Vidyavardhini's college of Engineering & Technology Vasai(w) Department of Computer Engineering Course Outcomes for R - 2016 Syllabus

	Program Outcomes
PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex	
engineering problems.	
PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics natural sciences and engineering sciences	
PO3. Design/dev	elopment of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with
appropriate consid	deration for the public health and safety, and the cultural, societal, and environmental considerations.
and synthesis of the	vestigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, he information to provide valid conclusions.
PO5. Modern to	ol usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex
engineering activi	ties with an understanding of the limitations.
PO6. The engine	er and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent
PO7. Environme	ext and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge
of, and need for s	ustainable development.
PO8. Ethics: App	ply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9. Individual	and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
comprehend and	write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11. Project m	anagement and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a
member and leade	er in a team, to manage projects and in multidisciplinary environments.
PO12. Life-long	learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological
	Program Specific Autoomes
PSO1: Analyze p	roblems and design applications of database, networking, security, web technology, cloud computing, machine learning using mathematical skills, and
PSO2: Develop c	computer-based systems to provide solutions for organizational, societal problems by working in multidisciplinary teams and pursue a career in the IT industry.
	Course Outcomes
	At the end of the semester student will able to
FEC101	Applied Mathematics I
FEC101.1	Apply principles of basic operations of matrices , rank and echelon form of matrices to solve linear simultaneous equations.
FEC101.2	Able solve and Analyze Partial Derivatives and apply it in related field of Engineering
FEC101.3	Able apply the concepts of Complex Numbers, hyperbolic functions and logarithms to solve engineering problems.
FEC101.4	Able apply Numerical Methods and Inculcate the habit of Mathematical thinking through Indeterminate forms, Taylor's Series Expansion and by using Scilab.
FEC102	Applied Physics I Draw miller indices using concent of crystallography and Identify crystal structure using X ray diffraction techniques viz. Laue method, rotating crystal
FEC102.1	method & powder method
FEC102.2	Determine the output of LED, photoconductor and photovoltaic cell applying concepts of semiconductor physics.diffractometer
FEC102.3	effect and Josephson effect
FEC102.4	Design acoustic of hall/auditorium using reasons for acoustic defects and Select method for production of ultrasonic waves.
EEC102	
FEC103 1	Applied Chemistry I Analyza the quality of water and suggest methods of treatment
FEC103.2	Illustrate the knowledge of polymers, fabrication methods, conducting polymers in industrial fields.
FEC103.3	Apply the knowledge of lubricants, their properties & mechanism to avoid frictional resistance and interpret phase transformations using thermodynamics
FEC103.4	Demonstrate knowledge of portland cement.
EEC104	
FEC104	Engineering Mechanics
FEC104.1	Illustrate the concept of force, moment and apply the same along with the concept of equilibrium in two and three dimensional systems with the help of FBD.
FEC104.2	Demonstrate the understanding of Centroid and its significance and locate the same
FEC104.3	Estimate required force to overcome friction and correlate real life application to specific type of friction.
FEC104.4	Establish relation between velocity and acceleration of a particle and analyse the motion by plotting the relation.
FEC104.5	Analyse body in motion using force and acceleration, work-energy, impulse- momentum principles
FEC105	Basic Electrical Engineering
FEC105.1	To understand fundamentals of DC circuits and apply knowledge for analyzing network theorems in DC circuits.
FEC105.2	Able to learn the basic operation and analyze the performance of single-phase transformer.
FEC105.4	Able to learn the fundamentals and analyze three phase AC circuits and understand the construction, basic operation of DC motors and generators.
FEC106	Environmental Studies

FEC100.1	Classify assantial resources and control measures for sustainable development
TT GLO C A	
FEC106.2	Illustrate sources and effects of environmental decay.
FEC106.3	Select renewable sources of energy and technology essential for sustainable development.
FEC1064	Apply the regulations of Environmental Protection Act and other bodies for perpetuation of environment
TLCT00.1	The regulations of Environmental Protection Field and outer founds for perpendicular of environment.
FEL101	Basic Workshop Practice I
FEL101.1	Model different prototypes in the carpentry trade such as Cross cut lap joint. Tee lap joint, Dovetel lap joint,
FEI 101 2	Model various basis protectures in the trade of fitting such as Square Havagenel and V Male Female joint
TEL101.2	Model various dask protypes in the trade of fitting such as square, free agoing and v Male Feinale John.
FEL101.3	Perform various basic House Wiring techniques while taking care of electrical safety.
FEL101.4	Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.
FFC201	Applied Mathematics II
I LC201	
	Able to apply euler, runge kutta method to solve differential equations of second and fourth order and apply trapezoidal, simpson's 1/3rd, simpson's 3% th rule
FEC201.1	to solve definite integrals numerically and by using scilab.
	Able to solve differential equations of first order, first degree and engineering problems representable in form of linear differential equations with constant
FEC201.2	coefficients Cauchy's/Legendre's homogenous equations
EEC201.2	
FEC201.5	Able to apply Beta, Gamma functions and D.U.I.S.
