4	Dr. Bandin Naik(Sec-B) & Ms. M. Madhuri (Sec- A)	COS	Discuss and communicate in oral and written forms, the technical contents of the project, observing professional ethical principles of documentation.
_				5.0	CO6	Demonstrate individual and teamwork skills in carrying out and managining the project work

Auri!

Head of the Department
Department of Civil Engineering
WETHOUST COLLECE OF ENGL & TECH.



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



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DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2022-2023 EVEN SEMESTER COURSE OUTCOMES SUMMARY

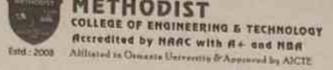
Semester: VIII SEM:

S.no	Semester	Course	Course	Course		COURSE OUTCOMES
	Samoranes	Code	Name	Instructors	Co No	Course Outcome
			90	9	CO1	Develop a better understanding of important issues related to gender in contemporary India.
			Gender Sensitization	Mrs. J. R. Hepzibha	CO2	To change the basic dimensions of the biological. Sociological, psychological and legal aspo- of gender through discussions, facts, everyday life, literature and film
1	VIII	MC	13	2 [CO3	To analyze how gender discrimination works in our society and how to counter it
	11/0/0	- 6	65	25	CO4	To identify and plan better ways of working and living together as equals
			2	1 2 1	COS	To develop a sense of appreciation of women in all walks of life
			8	Mrs	CO6	To enable in developing good interpersonal relationships at work places and to develop a sustain interest in sender constity
			rg of	2	CO1	Explain the concepts of sustainability and a green building, along with its features and benefit
		W2:	Principles of Green buildings	Ms. Shiphali Preeti Aind	CO2	Describe the criteria and methods used for site selection & planning and in achieving water efficiency in green buildings.
2	VIII	PEALICE	Gire	ali Pre	CO3	Define the terms and explain the methods used for achieving energy efficiency in green buildings
		9.6	lo sul	Shiph	CO4	Discuss the various types of building materials and waste management methods for a sustainable built environment.
			0	26	CO5	Describe the methods used to maintain indoor environmental quality
			Pri	*	CO6	List the various Green Building Rating systems applicable in India, and also the standard national and international codes related to green building and international codes related to green building as a fine standard
					CO1	procuomicate comprehension of HS objectives, historical background and background
			ation		CO2	video data collection.
		8	sport.	threath	CO3	11 MCs, and vehicle-madside communication
3	VIII	PE415CE	Intelligent Transportation Systems	Mr. R. Srikanth	CO4	Demonstrate comprehension of ITS functional areas including ATMS, ATIS, CVO, AVCS, APTS, and ARTS
		2	Myen	Mr.	COS	Transportation management electronic payment and appropriate
			Inte		CO6	To adverte how gender discrimination works in our society and how to counter it. To identify and plan better ways of working and living together as equals. To develop a sense of appreciation of women in all walks of life. To enable in developing good interpersonal relationships at work places and to deviaustain interest in sender constity. Explain the concepts of sustainability and a green building, along with its features a Describe the criteria and methods used for site selection & planning and in achieving efficiency in green buildings. Define the terms and explain the methods used for achieving energy efficiency in grantidings. Define the terms and explain the methods used for achieving energy efficiency in grantidings. Discuss the various types of building materials and waste management methods for sustainable build environment. Describe the methods used to maintain indoce environmental quality. List the various Green Building Rating systems applicable in India, and also the standard and international codes related to green building practices. Demonstrate comprehension of ITS objectives, historical background, and benefits. Recall the data collection techniques used in ITS, including defectors, AVL, AVI, Govideo data collection. Utifize the importance of telecommunications in ITS, including information manage TMCs, and vehicle-roadside communications. Demonstrate comprehension of ITS functional areas including ATMS, ATIS, CVO, APTS, and ARTS Recall user needs and services of ITS, including travel and traffic management, pub transportation management, electronic payment, and emergency management. Utilize concepts of automated highway systems, including vehicles in platoons and governey of ITS implicincentations, and understand impact on sustainable mobility and demand management. Describe the fundamentals of additive manufacturing classify and explain advantage disadvantages of D Printing technologies.
		ш	sting ogies	Anwar	COL	Describe the fundamentals of additive manufacturing classify and explain advantages and disadvantages of 3D Printing technologies
	1 1	ME	sting	5	CO2	Describe the operating principles capabilities and limitations of liquid based systems.

Sino	Semester	Course	Course	Course		COURSE OUTCOMES
-	2.50000000	Code		Instructors	Co Nu	
	VIII	OESO	Pri	T I	COL	Describe the operating principles empobilities and fimitations of solid based systems
		30	3D Pri Technol	150	CO4	a squarm the operating principles, specifications, advantages and disadvantages of powder bused
_				2	CO5	Applying the capabilities of additive manufacturing in different in board out
		ш		5	COI	Surromarize in written form the literature study carried out with relevant data analysis
			=	p and	强 CO2	Analyse the specific problem using engineering knowledge to arrive at a solution methodology
5	s viii	704C	CO3 Applying the capabilities of additive manufacturing Summurize in written form the literature study carrest interpretation and problem identification for the set CO2 Analyse the specific problem using engineering kn Formulate an investigation procedure and analyze, using a laboratory procedure and/or modern engine CO3 Draw valid conclusions and engineering solutions in estimations, keeping in view the safety norms and estimations.	dhuri Is N	CO3	and investigation procedure and analyze intermed and synthesise the obtained Lag
		M.d		radia conclusions and engineering solutions including decion, recommendations in		
				1.41	C05	the beautiful and the written forms, the technical contents of the necessity
_				N B	CO5	Demonstrate individual and teamwork skills in carrying out and managining the project work

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Head of the Department
Department of Civil Engineering
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Course Outcomes AY: 2022-23 III Semester Course Taxonomy Course Name Code Course Outcomes Find the solution of algebraic and transcendental Apply equations using numerical methods. Apply numerical techniques to solve ordinary differential Apply equations an definite integrals. NMFS Apply numerical methods to interpolate values and fit 4BS303EE Apply different curves from given data. Expand function as a Fourier series Apply Apply the solution of partial differential equations to Apply physical problems Understand the vector calculus for electromagnetism. Understand Apply the electric fields for simple configurations under static conditions Apply Analyze and apply the static magnetic fields. Analyze EMF 4PC301EE Analyze the Electrical Circuits with the concept of Network topology Analyze Understand Maxwell's equation in different forms and different media Understand Understand the propagation of EM wave Understand Explain the concepts of single phase, three phase systems Understanding and magnetic circuits Calculate various parameters of magnetic circuits and Applying electrical circuits (under steady state and transient condition) Analyze electrical circuits with network theorems, mesh Analyzing EC-I 4PC302EE and nodal analysis methods and under resonance condition Analyze electrical circuits under transient condition with Analyzing and without Laplace transforms Analyze a given three phase system and magnetic circuits Analyzing

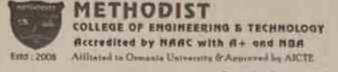
		conversion, operators, storage classes, recursion, pointers, file handling operations	Understand
		Write components of computer system, flowchart for algorithms and types of files, Pre processors	Apply
4ES304CS		apply the knowledge of coding for the problem solving and compilation	Apply
	PPS	apply the knowledge of conditional branching,loops,arrays and string to pass functions, call by value,call by reference with dynamic memory allocation concept.	Apply
		write searching and sorting algorithms with help of arrays and about command line arguments, structures and unions.	Apply
		Analyze the CE,CB using small signal model, transistor biasing, feedback concept	Analyze
		Analyze the working principal of oscillators, amplifiers, its applications	Analyze
4PC303EE	ADE	Design the combinational circuits using basic gates	Create
4PC303EE		Design the sequential circuits using the basic flip flops	Create
		Analyze the A/D D/A converters, understand the different types memory devices	Analyze
		Understand the Significance of value inputs in a classroom and start applying them in their life and profession	Understand
		Assess their own ethical values and the social context of problems.	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
		Understand the role of a human being in ensuring harmony in society and nature.	Understand
		Distinguish between ethical and unethical practices and start working out the strategy to actualize a harmonious environment wherever they work.	Understand
		Understand the concepts of Indian culture and Traditions and their importance	Understand
		Distinguish the Indian languages and literature	Understand
4MC302HS	EITK	Learn the philosophy of ancient, medieval and modern India.	Understand
8 T.		Acquire the information about the fine arts in India	Understand

		interpret the concepts and the importance to protect intellectual property of the nation	
	757 -	Describe and analyze different types of diodes, their operations and characteristics	Analyze
		Calculate ripple factor, efficiency and % regulation of rectifier circuits	Design
4PC351EE	ADE LAB	Analyse feedback amplifiers and op-amp oscillator circuits	Realize
		Design single, and multi-stage amplifier, wave shaping and controller circuits	Design
		Understand the characteristics of electronics devices	Understand
		Design of p, pi and pid controllers using op-amps	Design
		Choose appropriate data type for implementing programs in C language	Apply
		Design and implement modular programs involving output operations, decision making and looping constructs	Create
4ES354CS	PPS LAB	Apply the concept of arrays, pointers for implementing programs and string handling	Apply
		Design and implement programs to store data in structures and files	Create
		Develop confidence for self education and ability for lifelog learning need for computer languages	Create

Accoordinator

HOD
Head of Department
Department of FEE

Methodist College of Engg & Abids, Hyderabao-500 (





AY: 2022-23

Course Outcomes

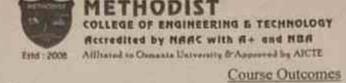
AY: 2022-2	23		IV Semester
Course Code	Course Name	Course Outcomes	Taxonomy
		Understand the basic concepts of financial accounting classify preparation of various books of accounts	Understand
		Analyze& interpret financial statements.	Analyze
4HS403BM	MEFA	Interpret knowledge about the functioning & working of various financial institutions.	Understand
		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
		Evaluate the financial performance of the business unit.	Evaluate
		Analyze and understand working of conventional power generation methods	Analyze
		Analyze and understand the alternate energy sources of power generation	Analyze
4PC404EE	PS-I	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
	1	Understand the concepts of magnetic circuits.	Understan
		Understand electrical principle, laws, and working of DC machines.	Understan
		Identify the parts of DC machines understand its operation	Apply
PC405EE	EM-I	Analyze the construction and characteristics and application of various types of DC generators.	Analyze
		Analyze the construction and characteristics and application of various types of DC motors and testing of motors.	Analyzo
PC404EE		Understand electrical principle, laws, and working of 1 – phase transformer and losses and also conduct various tests on the transformer	Understa

