

## Vidyavardhini's college of Engineering & Technology Vasai(w) Department of Artifical Intelligence and Data Science Course Outcomes for R-2019 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/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8. Ethics: Apply 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.
- **PO10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader 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 change.

## **Program Specific Outcomes**

PSO1: Analyze the currents trends in the field of Artifical Intelligence and Data Science and convey their findings by presenting/publishing at national/international forums...

PSO2: Design and develop Artifical Intelligence and Data Science based solutions and applications for the problems in the different domains catering to industry and society.

	Course Outcomes		
	At the end of the semester student will able to		
FEC101	Applied Mathematics I		
FEC101.1	Apply the concepts of Complex Numbers to solve Engineering problems.		
FEC101.2	Apply hyperbolic functions and logarithm of complex number to solve Engineering problems.		
FEC101.3	Apply Compute the partial differentiation of functions of two & three variables.		
FEC101.4	Apply find the nth order derivative of a function using successive differentiation & Compute maxima-minima of a function.		
FEC101.5	Apply the properties of matrices to find rank of a matrix & to solve system of linear simultaneous equations.		
FEC101.6	Apply the concept of Numerical Methods to solve system of linear algebraic equations, transcendental equation.		
FEC102	Applied Physics I		
FEC102.1	Know the fundamentals of quantum mechanics and its applications.		
FEC102.2	Draw miller indices using concept of crystallography and Identify crystal structure using X-ray diffraction techniques viz. Bragg's diffractometer		
FEC102.3	Apply concepts of semiconductor physics to understand principle and working of LED, photoconductor and photovoltaic cell.		
FEC102.4	Use concept of interference in thin films in measurements.		
FEC102.5	Discuss properties of superconductors and super capacitor.		
FEC102.6	Know the principles of engineering materials.		
FEC103	Applied Chemistry I		
FEC103.1	Analyze the quality of water and suggest methods of treatment.		
FEC103.2	Differentiate thermosoftening & thermosetting plastic & select appropriate fabrication method.		
FEC103.3	Understand the concept of microscopic chemistry in terms of atomic and molecular orbital theory & calculate bond order of molecule.		
FEC103.4	Understand the concept of aromaticity & calculate aromaticity using Huckel's Rule.		
FEC103.5	Understand Gibb's phase rule & calculate number of phases, component & degree of freedom of one & two component system.		
FEC103.6	Differentiate ionic, dipolar & Vander waal's intermolecular forces of attraction.		
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	Illustrate different types of motions and establish Kinematic relations for a rigid body.		
FEC104.6	Analyse body in motion using force and acceleration, work-energy, impulse-momentum principles		

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FEL 103.6   Verify the law of conservation of momentum and find the coefficient of restitution.  FEL 104.1   Basic Electrical Engineering  FEL 105.2   Implement DC circuits and analyze their behavior using network downwith and C-factor  FEL 105.2   Implement RLC circuit and calculate resonance frequency. Bandwidth and C-factor  FEL 105.2   Implement RLC circuit and calculate resonance frequency. Bandwidth and C-factor  FEL 105.2   Determine relationship between time phase vollage/ current in three phase sur / delta circuit  FEL 104.5   Gentle of the Components of a D.C. Machine  FEL 105.4   Gentle of the Components of a D.C. Machine  FEL 105.5   Model different prototypes in the carpentry trade such as Cross cut hap joint. Fee lay joint, Dowel lap joint.  FEL 105.1   Model different prototypes in the carpentry trade such as Cross cut hap joint. Fee lay joint, Dowel lap joint.  FEL 105.3   Perform windows basic House Wiring techniques while taking care of electrical safety.  FEL 105.3   Perform windows basic House Wiring techniques while taking care of electrical safety.  FEL 205.1   Solve differential equations of first order & first degree.  FEC 201.1   Solve differential equations of first order & first degree.  FEC 201.2   Solve differential equations with constant coefficients, variable coefficients of higher order.  FEC 201.3   Apply sence, for triple integral of different coordinate systems to compute Area & Mass.  FEC 201.5   Apply concepts of triple integral of different coordinate systems to individual of a solids.  FEC 202.1   Calculate wavelength of light using diffraction grating and resolving power of grating.  FEC 202.2   Apply the principles of Laser and filter optics in modern communication technology.  FEC 203.4   Apply the principles of Laser and filter optics in modern communication technology.  FEC 203.5   Classify sensors based on their sensing techniques.  FEC 203.6   Classify sensors based on their sensing techniques.  FEC 203.7   Apply the principles of protections in Projection of Lines		
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Implement DC circuit and analyze their behavior using network theorem	FEL105.0	Verify the law of conservation of momentum and find the coefficient of resultution.