FEC201.4	Able to apply double /triple integration to find area, mass, volume and find length of the curve using scilab and rectification method.
FEC202	Anniad Physics II
I LC202	Appled Lysten i
	Calculate uncentess of thin whe of four to wedge-snaped thin him, refractive index, wavelength of right of radius of curvature to rewton's rings in
	interterence application and calculate missing order, grating element wavelength of light using diffraction grating considering parameter viz resolving power
FEC202.1	of grating
FEC202.2	Compare characteristics of images received by photography and holography using concent of LASER
FEC202.3	Calculate artical and a and a facenting of Wanghang such as a made of presentation and areating of step index the
FEC202.5	Carculate errore angle, angle of acceptance, v number, number of modes of propagation, numerical aperture of step index fibre
FEC202.4	Apply concept of electromagnetism in focussing system and CRO
FEC203	Applied Chemistry II
FEC203 1	- Printe types of correston & suggest control measures in inductries
FEC203.2	
FEC203.2	Analyze the quality of fuel & calculate the oxygen required for combustion of fuel.
FEC203.3	Illustrate composition, properties of alloys & properties & application of composite material.
FEC203.4	Illustrate the principles of green chemistry
	maduate are principles of green elements (
IN MANUM	
FEC204	Engineering Drawing
FEC204.1	Apply the basic principles of projections in Projection of Lines, Planes and Engineering Curves
FEC204.2	Apply the basic principles of projections in Projection of Solids & Section of solids
FEC204.3	Visualize the given 3D object and draw Orthographic projections
FEC204.4	Draw Isometric view from the given orthographic projections
FEC204.5	Draw forthcompting and here the Data strate in the processing Article
TEC204.5	Draw Ormographic and isometric Projection using AutoCau
FEC205	Structured Programming
FEC205.1	Identify the terminologies in operating system used for computer programming and illustrate the algorithms to support Structure Programming Approach.
1 LC205.1	Use Variables derived data types and control structures to write C program
FEC205.2	
FEC205.2	See A matching derived a data spipes and considerated to write a program.
FEC205.2 FEC205.3	Implement solutions to the problem using strings and functions.
FEC205.2 FEC205.3 FEC205.4	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem.
FEC205.2 FEC205.3 FEC205.4	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem.
FEC205.2 FEC205.3 FEC205.4 FEC206	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills
FEC205.2 FEC205.3 FEC205.4 FEC206 FEC206	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills The develop the ability to understand the importance of communication fundamentals and its usage in social context.
FEC205.2 FEC205.3 FEC205.4 FEC206 FEC206.1	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context
FEC205.2 FEC205.3 FEC205.4 FEC206 FEC206.1 FEC206.2	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills
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FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II
FEC205.2 FEC205.3 FEC205.3 FEC206.4 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201.1	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint.
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FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201.4 FEL201.1 FEL201.2 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.4 CSC302	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Applied Mathematics III Apply the concept of Fourier Series for expansion of periodic functions. Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques.
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FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301.1 CSC301.2 CSC301.3 CSC302.2	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the trade of fitting such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Read various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Applied Mathematics III Apply the concept of Fourier Series for expansion of periodic functions. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Digital Logic Design And Analysis Convert one number system to another and to realize logic circuits using basic/universal gates. Analyze and design combinational circuits using gates/multiplexers.
FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201.4 FEL201.2 FEL201.2 FEL201.2 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.3 CSC301.4 CSC302.2 CSC302.2 CSC302.2 CSC302.2	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skinming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Model various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Digital Logic Design And Analysis Convert one number system to another and to realize logic circuits using basic/universal gates. Analyze and design combinational circuits using Plaps.
FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEC206.4 FEL201.1 FEL201.2 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.2 CSC301.2 CSC301.2 CSC302.1 CSC302.1 CSC302.1 CSC302.1 CSC302.3 CSC302.4	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model various basic prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Read various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and cimping. Applied Mathematics III Apply the concept of Fourier Series for expansion of periodic functions. Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Digital Logic Design And Analysis Convert one number system to another and to realize logic circuits using Basic/universal gates. Analyze and design combinational circuits using gates/multiplexers. Analyze and design combinational circuits using gates/multiplexers. Analyze and design combinational analyse using analyze modeline stryles in VHDI. for combinational/semential circuits
FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301.1 CSC301.2 CSC301.3 CSC301.4 CSC302.1 CSC302.1 CSC302.3 CSC302.4	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Read various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Model various basic Layout drawing; make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Applied Mathematics III Apply the concept of Fourier Series for expansion of periodic functions. Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Digital Logic Design And Analysis Convert one number system to another and to realize logic circuits using basic/universal gates. Analyze and design combinational circuits using flap Flops. Compare CMOS, TTL logic families and analyze modeling styles in VHDL for combinational/sequential circuits.
FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301.1 CSC301.2 CSC301.3 CSC302.2 CSC302.1 CSC302.2 CSC302.4	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Read various basic Layout drawing: make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Applied Mathematics III Apply the concept of Fourier Series for expansion of periodic functions. Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Digital Logic Design And Analysis Convert one number system to another and to realize logic circuits using basic/universal gates. Analyze and design combinational circuits using gates/multiplexers. Analyze and design combinational circuits using gates/multiplexers. Analyze and design combinational circuits using gates/multiplexers. Analyze and design combinational circuits using Batis /universal gates. Analyze and design combinational circuits using Batis /universal gates. Analyze and design combinational cincuits using Batis /universal gate
FEC205.2 FEC205.3 FEC206.1 FEC206.2 FEC206.3 FEC206.4 FEC201 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301.1 CSC301.2 CSC301.3 CSC302.1 CSC302.1 CSC302.3 CSC303.3	Implement solutions to the problem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Female joint. Model various basic Layout drawing; make positive and negative film, and perform PCB teching and drilling. Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Apply the concept of Fourier Series for expansion of periodic functions. Apply Laplace transform, Inverse Laplace transform & Z- transform to different applications. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Convert one number system to another and to realize logic circuits using basic/niversal gates. Analyze and design combinational circuits using gates/multiplexers. Analyze and design combinational circuits using gates/multiplexers. Analyze and design formibinational circuits using gates/multiplexers. Analyze and design combinational circuits using gates/weign styles in VHDL for combinational/sequential circuits. Descrete Mathematics
FEC205.2 FEC205.3 FEC205.4 FEC206.1 FEC206.3 FEC206.4 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.3 CSC302.1 CSC302.1 CSC302.3 CSC302.4 CSC303.1	Implement solutions to the rytoblem using strings and functions. Use Pointers, Structure-Union and Files for solving complex Computational problem. Communication Skills To develop the ability to understand the importance of communication fundamentals and its usage in social context Develop message generating and delivery skills, gain insight into their own speaking skills Can draft letters and other technical documents paying attention to the writer's objectives and reader's needs Implement all the important aspects of reading including skimming, scanning, note making and discourse coherence Basic Workshop II Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Fennale joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Fennale joint. Model various basic prototypes in the trade of fitting such as Square, Hexagonal and V Male Fennale joint. Model various basic Layout drawing: make positive and negative film, and perform PCB etching and drilling, Tinning and soldering operations. Dismantle and Assemble a Personal Computer, perform Basic troubleshooting and maintenance, identify network components and perform Basic networking and crimping. Perform data analysis using correlation and regression. Understand complex variables and functions and perform mapping using different techniques. Pietrom data analysis using correlation and regression. Understand complex variables and to realize logic circuits using basic/universal gates. Analyze and design sequential circuits using Pilp Flops. Convert one number system to another and to realize logic circuits using basic/universal gates. Analyze and design sequential circuits using Flip Flops. Compare CMOS, TTL logic families and analyze modeling styles in VHDL for combinational/sequential circuits. Discrete Mathematics Apply set notations and rules of mathe

CSC303.3	Solve problems using counting techniques, functions and represent them in the form of graphs.
CSC303.4	Use groups and codes in Encoding – Decoding.
CSC304	Electronic Circuits and Communication Fundamentals
CSC304.1	Analyze bipolar junction transistor and compare oscillators, power amplifiers in communication system.
CSC304.2	Analyze inverting/non-inverting operational amplifiers, their applications.
CSC304.3	Compare AM / FM Modulation / Demodulation techniques.
	Compare Pulse Modulation generation/detection. Multiplexing techniques and analyze amount of information, average information, information rate, channel
CSC304.4	canacity in Information Theory
CSC305	Data Structures
CSC205 1	Data Structures
CSC305.1	Identify data structure suitable to the problem definition
CSC305.2	Demonstrate operations on linear data structures
CSC305.5	Use methods of organizing large amounts of data for non linear data structures.
CSC305.4	Use appropriate searching and/or sorting technique for application development
CCT 201	
CSL301	Digital System Lab
CSL301.1	Implement & verify the truth table of Boolean algebra, logic gates using ICs on breadboard.
CSL301.2	Implement & verify the truth table of combinational circuits using ICs on breadboard.
CSL301.3	Implement & verify the truth table of sequential circuits using ICs on breadboard.
CSL301.4	Implement logic gates using VHDL.
CSL302	Basic Electronics Lab
CSL302.1	Measure the voltage, frequency and observe waveforms using function generator and CRO.
CSL302.2	Analyze BJT circuits and calculate AC / DC parameters.
CSL302.3	Implement inverting non-inverting amplifier adder subtractor circuits using IC 741
CSL302.4	Observe the input -output waveforms of AM_EM_PAM_PWM and PPM circuits
001002	Observe are impat-output waveforms of Aw, TW, TW, TW, and TTW encours.
CSL303	Data Standung Lab
CSI 202 1	Data Structure Lan
CSL303.1	Implement Operations on Linear Data Structure - Stack, Queue.
CSL303.2	Implement Operations on Linear Data Structure - Singly Linked List, Doubly Linked List
CSL303.3	Implement Operations on Non Linear Data Structure - I ree and Graph
CSL303.4	Implement Searching and Sorting Algorithms - Binary Search, Quick Sort, Merge Sort.