5 - 5 00	16 t 15 a a		
		Apply the concepts of time response of system, stability criterion, frequency response, state models, state transition matrix, solution of state equations	Applying
4PC406EE	CS	Analyze the concepts of F-I and F-V analogous systems, Block diagram reduction technique, signal flow graph, root locus technique	Analyzing
14 4		Analyze the concept of stability analysis from bode plot, polar plot	Analyzing
		Design the networks of lead, lag and lead-lag compensation using Bode plot	Creating
		Explain the concepts of two port network, complex frequency, transformed network, graph theory, filters and attenuators	Understand
ing comm	EC-II	Find two port parameters, impedance, and network equations	Apply
4PC407EE	= -	Analyze electrical circuits with the concept of networktopology	Analyze
		Analyze and design various types filters and attenuators	Analyze
		Synthesize electrical network using Foster and Cauer Forms	Analyze
		Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.	Apply
7		Demonstrate proficiency in handling Strings and File Systems	Understand
	22/2	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
4MC403HS	IC	Will distinguish and understand the working of the Central, state and provincial levels of administration.	Apply
		Will be conscious about the fundamental duties, responsibilities and rights as an ideal citizen of India	Understand
2		Will be able to perceive and interpret the functioning and distribution of resources between Centre and state.	Apply

		of the social structure, election process and Grievance redressal in a democracy.	
		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
		Analyze the networks from a given transfer function	Analyze
		Understand Performance of P, PI and PID Controllers.	Understand
		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 programs	Create
		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	Create

DAC-coordinator

Head of Ipportment
Department of FEE
Mathodist College of Eng & To
Abids, Hyderabad-500 00



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AY: 2022-23

V Semester

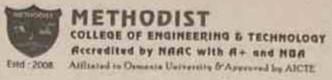
Course	Course Name	Course Outcomes	Taxonomy
		Understand the concept of the terms control systems, feedback, Mathematical modeling of Electrical and Mechanical systems.	Understand
		Explain the time domain and frequency response analysis of control systems.	Evaluate
PC415EE	LCS	Apply the knowledge of various analytical techniques used to determine the stability of control systems.	Apply
1 - 2 1		Understand the importance of design of compensators	Create
-		Demonstrate controllability and observability of modern control systems.	Understand
		Understand and develop the state space representation of control systems.	Apply
	EMI	To explain the different types and constructions of dc and single phase / three phase ac measuring equipment used along with their governing equations	Understand
		Understand the construction and applications of ac meters, their errors, compensation and testing.	Apply
PC416EE		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
PC410EE		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 dc 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
PC417EE	SS	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.	Understan

		properties.	Evaluate
		Evaluate the concept of Z-transform and its properties.	Evaluate
		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
		Classify the transmission lines and evaluate the performance of short, medium and long transmission lines.	Apply
13		Define the occurrence of corona, corona losses and the methods to minimize corona losses in the transmission. Lines	Understand
		Choose per unit values and apply for the analysis of symmetrical fault calculations.	Apply
PC418EE	PS-II	Understand the impact of different types of faults occurring on overhead transmission lines and evaluate fault currents.	Understand
		Elaborate the reasons for the voltage variations, and Improve the voltage at the receiving end side.	Evaluate
		Explain the causes of over voltages and acquire the knowledge of natural impedance of transmission line and significance in the operation of power system network.	Understand
		Explain Differentiate IC and Discrete components, understand manufacturing process of IC and how monolithic components are being developed	Understand
	LIC	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 various amplifiers and can solve problems related to it	Apply
C419EE		Analyze To study the block diagrams of 555 timer and 565 phase locked loops ICs and use them to construct various applications	Analyze
		Analyze the basic logic gates by using digital ic . Learn about various techniques to develop A/D and D/A convertors	Analyze
		Analyze: The ability to understand, analyze and design various combinational and sequential circuits	Analyze
503EE	RES	List and Compare the various forms of non conventional energy resources and analyze the different Fuel cells with applications of fuel cells	Analyze
31		Explain the solar energy applications and calculations of solar energy	Analyze

		Analyzing how wind energy can be tapped from the nature and its calculations	Analyze
		Illustrate the concepts of Geothermal ,Wave, Tidal energy & OTEC	Understand
74-17		Outline the Biomass, its mechanism of production of energy and its applications	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
PC459EE	EM-II LAB	Organize reports based on performed experiments with effective demonstration of diagrams and characteristics/graphs.	Analyze
	70770.00 300.000	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
	EMI LAB	Demonstrate measurement of resistance, inductance and capacitance.	Understand
		Determine the error and calibrate the energy meter.	Apply
PC460EE		Calibrate ammeter, voltmeter and wattmeter using potentiometer.	Apply
		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
	CS LAB	Understand Performance of P, PI and PID Controllers.	Understand
- 1		Develop PLC programs for certain applications.	Apply
PC461EE		Make use of the knowledge of Data acquisition system and Industrial process control in real world.	Apply
		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

DAC-coordinator

Methodist College of Ingo & Toch





VI Semester

AY: 2022-23

Course Outcomes

Course Code	Course Name	Course Outcomes	Taxonomy
	DSPA	Explain the concepts of digital signals, digital systems, digital signal processors	Understand
PC424EE		Compute linear convolution, circular convolution and linear convolution using OFT of two discrete time signals and Solve difference equation with and without z-transforms.	Apply
		Compute DFT and IDFT using formula and FFT algorithms	Apply
		Analyze IIR and FIR filters using realization concept	Analyze
		Design IIR and FIR filters using various methods	Create
		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.	Understan
PC425EE	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	Understar
		Select the protection method used against over voltages	Analyzo
	MPMC	Adapt the knowledge of Architecture of 8085 and 8051, writing assembly language programming for different applications.	Create
PC423EE		Explain types of microcontrollers and their applications.	Understa
CALACO		Develop a program to run on 8085 microprocessor based systems.	Apply
		Define the techniques for faster execution of	Rememb

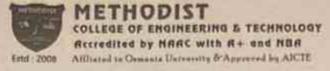
		Microcontone	
		Simplify and design system using memory chips and peripheral chips for 8-bit 8085 microprocessor.	Create
		Understand the basics of electric and hybrid electric vehicles, their architecture, technologies and	Understand
		Know about different energy storage technologies used	Understand
PES04EE	EV	for hybrid electric vehicles and their control. Choose a suitable drive scheme for developing an	Create
		electric hybrid vehicle depending on resources Design the components and their sizing and the power	Create
		electronics devices used in hybrid electric vehicle Understand the maintenance of the electrical vehicle.	Understand
		Understand the basic concepts of financial accounting classify preparation of various books of accounts	Understand
		Analyze& interpret financial statements.	Analyze
		Interpret knowledge about the functioning & working of various financial institutions.	Understand
HS103CM	FA	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, solveney & profitability of	Analyze
		financial statements. Evaluate the financial performance of the business unit.	Evaluate
		Demonstrate the concepts of Disaster Management, Role of NDMA in Disaster Management	Understand
		Identify different types of disasters, Mitigation measures of each disaster, case studies of disasters	Understand
	DM	Explain the disaster management cycle and disaster response, use of technology in disaster mitigation	Understand
OE601CE		Illustrate the acts and policies of disaster management in India	Understand
		Explain the concepts of communication and public awareness along with case studies.	Understand
		Demonstrate the concepts of Disaster Management, Role of NDMA in Disaster Management	Understan
		Introduction to Artificial Intelligence, its application and Problem solving techniques. Also the knowledg representation methods, Planning, Expert systems and their algorithms in AI	e
OE601A1&DS	AI	Analyzing different searching algorithms and game playing programs to solve given problems.	e Analyz
		Apply basic principles of AI in solutions that requi	re Apply

		Microcontone	
		Simplify and design system using memory chips and peripheral chips for 8-bit 8085 microprocessor.	Create
		Understand the basics of electric and hybrid electric vehicles, their architecture, technologies and	Understand
		Know about different energy storage technologies used	Understand
PES04EE	EV	for hybrid electric vehicles and their control. Choose a suitable drive scheme for developing an	Create
		electric hybrid vehicle depending on resources Design the components and their sizing and the power	Create
		electronics devices used in hybrid electric vehicle Understand the maintenance of the electrical vehicle.	Understand
		Understand the basic concepts of financial accounting classify preparation of various books of accounts	Understand
		Analyze& interpret financial statements.	Analyze
		Interpret knowledge about the functioning & working of various financial institutions.	Understand
HS103CM	FA	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, solveney & profitability of	Analyze
		financial statements. Evaluate the financial performance of the business unit.	Evaluate
		Demonstrate the concepts of Disaster Management, Role of NDMA in Disaster Management	Understand
		Identify different types of disasters, Mitigation measures of each disaster, case studies of disasters	Understand
	DM	Explain the disaster management cycle and disaster response, use of technology in disaster mitigation	Understand
OE601CE		Illustrate the acts and policies of disaster management in India	Understand
		Explain the concepts of communication and public awareness along with case studies.	Understand
		Demonstrate the concepts of Disaster Management, Role of NDMA in Disaster Management	Understan
		Introduction to Artificial Intelligence, its application and Problem solving techniques. Also the knowledg representation methods, Planning, Expert systems and their algorithms in AI	e
OE601A1&DS	AI	Analyzing different searching algorithms and game playing programs to solve given problems.	e Analyz
		Apply basic principles of AI in solutions that requi	re Apply

			5
		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.	Evaluate
		To explore the understanding of agent based AI Planning ,logical based agents and Expert systems	Create
I . T.		Adapt the knowledge of Architecture of 8086 and 8051, writing assembly language programming for different applications.	Create
	R.C.	Explain types of microcontrollers and their applications.	Understand
	MPMC LAB	Develop a write programs to run on 8086 microprocessor based systems.	Apply
PC462EE		Define the techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors.	Remember
T.E.		Interpret the difference between Microprocessors and Microcontrollers.	Evaluate
		Simplify and design system using memory chips and peripheral chips for 16-bit 8086 microprocessor.	Create
		Develop code to generate basic waves	Apply
41 80		Develop code perform basic operations on them	Apply
		Develop code to obtain linear and circular convolution	Apply
PC463EE	DSP LAB	Develop code to obtain DFT and FFT.	Apply
		Develop code to design FIR filters.	Apply
		Develop code to design IIR filters	Apply

DAC-coordinator

Head of Department HOD & Tach
Mothodist College of Truly & Tach
Abids, Hyderabad-500 001.





Course Outcomes

AY: 2022-23

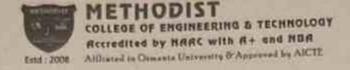
VII Semester

Course	Course Name	Course Outcomes	Taxonomy
Code	Course Name	Course Outcomes	
PC428EE		Develop Control Circuits for remote control and interlocking of electric drives	Create
		Explain the concept of protection of motors using various protecting equipments	Understand
	CED	Develop control circuits for starting and braking of induction motors	Create
		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
		Understand the need for protection and explain the working principles of different relays	Understand
PC429EE	SGP	Understand the operation of Solid State relays and their applications in modern power systems	Understand
		Classify relays based on construction, operation, application etc., and Analyze their characteristics to choose their usage in power systems.	Apply
		Analyze the characteristics of differential relays and also their applications in power system networks	Analyze
		Understand the operation of different types of circuit breakers and their performance, based on which selection of circuit breaker can be made for a particular application	Understand
		Understand the advantages of GIS substations and Protection methods against Over Voltage	Understand
	PEA	Know the reactive power compensation	Understand
C430EE		Learn the series and shunt compensation in Power Transmission system.	Understand
		Know the application of FACTS devices in Power Transmission system.	Understand
		Study and apply the power transmission schemes – HVDC Transmission	Apply
		Implement the control circuits based on the Controlling parameters of HVDC system	Analyze

		Understand the operation of Differential protection of transformer	Understand
		Compose (Write) MATLAB code using some basic commands.	Create
		Develop MATLAB code for analyzing power system network by obtaining line parameters, Z, Y matrices, and Economics of power systems	Apply
		Simulate the concepts of Electrical Circuits, to design a led, lag, led and lag compensator and obtain the characteristics by Control Systems and interpret data.	Create
PC466EE	ES LAB	Demonstrate (Determine) the knowledge of programming environment, compiling, debugging, linking and executing variety of programs in MATLAB.	Evaluate
		Demonstrate ability to develop Simulink models for various electrical systems.	Apply
		Validate simulated results from programs/Simulink models with theoretical calculations.	Apply
		Select the task or realize a prespecified target, with limited scope, rather than taking up a complex task and leave it.	Remember
		Outline the alternate viable solutions for a given problem and evaluate these alternatives with reference to prespecified criteria.	Understand
		Choose the selected solution and document the same.	Apply
PW701EE	SI	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
		Design/develop a small and simple product in hardware or software.	Create
		Rephrase the basic concepts of electrical engineering and discover the implementation	Analyse
PW702EE	PW-I	Develop the design and analysis of a particular problem in project	Apply
		Formulate the programming and interpret the project	Create
		Develop the hardware	Create
		Perceive the practical knowledge within the chosen area of technology for project development	Evaluate
		Evaluate different solutions based on economic and technical feasibility	Create
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DAC-coordinator

Head of Department of 1919
Methodist College of Frug & Tech.
Abids, Hyderabad-500 001.