Implement DC circuit and analyze their behavior using network theorem		
FEL1042 Implement RLC circuit and calculate responsave frequency. Bandwidth and Octor FEL1043 Defermine relationship between line phase voltage current in three phase star/ delta circuit FEL1044 Perform OCNC test on transformer and determine its equivalent circuit and efficiency FEL1045 Identify the components of a D.C. Machine FEL1045 Basic Workshop Practice I FEL1045 Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Doveel lap joint. FEL1051 Model various basic prototypes in the trade of fitting such as Square, Havagonal and V Maile Fernale joint. FEL1052 Model various basic basic brosses Wiring techniques while taking care of electrical safety. FEL1053 Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.  FEL2014 Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.  FEC2015 Solve differential equations of first order & first degree.  FEC2016 Solve differential equations of first order & first degree.  FEC2017 Apply Beta, Gamma functions with constant coefficients, variable coefficients of higher order.  FEC2018 Apply Decense of Double integral of different coordinate systems to long value of the same star of the plumbing operations and D.U.I.S. to solve improper integrals.  FEC2015 Apply Beta, Gamma functions and D.U.I.S. to solve improper integrals.  FEC2016 Solve Differential equations & Definite integrals wising Numerical Methods.  FEC2027 Apply domestic of triple integral of different coordinate systems to find voltame of a solids.  FEC2021 Apply the wavelength of light using diffraction grating and resolving power of grating.  FEC2021 Calculate wavelength of light using diffraction grating and resolving power of grating.  FEC2022 Solve Differential equations & Definite integrals using Numerical Methods.  Applied Physics II  FEC2023 Relate the fundamentals of electrodynamics for satellite communication, antenna theory.  FEC203 Relate the fundamentals of electrodynamics for s		Basic Electrical Engineering
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PEL1014   Perform OC/SC test on transformer and determine its equivalent circuit and efficiency	FEL104.2	Implement RLC circuit and calculate resonance frequency, Bandwidth and Q- factor
PEL1015   Identify the components of a D.C. Machine	FEL104.3	Determine relationship between line/ phase voltage/ current in three phase star / delta circuit
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	FEL105.1 FEL105.2 FEL105.3 FEL105.4 FEC201.1 FEC201.1 FEC201.2 FEC201.3 FEC201.4 FEC201.5 FEC201.6 FEC202.1 FEC202.2 FEC202.1 FEC202.3 FEC202.4 FEC202.4 FEC202.5 FEC203.3 FEC203.1 FEC203.1 FEC203.2 FEC203.3 FEC203.4 FEC203.4 FEC203.5 FEC203.6 FEC203.6 FEC204.7 FEC204.7 FEC204.1 FEC204.1	Model various basic prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint.  Model various basic House Wring techniques while taking care of electrical safety.  Perform various basic House Wring techniques while taking care of electrical safety.  Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.  Applied Mathematics II  Solve differential equations of first order & first degree.  Solve linear differential equations with constant coefficients, variable coefficients of higher order.  Apply Beta, Gamma functions and D.U.J.S.to solve improper integrals.  Apply concepts of Double integral of different coordinate systems to compute Area & Mass.  Apply concepts of triple integral of different coordinate systems to find volume of a solids.  Solve Differential equations & Definite integrals using Numerical Methods.  Applied Physics II  Calculate wavelength of light using diffraction grating and resolving power of grating.  Apply the principles of Laser and fibre optics in modern communication technology.  Relate the fundamentals of electrodynamics for satellite communication, antenna theory.  Know the fundamentals of relativity.  Select Tools for characterisation of nanomaterials and method to synthesize nanomaterial  Classify sensors based on their sensing technique.  Applied Chemistry II  Identify types of corrosion & discuss corrosion control measures.  Analyze the quality of fuel & calculate the oxygen required for combustion of fuel.  Discuss the range of EMS used for molecular transitions in spectroscopic techniques.  Discuss the phenomenon of fluorescence & Phosphorescence.  Understand the concept of electrode potential & calculate EMF of cell.  Understand the principles of projections in Projection of Lines, Planes and Engineering Curves  Apply the basic principles of projections in Projection of Solids & Section of solids
FEC204.5 Draw Orthographic and Isometric Projection using AutoCad	FEL105.1 FEL105.2 FEL105.2 FEL105.3 FEL105.4  FEC201 FEC201.1 FEC201.2 FEC201.3 FEC201.4 FEC201.5 FEC201.6  FEC202.5 FEC202.3 FEC202.4 FEC202.4 FEC202.6 FEC203.1 FEC203.1 FEC203.1 FEC203.1 FEC203.6 FEC203.4 FEC203.6 FEC203.6 FEC204 FEC204.7 FEC204 FEC204.1 FEC204.2 FEC204.2 FEC204.2	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.  Perform various basic House Wiring techniques while taking care of electrical safety.  Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.  Applied Mathematics II  Solve differential equations of first order & first degree.  Solve linear differential equations with constant coefficients, variable coefficients of higher order.  Apply Beta, Gamma functions and D.U.I.S to solve improper integrals.  Apply Beta, Gamma functions and D.U.I.S to solve improper integrals.  Apply concepts of Double integral of different coordinate systems to compute Area & Mass.  Apply concepts of triple integral of different coordinate systems to find volume of a solids.  Solve Differential equations & Definite integrals using Numerical Methods.  Applied Physics II  Calculate wavelength of light using diffraction grating and resolving power of grating.  Apply the principles of Laser and fibre optics in modern communication technology.  Relate the fundamentals of electrodynamics for satellite communication, antenna theory.  Know the fundamentals of relativity.  Select Tools for characterisation of nanomaterials and method to synthesize nanomaterial  Classify sensors based on their sensing technique.  Applied Chemistry II  Identify types of corrosion & discuss corrosion control measures.  Applied Chemistry II  Identify types of EMS used for molecular transitions in spectroscopic techniques.  Discuss the range of EMS used for molecular transitions in spectroscopic techniques.  Discuss the phenomenon of fluorescence & Phosphorescence.  Understand the ocnept of electrode potential & calculate EMF of cell.  Understand the principles of projections in Projection of Lines, Planes and Engineering Curves  Apply the basic principles of projections in Projection of Solids & Section of so
	FEL105.1 FEL105.2 FEL105.2 FEL105.3 FEL105.4  FEC201 FEC201.1 FEC201.1 FEC201.4 FEC201.4 FEC201.6  FEC202.5 FEC202.3 FEC202.4 FEC202.4 FEC202.6 FEC203.1 FEC203.1 FEC203.1 FEC203.6 FEC203.4 FEC203.6 FEC203.6 FEC204.7 FEC204 FEC204.7	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,  Perform various basic House Wiring techniques while taking care of electrical safety.  Perform various basic domestic plumbing operations such as pipe cutting, threading, fitting etc.  Applied Mathematics II  Solve differential equations of first order & first degree.  Solve linear differential equations with constant coefficients, variable coefficients of higher order.  Apply Beta, Gamma functions and D.U.I.S. to solve improper integrals.  Apply concepts of Double integral of different coordinate systems to compute Area & Mass.  Apply concepts of triple integral of different coordinate systems to find volume of a solids.  Solve Differential equations & Definite integrals using Numerical Methods.  Applied Physics II  Calculate wavelength of light using diffraction grating and resolving power of grating.  Apply the principles of Laser and fibre optics in modern communication technology.  Relate the fundamentals of electrodynamics for satellite communication, antenna theory.  Know the fundamentals of electrodynamics for satellite communication, antenna theory.  Row the fundamentals of relativity.  Select Tools for characterisation of nanomaterials and method to synthesize nanomaterial  Classify sensors based on their sensing technique.  Applied Chemistry II  Identify types of corrosion & discuss corrosion control measures.  Analyze the quality of fuel & calculate the oxygen required for combustion of fuel.  Discuss the range of EMS used for molecular transitions in spectroscopic techniques.  Discuss the phenomenon of fluorescence & Phosphorescence.  Understand the concept of electrode potential & calculate EMF of cell.  Understand the principles of projections in Projection of Solids & Section of solids  Yissualize the given 3D object and draw Orthographic projections  Draw Isometric view from the

EEC205	
FEC205	C programming
FEC205.1	Identify the terminologies in operating system used for computer programming and illustrate the algorithms to support Structure
FEC205.2	Use Variables, derived data types and control structures to write C program.
