Estd: 2008





Sri Kavitha Educational Society's KHAMMAM INSTITUTE OF TECHNOLOGY & SCIENCES (Affiliated to JNTUH & Approved by AICTE, New Delhi) Ponnekal (Village), Khammam (Rural), Khammam (Dist) -507170 Phone: 08742 – 285399, 9908567792

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING Curriculum: R-18 (Jawaharlal Nehru Technological university, Hyderabad)

Programme and course outcomes for all Programmes offered by the Department These are Circulated through:

- 1. Course Handouts.
- 2. Curriculum / Syllabus
- 3. Course File
- 4. At regular intervals during classwork (whenever necessary)

		l Year / I Semester (2018 - 2022 Batch) AY 201	8-19
Course Code		Course Title	Credits
MA101BS		Mathematics-I	4
CH10	2BS	Chemistry	4
EE10	3ES	Basic Electrical Engineering	3
ME10	D5ES	Engineering Workshop	2.5
EN10	5HS	English	2
CH10	6BS	Engineering Chemistry Lab	1.5
EN10	7HS	English Language Communication Skills Lab	1
EE10	8ES	Basic Electrical Engineering Lab	1
		Induction Programme	
CO (ODE	COURSE OBJECTIVES	
	CO 1	Write the matrix representation of a set of linear equations an solution of the system of equations	d to analyse the
01BS	CO 2	Find the Eigen values and Eigen vectors	
MA1	CO 3	Reduce the quadratic form to canonical form using orthogonal transformations.	
	CO 4	Analyse the nature of sequence and series.	
12BS	CO 1	The knowledge of atomic, molecular and electronic changes, band theory related to conductivity.	
	CO 2	The required principles and concepts of electrochemistry, corr understanding the problem of water and its treatments.	osion and in
CH1(CO 3	The required skills to get clear concepts on basic spectroscopy medical and other fields.	and application to

	CO 4	The knowledge of configurational and conformational analysis of molecules and reaction mechanisms.
EE103ES	CO 1	To analyze and solve electrical circuits using network laws and theorems.
	CO 2	To understand and analyze basic Electric and Magnetic circuits
	CO 3	To study the working principles of Electrical Machines
	CO 4	To introduce components of Low Voltage Electrical Installations
	CO 1	Study and practice on machine tools and their operations
JSES	CO 2	Practice on manufacturing of components using workshop trades including pluming, fitting, carpentry, foundry, house wiring and welding.
ME10	CO 3	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiseling.
	CO 4	Apply basic electrical engineering knowledge for house wiring practice.
	CO 1	Use English Language effectively in spoken and written forms.
HS	CO 2	Comprehend the given texts and respond appropriately.
N105	CO 3	Communicate confidently in various contexts and different cultures.
Ë	CO 4	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.
	CO 1	Determination of parameters like hardness and chloride content in water.
06BS	CO 2	Estimation of rate constant of a reaction from concentration – time relationships.
CH1	CO 3	Determination of physical properties like adsorption and viscosity.
	CO 4	Calculation of Rf values of some organic molecules by TLC technique.
	CO 1	Better understanding of nuances of English language through audio- visual experience and group activities
10	CO 2	Neutralization of accent for intelligibility
N107H5	CO 3	Speaking skills with clarity and confidence which in turn enhances their employability skills
ш	CO 4	Students should be given practice in listening to the sounds of the language, to be able to recognize them and find the distinction between different sounds
	CO 1	Get an exposure to basic electrical laws.
ES	CO 2	Understand the response of different types of electrical circuits to different excitations.

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PRINCIPAL KHAMMAM INSTITUTE OF TECHNOLOGY8SCIENCU Ponnekal (V), Khammam (R)-507 170 Khammam (Dist.) T.S.