AY: 2022-23



Course Outcomes

VIII Semester

AY: 2022			Taxonomy
Course Code	Course Name	Course Outcomes	
		Solve load flow by appropriate modelling of the given power system and formulation of Ybus.	Apply
		Evaluate generation mix for economic operation with and without transmission losses.	Apply
PES1SEE	PSOC	Explain load frequency control and estimate the frequency deviation through modelling.	Understand
		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
	, -	Assess the role of automation and digitization in Transmission and Distribution	Understand
PE514EE		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
	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
		Demonstrate about road accidents and its study objectives. Prepare accident investigation reports and database based on data collected.	Understand
OE603CE	RSE	Apply design principles for roadway geometrics improvement with various types of traffic safety appurtenances/tools	Apply
		Explain the road safety design operations, counter measures & characteristics to manage traffic including incident management	Understand
		Illustrate the concept of Road Safety Auditing its principles, procedures and code of good practice and checklists	Understand
		Explain about design and working principles of road signs and traffic signals	Understand

		traffic incidents.	
PC463EE		Develop code to generate basic waves	Apply
		Develop code perform basic operations on them	Apply
		Develop code to obtain linear and circular convolution	Apply
	DSP LAB	Develop code to obtain DFT and FFT.	Apply
		Develop code to design FIR filters.	Apply
		Develop code to design IIR filters	Apply
	PW-II	Rephrase the basic concepts of electrical engineering and discover the implementation	Analyse
		Develop the design and analysis of a particular problem in project	Apply
		Formulate the programming and interpret the project	Create
PW703EE		Develop the hardware	Create
		Perceive the practical knowledge within the chosen area of technology for project development	Evaluate
		Evaluate different solutions based on economic and technical feasibility	Create

DAC-coordinator

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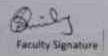
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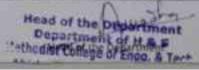
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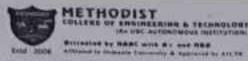
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METHODIST COLLEGE OF ENGINEERIHA & TECHNOLOGY (AS HYC ANTONIONISM MICHIAFON)



CO'S & CO-PD MAPPING, SEM 4, 2022-25.

DEPARTMENT OF HUMANITES & SCHENCES

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			1006	Develop continued for will educates and about he bits any learning reset for computer languages.	10000	30	2	2	5			=		1			1	23	2	100
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*	ESISICE			erigite 8 angles in lines (PO1 PO5)	Arrive:	2				9									(8)	
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COLLEGE OF ENGINEERING & TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

III SEMESTER - BE COURSE OUTCOMES FOR A.Y :2022-2023

5.50	CODE	COURSE NAME	co vo	COURSE OUTCOMES	Tasonomy Level
			coı	Define Thermodynamics concept of Zeroth law of thermodynamics. Temperature Scales and Thermodynamics Equilibrium, partial pressures and partial volumes.	Remember
	ИК	amics	CO2	Evaluate Heat and work interactions and calculate work done during flow processes.	Evaluate
1	SPC301MIK	Thermodynamics	CO3	Determine of entropy change during various thermodynamic processes.	Evaluate
	do	Ther	CO4	Make use of steam Tables and Mollier diagram for properties of steam.	Apply
			CO5	Determine efficiency of power cycles.	Evaluate
			CO6	Solve the problems on heat engine, heat pump and refrigerator.	Apply -
	-		coı	Understand the basic principles of stress and strain and their relationship with material properties.	Understand
		s po	CO2	Analyze the behaviour of structural members under combined loading conditions and the use of Mohr's circle for stress analysis.	Analyze
2	SPC302 MIK	Strongth of Nuterials	соз	Able to draw shear force and bending moment diagrams for different types of loads and beam configurations and calculate the maximum bending stress in a beam and its location.	Apply
	99	frongi	CO4	Analyze the shear stresses in circular and non-circular shafts under Torsional loading	Analyze
		.x	CO5	Calculate the deflection of beams using different methods. such as integration, Macaulay's method	Apply
			C06	Design springs and cylindrical structures to meet specified strength and deformation requirements	Create
		ų	COI	Explain the structure of materials at various levels and testing their mechanical properties.	Understand
		Science	CO2	Describe fatigue, creep failure and experimentally determine fatigue, creep strength, also list different types of fracture.	Understand
	MIK	interia	CO3	Explain phase diagrams and identify various phases, composition by analyzing the phase diagrams.	Analyze
3	GPC303 MIS	M pur	CO4	Classify different types of plain carbon steels, cast irons and explain their applications.	Analyze
	0	Metallurgy and Material Science	CO5	application.	Apply
		2	CO6	The table assessmenting of non-foregone motals gavanting	Apply
		· N	col	Formulate simple algorithms for arithmetic and logical	Understan

		m So	CO2	Test and execute the programs and correct syntax and logical errors.	Apply
	No.	i i	CO3	Implement conditional branching, iteration and recursion.	Evaluate
4	6ES301 CS	Programming For Problem So	C04	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.	Analyz
		ammi	CO5	Construct recursive programs and use structures to formulate algorithms and programs.	Create
		Prog	CO6	Apply programming to solve problems using pointer and understand linked list and file handling programs.	Understand Apply
		Pu	COI	Find the solution of algebraic and transcendental equations using numerical methods	Apply
	22	roden Gartial	CO2	Apply numerical techniques to solve ordinary differential equations and definite integrals	Understand
5	6BS34B 11S	ical Metho ist Differe Equations	CO3	Apply numerical methods to interpolate values and fit different curves from given data.	Evaluate
	eB8	Numerical Methods and Partial Differential Equations	C04	Find solution of first order linear and non linear partial differential equations.	Create
		N T	COS	Apply the solutions of partial differential equations to physical problems.	Analyse
		pmo	COI	Understand the significance of value inputs in a classroom and start applying them in their life and profession	Understand
		fessi	CO2	Assess their own ethical values and the social context of	Evaluate
6	8118303 HS	Human Values and Professional Edities	CO3	Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body. Intention and Competence of an individual, etc.	Analyse
	6HS	Value	CO4	Understand the role of a human being in ensuring harmony in society and nature.	Understand
		Ihman	COS	Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	Analyse
		ting.	coı	Apply the procedure for preparing the sample for metallographic observation.	Apply
		Metallurgy & Neterial Testing Lab	CO2	Identify different materials by examining the phases in their microstructure.	Apply
_	SPC 351 MK	Materi	CO3	Analyze the effects of various heat treatment by studying the grain structure	Analyze
7	PC 34	3 6	CO4	Determine the tensile, compressive and impact strength for various materials	Evaluate
	9	influr.	CO5	Measure hardness, shear strength and check their suitability for a given design requirement.	Evaluate
		Me	CO6	Determine the shear force, bending moment and Youngs modulus of different beams under various loading	Evaluate
_		36	CO1	Develop the skills in drafting various machine components using AutoCad software.	Understand
		Archi	CO2	Interpret the conventions & symbols used in technical drawings into their physical meanings & vice versa	Understand
	2 MIR	r Aided N Drawing	CO3	Construct orthographic views of simple machine components.	Apply
8	6PC 352 MB	omputer Aided Machine Drawing	CO4	model, assemble and generate orthographic views,	Understand
		ndus	COS	Develop 3D models, assemble and generate drawings of components using Solidworks.	Evaluate

1	1	0	C06	Observe 3D interactive CAD models and determine the steps used in modelling them.	Evaluate
-		- 4	coı	Choose appropriate data type for implementing programs in C language	Understand
	CS	ming For Solving L	CO2	Design and implement modular programs involving input output operations, decision making and looping constructs	Apply
9	6ES351 CS	Pogramming oblem Solvin	CO3	Apply derived data types and implement programs to store data in structures and files	Evaluate
	19	Pogram roblem	C04	Develop confidence for self-education and ability towards lifelong learning need of computer languages	Analyze
-		-	col	Model 3D mechanical parts using synchronous and ordered modelling techniques in solid edge.	Apply
	2	fication	CO2	Assemble, find interference & analyse motion of complex machinery using solid edge.	Apply
10	SI ME	ge Certi	CO3	Modify geometries imported in neutral formats like IGES.	Apply
_	6M(351	Solid Edge Certification Course	C04	Carry out simulations to analyse & optimise parts &	Analyze
		Solid	CO5	Understand development of production drawings & tools to	Understand

Head of the Department

H.O.D.