FEC205.3	Implement solutions to the problem using strings and functions.
FEC205.4	Decompose a problem into functions and synthesize a complete program.
FEC205.5	Structure-Union and Files for solving complex Computational problem.
FEC205.6	Use Pointers for solving complex Computational problem.
FEC206	Professional Communication and Ethics- I
FEC206.1	Communicate effectively using verbal/non-verbal cues at social and workplace situation.
FEC206.2	Select/Use appropriate grammar and vocabulary in oral, written communication
FEC206.3	Summarize/Comprehend passages, run plagiarism check softwares and generate plagiarism report for paraphrased passages.
FEC206.4	Write/ Draft academic, business and technical letter/email.
FEC206.5	Frame Definition, write user instruction, description of technical object, description of a Technical / Scientific Process
FEC206.6	Demonstrate principles of ethics in professional environment
FEL201	Engineering Physics-II Lab
FEL201.1	Calculate wavelength of given colour using diffraction grating
FEL201.2	Calculate number of lines on the grating using Laser source
FEL201.3	Calculate numerical aperture of an optical fibre
FEL201.4	Determine I-V characteristics of photodiode
FEL201.5	Calculate volume of room using ultrasonic distance meter.
FEL202	Engineering Chemistry-II
FEL202.1	Analyse fuel for moisture content.
FEL202.2	Estimate Na,k & Ca in the given sample using flame photometer.
FEL202.3	Estimate flash point of diesel oil using Abel's apparatus.
FEL202.4	Estimate saponification value of vegetable oil.
FEL202.5	Estimate acid value of vegetable oil.
I LLZ0Z.3	Estimate de di vande di vegetante dii.
FEL203	Engineering Graphics Lab
FEL203.1	
FEL203.1 FEL203.2	Apply the basic principles of projections in Projection of Lines and Planes and Curves
	Apply the basic principles of projections in Projection of Solids & Section of solids
FEL203.3	Apply basic AutoCAD skills to draw different views of a 3D object
FEL203.4	Apply basic AutoCAD skills to draw the isometric view from the given two views
FEL204	C programming Lab
FEL204 FEL204.1	Translate given algorithms to a program
FEL204.1	Translate given algorithms to a program
FEL204.1 FEL204.2	Translate given algorithms to a program Use variables, derived data types and control structures to write c program
FEL204.1 FEL204.2 FEL204.3	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs
FEL204.1 FEL204.2 FEL204.3 FEL204.4	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205 FEL205.1	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.1	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205 FEL205 FEL205.1 FEL205.2 FEL205.3 FEL205.4	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205 FEL205 FEL205.1 FEL205.2 FEL205.3 FEL205.4	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.6 FEL205.6	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice II
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201.1	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice II  Model different prototypes in the carpentry trade such as Cross cut lap joint, Tee lap joint, Dovetel lap joint.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201.1 FEL201.1 FEL201.2	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice 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.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201.1 FEL201.2 FEL201.2 FEL201.2 FEL201.3	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice 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.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL205.6 FEL201.1 FEL201.1 FEL201.2	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice 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.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.6 FEL201.1 FEL201.1 FEL201.1 FEL201.2 FEL201.3 FEL201.3 FEL201.4	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully  Basic Workshop Practice II Model different prototypes in the carpentry trade such as Cross cut 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
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.6 FEL201.1 FEL201.1 FEL201.2 FEL201.3 FEL201.3 FEL201.4 CSC301	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.1 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.5 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems.  Apply the concept of inverse Laplace transform of various functions and its application in engineering problems.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.1 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.2 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.3	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III  Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems.  Apply the concept of inverse Laplace transform of various functions and its application in engineering problems.  Expand the periodic function by using the fourier series for real life problems and complex engineering problems.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.5 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems.  Apply the concept of inverse Laplace transform of various functions and its application in engineering problems.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL204.6 FEL205.1 FEL205.1 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.2 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.3	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III  Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems.  Apply the concept of inverse Laplace transform of various functions and its application in engineering problems.  Expand the periodic function by using the fourier series for real life problems and complex engineering problems.
FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.6 FEL205.1 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.2 FEL201.3 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.3 CSC301.4	Translate given algorithms to a program Use variables, derived data types and control structures to write c program Write iterative as well as recursive programs Represent data in Array and String and manipulate them through a program Use Structure-Union for solving complex computational problem Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab Listen and comprehend all types of spoken discourse successfully Speak fluently and make effective professional presentations. Read large quantities of text in a short time to comprehend, summarise and evaluate content Draft precise business letters, academic essays and technical guidelines. Dress finely and conduct themselves with confidence in social, academic and professional situation. Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems. Expand the periodic function by using the fourier series for real life problems and complex engineering problems. Apply the concept of inverse Laplace transform of various functions and its application in engineering problems. Apply complex variable theory, application of harmonic conjugate to get orthogonal trajectories and analytic functions.
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FEL204.1 FEL204.2 FEL204.3 FEL204.4 FEL204.5 FEL205.6 FEL205.1 FEL205.2 FEL205.3 FEL205.4 FEL205.5 FEL201.1 FEL201.1 FEL201.2 FEL201.4 CSC301 CSC301.1 CSC301.2 CSC301.3 CSC301.4 CSC301.5	Translate given algorithms to a program  Use variables, derived data types and control structures to write c program  Write iterative as well as recursive programs  Represent data in Array and String and manipulate them through a program  Use Structure-Union for solving complex computational problem  Declare pointers and demonstrate call by reference concept  Professional Communication and Ethics- I Lab  Listen and comprehend all types of spoken discourse successfully  Speak fluently and make effective professional presentations.  Read large quantities of text in a short time to comprehend, summarise and evaluate content  Draft precise business letters, academic essays and technical guidelines.  Dress finely and conduct themselves with confidence in social, academic and professional situation.  Respond to moral dilemmas successfully  Basic Workshop Practice 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  Engineering Mathematics-III  Apply the concept of Laplace transform and its application to solve the real integrals in engineering problems.  Apply the concept of inverse Laplace transform of various functions and its application in engineering problems.  Expand the periodic function by using the fourier series for real life problems and complex engineering problems.  Apply the concept of correlation and Regression to the engineering problems and analytic functions.  Apply the concept of correlation and Regression to the engineering problems.
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CSC305.4 Apply line and polygon clipping algorithms on 2D graphical objects.	
CSC305.5 Apply 3D geometric transformations on graphical objects and construct the curves.	
CSC305.6 Classify visible surface detection techniques and compare conventional/traditional and computer-based animation techniques.	