CSL304	OOPM(JAVA) Lab
CSL304.1	Implement java programming constructs using tokens and control statements.
CSL304.2	Implement program using string, array, class, object and packages.
CSL304.3	Implement inheritance, interface, exception handling and multithreading
CSL304.4	Develop Graphical User Interface using JAVA
CSC401	Applied Mathematics-IV
CSC401.1	Apply matrix theory to solve the system of linear equations and eigen values and eigen vectors and their applications.
CSC401.2	Annly probability theory and find statistical measures for discrete and continuous random variables
CSC401.2	raphy producting unory and the dataset in negative for encrete and continuous familion statistics.
CSC401.5	
CSC401.4	Solve the problems using various optimization techniques to optimize LPP & NLPP.
CSC402	Analysis of Algorithms
CSC402.1	Calculate the efficiency of an algorithm and analyze the problem using divide and conquer approach.
CSC402.2	Apply Greedy and Dynamic Programming strategies to solve real world problems.
CSC402.3	Analyze problems on backtracking, branch and bound strategies.
CSC402.4	Analyze strategies of NP Complete problems and use String Matching Algorithms.
CSC403	Computer Organization and Architecture
CSC403.1	Classify levels in computer system and apply arithmetic algorithms to solve ALU operations.
CSC403.2	Analyze the data processing operations of central processing and compare hardwired/microprogrammed control unit.
CSC403.3	Classify parameters of cache/virtual memory and implement memory mapping techniques.
CSC403.4	Compare data transfer techniques and identify the components of 8089/superscalar/multi-core processor architecture
	compare data transfer communes and identify the components of 6007/superseduarmant core processor a entectare.
CSC404	Commenter Complian
CSC404	Computer Graphics
CSC404.1	Appry scan conversions argorithms to draw point, and, circle, ellipse and scan line, flood full, boundary full algorithms.
CSC404.2	Apply 2D geometric transformations, viewing and line / polygon clipping algorithms on graphical objects
CSC404.3	Apply 3D geometric transformations, clipping algorithm on graphical objects, construct the curves, and derive the matrix for projection.
CSC404.4	Compare visible surface detection techniques, illumination models and surface rendering.
CSC405	Operating Systems
CSC405.1	Apply techniques of process scheduling, thread, process synchronization and deadlock in OS.
CSC405.2	Develop performance of memory allocation and replacement techniques
CSC405.3	Identify file systems including Linux virtual file system.
CSC405.4	Analyze the features of I/O management and techniques of disk Scheduling in OS
CSL401	Analysis of Algorithm Lab
CSL401.1	Implement Greedy Algorithms for Fractional Knapsack, Prim's and Kruskal's Algorithm.

CSI 401 2	Implement Dynamic Programming algorithms for All pairs Shortest path 0/1 Knapsack Problems
CSL 401.2	Implement Dealerships algorithms for Nueva Dealers Subjects Pathet Roberts
CSL401.5	Implement blockfacking algoritums for Nducen Froblem, Sum of Subset Problem.
CSL401.4	Analyze the performance of String matching and Sorting Algorithms
CSL402	Computer Graphics Lab
CSL402.1	Implement output and filled area primitive algorithms.
CSL402.2	Implement Bezier curve, character generation methods.
CSL402.3	Apply transformation, projection, and clipping algorithms on graphical objects.
CSL402.4	Implement output primitives and sierninsky gasket using OpenGL
	unbenent onbar brunntee and orehanse). Baster gould oberioty
CSI.403	Processor Architecture I ab
CSL403.1	Analyze dismantling and assembling of PC
CSL403.2	Design and simulate Half adder Full adder circuits
CSL403 3	Design and simulate fair addot, i an addot enry lock-shead adder. ATU
CSI 403 4	Design and simulate repportary address and address report
00210011	Design and simulate memory cache memory.
CSI 404	Operating System Lab
CSL404 1	Operating System Lab
CSL404.2	Implement OF Commands and system cans
CSL404.3	Implement 51: 1 CTS and Econor From Process Schedung agorithms
CSL404.3	Impendent mist induction to be induced and the head line allocation CDU OC simplifies
C3L404.4	Execute process management techniques and deadlock nandling algorithms using CPU-OS simulator.
CSI 405	Oran Sama Tashuslara Lak
CSL405	Open Source Technology Lab
CSL405.1	Implement python constructs, rules, Directories, text processing in python.
CSL405.2	Execute programs using Object Oriented Concepts, data structure and Networking in python
CSL405.5	Develop application using Database connectivity, Graphical User interface and Django web Framework in Python
CSL405.4	Implement file handling and database handling in perl.
000501	
CSC501	Microprocessor
CSC501.1	Identify the components and their functions in 16 bit microprocessors.
CSC501.2	Write assembly and Mixed language programs for 8086 microprocessor.
CSC501.3	Design 16-bit 8086 microprocessor based system using memory chips and peripheral chips.