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



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DEPARTMENT OF MECHANICAL ENGINEERING

V SEMESTER - BE COURSE OUTCOMES FOR A.Y :2022-2023

S.NO	CODE	COURSE	CO NO.	COURSE OUTCOMES	Taxonomy Levi	
			COI	Classify and Explain the Hydraulic Machines, impact of jet on different vanes.	Understand	
ĩ		Sign	CO2	Interpret the knowledge of reciprocating pumps analyze its performance.	Apply	
	PC408 ME	Hydraulic Machines	CO3	Design, estimate the unit quantities and specific parameter of centrifugal pumps.	Evaluate	
*	PC-40	nulle	C04	Design & analyze performance characteristics of Pelton wheel. Kaplan turbine and Francis turbine.	Analyze	
		Hyd	CO5	Interpret and Explain Industrial Hydraulies and Hydraulie systems.	Understand	
			CO6	Demonstrate physical significance of Hydraulic turbines and surge tanks, draft tubes.	Understand	
		neats	COI	Evaluate and Determine the stresses using, concepts of Theories of failure, and to select proper material for machine components.	Evaluate	
	8	e Elec	CO2	Evaluate the Failure stress of machine components using fatigue theories of failure.	Evaluate	
2	PC409 ME	Design of Machine Elements	CO3	Evaluate size of the machine components for torque transmission, bending and axial loads.	Evaluate	
	PC	N Je 1	CO4	Analyze the fasteners required for a given application and predicting its efficiency.	Analyze	
		CO5 Analyze type of joints, power screws.		Analyze		
		Des	CO6	Differential and compound screws and predicting its efficiency.	Analyze	
	ш	ines	COL	Understand the gyroscopic effects in ships, aero planes and road vehicles.	Understand	
		14	5	5	CO2	Analyze and design centrifugal governors& Flywheels.
	NE I	CO3 Analyze balancing problems in rotating machinery. CO4 Analyze balancing problems in reciprocating machine. Understand free and forced vibrations of single degree.	Analyze balancing problems in rotating machinery.	Analyze		
3	2		Analyze balancing problems in reciprocating machinery.	Analyze		
	2		Understand free and forced vibrations of single degree freedom systems.	Understand		
		Dya	CO6	Understand Torsional vibrations of single degree freedom systems.	Understand	
		ion	coı	Explain the concepts of limits, fits and tolerances and their applications, gauges (plug, ring & camp; snap), and bars, linear & camp; angular measurements by Vernier, Micrometers, Sine bar, Autocollimators.	Evaluate	
	2	Metrology and Instrumentation	CO2	Explain the concepts of comparators along with their types, Optical projectors, and Microscopes for measuring flatness, roundness & amp; coordinate geometrics.	Evaluate	
4	PC411 ME	nd Instr	CO3	Explains the importance of surface raughness & smp; its measurement, gear toothconcepts with measurement, & amptesting of machine tools like lathe, drill & amp; milling.	Evaluate	
	2	100	C04	Ellipstends also for the second second demonstra	Understand	
		Metrol	COS	Explain the concepts and various working principles of measure pressure, different transducers for measurement of displacement, strain and torsion.	Evaluate	
			CO6	Explain the consent of the consent o	Evaluate	

				Describe heat conduction problems in rectangular, cylindrical and spherical coordinates.	Understand												
	8	ster	CO2	Analyze heat transfer through the fins and familiarize with the time dependent heat transfer.	Analyze												
5	PC412 ME	Heat Transfer	CO3	Estimate the convective heat transfer coefficient in Free and Forced convection.	Evaluate												
	PC	Heat	CO4	Determine the radiation heat transfer by calculating the emissivities and shape factors.	Evaluate												
			CO5	Determine the LMTD and NTU in heat exchangers	Evaluate												
			C06	Explain the mechanisms involved in boiling and condensation.	Understand												
			COL	Explain the different parts and constructional details of the automobile engines.	Understand												
		Si di	CO2	Discuss the working of various systems like engine lubricating system and cooling system, types of ignition system and different butteries used in automobile.	Understand												
6	PESI2 ME	Automobile Enneering	C03	Explain the working principle of steering and suspension systems and constructional details of wheels and tyres of automobile.	Understand Apply Understand Understand												
	PES	жору	CO4	Establish the constructional and working principle of braking system and its importance in Automobile engines.	Apply												
		Aut	COS	Discuss the transmissions of power from the engine to wheels through the clutch plates and differential gear box.	Understand												
			C06	Discuss the environmental implications of automobile emissions and strong base for understanding future developments in the automobile industry.	Understand												
			CO1	Apply the knowledge of scientific management in industrial environment.	Apply												
	Vesi I	ering	CO2	Demonstrate the importance of production, planning & control in manufacturing industry	Understand												
7	PES13 ME	apper 2	Gnancial management practice are applied in indust	Estimate the appropriate investory control models and financial management practice are applied in industries.	Evaluate												
	PESI	trial	trial	Tie.	Giel	friel	triel	trial	drial	trial	trial	trial	friel	friel	CO4	Analyses the quality control charts and sampling plan in production unit.	Analyse
		Indus	COS	Apply the concept of decision making theory and uncertainty risk in work place.	Apply												
			CO6	Develop industrial engineering concepts in industrial environment.	Create												
			COI	Analyze the effective thermal resistance in composite stabs and thermal conductivity of metal bar.	Analyze												
	10		CO2	Evaluate heat transfer coefficient in Free & Forced convection.	Evaluate												
	PC455 ME	TE Lab-2	CO3	Evaluate the effectiveness and efficiency of parallel flow and counter flow heat exchanger.	Evaluate												
8	PC45	TEL	CO4	Analyze the COP of the Refrigeration test Rig and pressure distribution of specimen in wind funnel.	Analyze												
	7.00		C05	Analyze the overall efficiency of axial flow fan &Centrifugal blower.	Analyze												
			C06	Evaluate the surface emissivity of a test plate& Stefan Boltzmann constant.	Evaluate												
		ē	COI	Analyze the performance and draw the characteristic curves for different types of governors.	Analyze												
	142	2	CO2	Evaluate the effect of gyrosenpic couple at different speeds.	Evaluate												
9	PC456 ME	Dynamics of Machinos Lab	CO3	Evaluate kinematic and dynamic behavior of different types of cams.	Evaluate												
	2	5	C04	Evaluate static and dynamic balancing of rutating masses.	Evaluate												
	100	ynan	COS	Analyze natural frequencies of various beams with different constraints.	Analyze												
- 1		:00:	CO6	Determine the critical speed for shafts of various diameter.	Evaluate												

T		-0.00	CO1	Determine the impact of jet on different types of vanes	Evaluate
S7 ME	es and	CO2	Determine the efficiencies of various pumps and draw the characteristic curves.	Evaluate	
	57 MB	chanic raulic nery 1	CO3	characteristic curves.	Evaluate
	PC4	d Mes Hyd Iachin	CO4	Evaluate the coefficient of discharge of various flow meters and draw the characteristic curves.	Evalunte
				Explain the principle of Hydraulic Circuit	Understand
	1	2	CO	Explain Pneumatic Circuits by studying the models.	Understand

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Mechanical Engineering Department
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METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

VII SEMESTER - BE COURSE OUTCOMES FOR A.Y :2022-2023

S.NO	CODE	COURSE NAME	NO.	COURSE OUTCOMES	Taxonomy Level	
1			COI	To prepare the students to have the knowledge of Linear Programming Problem in operations Research at the end students would be able to understand the concept and develop the models for different applications.	Apply	
	8	ESEARC	CO2	Make students understand the concept Replacement models at the end students would able to explain various features and applications of replacement models in real time scenario.	Understand	
3	PC701 ME	OPERATIONS RESEARCH	CO3	Prepare the students to understand theory of Game in operations research at the end students would able to explain application of Game theory in decision making for a conflict	Evaluate	
â		PERA1	CO4	Prepare the students to have the knowledge of Sequencing model at the end student would able to develop optimum model for job scheduling.	Apply	
		0	COS	Prepare students to understand Queuing theory concepts and various optimization techniques at the end students would able to develop models for waiting line cases.	Apply Apply Apply Understand Evaluate Analyse Apply Understand Evaluate Apply Understand Evaluate Apply Understand Evaluate Apply Create Apply Create Apply Understand	
		- 1	COL	Relate methods of refrigeration and importance of refrigerant selection	Apply	
.	ME	CO1 Relate methods of refrigeration and importance of refrige CO2 Design Air refrigeration and VCR system with methods of perfromance CO3 Compare VAS with VCR system, steam jet refrigeration a refrigeration CO4 Identify various air conditioning processes on Psychrometric CO5 Design Air Conditioning System with use of psychrometric CO6 Explain the tages of air conditioning.		Design Air refrigeration and VCR system with methods o improve perfromance	Understand	
2	PC702 ME	geration and Conditioning	CO3	Compare VAS with VCR system, steam jet refrigeration and Thernoelectric refrigeration	Evaluate	
	F	E CO	CO4	Identify various air conditioning processes on Psychrometric Chart	Analyse	
- 1		Zer.	CO5	Design Air Conditioning System with use of psychrometric chart	Apply	
-		(00)	CO6	Explain the types of air conditioning systems, components and applications	Create	
- 1	N 3	26	COI	Apply the knowledge of scientific management in industrial environment.	Apply	
	22	ineer	CO2	Demonstrate the importance of production, planning & control in manufacturing industry	Understand	
3	PE711 ME	Industrial Engineering	CO3	Estimate the appropriate inventory control models and financial management practice are applied in industries.	Evaluate	
	<u>a</u>	른	CO4	Analyses the quality control charts and sampling plan in production unit.	Analyse	
	1	ndust	CO5	Apply the concept of decision making theory and uncertainty risk in work place.	Analyse	
		-	CO6	Develop industrial engineering concepts in industrial environment.	Create	
		04	COI	Describe the fundamentals of additive manufacturing, classify and explain advantages and disadvantages of AM process	Understand	
		turin	CO2	Describe the operating principles, capabilities and limitations of liquid and solid based additive manufacturing systems.	Understand	
	PE721 ME	ve Manufac Technology	CO3	Explain the operating principles, specifications, advantages and disadvantages of powder based additive manufacturing systems.	Understand	
4	PE72	re M.	CO4	skills in additive manufacturing technology	Analyze	
		Additive Manufacturing Technology	COS	Applying the capabilities of additive manufacturing in different industrial sectors.	Apply	
.			CO6	Exploring the different applications of AMT and applying it in various fields through AM software's.	Apply	

			CO1	Define green buildings and sustainable development.	Understand			
1		ding	CO2	Apply the criteria for site selection as per the green building rating systems.	Understand			
1	CE	Buil	CO3	Explain the typical features of green buildings.	Understand			
5	0E701 CE	Green Bui Fechnology	CO4	Identify the methods to reduce water consumption in buildings.	Understand			
	ō	CO2 Apply the criteria for site selection as per the gree consumption CO3 Explain the typical features of green buildings. CO4 Identify the methods to reduce water consumption CO5 Explain how rainwater harvesting can be used to consumption consu		Explain how rainwater harvesting can be used to conserve water.	Understand			
	1	3	235000	Identify the different types of waste generated in construction.	Understand			
		ČŽ.	S)	COI	List and Compare the various forms of non conventional energy resources and analyze the different Fuel cells with applications of fuel cells.	Analyze		
		CO2 Explain the solar energy applications and calculations of so		Explain the solar energy applications and calculations of solar energy .	Analyze			
6	OE701 EE	Non Conventional Energy Sources	CO3	Analyzing how wind energy can be tapped from the nature and its calculations.	Analyze			
185	30	CO4 Illustrate the concepts of Geothermal , Wave, Tidal energy & OTEC.		Illustrate the concepts of Geothermal , Wave, Tidal energy & OTEC.	Understand			
		Non	Non	Non	Non	CO5	Outling the Planes & Diamers its mechanism of production of energy and	Understand
8			COI	31	Create			
		7	CO2	Develop practical & professional skills	Apply			
	PW702 ME	Project Work - I	CO3	Apply the tools and technicals of documentations	Apply			
7	N702	V 139	CO	Make use of the Team work	Apply			
	P	Proj	COS	Develop to the industrial practice and Research Practices	Apply			
			co	Develop skill to work with Innovative and entrepreneurial ideas	Apply			

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DEPARTMENT OF MECHANICAL ENGINEERING