CGY 201	
CSL301 Data Structures Lab  CSL301.1 Implement Linear Data Structure and handle insertion, deletion, traversal operations using array.	
CSL301.2 Apply stack operations to convert and evaluate expression	
CSL301.3 Implement linear, circular or priority queues using arrays	
CSL301.4 Implement Singly, Circular or Doubly Linked list	
CSL301.5 Implement Abstract data type using Linked list	
CSL301.6 Implement Graph Traversal Techniques: BFS and DFS.	
CSL302 Digital Logic & Computer Organization and Architecture Lab	
CSL302.1 Verify the truth table of logic, universal gates, and realize logic circuits using hardware.	
CSL302.2 Implement combinational circuits design using hardware.	
CSL302.3 Implement sequential & code conversion circuits design using hardware.	
CSL302.4 Write Booth's, Restoring, and Non-Restoring algorithms for arithmetic operations using C-Programming language.	
ICSI 302.5 IImplement ripple carry adder, carry look ahead adder, ALU design using virtual lab.	
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CSC401.3	Apply the concept of Z-transformation and inverse in engineering problems.
CSC401.4	Apply the concept of probability distribution and sampling theory to engineering problems
CSC401.5	Apply the concept of Linear Programming Problems to optimization
CSC401.6	Solve Non-Linear Programming Problems for Optimization of engineering problems.
CSC402	Analysis of Algorithms
CSC402.1	Calculate the Space and Time Complexity of algorithms
CSC402.1	Apply Divide and Conquer approach to solve problems and analyze its complexity
CSC402.3	Apply Greedy Methods to solve problems on Single source shortest path and Minimum spanning tree, and analyze its complexity
CSC402.4	Apply Dynamic Programming Approaches to solve problems on Single source and All pair shortest path
CSC402.5	Apply backtracking, and branch & bound strategies to solve problems on decision and optimization
CSC402.6	Apply String Matching techniques for finding the occurrences of patterns in a text
CSC403	Database Management System
CSC403.1	Identify characteristics of database management system.
CSC403.2	Design ER/EER diagram for given case study.
CSC403.3	Construct relational model and apply relational algebra queries for a given problem.
CSC403.4	Apply SQL queries for a given schema.
CSC403.5	Apply normalization techniques to relational database design.
CSC403.6	Use transaction, concurrency and recovery techniques to analyze conflicts in multiple transactions.
CSC404	Operating System
CSC404.1	Identify the objectives, functions and structure of the operating system.
CSC404.1 CSC404.2	Analyze performance of Process Scheduling algorithms based on CPU utilization and throughput.
CSC404.2 CSC404.3	Use process synchronization techniques for deadlock detection, prevention, recovery.
CSC404.4	Analyze performance of memory allocation based on space complexity and page replacement policies based on time complexity.
CSC404.5	Use concepts of file management to access, share and manipulate file systems.
CSC404.6	Evaluate performance of disk scheduling algorithms using concepts of I/O management.
CSC405	Microprocessor
CSC405.1	Identify the components and their functions in Intel 8086 microprocessors.
CSC405.2	Write assembly, mixed language programs using instruction set of 8086 and analyze updated values of control flag after execution of assembly language
CSC405.3	Design 8086 microprocessor-based system for the given specifications using memory and peripheral chips.
CSC405.4	Identify the components and their functions in Intel 80386DX processor.
CSC405.5	Identify the components and their functions in the Pentium processors.
CSC405.6	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.
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CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.1	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints
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CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL402.6	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries ,triggers for given Schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403 CSL403	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms  Implement Divide and Conquer approaches to solve problems and analyze its complexity  Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem  Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle  problem  Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries, triggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403 CSL403.1 CSL403.2	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries, triggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.
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CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403 CSL403.1 CSL403.2 CSL403.3 CSL403.4	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms  Implement Divide and Conquer approaches to solve problems and analyze its complexity  Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem  Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle  problem  Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries, driggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.  Analyze the performance of memory management techniques based on space complexity.
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403 CSL403.1 CSL403.2 CSL403.3	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries, triggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.
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CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402 CSL402.1 CSL402.2 CSL402.3 CSL402.4 CSL402.5 CSL402.6 CSL403.1 CSL403.1 CSL403.2 CSL403.3 CSL403.4 CSL403.5	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms  Implement Divide and Conquer approaches to solve problems and analyze its complexity  Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem  Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries , riggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.  Analyze the performance of virtual memory management techniques based on space complexity.
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL403 CSL403 CSL403.1 CSL403.2 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.6	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem  Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries ,triggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.  Analyze the performance of memory management techniques based on time complexity.  Write a program for file management and I/O management techniques using C programming language.
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL403 CSL403 CSL403 CSL403.1 CSL403.2 CSL403.3 CSL403.4 CSL403.5 CSL403.6 CSL403.6 CSL404	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries triggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.  Analyze the performance of memory management techniques based on space complexity.  Write a program for file management and I/O management techniques using C programming language.  Microprocessor Lab
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL403 CSL403 CSL403 CSL403 CSL403 CSL403 CSL403 CSL403 CSL403 CSL403.6 CSL403.6 CSL403.6 CSL404	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Fractional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries triggers for given Schema Apply procedure and functions for given schema Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for fide management and I/O management techniques based on space complexity.  Analyze the performance of memory management techniques based on time complexity.  Write a program for file management and I/O management techniques using C programming language.  Microprocessor Lab  Write assembly language programs to perform basic arithmetic operations on 8-bit/16-bit data.