EE108	CO 3	Understand the measurement, calculation and relation between parameters	en the basic electrical	
	CO 4	Understand the basic characteristics of transformers and elect	rical machines.	
		Year / II Semester (2018 - 2022 Batch) AY 201	.8-19	
Cours	se Code	Course Title	Credits	
MA201BS		Mathematics - II	4	
AP202BS		Applied Physics	4	
CS203	3ES	Programming for Problem Solving	4	
ME20)4ES	Engineering Graphics	3	
AP20	5BS	Applied Physics Lab	1.5	
CS20	6ES	Programming for Problem Solving Lab	1.5	
MC20	D9ES	Environmental Science	0	
CO C	ODE	COURSE OBJECTIVES		
	CO 1	Identify whether the given differential equation of first order is	s exact or not	
lBS	CO 2	Solve higher differential equation and apply the concept of differential world problems	ferential equation to	
MA201	CO 3	Evaluate the multiple integrals and apply the concept to find areas, volumes, centre of mass and Gravity for cubes, sphere and rectangular parallelopiped		
	CO 4	Evaluate the line, surface and volume integrals and converting another	them from one to	
	CO 1	The student would be able to learn the fundamental concepts behaviour of matter in its micro state.	on Quantum	
02BS	CO 2	The knowledge of fundamentals of Semiconductor physics, Op and fibre optics enable the students to apply to various system communications, solar cell, photo cells and so on.	toelectronics, Lasers ns like	
AP2	CO 3	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.		
	CO 4	The course also helps the students to be exposed to the pheno electromagnetism and also to have exposure on magnetic mat materials.	mena of rerials and dielectric	
	CO 1	To write algorithms and to draw flowcharts for solving problem	ns.	
3ES	CO 2	To convert the algorithms/flowcharts to C programs.		
CS20	CO 3	To code and test a given logic in C programming language.		
	CO 4	To decompose a problem into functions and to develop modul	ar reusable code.	

ME204ES	CO 1	Preparing working drawings to communicate the ideas and inf	ormation.
	CO 2	Read, understand and interpret engineering drawings.	
	CO 3	Principles of Engineering Graphics and their Significance, Conic the Rectangular Hyperbola	Sections including
	CO 4	Development of Surfaces of Right Regular Solids – Prism, Cylin Cone	der, Pyramid and
	CO 1	The student would be able to learn the fundamental concepts behaviour of matter in its micro state.	on Quantum
J5BS	CO 2	The knowledge of fundamentals of Semiconductor physics, Op and fibre optics enable the students to apply to various system communications, solar cell, photo cells and so on.	toelectronics, Lasers Is like
AP20	CO 3	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.	
	CO 4	The course also helps the students to be exposed to the pheno electromagnetism and also to have exposure on magnetic mat materials.	mena of erials and dielectric
	CO 1	Formulate the algorithms for simple problems	
6ES	CO 2	Translate given algorithms to a working and correct program	
CS20	CO 3	Identify and correct logical errors encountered during execution	on
	CO 4	Represent and manipulate data with arrays, strings and structu	ıres
	CO 1	Based on this course, the Engineering graduate will understand technologies	d /evaluate / develop
09ES	CO 2	The basis of ecological principles and environmental regulation which in turn helps in sustainable development	ıs
MC2	CO 3	Introduction, Definition, genetic, species and ecosystem divers	ity.
	CO 4	Primary and secondary pollutants, Automobile and Industrial p quality standards.	oollution, Ambient air
		II Year / I Semester (2018 - 2022 Batch) AY 2019	-20
Course Code		Course Title	Credits
CS301ES		Analog and Digital Electronics	3
CS302	2PC	Data Structures	4
MA30	D3BS	Computer Oriented Statistical Methods	4
CS304	4PC	Computer Organization and Architecture	3
CS30	5PC	Object Oriented Programming using C++	2
CS306ES		Analog and Digital Electronics Lab	1