IV SEMESTER - BE COURSE OUTCOMES FOR A.Y :2022-2023

S No	Code	Course Name	Faculty Name	CO No.	Course Outcomes	Taxonomy Level
		护	>	COL	How to be able to introduce core programming basics	Remembering
a a	S	Python Programming	Dr. Fakhruddin H.N	CO2	Design program with functions using Python programming language.	Creating
	6ES403CS	Prog	hrud	CO3	Summarize a range of Object-Oriented Programming.	Understanding
	19	rthon	r. Fak	C04	Organize in-depth data and information processing techniques.	Applying
	1:	P.	Q	CO5	Match the high-performance programs designed to strengthen the practical expertise	Remembering
		mics		COI	Understand the principles and types of air compressors, internal combustion engines, combustion in IC engines, steam boilers, steam power plants and nozzles	Understanding
	ME	одуна	Reddy	CO2	Demonstrate the safe operation and maintenance of air compressors, IC engines, steam power plants, boilers and nozzles	Applying
2	SPC404ME	Петп	Mr. Y.M.M Reddy	CO3	Apply the principles of thermodynamics and fluid mechanics to analyze the thermodynamic cycles of IC engines and evaluate	Applying
	19	Applied Thermodynamics	Apply knowledge of IC engine design and operation to perbasic maintenance and repair tasks safely and effectively	Apply knowledge of IC engine design and operation to perform	Applying	
		dγ		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
		5355		COI	Describe the basic principle and working of various types of basic manufacturing processes.	Understanding
	8	Proces	ekhar	CO2	Discuss the materials, equipment and tooling used in various manufacturing processes.	Understanding
3	6PC405ME	CO1 manufacturing processes. CO2 Discuss the materials, equipment and tooling manufacturing processes. CO3 State the advantages and limitations of var processes. CO4 Select appropriate manufacturing process industrial use/application. CO5 Demonstrate the knowledge in identifying	State the advantages and limitations of various manufacturing processes.	Remembering		
	9	nufact	Dr. A.	CO4	Select appropriate manufacturing process based on the type of industrial use/application.	Understanding
		Ma		CO5	Demonstrate the knowledge in identifying the possible defects, their causes and remedies of various manufacturing processes.	Applying
-		hines		COI	Explain the concepts of properties of fluids , Types of flows, flow through pipes, Hydraulic Turbines and pumps	Understanding
Ŷ	ME	Fluid Mechanics & Hydraulic Machines	Kumar	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	nies & Hy	Dr. M. Uday Kumar	CO3	Analyze the pressure gauges and Manumetrs, continuity, stream and velocity functions, total energy lines, velocity triangles of turbines and pumps	Analyzing
	-	Mecha	Dr.	CO4	Develop the equations of motion, Darcy-Weisbach equation, workdone and efficiencies of turbines and pupus	Applying
		Fluid		COS	Estimate the coefficient of discharge of flow meters, friction factors, drag and lift coefficients, efficiencies, unit quantities and specific speed of hydraulic turbines and pumps	Applying

1		8		COI	Identify links & joints, determine mobility & explain motion of a connected system of links	Applying	
	31	fachin	th R	CO2	Analyse motion of planar mechanisms & their equivalent chains.	Analyzing	
5	6PC407ME	Kinematics of Machines	Mr. Srikanth R	CO3	Identify & explain the applications of commonly used mechanisms.	Applying	
	B	nemat	Mr.	CO4	Solve problems involving velocity & acceleration of planar mechanisms with given dimensions at specified positions.	Applying	
		2		CO5	design gear trains for specified speed ratios and cams & followers for specified motion profiles	Applying	
		leno		COI	Understand the concepts of indian culture and traditions and their importance.	Understanding	
		aditi		CO2	Distinguish Indian languages and literature.	Understanding	
6	SMC402HS	Essence of Indian Traditional Knowledge	Ms. Deepthi	CO3	Learn the philosophy of ancient, medieval and modern India.	Understanding and Applying	
	6MC	e of Inc Kno	Ms. I	CO4	Acquire the information about the fine arts of India.	Understanding and Applying	
		Essenc		COS	Know the contribution of scientists of different eras, interpret the concepts and the importance to protect intellectual property of the nation.	Understanding Applying	
		Lab	Z,	COI	Develop solutions to simple computational problems using Python programs	Applying	
	93	ming	in H	CO2	Solve problems using conditionals and loops in Python	Applying	
7	6ES4SJCS	E	rudd	CO3	Develop Python programs by defining functions and calling them.	Applying Applying	
	9	Python Programming Lab	Dr. Fakhruddin H.N	CO	Make use of Python lists, tuples and dictionaries for representing compound data.		
		Y.	-	COS	Develop Python programs for GUI applications	Applying	
		es La	*	COI	Determine volumetric efficiency and isothermal efficiency of a two stage reciprocating air compressor.	Evaluating	
	ME	spiled Thermodynamics La	Mr. Y.M.M Reddy	CO	Construct port timing diagram of two stroke engine, valve timing diagram of four stroke engine	Applying	
8	6PC453ME	rii o	MEM	CO	Evaluate the performance of internal combustion engines	Evaluating	
	5	E S	fr. Y.	CO	Develop heat balance sheet of internal combustion engine	Creating	
		pplice		CO	Determine the properties of (flash point, fire point, viscosity, etc) given lubricating oil	Evaluating	
		s Lab		co	Explain the design of patterns, mould making procedures and testing the sand properties.	Understandir	
	ME	recesse	Anwar	CO	Apply the various joining techniques to inbricate different geometries.	Applying	
9	6PC4S4ME	uring P	Mrs.Shazia Auwar	co	Demonstrate the blanking and piercing operations for simple components	Rememberin	
	9	Manufacturing Processes Lab	Mrs.	co	Classify the Applications of plastics and manufacture a simple component by using plastic injection moulding processes	Applying	
		N.		co	5 Evaluate the mechanical properties of welded joints.	Applying	

1		qq		COI	Determine the Coefficient of Discharge of Venturimeter and Orifice meter	Analyzing	
ME	nics &	Self priming pumps	Evaluate the performance of Centrifugal, Reciprocating, Gear, Self priming pumps	Evaluating			
10	455	Machi	Uday	CO3	Evaluate the performance of Pelton ,Francis ,Kaplan Turbines	Evaluating	
1	OPP	aulic N	Z	C04	Determine the coefficient of Jet on Vanes	Applying	
1		Fl	Dr.	CO5	Explain the principles of Hydraulicand Pneumatic circuits and models	Understanding	

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DEPARTMENT OF MECHANICAL ENGINEERING

5 No	Code	Course Name	Faculty Name	CO Nn.	Course Outenmes	Taxonomy Leve	
				COI	State the function of springs, gears, Bearings, IC Engine parts and theory of bending of members with initial curvature	Remembering	
	100	ušis	pe	CO2	Summarize the Materials for springs, Gears, Bearings, IC Engine components , Rope and Chain drives	Understanding	
1	PC 413 ME	Machine Design	Dr. M Prasad	CO3	Select Various types of Springs ,Bearing, Gear drives and, drive systems for specific applications	Applying Analyzing	
	ž	Mac	Dr.	CO4	Analyze Helical coil springs , leaf springs Gear and Chain drives. IC Engine components for mechanical systems		
				COS	Determine the design procedure for Helical coil springs , leaf springs Gear and Chain drives, IC Engine components for various mechanical systems	Evaluating	
		4		COI	Explain cutting tool material, chip formation, source of heat distribution, cutting fluids, tool wear in metal cutting operation	Understanding	
	3.5	CO2 Demonstrate the working principle of machine tool machine, abrasive, bonds used for grinding and sele grinding wheel, threading application and jig and fit place.	Demonstrate the working principle of machine tool, grinding machine, abrasive, bonds used for grinding and selection of grinding wheel, threading application and jig and fixtures in work place.	Understanding			
2	PC 414 ME	Metal Cutting and Machine Tools	Dr. Prabhuraj	C03	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 manufecturing industry.	Analyzing	
7.		Metal		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.	Applying	
	-			CO5	Apply the knowledge of Drilling, Milling and Boring, Indexing methods, Quick return mechanisms in shaping industry,Broaching, Lapping, Honing, Polishing, Buffing, Super	Applying	
				COI	Formulating the local stiffness matrix into global stiffness matrix,	Creating	
-	ω. ω	Analysi	JE .	CO2	Analyse the truss element, frames and beam elements along with transformation of local to global matrices	Analyzing	
3	PC 415 ME	ement	Mr. G Bhaskar	CO3	Analyse the two-dimensional by using CST in natural coordinate system, Axi-symmetric bodies and	Analyzing	
,	24	Finite Element Analysis	Mr.	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	
				CO5	Formulate the mass & stiffness matrices of one dimensional beam elements eigen values and eigen vectors using Langurangian and Hemilton principles	Creating	

	1			COS	To explore the understanding of agent based Al Planning Jugical based agents and Expert systems	Creating	
7		Principles of Artificial Intelligence	Mrs.	COA	systems, probability, artificial neural networks and other machine learning models.	Evaluating	
	1930	fArtifici	Mrs. Shaziya Jabeen	C03	representation, and learning.	Analyzing	
4		al Intellig	Jabeen	CO2	Analyzing different scarching algorithms and game playing programs to solve given problems.	Analyzing	
		ence		COI	Introduction to Artificial Intelligence, its applications and Problem solving techniques. Also the knowledge representation methods, Planning, Expert systems and their algorithms in Al	Understandir	
				COS	Describe the application of various technologies to disaster management.	Understandin	
	0	Disnete	Ms.	C04	Interpret the Indian Disaster Management acts and it's framework	Understandin	
6	OE 601 C	Disaster Mitig	Ms. P. Jyeb	CO3	Discuss the framework and measures of pre-disaster, during disaster, post-disaster measures	Understandin	
	ω	gation	888	CO2 Summurize the catergories of disasters and their characteristics		Understandin	
		œ		COI	Explain the terms and concepts of disaster management	Rememberin &	
'n			3	COS	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	
		Pane	r. MD.	C04	Explain the working principle of nuclear fission, types of power plants & camp; reactors	Аррумц	
5	PE 533 ME	Power Plant Engg-	Dr. MD. Fakhruddin H.N	CO3	Identify types of dams & tamp; spillways, working principle of hydro power plant, hydrology		
	NA.	-33u	din H.N	CO2	Illustrate feeding and burning of cont, comprehend the basic working principle of steam power plant and gas turbine power plant	Understandin	
		4		cor	Demonstrate the working principle, steam power plant layout, types of coals, coal & coals, ash handling system.	Understandin	
		Produ		COS	Apply the principles of project management to develop network diagrams, differentiate between PERT and CPM, schedule activities using review technique	Applying	
4	d	Production and Operations Management	Mrs.	CO4	Understand of Moterials 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)	Understandin	
	PE 522 ME	perati	Mrs, I. Sowjanya	CO3	Apply various forecasting techniques to predict demand patterns using both qualitative and quantitative methods.	Applying	
	IE	one Mana	any.a	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	Understandin	
		gement		CO1	Understand the different types of production systems and their characteristics, as well as the factors that influence plant location and layout decisions.	Understanding	