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL403 CSL404 CSL4	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms  Implement Divide and Conquer approaches to solve problems and analyze its complexity  Implement Greedy Algorithms for Single source shortest path, Practional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem  Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem  Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints  Apply SQL queries, triggers for given Schema  Apply SQL queries, triggers for given Schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.  Analyze the performance of memory management techniques based on space complexity.  Write a program for file management and I/O management techniques using C programming language.  Microprocessor Lab  Write assembly language programs to perform basic arithmetic operation, and division (menu based)
CSL401 CSL401.1 CSL401.2 CSL401.3 CSL401.4 CSL401.5 CSL401.6 CSL402.1 CSL402.1 CSL402.2 CSL402.3 CSL402.3 CSL402.4 CSL402.5 CSL403 CSL403.1 CSL403.2 CSL403.3 CSL403.1 CSL403.5 CSL403.6 CSL403.5 CSL403.6 CSL403.6 CSL404.1 CSL404.2 CSL404.1 CSL404.2 CSL404.3	Compare 8086, 80386, Pentium I, II, III and Identify the components, their functions for Pentium 4: Net burst microarchitecture.  Analysis of Algorithms Lab  Implement and Analyze Time Complexity of Insertion and Selection sort algorithms Implement Divide and Conquer approaches to solve problems and analyze its complexity Implement Greedy Algorithms for Single source shortest path, Practional Knapsack, Minimum cost spanning trees  Implement Dynamic Programming algorithms for Single source shortest path, All pairs Shortest path, 0/1 Knapsack Problem, Travelling Salesperson Problem Implement Backtracking, and Branch and Bound algorithms for Nqueen Problem, Sum of Subset Problem, Travelling Salesperson Problem, 15 puzzle problem Implement String Matching Techniques  Database Management system Lab  Design ER and EER diagram for the real life problem with software tool.  Construct database tables with different DDL and DML statements and apply integrity constraints Apply SQL queries, triggers for given Schema  Apply procedure and functions for given schema  Use transaction and concurrency control techniques to analyze conflicts in multiple transactions.  Construct database tables and JDBC/ ODBC connectivity for given application  Operating System Lab  Use the Linux commands to write Shell scripting program using system calls.  Analyze the performance of process scheduling algorithms based on CPU utilization and throughput.  Write a program for deadlock detection and avoidance algorithm using C programming language.  Analyze the performance of memory management techniques based on space complexity.  Write a program for file management and I/O management techniques using C programming language.  Microprocessor Lab  Write assembly language programs for 16-bit addition, subtraction, multiplication, and division (menu based)  Write assembly language programs for 16-bit addition, subtraction, multiplication, and division (menu based)
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CSL405	Skill Base Lab Course: Python Programming
CSL405.1	Apply concepts of Input / Output, control statements and object oriented programming in python for performing arithmetic operations
CSL405.2	Use features of files, directories and regular expression in python for file manipulation
CSL405.3	Implement linked list, stacks, queues and dequeues data structures
CSL405.4	Develop Graphical User Interface, perform database operations and create web applications with Django web framework
CSL405.5	Implement multi-threading in python
CSL405.6	Use NumPy and Pandas packages for matrix manipulation and data analysis
CSM401	Mini Project B
CSM401.1	Identify societal, industrial needs and formulate problem statements followed by requirement analysis.
CSM401.2	Investigate the problem through appropriate literature Surveys.
CSM401.3	Design and develop solution using modern tools for the given problem.
CSM401.4	Work as an individual, contribute as a team member with effective management skills and ethical values.
CSM401.5 CSM401.6	Develop effective communication/ technical writing skills through project presentation, Group discussion and report writing activities.  Demonstrate capabilities of self-learning, leading to lifelong learning.
CSW1401.0	Demonstrate capabilities of sen-rearining, reading to merong rearining.
CCCE01	
CSC501	Computer Networks  Apply the concepts of data communication and appropriate topologies for end-to-end communication.
CSC501.1	Apply communication mechanisms like services, framing, error detection, error correction, multiple access control for flow control.
CSC501.2	
CSC501.3	Apply Subnetting, Network Address Translation and routing algorithms for shortest paths.
CSC501.4	Apply sliding window technique for TCP flow control and SMTP, HTTP, Telnet for sending emails.
CSC501.5	Apply Cisco Service oriented network model and classic three-layer hierarchical model for Enterprise Network Design.
CSC501.6	Apply Software Defined Network approach and methodology to manage dynamic and programmatically efficient network.
CSC502	Web Computing
CSC502.1	Identify different protocols or technologies required for various web application
CSC502.2	Apply Javascript to add functionality to web pages.
CSC502.3	Develop front end application using React
CSC502.4	Develop back end application using node.js
CSC502.5	Construct web based Node.js applications using Express
CSC502.6	Develop back end application using functional components of react
CSC503	Artifical Intelligence
CSC503.1	Identify PEAS descriptors and TASK Environment of an rational agent.
CSC503.2	compare and contrast among different types of intelligent agent and the types of environment they encounter.
CSC503.3	Apply informed and uninformed search techniques to solve given problem.
CSC503.4	Apply the concept of knowledge and reasoning to intelligent agent using PROLOG programming.
CSC503.5	Apply Bayes' rule and reasoning for Bayesian Belief network.
CSC503.6	Identify the various components of expert system for real world AI problems
CSC504	Data warehousing and mining
CSC504.1	Design a data warehouse for a given application and perform OLAP operations to take business decisions.
CSC504.2	Apply pre-processing techniques for a given data set to perform data cleaning, data transformation, data reduction, and data discretization
CSC504.3	Apply decision tree induction and Bayesian classification on a given data set for prediction
CSC504.4	Apply Partition and Hierarchical Clustering algorithms on a given data set to form the clusters
CSC504.5 CSC504.6	Apply association mining techniques to identify interesting patterns
CSC304.0	Apply web mining algorithms on a given data for deriving complex information
CODY FOLL	
CSDL5011	Statistics In AI&DS
CSDLO5011.1 CSDLO5011.2	Apply principles of descriptive statistics for solving the problems of Exploratory Data Analysis.  Apply the descriptive statistic principles for understanding Data and Sampling Distributions
CSDL05011.2 CSDL05011.3	Apply the descriptive statistic principles for understanding Data and Sampling Distributions  Apply the principles of inferential statistics for solving and performing Statistical Experiments and Significance Testing
CSDLO5011.4	Apply all descriptive statistical as well as inferential statistical principles for Summarizing Data
CSDLO5011.5	Apply the parametric and non-parametric test principles to solve the Analysis of Variance.
CSDL5011	Statistics In AI&DS
CSDL5013	Internet of Things
CSDLO5013.1	Describe the Characteristics and Conceptual Framework of IoT
CSDLO5013.2	Differentiate between the levels of the IoT architectures
CSDLO5013.3	Analyze the IoT access technologies
CSDLO5013.4	Illustrate various edge to cloud protocol for IoT
CSDLO5013.5	Apply IoT analytics and data visualization
CSDLO5013.6	Analyze and evaluate IoT applications
CSL501	Web Computing and Network Lab
CSL501.1	Identify and apply the appropriate HTML tags to develop a webpage
CSL501.2	Identify and apply the appropriate CSS tags to format data on webpage
CSL501.3	Build responsive websites using Bootstrap  Apply Java Script to develop interactive web pages
CSL501.4 CSL501.5	Apply JavaScript to develop interactive web pages.