CS307PC		Data Structures Lab	1.5
CS308PC		IT Workshop Lab	1.5
CS30	9PC	C++ Programming Lab	1
*MC309		Gender Sensitization Lab	0
D1ES	CO 1	Know the characteristics of various components and Understa components.	nd the utilization of
	CO 2	Design and analyze small signal amplifier circuits.	
CS3	CO 3	Learn Postulates of Boolean algebra and to minimize combinat	tional functions
	CO 4	Design and analyze combinational and sequential circuits	
	CO 1	Ability to select the data structures that efficiently model the i problem.	nformation in a
PC L	CO 2	Ability to assess efficiency trade-offs among different data struimplementations or combinations.	ucture
CS3021	CO 3	Implement and know the application of algorithms for sorting matching.	and pattern
	CO 4	Design programs using a variety of data structures, including h and general tree structures, search trees, tries, heaps, graphs,	ash tables, binary and AVL-trees.
	CO 1	Apply the concepts of probability and distributions to some ca	se studies
BS	CO 2	Correlate the material of one unit to the material in other unit	S
/A303	CO 3	Resolve the potential misconceptions and hazards in each topi	c of study.
2	CO 4	Sample Space, Events, Counting Sample Points, Probability of a Rules,Conditional Probability, Independence, and the Product	an Event, Additive Rule, Bayes' Rule.
	CO 1	Understand the basics of instructions sets and their impact on	processor design.
04PC	CO 2	Demonstrate an understanding of the design of the functional computer system.	units of a digital
CS3C	CO 3	Evaluate cost performance and design trade-offs in designing a computer processor including memory.	and constructing a
	CO 4	Design a pipeline for consistent execution of instructions with	minimum hazards.
	CO 1	Able to develop programs with reusability	
SPC	CO 2	Develop programs for file handling	

CS30.	CO 3	Handle exceptions in programming
	CO 4	Develop applications for a range of problems using object-oriented programming techniques
	CO 1	Know the characteristics of various components and Understand the utilization of components.
06ES	CO 2	Design and analyze small signal amplifier circuits.
CS3	CO 3	Postulates of Boolean algebra and to minimize combinational functions
	CO 4	Design and analyze combinational and sequential circuits
	CO 1	Ability to develop C programs for computing and real-life applications
07PC	CO 2	Using the basic elements like control statements, arrays, functions, pointers and strings
CS3(CO 3	The data structures like stacks, queues and linked lists.
	CO 4	Ability to Implement searching and sorting algorithms
	CO 1	Introduces the students to a personal computer and its basic peripherals, the process of assembling a personal computer, installation of system software like MS Windows, Linux and the required device drivers.
808PC	CO 2	Internet & World Wide Web module introduces the different ways of hooking the PC on to the internet from home and workplace and effectively usage of the internet.
CS3	CO 3	protecting the personal computer from getting infected with the viruses, worms and other cyber attacks would be introduced.
	CO 4	To enable the students in crafting professional word documents, excel spread sheets, power point presentations and personal web sites using the Microsoft suite of office tools and LaTeX.
	CO 1	Ability to develop applications for a range of problems using object-oriented programming techniques
D9PC	CO 2	To illustrate the concepts of console I/O operations.
CS3(CO 3	To use scope resolution operator. Display the various values of the same variables declared at different scope levels.
	CO 4	To create an array of pointers and Invoke functions using array objects.
	CO 1	Students will have developed a better understanding of important issues related to gender in contemporary India.

c309	CO 2	Students will be sensitized to basic dimensions of the biological psychological and legal aspects of gender. This will be achieved of materials derived from research, facts, everyday life, literate	al, sociological, d through discussion ure and film.	
OM*	CO 3	Students will attain a finer grasp of how gender discrimination and how to counter it.	works in our society	
	CO 4	Students will acquire insight into the gendered division of labo	our and its relation to	
		politics and economics.		
		II Year / II Semester (2018 - 2022 Batch) AY 2019-2	20	
Course	e Code	Course Title	Credits	
CS40	1PC	Discrete Mathematics	3	
SM40	D2MS	Business Economics & Financial Analysis	3	
CS40	3PC	Operating Systems	3	
CS40	4PC	Database Management Systems	4	
CS40	5PC	Java Programming	4	
CS40	6PC	Operating Systems Lab	1.5	
CS40	7PC	Database Management Systems Lab	1.5	
CS40	8PC	Java Programming Lab	1	
*MC4	409	Constitution of India	0	
	CO 1	Ability to understand and construct precise mathematical proc	ofs	
ЪС	CO 2	Ability to use logic and set theory to formulate precise statements		
CS401	CO 3	Ability to analyze and solve counting problems on finite and discrete structures		
	CO 4	Ability to describe and manipulate sequences		
	CO 1	The students will understand the various Forms of Business		
2MS	CO 2	The impact of economic variables on the Business.		
SM40	CO 3	The Demand, Supply, Production, Cost, Market Structure, Pricing aspects are learnt.		
	CO 4	The Students can study the firm's financial position by analysing the Financial Statements of a Company.		
	CO 1	Will be able to control access to a computer and the files that r	may be shared	
3PC	CO 2	Demonstrate the knowledge of the components of computer and their respective roles in computing.		
CS4C	CO 3	Ability to recognize and resolve user problems with standard o environments.	pperating	
	CO 4	Gain practical knowledge of how programming languages, ope architectures interact and how to use each effectively.	erating systems, and	