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		£	/ Dr.	COL	Identify and use various instruments for external, internal and angular measurements	Applying	
	Sale Control	ne Tools		CO2	Apply the principles of optical measurements in measuring the screw _	Applying	
PC 458 ME	C 458 M	d Machi	anya Prabhuraj	CO3	Identify and use various types of force and temperature measurement instruments/tools.	Applying	
	£	Metrology and Machine Tools Lab	Mrs. I. Sowjanya Prab	CO4	Apply the knowledge of metal cutting principles to perform various machine tool operations.	Applying	
	1.0	Metr	Mrs.	COS	Determine Shear angle, cutting forces, temperatures and tool life in metal cutting processes	Evaluating	
				COI	classify-different types of beams and truss element to perform static analysis	analyzing	
	54	ded	Į.	CO2	classify different types of meshing	analyzing	
9	PC 459 ME	Computer Aided Engineering Lab	Mr. G. Bhaskar	CO3	analyze the stress and deformations of axi-symmetric bodies and connecting rod	analyzing Creating	
	PC	Comp	Mr. G	CO4	predict natural frequencies in case of critical load condition.		
		,		COS	simulate coupled analysis using static structural and steady state thermal	analyzing	
				coı	Able to design a small and simple product in hardware or software.	Creating	
		ship	har	CO2	Understand complete the task or realize a pre specified target, with limited scope, rather than taking up a complex task and leave it.	Understanding	
10	PW 701 ME	Summer Internship	Dr. A. Rajasekhar	соз	Able to learn to find alternate viable solutions for a given problem and evaluate these alternatives with reference to pre specified criteria;	Evaluating	
	P.	Summ	Dr. A	CO4	Formulate the selected solution and document the same.	Creating	
				COS	Able to develop a small and simple product in hardware or software.	Creating	

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DEPARTMENT OF MECHANICAL ENGINEERING

VIII SEMESTER - BE COURSE OUTCOMES FOR A.V :2022-2021

S No	Code	Course Name	Faculty Name	CO No.	. Course Outcomes	Taxonomy Lev					
				COI	Demonstrate the working principle, steam power plant layout, types of coals, coal & ash handling system.	Understandin					
PE NIS ME	in CO2		CO2	filinstrate feeding and burning of east, comprehend the basic working principle of steam power plant and gas turbine power plant	Understanding						
	PE 813 A	Power Plant Engineering	G. Bhaskar	CO3	Identify types of dams & spillways, working principle of hydro power plant, hydrology	Applying					
		Power !	•	CO4	Explain the working principle of nuclear fission, types of power plants & reactors	Understanding					
				COS	solve the power plant economy factors, load factors, illustrate the methods to control of pollutants emitted by fassile fuel used in power plants and its safety aspects of power plant operation	Applying					
1		evelopment	reclupment	rvelopment		COI	Explain the Indian industrial environment, opportunities and challenges of women entrepreneur in enterprise, first-generation entrepreneur, project financing in india and Motivational aspects.	Understanding			
					bevelopment	bevelopment	Raj		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	PESISME	Entreprenuership Development	De. 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					
		Entrep		C04	Evaluate the technical feasibility of a project management, conception and gvaluation 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		
		a di	all a	S of	Soju	No.	a di		CO1	Explain scenario of road safety in world, accident characteristics, causes, investigation techniques, data collection, analysis and preventive measures	Understanding
	м	Engineering	NAIK		Explain Traffic Engineering studies. Characteristics, management measures and their influence on road safety	Understanding					
3	OESOICE	RSE-Road Safety E	D. BHARATH NAIK	CO3 c	Explain road safety in planning, designing, equipments used for construction during construction, at construction site and devices used for protection	Understanding					
		SE-Ro	D. B	CO4	Explain Functioning and factors affecting the traifle Signals, road igns and pavement markings	Understanding					
	-	22		CO5 E	spalin coud safety audit process, strategies and ITS	Understanding					

PW703ME			z	COI	Demonstrate the ability to synthesize the knowledge and skills acquired in the academic program to the real-world problems	Understanding
		H DIN H	CO2	Apply the knowledge and skills acquired in the academic program to the real-world problems	Applying	
	V703ME	ct Work	AKHRUDDIN H.N	C03	Evaluate different solutions based on economic and technical feasibility	Evaluating
	E	Project	MD. F	C04	Effectively plan a project and confidently perform all aspects of project management	Applying
			D.	C05	Demonstrate effective written and oral communication skills	Understanding

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Department of Electronics and Communication Engineering Course Outcomes

AY: 2022-23

III Samuetae

		1 222	III Semester	
Course Code	Course Name	No.	Course Outcomes	Taxonom
		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.	Understandi
5PC301EC	ELECTRONIC DEVICES	CO3	Discriminate the BJT Configurations to recognize appropriate Transistor Configuration for any given application.	Analyzing
		CO4	Design the the biasing circuits with good stability.	Understandir
		CO5	Analyze , Compare and design of BJT Amplifiers.	Rememberin
		CO6	Distinguish the working principles of BJT and FET.	Rememberin
		COI	Differentiate various types of signals and systems in continuous and discrete time signals	Understandin
5PC302EC	302EC SIGNALS AND SYSTEMS	C02	Importance of frequency domain analysis and apply Fourier series for continuous time signals	Analyzing
		CO3	Apply the properties of Fourier transform for continuous time signals (TL:3)	Applying
		CO4	Relate Laplace transforms to solve differential equations and to determine the response of the CT- LTI Systems	Evaluating
		CO5	Apply Z-transforms for discrete time signals to solve Difference equations	Evaluating
	5PC301EC	SPC301EC ELECTRONIC DEVICES SPC302EC SIGNALS AND	Code Course Name No. CO1 CO2 SPC301EC ELECTRONIC DEVICES CO4 CO5 CO6 CO1 CO2 SPC302EC CO3 SIGNALS AND SYSTEMS CO4	Code Course Name Code Course Outcomes Code Code Course Outcomes Code Code Code Course Outcomes Code Co

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			CO6	Determine Linear Convolution and Correlation of discrete time signals with graphical representation	Evaluating
			COI	Identify different parameters for two-port networks	Understand
			CO2	Explain symmetrical and asymmetrical networks and their electrical properties	Create
		A.G. HKS VZTUS	CO3	Design concepts of different filters	Create
	5PC303EC	NETWORK	CO4	Design different Types of Attenuator and Equalizers	Remember
3			COS	Explain concepts of Network synthesis like Hurwitz polynomials, Positive real functions	Remember
			C06	Analyse LC, RC, RL Networks by synthesis	Remember
	5PC304EC	SWITCHING THEORY AND LOGIC DESIGN	COI	Explain the basic concepts related to number system and their conversion.	Create
			CO2	Analyze the Boolean logic equations and simplify using K-map and tabular method.	Analyze
			CO3	Analyze the different combinational circuits and implement them using IC's.	Understand
4			CO4	Explain the operation of flip flops and converting one flip flop to another.	Apply
			COS	Analyze the concepts of sequential circuits.	Understand
			CO6	Design the counter using different IC's.	Create
	5ES303EC	PROBABILITY THEORY AND STOCHASTIC PROCESSES	COI	Explain definitions of Probability, Axioms, Joint Probability, Conditional Probability, Total Probability, Bayes' Theorem, Independent Events, Random Variable, Conditions of a Random Variable.	Understand
5			CO2	Apply the concepts, theorems to derive probability distribution & probability density functions. Expectations, Moments & characteristic functions of Random variable	Apply

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- w standings

			CO3	Make use of Properties of distribution & density functions to solve Mean, Variance for - Binomial, Poisson, Uniform, Gaussian, Exponential, Rayleigh Distributions.	Apply
			CO4	Explain Multiple random variables i.e Joint density, Joint distribution, Central Limit Theorem, expected values of Multiple random variables.	Understand
			CO5	Explain concepts of Random process, and its properties. Variance, co variance, correlation & auto correaltion. Power & cross power density spectrum and its properties.	Understand
			CO6	Examine different types of Noises and response to a random signal	Evaluating
			CO1	Understand the financial and Accounting aspects of a business	Analyse
	5HS302HS	MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	CO2	Evaluate financial Performance of the business unit	Evaluate
			CO3	Understand about the financial system and markets	Evaluate
			CO4	Evaluate the viability of projects by using Capital budgeting Techniques.	Understand
6			COS	Analyse the overall financial functioning of an Enterprise	Evaluate
			C06	Understand and take decision on procurement of finances.	Analyze
			COI	Know the background of the present constitution of India.	Evaluate
		INDIAN	CO2	Understand the working of the union, state and local levels.	Evaluate
7	5MC303HS	CONSTITUTION	CO3	Gain consciousness on the fundamentals rights and duties.	Understand
			C04	Be able to understand the functioning and distribution of financial resources between the	Understand

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				states	
			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.	Evaluate
			C06	Be able to understand the functioning and distribution of financial resources between the centre and state.	Understand
			COI	Explain basic principles of Python programming language.	Understand
			CO2	Create, run, and manipulate Python Programs using core data structures like Lists, Tuple, Set and Dictionaries.	Apply
			соз	Understand and summarize different File handling operations.	Understand
	5ES304EC	PYTHON PROGRAMMING	CO4	Handle exceptions in programming.	Apply
8			CO5	Identify the commonly used operations involving file systems and regular expressions.	Understand
			CO6	Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python.	Apply
			COI	Understand characteristics of Diodes	Analyze
			CO2	Plot the characteristics of BJT in different configurations	Understand
Sign		ELECTRONIC DEVICES AND	CO3	Record the parameters of BJT and FET amplifiers.	Creating
9	5PC351EC	LOGIC DESIGN LAB	CO4	Understand biasing techniques of BJT.	Remember
		LAB	CO5	Design and performance evaluation of full wave rectifiers	Understand
			C06	Use the SPICE software for simulating electronic circuits	Evaluate
			CO1	Use the basic electronic components and design circuits.	Creating
10	5PC352EC	NETWORK	CO2	Verify various parameters of the circuits by applying theorems.	Analyzing
3000		THEOREM LAB	CO3	Understand the making of PCB.	Applying
			CO4	Design various filters.	Evaluate
			_		4

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			COS	Determine voltages and currents in a resonant circuit	Evaluate
			CO6	Determine network parameters for given two port network	Understand
			COI	Write, Test and Debug Python Programs.	Create
	5ES353CS	PYTHON PROGRAMMING LABORATORY	CO2	Implement Conditionals for Python Programs	Apply
11			CO3	Implement Loops for Python Programs	Apply
			CO4	Use functions and represent Compound data using Lists, Tuples and Dictionaries	Apply
			CO5	Read and write data from & to files in Python and develop Application using Pygame	Apply

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Department of Electronics and Communication Engineering Course Outcomes

AY: 2022-23

IV Semester

S.no	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
			CO1	design and Analyze various amplifiers using BJT	Analyzing
			CO2	Analyze the frequency response of BJT	Analyzing
1	SPC405EC	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
	SPC406EC	AUTOMATIC CONTROL SYSTEMS	COI	Explain the concepts of control systems, time& frequency domain specification, and also concepts of state space representation.	Understandi
2			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
-			CO3	Analyze the modelling of mechanical systems and stability using time domain techniques.	Analyzing
			CO4	Analyze the control system stability using frequency domain techniques.	Analyzing
			COS	Analyze the Discrete control systems and the control system in state space representation.	Analyzing
			COI	Perform mathematical operations on fixed and floating point digital data.	Understandir