CSC501.4	Classify multicore processors with its advantages
09.0502	
CSC502	Database Management System
CSC502.1	Identify characteristics of database management system
CSC502.2	Design ER/EER and Relational model for given case study.
CSC502.3	Apply SQL and relational algebra queries on given problem
CSC502.4	Use normalization, transaction, concurrency and recovery techniques in database system
CSC503	Computer Network
CSC503.1	Compare different topologies, terminology of computer networking area and types of transmission media.
CSC503.2	Analyze algorithms for error detection, error correction, multiple access control and identify. IP Addressing
CSC503.3	Analyze routing algorithms and congestion control algorithms
CSC503.4	Anny siding Window technique for TCP Flow control and Use HTTP SMTP. Telnet FTP, DHCP, SNMP protocol at application layer
	rappy shang window teemingue to FEF flow control and ese fifth, own, femer, fift, Difer, own protection appreadow appr
CSC504	The same of Communities Science
00004	1 neory of Computer Science
CSC504.1	Apply NFA/DFA techniques for pattern matching
CSC504.2	Apply specified well defined rules for syntax verification
CSC504.3	Analyze and design PDA, Deterministic Turing Machine for formal languages
CSC504.4	Use computability, decidability, undecidability, complexity classes for formal languages.
CSDLO5012	Advanced Operating System
CSDL 05012 1	Advanced Operating System
C3DL05012.1	Identify design issues in advanced operating systems.
CSDL05012.2	Analyze design aspects and data structures used for file, memory and process subsystem of UNIX OS.
CSDLO5012.3	Compare architectures and processor scheduling algorithms of Multiprocessor OS
CSDLO5012.4	Analyze clock driven: cyclic, Event driven: EDF and rate monotonic real time scheduling algorithms.
CSDLO5013	Advanced Algorithm
CSDI 05013-1	Annu slovetku dosion ond enslusis techniques for a since and and
CSDL05013.1	Appy agonum ucsign and analysis techniques for a given problem
CSDL05013.2	Identify the operations of advanced data structure for given problems
CSDLO5013.3	Identify the role of probability and randomization in analysis of algorithm
CSDLO5013.4	Identify the algorithm to be applied for geometric modeling, networking application and differentiate polynomial and NP complete problems.
CSL501	Microprocessor Lab
CSL501_1	Use instruction set to write program for \$086 microprocessor
CSI 501.2	ese insuletion set to white program for bodo interoprocessor
CSL501.2	Develop programs in assembly language for 8086 microprocessor.
CSL501.3	Develop programs in mixed language for 8086 microprocessor.
CSL501.4	Execute assembly language program by interfacing 8086 microprocessor with 8255 PPI or 8253 PIT.

CSI 502	Commuter Network Lob
CSL302	Computer Network Lab
CSL502.1	Implement and analyze CRC/Hamming Code Error control algorithms.
CSL502.2	Use Wireshark to simulate the operation of TCP/IP layers
CSL502.3	Implement and analyze TCP/LIDP socket programming for Chatting Application
CSI 502.4	A set la line set un de la set de la metta de set a N22 de la desta de la set de la se
CSL502.4	Apply Linux networking commands and simulate topology using INS2 tools / Packet tracer.
CSL503	Database & Info.System Lab
CSL503.1	Design ER and EER diagram for the real life problem with software tool.
CSL503.2	Create database tables with different DDL and DML statements and apply integrity constraints
CSL503.3	Apply SQL queries triggers and procedures for specific module/task
CSL503 4	Construct concurrent transactions and able to access data through front and using IDBC ODBC connectivity.
002000.1	construct concurrent transactions and able to access data intolegin none child using spike oppic connectivity
CSL504	Web Design Lab
CSL504.1	Identify the components of web architecture.
CSL504.2	Design static web pages using HTML, CSS, Javascript Validation
CSL504.3	Create the web page using server side scripting.
CSL504.4	Develop web page using XML, AJAX and Create an application using Laravel Framework.
CET 505	
CSL505	Business Communication And Etnics
CSL505.1	Design a technical document using precise language, suitable vocabulary and apt style.
CSL505.2	Develop the life skills/interpersonal skills to progress professionally by building stronger relationships.
CSL505.3	Demonstrate awareness of contemporary issues knowledge of professional and ethical responsibilities.
CSL505.4	Apply the traits of a suitable candidate for a job/higher education upon being trained in techniques of holding a group discussion facing interviews and
CSI 505 5	The second and a second size of a second sec
CSL505.5	Denver formal presentation effectively implementing the verbal and non-verbal skills.
aaarar	
CSC601	Software Engineering
CSC601.1	Select process models for software project development.
CSC601.2	Identify requirements, analyze, prepare models & plan, schedule & the progress of the projects.
CSC601 3	Design develop the software projects & identify risks manage the change to assure quality in software projects
000001.5	Design de entre projects de terren y risks, manage de change to assure quanty in sortware projects.
CSC601.4	Apply testing principles on software projects & maintenance models.