	CO 1	Gain knowledge of fundamentals of DBMS, database design and normal forms
CS404PC	CO 2	Master the basics of SQL for retrieval and management of data.
	CO 3	Be acquainted with the basics of transaction processing and concurrency control.
	CO 4	Familiarity with database storage structures and access techniques
	CO 1	Able to solve real world problems using OOP techniques.
5PC	CO 2	Able to understand the use of abstract classes and solve problems using java collection framework and I/o classes.
CS40	CO 3	Able to develop multithreaded applications with synchronization.
	CO 4	Able to develop applets for web applications and design GUI based applications
	CO 1	Simulate and implement operating system concepts such as scheduling, deadlock management, file management and memory management.
ОБРС	CO 2	Able to implement C programs using Unix system calls
CS4(CO 3	To simulate Bankers Algorithm for Deadlock Avoidance and Prevention.
	CO 4	To simulate the following memory management techniques
	CO 1	Design database schema for a given application and apply normalization
17PC	CO 2	Acquire skills in using SQL commands for data definition and data manipulation.
CS40	CO 3	Develop solutions for database applications using procedures, cursors and triggers
	CO 4	Design with E-R Model and Relational Model
	CO 1	Able to write programs for solving real world problems using java collection frame work.
)8PC	CO 2	Able to write programs using abstract classes.
CS4(CO 3	Able to write multithreaded programs.
	CO 4	Able to write GUI programs using swing controls in Java.
	CO 1	Students will have developed a better understanding of important issues related to gender in contemporary India.



MC409	CO 2	Students will be sensitized to basic dimensions of the biological psychological and legal aspects of gender. This will be achieved of materials derived from research, facts, everyday life, literate	II, sociological, d through discussion ure and film.
*	CO 3	Students will attain a finer grasp of how gender discrimination and how to counter it.	works in our society
	CO 4	Students will acquire insight into the gendered division of labo politics and economics.	ur and its relation to
		III Year / I Semester (2018 - 2022 Batch) AY 2020-2	21
Course	e Code	Course Title	Credits
CS50	1PC	Formal Languages & Automata Theory	3
CS50	2PC	Software Engineering	3
CS50	3PC	Computer Networks	3
CS50	4PC	Web Technologies	3
CS51	5PE	Principles of Programming Languages	3
CS52	2PE	Advanced Operating Systems	3.0
CS50	5PC	Software Engineering Lab	1.5
CS50	6PC	Computer Networks & Web Technologies Lab	1.5
EN50	8HS	Advanced Communication Skills Lab	1
*MC	510	Intellectual Property Rights	0
	CO 1	Able to understand the concept of abstract machines and their the languages.	power to recognize
01PC	CO 2	Able to employ finite state machines for modeling and solving problems.	computing
CS5	CO 3	Able to design context free grammars for formal languages.	
	CO 4	Able to gain proficiency with mathematical tools and formal m	ethods.
502PC	CO 1	Ability to translate end-user requirements into system and sof using e.g. UML, and structure the requirements in a Software F Document (SRD).	tware requirements, Requirements
	CO 2	Identify and apply appropriate software architectures and patt level design of a system and be able to critically compare alter	erns to carry out high native choices.
J J	CO 3	Will have experience and/or awareness of testing problems an develop a simple testing report	d will be able to
	CO 4	Functional and non-functional requirements, user requirements requirements, interface specification, the software requirements	ts, system nts document.
	CO 1 Gain the knowledge of the basic computer network technology.		/.