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	5PC407EC		CO2	Illustrate the operation of a digital computer.	Analyzing
3		COMPUTER ORGANISATION AND ARCHITECHTURE	CO3	Understand I/O interfacing of a computer.	Analyzing
			CO4	Interface microprocessor with memory devices.	Applying
			CO5	Understand latest trends in microprocessors.	Evaluating
	5PC408EC		COI	Understand the different coordinate systems, concepts of electric, magnetic fields, Electromagnetic fields and transmission line parameters	Understandin
		PC408EC ELECTROMAGNETIC THEORY AND TRANSMISSION LINES	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			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
			CO5	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	Understandin
	VI 0107EC	IC APPLICATIONS		Apply Learn about the basic concepts for the circuit configuration for the design of linear integrated circuits and & Develop skills to develop simple filter of cuits and	Applying

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				various amplifiers and can solve problems related to it	
			соз	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
			CO5	Analyze: The ability to understand, analyze and design various combinational and sequential circuits	Analyzing
	5MC402HS		COI	To outline the history of civilization in Indian context since pre-Vedic times	Understanding
		ESSENCE OF INDIAN TRADITIONAL KNOWLDEGE	CO2	To outline the various schools of Indian Philosophy	Understanding
6			CO3	To demonstrate the diversity in Indian Thought, Languages, regional culture, dress, living style etc.	Understanding
			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
			CO2	Ensures students sustained happiness thrugh identifying the essentials of professional ethics	Understandin and Analyzin
7	5HS403HS	HUMAN VALUES AND PROFESSIONAL	CO3	It facilitates a correct understanding between profession and happiness	Understandin
æ	эпэчэпэ	ETHICS	C04	Understand practically the importance of trust, mutually satisfying human behaviour and enriching interaction with nature.	Understanding evaluating
			COS	Ability to develop appropriate technologies and management patterns to create harmony in professional and personal life.	Analyzing

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			COI	Calculate gain and bandwidth of BJT, FET.	Understandin
8	5PC453EC	AEC LABORATORY	CO2	Study Feedback amplifier circuits.	Remembering
			CO3	Study oscillator circuits.	Creating
	T I		CO4	Demonstrate filter circuits.	Understandin
			CO5	Demonstrate power amplifier and OpAmp. Circuits	Understandin
			COI	Study and performance Of various parameters of op-amp & Construct linear and non-linear applications circuits .	Applying
			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
			COS	Verify Flip-Flop conversions and latches using gates and ICs.	Applying

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Department of Electronics and Communication Engineering Course Outcomes

AY: 2022-23 (AICTE Model Curriculum)

V Semester

S.no	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
			COI	Identify the importance of DSP in real time processing	Applying
			CO2	Compute DFT & apply its properties in problem solutions, also optimize the calculation using FFT algorithm	Applying
12	Acceptance of	Digital Signal	CO3	Design, evaluate& construct FIR filters to satisfy desired frequency response by hand	Creating
1	PC408EC	Processing	CO4	Design,evaluate& construct IIR filters on the basis of an analogue design by hand	Creating
			CO5	Compute & comprehend sampling rate conversions & their applications	Evaluating
			CO6	Understand the importance of DSP processor applications and also comprehend thearchitecture, addressing modes & instruction set of TMS processor	Applying
			COI	Explain the generalized architecture of microprocessors and microcontrollers. Learn about 8086 Microprocessor and 8051 Microcontroller- different types of addressing modes, instruction set and interrupts.	Understanding
		Microprocessor	CO2	Build Interfacing diagram of memory, peripherals using 8086 Microprocessor and 8051 Microcontroller.	Applying
2	PC409EC	and Microcontroller	CO3	Apply 8086 Microprocessor and 8051 Microcontroller instruction set for writing simple assembly language programs.	Applying
			CO4	Explain the algorithm and program for interfacing different peripherals to 8086 microprocessor and 8051 Microcontroller.	Analyzing
			COS	Write an Assembly/C language program for interfacing different peripherals by using different software tools to 8086 microprocessor and 8051 Microcontroller.	Evaluating

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	PC412EC	Antennas and wave	COI	Illustrate the basic principles of antennas and learn the antenna terminology.	Understanding
5	DOMAGO		CO6	Students will be able to understand state space representation and hence determine stability, controllability and Observability of a system in state space domain	Determining
		EC Automatic Control Systems	CO5	Students will be able to understand the digital control system and its importance	Understandin
			CO4	Students will be able to construct Bode plots and thus analyze system stability in frequency domain	Applying and analyzing
4	PC411EC		CO3	Students will be able to construct Root locus Technique and thus analyze system stability in time domain	Applying and analyzing
			CO2	Students will be able to construct Routh Array/Hurwitz determinant and thus analyze system stability in time domain and time response	Applying and analyzing
			COI	Students will be able understand fundamentals of control systems & able to apply the rules of block diagram and signal flow graph to obtain overall transfer function	Understanding Applying
			C06	Students able to Discriminate the design skills to illustrate the different modulation systems and method to implement different communication systems.	Applying
			COS	Identify the noises present in continuous wave modulation systems and analyze Signal to Noise ratio in each system.	Analyzing
3	PC410EC	Analog Communication	C04	Interpret with differentiate types of transmitters and receivers used for particular application.	Understandin
			CO3	Illustrate and compare the pulse modulation systems	Applying
			CO2	Demonstrate and contrast the different Angle modulation schemes	Analyzing
			CO1	Explain and analyze the various continuous modulation systems	Understandin
			CO6	Design Interfacing of real time applications like ADC, DAC, LCD and stepper motor with 8086 microprocessor and 8051 microcontroller.	Create

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		propagation	CO2	understanding practical antennas	Applying
			CO3	Design different types of antennas for various frequency ranges and get updated with latest developments in the practical antennas.	Creating
			CO4	Apply the principles of antennas, to design antenna arrays and measure various parameters of antennas.	Analyzing
			CO5	Identify and understand the suitable modes of Radio Wave propagation used in current practice.	Evaluating
_			CO6	Analyze the structure of atmosphere for the wave propagation	Analyzing
	HS104ME	Industrial Administration and Financial Management	COI	Illustrate the types of various business organizations, organization structures, functions of management and able to choose the proper plant layout.	Applying
			CO2	Explain the concept of Work Study and apply work measurement techniques for the calculation of standard time, and the concept of performance rating factors	Applying
			CO3	explain various concepts of Job evaluation, performance appraisal and wage payment system and able to apply these techniques	Applying
6			CO4	process control, material control and by use of control charts could evaluate whether the quality of a product or process in a sleep	Evaluating
			CO5	Programming, Assignment and Project management & Material Management techniques and able to apply these techniques for optimum utilization of the resources	Applying
			CO6	Financial Management and able to apply various capital budgeting techniques and break even analysis.	Applying
7	PC455EC	Microprocessor and Microcontroller Lab	COI	Understand the architecture and its components of 8086 Microprocessor & 8051 Microcontrollers and develop algorithms for simple programs.	Understandin
			CO2	Apply the instruction set of 8086 Microprocessor & 8051 Microcontrollers and develop simple programs.	Applying

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			CO3	Explain the usage of Branching, string instructions and Assembler Directives of 8086 Microprocessor for String Manipulations.	Applying
			C04	Design and Develop interfacing applications by input/output, serial communication devices using 8086 Microprocessor	Evaluating
			COS	Design algorithms and different programs for SFRs using C cross compilers for 8051 Microcontroller	Analyzing
			CO6	Design and Develop interfacing application by input/output ports, serial communication devices using C cross compilers for 8051 Microcontroller	Creating
			COI	Analyze and process signals in the discrete domain	Applying
	PC456EC	Systems and Signal Processing Lab	CO2	Perform linear and circular convolution on various types of signals	Applying
			CO3	Analyze and Observe Magnitude and phase characteristics (Frequency response Characteristics) of digital IIR-Butterworth, Chebyshev filters.	Analyzing
8			CO4	Analyze and Observe Magnitude and phase characteristics (Frequency response Characteristics) of digital FIR filter using window techniques.	Analyzing
			CO5	Design multi rate signal processing of signals through systems.	Evaluating
			C06	Develop and Implement DSP algorithms in software using a computer language such as C with TMS320C6713 floating point Processor	Evaluating
			COI	Get Practical experience of software design and development, and coding practices within Industrial/R&D Environments.	Understanding
9	PW701EC	Mini Project	CO2	Gain working practices within Industrial/R&D Environments	Applying
			CO3	To encourage students to work on innovative and entrepreneurial ideas.	Understanding
			CO4	Prepare reports and deliver effective presentation.	Applying

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CO5	Demonstrate effective written and oral communication skills	Analyzing
CO6	Design, implement and test the prototype/algorithm in order to solve the conceived problem.	Creating

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Department of Electronics and Communication Engineering

Course Outcomes

AY: 2022-23

(AICTE Model Curriculum)

VI Semester

S.No.	Course Code	Course Name	CO No.	Course Outcomes	Taxonomy
1				Explain the concepts of Receiver structure, Information theory, Codes for error control, Base band modulation schemes and Spread spectrum methods	Understanding
	PC413EC	C413EC Digital Communication	CO2	Apply concepts of ISI and Eye Pattern for Base band digital data transmission., Information theory and assess information capacity of various channels	Applying
			CO3	Distinguish different types of Error control codes along with their encoding/decoding algorithms.	Analyzing
			CO4	Analyze the Performance of Baseband Modulation schemes based on Probability of error	Analyzing
			CO5	Analyze the performance of Spread Spectrum communication systems	Analyzing
2	PC414EC	VLSI Design	COI	Understand various VLSI design styles, fabrication process of MOS, able to analyze the inverter characteristics, basic electrical properties and power dissipation of MOS transistor.	Analyzing
		Lot Design		Use Physical design rules to be followed for MOS designs, understand drawbacks of interconnects reliability issues and the effect of scaling on MOS devices.	Understanding

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			CO3	Analyze and implement various MOS subsystems at gate level and transistor level.	Analyzing
			CO4	Analyze the operation of various arithmetic circuits and their testability.	Analyzing
			CO5	Design sequential logic circuits using MOS transistors.	Applying
			COI	Understand the working of various network topologies in circuit and packet switching	Understanding
	bourse	Data Communication	CO2	Implement HDLC protocol and significance of MAC protocols	Applying
3	PC415EC	and Computer Networks	CO3	Understand the network routing protocols and associated algorithms	Understanding
			CO4	Understand the transport layer working with TCP and UDP.	Understanding
		-	CO5	Implement network scenario and obtain its performance evaluation.	Applying
	PE-I (PES01EC)		COI	Develop a foundation that can be used as the basis for higher study and research in the image and video processing.	Remembering
		Digital Image and Video Processing	CO2	Design various filters for processing of images without destroying fine details like edges and lines.	Analyzing
4			CO3	Apply image processing techniques for processing and analysis of remotely sensed, images.	Applying
			CO4	Understand the requirement for various image and video compression algorithms.	Understanding
			COS	Understand and analyze the performance of block matching algorithms in video coding standards.	Understanding
			COI	Explain the concept and significance of IoT and Web Technology.	Understanding
5	PE - II (PE508EC)	IoT System Design and Applications	CO2	Apply the industrial structure of M2M to IoT transition of sample data systems.	Applying
			CO3	Analyze the design and evaluate IoT architecture and its reference model.	Analyzing