CSL501.5 CSL501.6	Build front end applications using React and back end using Node.js/express  Use simulator for Cisco packet tracer/GNS3
CSLS01.0	Construction for Casto patchet tracer (Critis)
CSL502	Artifical Intelligence Lab
CSL502.1	Identify PEAS descriptors and TASK Environment of an Intelligent agent.
CSL502.2	Apply Uninformed searching algorithms for problem solving
CSL502.3	Apply Informed searching algorithms for problem solving
CSL302.5	
CSL502.4	Implement simple programs using PROLOG.
	Implement simple programs using PROLOG.  Represent natural language description as statements in Logic and apply inference rules to it.

CS 1010. Date under of accessful Al System.  Date Wardman & History Lab  SELSO 1. April dimensional modeling concepts to contract data wardwares.  SELSO 1. April dimensional modeling concepts to contract data wardwares.  SELSO 1. April per processing beckenges in regarding and prepare the data model for data minima.  SELSO 1. April per processing beckenges in regarding and prepare the data model for data minima.  SELSO 1. April per processing beckenges in regarding and prepare the data model for data minima.  SELSO 1. Deplement Web Minima grant data for level per the monitor in the prepare the contract of the prepare them of the prepare the prepare them of t		
State	CSL502.6	Case study of successful AI System.
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State   Stat	CSL504	Business Communication and Ethics 2
SSI 501.3. Section and apply attractions for personnal and professional abilitis to meet the clamation of the industry.  SSI 501.1 Apply various techniques to the accessful in profit ficusions, recinical presentation and meetings.  SSI 501.1 Debrev successful professional processations.  SSI 501.1 Debrev successful industrial rocks for processations.  SSI 501.1 Debrev successful industrial rocks and formulate problem statement followed by requirement analysis.  SSI 501.1 Debrev successful industrial rocks and formulate problem statement followed by requirement analysis.  SSI 501.1 Debrev successful industrial rocks and formulate problem statement followed by requirement analysis.  SSI 501.2 Debrev successful industrial rocks and formulate problem statement followed by requirement analysis.  SSI 501.2 Debrev successful industrial rocks and formulate problem statement followed by requirement analysis.  SSI 501.3 Debreval rocks and industrial rocks and formulate problem statement followed by requirement analysis.  SSI 501.3 Debreval rocks and industrial rocks and formulate problem statement followed by requirement and report writing activities.  SSI 501.3 Debreval rocks and formulate problem statement followed by reconstruction.  SSI 501.3 Debreval rocks and formulate problem statement followed by reconstruction.  SSI 501.4 Debreval rocks and formulate problem statement followed by reconstruction and report writing activities.  SSI 501.4 Debreval rocks and formulate problem statement followed by reconstruction and report writing activities.  SSI 501.4 Debreval rocks and violatization techniques using R programming.  SSI 501.4 Analyze text data analytics.  SSI 501.4 Analyze text data analytics.  SSI 501.4 Analyze text data for insulptic.  SSI 501.4 Analyze text data for insulptic.  SSI 501.4 Analyze text data for insulptic.  SSI 501.4 Analyze text		
SSL 504.5   Deliver successful professional processions and State		
St. 504.5   Develop coation binking and interpressonal skills.	CSL504.3	Apply various techniques to be successful in group discussions, technical presentation and meeitngs.
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CSM501.2   Identify scietable problems have and formal better problem statement followed by requirement analysis.	CSL504.6	Apply codes of ethical conduct & organizational behaviour.
CSM501.2   Identify scietable problems have and formal better problem statement followed by requirement analysis.	CCM501	Mini Decipat 2A
CSM001.2   Investigate the problem through paperprise literature surveys.		V
SM901.4 Wex as an advivation contribute as team embers with effective management skills and etheal values.  SM901.5 Develop effective communication / technical varing a skills through project presentation, Group discussion and report writing activities.  SM901.5 Demonstrate capabilities of self-learning, leading to lifelong learning.  SC6001.1 Understand basics of data analytics.  SC6001.1 Analytic stream of the stream of the stream project of the stream of th		
CSM09.1   Work as an individual; contribute as a team member with effective management stills and orbital values.   CSM09.1   Develop effective communication / reclusive string stable through project presentation, Group discussion and report writing activities.   CSM09.1   Demonstrate capabilities of self-learning, leading to lifelong learning.   CSC00.1   Data Analytics and Visualization   CSC00.1   Apply water an analytics.   CSC00.2   Apply water are received as a set and perform prediction.   CSC00.1   Apply water varies are received as a set and perform prediction.   CSC00.1   Apply water varies are received as a set and perform prediction.   CSC00.1   Apply different analytics and visualization inchaigues using R programming.   CSC00.1   Apply different analytics and visualization inchaigues using R programming.   CSC00.1   Apply different analytics and visualization inchaigues using Python   CSC00.2   Apply different analytics and visualization inchaigues using R programming.   CSC00.2   Apply different analytics and visualization inchaigues using R programming.   CSC00.2   Apply Different prediction and mescage digeral algorithms to check data integrity.   CSC00.2   Apply Different prediction and mescage digeral algorithms to check data integrity.   CSC00.2   Apply Different prediction and mescage digeral algorithms to check data integrity.   CSC00.2   Apply Different prediction and mescage digeral algorithms to check data integrity.   CSC00.2   Apply Security basies for different attacks on network.   CSC00.2   Apply security basies for different attacks on network.   CSC00.2   Apply security basies for different attacks on network.   CSC00.2   Apply security basies for different attacks on network.   CSC00.3   Apply demonstrate techniques for refusion development.   CSC00.3   Apply demonstrate techniques for refusion development.   CSC00.3   Apply demonstrate techniques for refusion development.   CSC00.4   Apply be project management concepts to edvelopment and understand reportment metrics.   CSC0		
Section   Demonstrate capabilities of self-learning, leading to lifelong learning.		