ЗРС	CO 2	Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference model.
CS50	CO 3	Obtain the skills of subnetting and routing mechanisms.
	CO 4	Familiarity with the essential protocols of computer networks, and how they can be applied in network design and implementation.
	CO 1	Gain knowledge of client-side scripting, validation of forms and AJAX programming
04PC	CO 2	Understand server-side scripting with PHP language
CS5	CO 3	Understand what is XML and how to parse and use XML Data with Java
	CO 4	To introduce Server-side programming with Java Servlets and JSP
	CO 1	Acquire the skills for expressing syntax and semantics in formal notation
SPE	CO 2	Identify and apply a suitable programming paradigm for a given computing application
CS51	CO 3	Gain knowledge of and able to compare the features of various programming languages
	CO 4	Introduction, Names, Variables, Concept of Binding, Scope, Scope and Lifetime, Referencing Environments, Named Constants
	CO 1	Understand the design approaches of advanced operating systems
2PE	CO 2	Analyze the design issues of distributed operating systems.
CS52	CO 3	Evaluate design issues of multi processor operating systems.
	CO 4	Identify the requirements Distributed File System and Distributed Shared Memory.
	CO 1	Ability to translate end-user requirements into system and software requirements
J5PC	CO 2	Ability to generate a high-level design of the system from the software requirements
CS5(CO 3	Will have experience and/or awareness of testing problems and will be able to develop a simple testing report
	CO 4	Develop test cases for various white box and black box testing techniques.
	CO 1	Implement data link layer farming methods
16PC	CO 2	Analyze error detection and error correction codes.

CS5(CO 3	O 3 Implement and analyze routing and congestion issues in network design.	
	CO 4	Implement Encoding and Decoding techniques used in present	ation layer
EN508HS	CO 1	Acquire vocabulary and use it contextually.	
	CO 2	Listen and speak effectively.	
	CO 3	Develop proficiency in academic reading and writing.	
	CO 4	Increase possibilities of job prospects.	
	CO 1	The students once they complete their academic projects, shal knowledge on patent and copyright for their innovative resear	l get an adequate ch works
510	CO 2	During their research career, information in patent documents insight on novelty of their idea from state-of-the art search.	provide useful
WC*	CO 3	This provide further way for developing their idea or innovations	
	CO 4	Pave the way for the students to catch up Intellectual Property option a. R&D IP Counsel b. Government Jobs – Patent Examin c. Private Jobs d. Patent agent and Trademark agent e. Entrepr	r(IP) as an career er reneur
		III Year / II Semester (2018 - 2022 Batch) AY 2020-	21
Course	e Code	III Year / II Semester (2018 - 2022 Batch) AY 2020- Course Title	21 Credits
Course CS60	e Code	Course Title	21 Credits 4
Course CS60 CS60	e Code 1PC 2PC	Course Title Machine Learning Compiler Design	21 Credits 4 4
Course CS60 CS60 CS60	2 Code 1PC 2PC 3PC	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms	21 Credits 4 4 4 4
Course CS60 CS60 CS60 CS61	2 Code 1PC 2PC 3PC 2PE	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming	21 Credits 4 4 4 3
Course CS60 CS60 CS61 CS61	2 Code 1PC 2PC 3PC 2PE 1OE	III Year / II Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers	21 Credits 4 4 4 3 3 3
Course CS60 CS60 CS61 CS60 CS60	2 Code 1PC 2PC 3PC 2PE 1OE 4PC	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab	21 Credits 4 4 4 3 3 3 1.5
Course CS60 CS60 CS61 CS60 CS60 CS60	2 Code 1PC 2PC 3PC 2PE 1OE 4PC 5PC	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab Compiler Design Lab	21 Credits 4 4 3 3 1.5 1.5 1.5
Course CS60 CS60 CS61 CS60 CS60 CS60 CS62	2 Code 1PC 2PC 3PC 2PE 1OE 4PC 5PC 2PE	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab Compiler Design Lab Network Programming Lab	21 Credits 4 4 3 3 1.5 1.5 1
Course CS60 CS60 CS61 CS60 CS60 CS60 CS62 *MC0	2 Code 1 PC 2 PC 3 PC 2 PE 1 OE 4 PC 5 PC 2 PE 5 09 5 09	III Year / II Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab Compiler Design Lab Network Programming Lab Environmental Science	21 Credits 4 4 4 3 3 1.5 1.5 1 0
Course CS60 CS60 CS61 CS60 CS60 CS60 CS62 *MC0	2 Code 1 PC 2 PC 3 PC 2 PE 1 OE 4 PC 5 PC 2 PE 5 09 CO 1	III Year / II Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab Compiler Design Lab Network Programming Lab Environmental Science Understand the concepts of computational intelligence like material	21 Credits 4 4 3 3 1.5 1.5 1 0 achine learning
Course CS60 CS60 CS61 CS60 CS60 CS60 CS62 *MC0	2 Code 1 PC 2 PC 3 PC 2 PE 1 OE 4 PC 5 PC 2 PE 5 09 CO 1 CO 2	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab Compiler Design Lab Network Programming Lab Environmental Science Understand the concepts of computational intelligence like matching techniques to problems in different areas	21 Credits 4 4 3 3 1.5 1.5 1.5 1 0 achine learning address the real time
Course CS60 CS60 CS61 CS60 CS60 CS60 CS62 *MC0	2 Code 1 PC 2 PC 3 PC 2 PE 1 OE 4 PC 5 PC 2 PE 5 09 CO 1 CO 2 CO 2	Ill Year / Il Semester (2018 - 2022 Batch) AY 2020- Course Title Machine Learning Compiler Design Design and Analysis of Algorithms Network Programming Fundamentals of Management for Engineers Machine Learning Lab Compiler Design Lab Network Programming Lab Environmental Science Understand the concepts of computational intelligence like matching techniques to problems in different areas Understand the Neural Networks and its usage in machine learning	21 Credits 4 4 4 3 3 1.5 1.5 1.5 1 0 achine learning address the real time rning application.