CSC602	System Programming & Compiler Construction
CSC602.1	Identify the system programs, application programs and design assembler with data structure.
CSC602.2	Design Macro-Processor and Loaders
CSC602.3	Design Analysis phase of Compiler
CSC602.5	
CSC602.4	Design synthesis phase of compiler.
10000000	
CSC603	Data Warehosing & Mining
CSC603 CSC603.1	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set
CSC603 CSC603.1 CSC603.2	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns.
CSC603 CSC603.1 CSC603.2 CSC603.3	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns. Design a data warehouse for a given application and perform OLAP operations to take business decisions.
CSC603 CSC603.1 CSC603.2 CSC603.3 CSC603.4	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns. Design a data warehouse for a given application and perform OLAP operations to take business decisions. Apply re-processing techniques for a given data set and analyze complex data types with respect to Spatial and Web mining
CSC603 CSC603.1 CSC603.2 CSC603.3 CSC603.4	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns. Design a data warehouse for a given application and perform OLAP operations to take business decisions. Apply pre-processing techniques for a given data set and analyze complex data types with respect to Spatial and Web mining
CSC603 CSC603.1 CSC603.2 CSC603.3 CSC603.4 CSC604	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns. Design a data warehouse for a given application and perform OLAP operations to take business decisions. Apply pre-processing techniques for a given data set and analyze complex data types with respect to Spatial and Web mining Cryntography & System Security
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CSC603 CSC603.1 CSC603.2 CSC603.3 CSC603.4 CSC604.4 CSC604.1 CSC604.2 CSC604.3 CSC604.4 CSDLO6021.2 CSDLO6021.1 CSDLO6021.2 CSDLO6021.2 CSDLO6021.4 CSDLO6022.1 CSDLO6022.1 CSDLO6022.1 CSDLO6022.2 CSDLO6022.2 CSDLO6022.3 CSDLO6022.4 CSL601.1 CSL601.3 CSL601.3 CSL601.4	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns. Design a data warehouse for a given application and perform OLAP operations to take business decisions. Apply pre-processing techniques for a given data set and analyze complex data types with respect to Spatial and Web mining Cryptographic Addition and perform OLAP operations to take business decisions. Apply the cryptographic the chance of the addition addition addition addition addition addition addite addition add
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CSC603 CSC603.1 CSC603.2 CSC603.3 CSC603.4 CSC604.4 CSC604.1 CSC604.2 CSC604.3 CSC604.3 CSC604.4 CSDLO6021 CSDLO6021.2 CSDLO6021.2 CSDLO6021.3 CSDLO6022.1 CSDLO6022.1 CSDLO6022.2 CSDLO6022.2 CSDLO6022.2 CSDLO6022.2 CSDLO6022.4 CSL601.1 CSL601.1 CSL601.2 CSL601.3 CSL601.4 CSL602 CSL602.1	Data Warehosing & Mining Apply supervised and unsupervised mining algorithms for a given data set Analyze the given transactional data and apply appropriate techniques to identify interesting patterns. Design a data warehouse for a given application and perform OLAP operations to take business decisions. Apply pre-processing techniques for a given data set and analyze complex data types with respect to Spatial and Web mining Cryptography & System Security Use classical encryption techniques for data encryption. Apply ELGAMAL and Schnorr digital signature algorithms to achieve authentication and design secure applications Apply the cryptographic checksum and message digest algorithms to achieve authentication and design secure applications Apply the cryptographic checksum and message digest algorithms to check data integrity Evaluate the performance of firewall, SSL and recognize malicious code using firewall. Machine Learning Identify machine learning techniques suitable for a given problem Solve optimization problems using Steepest Descent, Newton method, Random Search, Down Hill Simplex method and implement logical function using MP neuron model. Apply classification and regression techniques on a given data set. Apply clustering and dimensionality reduction techniques on a given data set. Apply clustering and disensionality reduction techniques for resource management Analayze fatures

CSL602.3	Implement the analysis phase of Compiler and use LEX, YACC tools to develop analysis phase.
CSL602.4	Implement synthesis phase of compiler.
CSL603	Data Warehousing & Mining Lab
CSL603.1	Implement clustering and classification algorithms on a given data set.
CSL603.2	Implement association rule mining algorithm on a given data set.
CSL603.3	Design data warehouse and perform OLAP operations on a given input.
CSL603.4	Simulate clustering, classification and association mining algorithms using WEKA tool
CSL604	System Security Lab
CSL604.1	Analyze and implement symmetric ciphers and RSA public key algorithm.
CSL604.2	Analyze and evaluate performance of hashing algorithms.
CSL604.5	Use network reconnaissance tools to gather information about networks and sniffers, port scanners tools for analyzing packets in a network.
CSL604.4	Detect ARP spoofing using nmap and monitor network packets using wireshark packet sniffer tool.
CSD605	Mini Duri est
CSP605 1	Idantify conjects industrial nonder and formulate problem statement followed by requirement analysis
CSP605.2	Design and develop solution using modern tools for the size norblem
CSP605.3	Design and develop solution using inducent tools for the given protone
CSP605.4	Develop effective communication / technical writing skills through project presentation, Group discussion and report writing activities.