CSC601   Date Analysics and Visualization		
CSC601.1 Understand bases of data analytics. CSC601.2 Apply various time series model CSC601.3 Analyze various time series model CSC601.5 Apply different analytics and visualization techniques using R programming. CSC601.5 Apply different analytics and visualization techniques using R programming. CSC601.6 Apply different analytics and visualization techniques using Python CSC602.1 Identify information security goals using classical encryption techniques CSC602.1 Identify information security goals using classical encryption techniques CSC602.2 Apply Different encryption and decryption techniques CSC602.3 Apply CSC602.4 Apply CSC602.4 Apply CSC602.4 Apply CSC602.4 Apply CSC602.5 Apply SSC602.4 Apply SSC602.5 Apply SSC602.5 Apply SSC602.5 Apply SSC602.5 Apply security hostics for different attacks on network CSC602.5 Apply security basics for different attacks on network CSC603.5 Apply security basics for different attacks on network CSC603.5 Apply security basics for different attacks on network CSC603.5 Apply selective states and the fundamentals of Software Engineering and Project Management CSC603.5 Apply selective states and the fundamentals of Software Engineering and Project Management CSC603.5 Apply selective states and the fundamentals of Software Engineering CSC603.6 Apply selective states and the fundamentals of Software Engineering CSC603.6 Apply selective states are states and the states are states and the fundamentals of Software Engineering CSC603.6 Apply selective states are states and the states are states and the states are states and the states are states are states and the states are states are states as a state and the states ar	CSM501.6	
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CSC601.2   Apply various regression models on a given data set and perform prediction.	CSC601	Data Analytics and Visualization
SCG001.5   Analyze text data for insights		
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CSDLO6013.5 To apply image compression techniques to identify their impact on images.	CSDLO6013.1 CSDLO6013.2 CSDLO6013.3	To understand the fundamentals of digital image processing.  To apply image enhancement techniques to recognize their impact on images.
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CSDLO6013.6	To understand the fundamentals of video processing.
CSL601	Data Analytics and Visualization Lab
CSL601.1	Explore various data analytics Libraries in R and Python.
CSL601.2	Implement various Regression techniques for prediction.
CSL601.3	Build various time series models on a given data set.
CSL601.4	Design Text Analytics Application on a given data set.
CSL601.5	Implement visualization techniques to given data sets using R.
CSL601.6	Implement visualization techniques to given data sets using Python.
CSL602	Cryptography and System Security Lab
CSL602.1	Apply the knowledge of symmetric cryptography to implement simple ciphers
CSL602.2	Analyze and implement public key algorithms like RSA and EL Gammal
CSL602.3	Analyze and evaluate performance of hashing algorithms
CSL602.4	Explore the different network reconnaissance tools to gather information about networks
CSL602.5	Use tools like sniffers, port scanners and other related tools for analyzing packets in a network
CSL602.6	Apply and set up firewalls and intrusion detection system using open source technologies and email security
CSL603	Software Engineering and Project Management Lab
CSL603.1	Understood the fundamentals of DevOps engineering and be fully proficient with DevOps concepts
CSL603.2	Implement Git & Git Hub to achieve Version Control
CSL603.3	Implement selenium and Jenkins to test software applications
CSL603.4 CSL603.5	Implement to build and deploy software applications Implement Docker to containerize images and deploy applications
CSL603.6	Implement Puppet to synthesize software configuration and provisioning
C3E003.0	Implement 1 upper to synthesize software configuration and provisioning
CSL604	Machine Learning Lab
CSC604.1	Identify different libraries used for Data processing like Numpy, Pandas and Matplolib.
CSC604.2	Apply System of Linear equations, Length of vector and the concept of Symmetric Positive Definite Matrices on the given data to understand mathematical
~~~	modeling of Machine Learning Models.
CSC604.3	Apply the different methods of Linear model for Regression and Classification.
CSC604.4 CSC604.5	Apply Hebbian Learning Rule and Expectation-Maximization algorithm for clustering.
CSC604.5	Apply concept of Neural Network to design simple network and understand Perceptron Learning Rule and Logistic Regression for classification.  Use Dimensionality Reduction techniques for dealing with data with large
C3C004.0	Ose Dimensionally Reduction recliniques for dealing with data with large number of attributes
CSL605	Skill Based Lab Course: Cloud Computing
CSL605.1	Create virtual machines using open source technology.
CSL605.2	Compare cloud computing services SaaS/PaaS/IaaS for a given application
CSL605.3 CSL605.4	Design and develop real world web applications and deploy them on commercial clouds.  Deploy cloud services to address security issues .
CSL605.5	Identify commercially available cloud services and recommend the appropriate one for the given application.
CSL605.6	Implement the concept of containerization.
CSM501	Mini Project 2B
CSM501.1	Identify societal, industrial needs and formulate problem statement followed by requirement analysis.
CSM501.2	Investigate the problem through appropriate literature surveys.
CSM501.3	Design and develop solution using modern tools for the given problem
CSM501.4	Work as an individual; contribute as a team member with effective management skills and ethical values.
CSM501.5	Develop effective communication / technical writing skills through project presentation, Group discussion and report writing activities.
CSM501.6	Demonstrate capabilities of self-learning, leading to lifelong learning.
CSC701	Deep Leaning  Understand the fundamental appears in according to the second data data data data data.
CSC701.1 CSC701.2	Understand the fundamental concepts in neural network and deep learning
CSC701.2 CSC701.3	Compare and Contrast among activation functions, loss functions, optimizers and regularization for choosing the appropriate method for the given application
CSC701.3 CSC701.4	Compare and Contrast among different types of Autoencoders for choosing the appropriate method for the given application  Apply the concepts of Convolution Neural Network on the given data
CSC701.4 CSC701.5	Compare and Contrast among different types of Recurrent Neural Network for choosing the appropriate method for the given application
CSC701.6	Apply appropriate deep learning techniques for the given application
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CSC702	Big Data Analytics
CSC702.1	Identify issues and challenges in Big data analytics.
CSC702.2	Apply Hadoop and MapReduce techniques to solve real world problems.
CSC702.3	Identify suitable NoSQL systems to handle big data.

CSC702.4	Apply filtering techniques, counting distinct element and counting ones in window algorithms on data stream.
CSC702.5	Analyze case study of Big data applications
CSC702.6	Apply statistical computing techniques and graphics for analyzing big data using R programming language.
CSDO7011	Natural Language Processing
CSDC7013.1	Demonstrate understanding of Natural Language Processing Fundamentals
CSDC7013.2	Apply Tokenization, Stemming, Regular Expression, Finite State Machine and N-gram techniques for performing Word Level Analysis
CSDC7013.3	Apply Part of Speech Tagging techniques on the given data and parse the data for performing Syntactic Analysis
CSDC7013.4	Demonstrate understanding of lexeme relations and apply appropriate technique for performing Word Sense Disambiguation
CSDC7013.5	Apply the concepts like Referring Expressions, Referents, Coreference and Coreference Resolution for performing discourse analysis
CSDC7013.6	Apply Natural Language Processing Techniques for Designing NLP Applications
CSDO7012	AI for Healthcare
CSDO7012.1	Explain the role of AI and ML for handling Healthcare data.
CSDO7012.2	Apply Advanced AI algorithms and computational techniques for Healthcare Problems.