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			CO4	Analyze the applications of IoT in various industries, environment, agriculture, and health.	Analyzing
			COS	Analyze the privacy, security, and governance issues related to IoT and suggest solutions to it.	Analyzing
			CO1	Relate the terms and concepts related to disaster management.	Understanding
			CO2	Demonstrate the various categories of disasters and their specific characteristics.	Understanding
6	OE - I (OE601CE)	Disaster Mitigation	CO3	Outline the emerging risks of disasters like climate change on urban areas.	Understanding
			CO4	Explain the pre-disaster, during disaster and post-disaster measures and framework.	Understanding
			CO5	Explain the disaster management acts and frameworks specific to India.	Understandin
			COI	Understand and simulate modulation and demodulation of AM and FM.	Applying
	PC458EC	Communication Systems Lab	CO2	Construct pre-emphasis and de- emphasis at the transmitter and receiver respectively.	Creating
			CO3	Understand and simulate the PAM, PWM&PPM circuits.	Applying
7			CO4	Understand baseband transmission (i.e., PCM, DPCM, DM, and ADM) generation and detection.	Analyzing
			CO5	Understand and simulate digital modulation (i.e., ASK, FSK, BPSK) generation and detection.	Analyzing
			COI	Write the Verilog HDL programs in gate level and data flow modeling.	Applying
			CO2	Implement combinational and sequential circuits using Verilog.	Creating
8	PC459EC	Digital Integrated Circuits Lab	CO3	Analyze digital circuits using VLSI CAD tools like Mentor Graphics / Cadence	Applying
			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
9	PC460EC	Data Communication and Computer	CO1	Understand the working of various network topologies and circuit and packet switching.	Applying

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		Networks Lab	CO2	Comprehend the role of data link layers and significance of MAC protocols.	Creating
			CO3	Understand the networking protocols and the internet protocols.	Applying
			CO4	Understand the transport layer working with TCP, UDP and ATM protocols.	Analyzing
			CO5	Comprehend the functionality of application layer and the importance of network security.	Analyzing
		Summer Internship	COI	Students can Able to select a Practical problem and find solution by using current technologies	Understanding
	PW701EC		CO2	Student can go through training for implementing the project.	Applying
10			CO3	Students can Able to design/develop a small and simple product in hardware or software.	Creating
			CO4	Students can Able to complete the task or realize a pre-specified target, with limited scope.	Creating
			CO5	Students can Able to learn to find alternate viable solutions for a given problem and evaluate these alternatives with reference to pre-specified criteria	Applying

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Department of Electronics and Communication Engineering Course Outcomes

AY: 2022-23 (AICTE Model Curriculum)

VII Semester

S.no	Course Code	Course Title	CO No.	Course Outcome	TAXONOM
			COI	Explain the basic concepts of embedded systems, the selection procedure of Processors, characteristics, and design process in the embedded domain.	Understanding
			CO2	Differentiate architectural features of advanced controllers, instruction sets for programming embedded system design. Apply architectural features of ARM processor for embedded products.	Applying
		22012234-01175-01	CO3	Make use of serial, parallel bus protocols for developing of embedded system products. Also Apply network enabled protocols.	Applying
1	PC701 EC	EMBEDDED SYSTEM	CO4	Analyze testing and hardware software co-design issues pertaining to design of an Embedded System. Examine all software development tools for embedded system.	Analyzing
			CO5	Assess the goal of embedded systems in real time design applications. Know about the RTOS based embedded system design concepts. Compare Testing methods and Debugging techniques.	Evaluating
			CO6	Design and develop embedded product in real time design applications by applying steps in design process for hardware and software of embedded product.	Creating
			COI	Understand various VLSI design styles, fabrication process of MOS, able to analyze the inverter characteristics, basic electrical properties and power dissipation of MOS transistor.	Analyzing
2	PC702EC		CO2	Use Physical design rules to be followed for MOS designs, understand drawbacks of interconnects reliability issues and the effect of scaling on MOS devices.	Understanding
		VLSI DESIGN	CO3	Analyze and implement various MOS subsystems at gate level and transistor level.	Analyzing
			CO4	Analyze the operation of various arithmetic circuits and their testability.	Analyzing
			COS	Design sequential logic circuits using MOS transistors.	Applying
			CO6	Understand the small signal model and characteristics of CMOS amplifiers.	Understanding

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		COI	Describe the propagation characteristics of Guided waves in different modes	Understanding , Analyzing	
		MICROWAVE	CO2	Evaluate different characteristics for Rectangular & Circular Waveguides &Cavity Resonators.	Applying, Analyzing
3	BC#01 BC		соз	Analyze microwave circuits using scattering parameters	Applying, Analyzing
3	PC703 EC	TECHNIQUES	CO4	Design and analysis of microwave guides	Analyzing, Creating
			COS	Understand the principle, operation and characteristics of microwave tubes and oscillators	Remembering Analyzing
			CO6	Analyze the principle, operation and characteristics of microwave solid state devices including strip lines.	
	4 HS707ME		COI	Illustrate the types of various business organizations, organization structures, functions of management and able to choose the proper plant layout.	Applying
		INDUSTRIAL ADMINISTRA TION AND FINANCIAL MANAGEMEN T	CO2	Explain the concept of Work Study and apply work measurement techniques for the calculation of standard time, and the concept of performance rating factors.	Applying
			CO3	Explain various concepts of Job evaluation, performance appraisal and wage payment system and able to apply these techniques.	Applying
4			CO4	Demonstrate the concepts of Quality control, process control, material control and by use of control charts could evaluate whether the quality of a product or process in a plant.	Evaluating
			CO5	Demonstrate techniques like Linear Programming, Assignment and Project management & Material Management techniques and able to apply these techniques for optimum utilization of the resources.	Applying
			CO6	Illustrate the different terminology used in Financial Management and able to apply various capital budgeting techniques and break even analysis.	Applying
			COI	Understand the concept and implementation of frequency reuse and Handoff techniques	Understanding
			CO2	Analyze interference and capacity enhancement	Analyzing
5	PE-II	MOBILE AND CELLULAR	CO3	Appreciate the factors influencing outdoor and indoor propagation systems	Evaluating
	(PE721EC)	COMMUNICA	CO4	Analyze various multiple access protocols	Analyzing
		TION	CO5	Visualize the system architectures and implementation of GSM and CDMA	Creating
			CO6	Understand the concepts in various Mobile Technologies	Understanding
	OE-II	Data Science	COI	Apply linear algebra concepts such as distance, hyper planes, and eigen values in data science problems.	Applying
6	(OE772CS)	OE-II Lising D	CO2	Evaluate and interpret statistical models, including probability mass/density functions and hypothesis testing.	Analyzing

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			CO3	Construct simple and multiple linear regression models for predictive modelling.	Creating
			CO4	Install and configure R software for programming in data science.	Applying
			CO5	Measure and evaluate the performance of classification models.	Evaluating
			CO6	Implement K-Nearest Neighbours (KNN) and K- Means algorithms in R for data classification and clustering.	Applying
			COI	Demonstrate about road accidents and its study objectives. Prepare accident investigation reports and database based on data collected.	Understanding
			CO2	Apply design principles for roadway geometrics improvement with various types of traffic safety appurtenances/tools	Applying
7	OE-III (OE781CE)	ROAD SAFETY	CO3	Explain the road safety design operations, counter measures & characteristics to manage traffic including incident management	Understandin
		ENGINEERING	CO4	Illustrate the concept of Road Safety Auditing its principles, procedures and code of good practice and checklists	Understandin
			CO5	Explain about design and working principles of road signs and traffic signals	Understandin
			C06	Describe applications of ITS in effectively managing the traffic incidents.	Understandin
		MICROWAVE LAB	coı	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
8	PC 751 EC		соз	Analyze of the characteristics of Circulator, Isolator, Directional Coupler, Tees like (Magic tee, E & H plane tees) using the Scattering parameters.	Analyzing
			CO4	To analyze the radiation pattern of antenna	Analyzing
			CO5	Generate the Radiation pattern of different antennas like Yagi-Uda and Horn Antenna and measure the gain of the antennas.	Analyzing
			CO6	Familiarize with the EM simulation software	Creating
			COI	Explain different architecture of ARM processor, its components and Concept of RTOS	Understandin
		ELECTRONIC	CO2	Develop algorithms for simple programs based on RTOS using embedded C for ARM Processors	Analyzing
9	PC 752 EC	DESIGN AUTOMATION LAB	CO3	Design and Develop interfacing Real Time applications using in out pins, serial communication devices for ARM processors	Creating
			CO4	Understand Layout design Rules	Understanding
			CO5	Developing the Verilog code for existing digital designs	Applying

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			CO6	Design of Simple Gates using Layouts	Creating
	PW 761 EC	PROJECT WORK-I	COI	Decision making on interested topic and subject area in the wide spectrum of course	Analyzing
			CO2	Identify the applicability of modern software tools and technology	Analyze
10			CO3	Deliver presentation based on the preparation	Creating
			CO4	Develop communication skills and stage performance	Creating
			COS	Present the results from the work comprehensively through presentation.	Creating
			CO6	Correct him to improve presentation skills.	Evaluating

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Dept Assessment Coordinator

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(An UGC-AUTONOMOUS INSTITUTION)





Estd: 2008

Accredited by HAAC with A+ and HBA Affliated to Camunia University & Approved by AICTE

Department of Electronics and Communication Engineering

Course Outcomes

AY: 2022-23

(AICTE Model Curriculum)

VIII Semester

S.no	Course Code	Course Title	CO No.	Course Outcome	TAXONOMY	
			COI	Explain principle, working, operation of satellite.	Understanding	
		SATELLITE	CO2	Illustrate various effect on satellite communications and to understand types of antenna used.	Understanding	
1	PE 824 EC	COMMUNIC ATIONS (PE-III)	CO3	Explain various components in satellite and satellite TV system.	Applying	
		(12-111)	CO4	Analyze and design satellite communication link.	Applying	
			CO5	Learn and design the application of satellite.	Analyzing	
2	PE 832 EC		COI	Explain the concepts of fundamentals & Segments of GPS and its error &different types of dilution of precision.	Understanding	
			GLOBAL	CO2	Describe the Global & Indian regional satellites system and its features.	Understanding
		NAVIGATIO NAL SATELLITE SYSTEMS (PE-IV)	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	
			CO4	Analyze the GPS errors and their modelling techniques.	Analyzing	
			CO5	Design Analyze the different types of GNSS Architectures	Designing	
			COI	Demonstrate and understand the factors detecting the radar using radar range equation.	Understanding	
		RADAR	CO2	Illustrate various types of radars and their variation displays in radars	Analyzing	
3	PE 843 EC	SYSTEMS (PE-V)	CO3	Explain different types of MTI radars and Non coherent MTI radar	Analyzing	
		(12-1)	CO4	Illustrate on radar tracking methods and differences among them.	Remembering	
			CO5	Explain search radars and various antennas used in radars.	Understanding Analyzing	
	PW	PROJECT	COI	Prepare abstract for given project by identifying the requirements and prospective solution	Analyzing	
4	961 EC	WORK-II	CO2	collect latest information related to the project from various sources to analyse the project	Analyzing	
_			CO3	design the necessary module of the selected project as per	Creating	

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	specifications	
CO4	obtain and analyse the results of the designed module or circuit	Creating
CO5	develop a prototype of the project by distribution of tasks among the team	Creating

Dept Assessment Coordinator

Head of the Department

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