CSC701	Digital Signal & Image Processing
CSC701.1	Analyze discrete time signal and discrete time system
CSC701.2	Develop FFT flow graph upto 8 points
CSC/01.3	Use the enhancement techniques for digital image processing
CSC/01.4	Use the edge detection techniques for digital image processing and develop small projects of 1-D and 2-D Digital Signal Processing.
CSC702	Mahile Communication & Commuting
CSC702.1	Notice Computing
CSC702.2	Classify Medium Access. Internet and Transport Laver Protocols in Mobile networking.
CSC702.3	Apply the concepts of WLAN for local as well as remote applications.
CSC702.4	Identify the components of Long-Term Evolution (LTE) architecture.
CSC703	Artificial Intelligence & Soft Computing
CSC703.1	Analyze PEAS descriptors of an Intelligent agent.
CSC703.2	Apply an appropriate informed/uninformed/neuristic searching techniques and First Order Predicate logic for problem solving.
CSC703.4	Approvement and supervised rearring agonum to rear word appreador. Design fuzzy controller system for a given problem
CSDLO7031	Advance System Security & Digital Forensics
CSDLO7031.1	Compare cyber-attacks and apply access control policies, control mechanisms for object projection.
CSDL07031.2	Identify malicious code, targeted malicious code and detect threats to web applications.
CSDLO7031.3	Determine the vulnerabilities of Wi-Fi networks and apply measures to secure wireless protocols, WLAN and VPN networks.
CSDL07031.4	Use forensic tools to acquire and duplicate data from compromised systems.
CSDI 07032	Dahatiaa
CSDL07032 1	Robotes
CSDL07032.2	Analyze direct/indirect kinematics parameters of a robotic manipulator upto four axis and identify actuators sensor, controller for a robotic application.
CSDL07032.3	Apply Task Planning and Motion Planning algorithms for a Robotic application
CSDL07032.4	Apply Robot Vision techniques and develop program for Robotic application.
ILO7013	Management Information System
ILO7013.1	Identify the impact of information systems on an organization
ILO7013.2	Use tools and technologies to access database information for improving business performance and decision making
ILO7013.3	Design an IT infrastructure for MIS
ILO7013.4	Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management
ILO7016	Cyber Security and Laws
ILO7016.1	Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives and relate legal issues with respect to cybercrime.
ILO7016.2	Analyze and discriminate cyberattack types with tools used for attacks.
ILO7016.3	Identify the security challenges presented by mobile devices and infer measures for protecting the same.
ILO7016.4	Discover and apply different aspects of cyber law and Information Security Standards compliance.
ILO7017	Disaster Management and Mitigation Measures
ILO7017.1	Illustrate scenario of disaster and its effects in India
ILO7017.2	Compare Manmade and Natural disasters and their extent and possible effects on the economy
ILO7017.3	Outline the Government Policies, acts and administration
ILO7017.4	Employ the knowledge of Institutional Framework for Disaster Management in India
ILO7017.5	Apply the knowledge of Financing and Relief Measures
ILO7017.6	Utilize the knowledge of preventive and mitigation measures to know the simple do's and don'ts in disasters
CSL701	Digital Signal & Image Processing Lab
CSL701.1	Apply Convolution, Correlation on discrete time signals
CSL701.2	Implement DFT and FFT on discrete time signals

CSL701.4	Implement Edge detection techniques using first order derivative filters.
CSI 702	
CSL702	Mobile App.Devlopment Lab
CSL702.1 CSL702.2	Develop communication applications for Bineroom Implement Cade Division Multiple Access (CDMA) to test the orthogonality and autocorrelation of a code
CSL702.3	Implement code Division in Manipe fill components and database
CSL702.4	Use GPS location tracking technology in an application.
CSL703	Artificial Intelligence & Soft Computing Lab
CSL703.1	Analyze PEAS descriptors of an Intelligent agent.
CSL703.2	Create knowledge base and apply appropriate search techniques used in problem solving.
CSL703.5 CSL703.4	Implement Neuron Model and supervised/unsupervised learning algorithm.
CDE/05.1	Design fuzzy controller system for a specific problem.
CSL704	Computational Lab-I (ASSDF)
CSL704.1	Analyze Static code using open source tools-RATS / Flawfinder and use Nessus to scan Vulnerability
CSL704.2	Analyze security tools to detect web application and browser vulnerabilities
CSL704.3	Use tools to secure wireless networks,routers and mobile devices and perform penetration testing.
CSL704.4	Implement Authentication, access Control using RADIUS /TACACS and use OpenStego tool to detect data hiding or unauthorized file copying.
CSL704	Commutational Lab. I (Robotics)
CSL704.1	Determine the workspace of a Robot and specify its characteristics
CSL704.2	Analyze kinematics parameters of Robotic Manipulator
CSL704.3	Perform transformation related to Task and Motion planning for a Robot
CSL704.4	Develop algorithm for robot vision techniques and design an expert system
CCD705	
CSF 705	Major Project-1 Explore beyond the curriculum to identify problem of society, industrial or research needs; investigate the problem through in-depth literature survey and
CSP705.1	propose appropriate solution to solve the problem.