	CO 1	Demonstrate the ability to design a compiler given a set of language features.
CS602PC	CO 2	Demonstrate the the knowledge of patterns, tokens & regular expressions for lexical analysis.
	CO 3	Acquire skills in using lex tool & yacc tool for devleoping a scanner and parser.
	CO 4	Design algorithms to do code optimization in order to improve the performance of a program in terms of space and time complexity.
	CO 1	Ability to analyze the performance of algorithms
03PC	CO 2	Ability to choose appropriate data structures and algorithm design methods for a specified application
CS6	CO 3	Ability to understand how the choice of data structures
	CO 4	The algorithm design methods impact the performance of programs
	CO 1	To write socket API based programs
12PE	CO 2	To design and implement client-server applications using TCP and UDP sockets
CS62	CO 3	To analyze network programs
	CO 4	Ability to understand Broadcasting and Multicasting
	CO 1	The students understand the significance of Management in their Profession.
110E	CO 2	The various Management Functions like Planning, Organizing, Staffing, Leading
CS60	CO 3	Students can learn Motivation and Control aspects in this course.
	CO 4	The students can explore the Management Practices in their domain area.
	CO 1	Understand complexity of Machine Learning algorithms and their limitations
4PC	CO 2	Understand modern notions in data analysis-oriented computing
CS604	CO 3	Be capable of confidently applying common Machine Learning algorithms in practice and implementing their own
	CO 4	Be capable of performing experiments in Machine Learning using real-world data.
	CO 1	Design and develop interactive and dynamic web applications using HTML, CSS, JavaScript and XML

CS605PC	CO 2	Apply client-server principles to develop scalable and enterprise web applications.
	CO 3	Ability to design, develop, and implement a compiler for any language.
	CO 4	Able to use lex and yacc tools for developing a scanner and a parser.
CS622PE	CO 1	To write socket API based programs
	CO 2	To design and implement client-server applications using TCP and UDP sockets
	CO 3	To analyze network programs
	CO 4	To write Client and server application to given inputs
*MC609	CO 1	the Engineering graduate will understand /evaluate / develop technologies on the basis of ecological principles
	CO 2	They will come to know about the environmental regulations which in turn helps in sustainable development
	CO 3	The student will gain Knowledge on Environmental Pollution and Control Technologies
	CO 4	They will come to know about the various Environmental Policy, Legislation & EIA



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