CSP705.2	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CSP705.3	Analyze and compare the results with the standard results.
CSP705.4	Work as an individual and contribute as a team member with effective management skills to achieve a common objective.
CSP705.5 CSP705.6	Write and present their work effectively with ethical values.
C31705.0	Engage memserves in area of men interest applying me knowledge gamed and explore new technical trends.
CSC801	Human Machine Interaction
CSC801.1	Apply human psychological knowledge of good interfacing in day-to-day activities for HMI.
CSC801.2	Identify the goal directed design guidelines of human centric interface.
CSC801.3	Modify existing interface designs and improve them using design principles.
CSC801.4	Design Human Machine Interaction for social and technical tasks.
CSC802	Distributed Computing
CSC802.1	Compare types of distributed system, model and apply RPC, RMI, Object based middleware technologies to develop distributed applications.
CSC802.2	Analyze techniques used for clock synchronization and mutual exclusion.
CSC802.3	Use Resource, Process management, Consistency and Replication Management to improve the performance of distributed system.
CSC802.4	Analyze NFS, AFS distributed file systems
CSDI 08011	Hick Devformence Commuting
CSDL08011.1	Identify parallel and pipeline processing approaches
CSDL08011.2	Design a parallel algorithm for searching problems and compare it with sequential algorithm
CSDLO8011.3	Analyze the performance of parallel computing systems for clusters in terms of execution time, total parallel overhead, speedup
CSDL08011.4	Develop efficient and high-performance parallel programming using message passing paradigm
CCDL 00012	
CSDL08012	Natural Language Processing
CSDL08012.1	Identity Charlenges of INLP and annogunites in natural language.
CSDL08012.3	Apply syntax and semantics analysis by using formal language grammar.
CSDL08012.4	Design real world NLP applications.
ILO8021	Project Management
ILO8021.1	Identify appropriate projects from various options and mention their selection criteria.
IL 08021.2	riepare work break Down Structure for a project and also prepare a schedule using GAN 11 chart, CPM, PEKT Identify opportunities and threats to decide risk response strategy of a project.
ILO8021.5	Apply Earned Value Management techniques to determine & predict status of the project and implement project termination process
ILO8025	Professional Ethics and CSR
IL08025.1	Use professional ethics to express rights and duties of business also explore professional ethics in the marketplace.
ILO8025.2	Demonstrate professional ethics of consumer protection and job discrimination.
ILO8025.3 II 08025.4	Distinguish different aspects of corporate social responsibility.
ILO8025.4	Research Methodology
CSL801	Human Machine Interaction Lab

CSL801.1	Apply human hyperbological knowledge of good interfacing in day-to-day activities for HMI
CSL801.2	Design the goal directed human centric interface.
CSL801.3	Modify existing interface designs and improve them.
CSL801.4	Design Human Machine Interaction for social and technical tasks.
CSL802	Distributed Computing Lab
CSL802.1	Develop, test and debug RPC/RMI based client-server programs.
CSL802.2	Implement IPC, name resolution and file system components of distributed systems.
CSL802.3	Implement logical and physical clock synchronization techniques.
CSL802.4	Design and implement mutual exclusion algorithm for distributed systems.
CSL803	Cloud Computing Lab
CSL803.1	Compare cloud computing services SaaS/PaaS/IaaS for a given application.
CSL803.2	Create and use virtual machine using open source technology.
CSL803.3	Demonstrate service models for SaaS, IaaS and PaaS using Open source technology.
CSL803.4	Use cloud computing software EC2 / Microsoft Azure for cloud application.
CSL804	Computational Lab-II (HPC)
CSL804.1	Develop a parallel algorithm to solve a given problem on MPI platform.
CSL804.2	Build the logic to parallelize the programming task.
CSL804.3	Analyze and measure performance of parallel computing systems.
CSL804.4	Design a parallel algorithm for searching/sorting and compare it with sequential algorithm.
CSL804	Computational Lab-II (NLP)
CSL804.1	Write programs for text pre-processing on a given input.
CSL804.2	Implement Morphological Analysis of NLP.
CSL804.3	Implement POS tagging and Named Entity Recognition on a suitable input.
CSL804.4	Analyze a case study on NLP application.
CSP805	Project - II
002 000	Trijett - H
CCD005 1	Explore beyond the curriculum to identify problem of society, industrial or research needs; investigate the problem through in-depth literature survey and
CSP805.1	propose appropriate solution to solve the problem.
CSP805.2	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CSP805.3	Analyze and compare the results with the standard results.
CSP805.4	work as an individual and contribute as a team member with effective management skills to achieve a common objective.
CSP805.5	Write and present their work effectively with ethical values.
CSP805.6	Engage themselves in area of their interest applying the knowledge gained and explore new technical trends.