CSDO7012.3	Use evaluation metrics for evaluating healthcare systems
CSDO7012.4	Develop NLP applications for healthcare using various NLP Techniques.
CSDO7012.5	Understand ways to monitor health care data
CSDO7012.6	Apply AI and ML algorithms for building Healthcare Applications
CSDO7021	User Experience Design with VR
CSDO7021.1	Understand the fundamental concepts of user experience design.
CSDO7021.2	Apply the requirement gathering techniques and visual design principles for understanding the user's needs.
CSDO7021.3	Create interactive and functional prototype for usability.
CSDO7021.4	Apply usability testing to improve the user interface design
CSDO7021.5	Apply various sensory I/P and O/P system for user engagement in Virtual Reality system
CSDO7021.6	Build various VR systems using DECIDE framework
CSDO7022	Blockchain Technologies
CSDO7022.1	Understand the basic concept of Blockchain and Distributed Ledger Technology.
CSDO7022.2	Interpret the knowledge of the Bitcoin network, nodes, keys, wallets and transactions.
CSDO7022.3	Understand the concept of Ethereum and Smart Contracts using different development frameworks.
CSDO7022.4	Understand the concept of Hyperledger Fabric, different development tools and frameworks.
CSDO7022.5	Interpret the knowledge of Cryptocurrencies and Crypto assets.
CSDO7022.6	Apply the Blockchain principles to various areas of application.
C3D07022.6	Apply the blockchain principles to various areas of application.
ILO7013	Management Information System
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ILO7013.1	Identify the impact of information systems on an organization
ILO7013.2	Identify the impact of information systems on an organization Use tools and technologies to access database information for improving business performance and decision making
ILO7013.2 ILO7013.3	Identify the impact of information systems on an organization Use tools and technologies to access database information for improving business performance and decision making Identify the threats to information systems and apply security controls for IS
ILO7013.2 ILO7013.3 ILO7013.4	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.
ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.
ILO7013.2 ILO7013.3 ILO7013.4	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.
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ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.  Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws
ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6 ILO7016 ILO7016.1	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.  Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives with respect to cybercrime.
ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6 ILO7016 ILO7016.1 ILO7016.2	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.  Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives with respect to cybercrime.  Analyze and discriminate cyberattack types with tools used for attacks.
ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6 ILO7016 ILO7016.1 ILO7016.2 ILO7016.3	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.  Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives with respect to cybercrime.  Analyze and discriminate cyberattack types with tools used for attacks.  Identify the security challenges presented by mobile devices and infer measures for protecting the same.
ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6 ILO7016 ILO7016.1 ILO7016.2 ILO7016.3 ILO7016.4	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.  Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives with respect to cybercrime.  Analyze and discriminate cyberattack types with tools used for attacks.  Identify the security challenges presented by mobile devices and infer measures for protecting the same.  Discover and apply different aspects of cyber law and Information Security Standards compliance.
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ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6 ILO7016.1 ILO7016.2 ILO7016.3 ILO7016.4 ILO7016.5 ILO7016.6 CSL701	Identify the impact of information systems on an organization  Use tools and technologies to access database information for improving business performance and decision making  Identify the threats to information systems and apply security controls for IS  Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one.  Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cybercrime, cyber-frauds, cybercriminal types with their motives with respect to cybercrime.  Analyze and discriminate cyberattack types with tools used for attacks.  Identify the security challenges presented by mobile devices and infer measures for protecting the same.  Discover and apply different aspects of cyber law and Information Security Standards compliance.  Discover and understand different aspects of cyber laws.  Distinguish different aspects of cyber crime and Indian IT Act.  Deep Leaning Lab
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ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.6  ILO7016.1 ILO7016.1 ILO7016.2 ILO7016.3 ILO7016.4 ILO7016.5 ILO7016.6  CSL701 CSL701.1 CSL701.2 CSL701.3 CSL701.4 CSL701.5 CSL701.6  CSL702 CSL702.1 CSL702.2 CSL702.1 CSL702.2 CSL702.3 CSL702.4 CSL702.5 CSL702.6  CSDOL7011 CSDOL7011.1 CSDOL7011.1 CSDOL7011.1	Identify the impact of information systems on an organization Use tools and technologies to access database information for improving business performance and decision making Identify the threats to information systems and apply security controls for IS Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one. Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cyber-frime, cyber-frauds, cyber-criminal types with their motives with respect to cyber-crime.  Analyze and discriminate cyberattack types with tools used for attacks.  Identify the security challenges presented by mobile devices and infer measures for protecting the same.  Discover and apply different aspects of cyber law and Information Security Standards compliance.  Discover and understand different aspects of cyber laws.  Distinguish different aspects of cyber crime and Indian IT Act.  Deep Leaning Lab  Implement Multilayer Perceptron to solve the given problem  Design a deep neural network by choosing appropriate training, optimization and regularization techniques to solve the given problem  Design an appropriate Autoencoder architecture to solve the given problem  Design an appropriate Recurrent Neural Network architecture to solve the given problem  Design an appropriate Recurrent Neural Network architecture to solve the given problem  Design an appropriate Convolution Neural Network architecture to solve the given problem  Design an appropriate Convolution Neural Network architecture to solve the given problem  Design an appropriate Convolution Neural Network architecture to solve the given problem  Design and application  Big Data Analytics Lab  Use Sqoop tool in Hadoop ecosystem for big data analytics.  Implement Multi-application on big data analy
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ILO7013.2 ILO7013.3 ILO7013.4 ILO7013.5 ILO7013.5 ILO7016.6 ILO7016.1 ILO7016.2 ILO7016.3 ILO7016.4 ILO7016.5 ILO7016.6  CSL701 CSL701.1 CSL701.2 CSL701.3 CSL701.4 CSL701.5 CSL701.6  CSL702 CSL702.1 CSL702.2 CSL702.1 CSL702.2 CSL702.3 CSL702.4 CSL702.5 CSL702.6 CSDOL7011 CSDOL7011.1 CSDOL7011.1 CSDOL7011.1 CSDOL7011.1	Identify the impact of information systems on an organization Use tools and technologies to access database information for improving business performance and decision making Identify the threats to information systems and apply security controls for IS Identify use of social computing for business-shopping, Marketing, Operational and Analytic CRM, E-business and E-commerce.  Use technologies that underlie pervasive computing, providing examples of how businesses can utilize each one. Identify the Transaction Processing, Functional Area Information and ERP system for enterprise-wide knowledge management  Cyber Security and Laws  Illustrate the concept of cyber-frime, cyber-frauds, cyber-criminal types with their motives with respect to cyber-crime.  Analyze and discriminate cyberattack types with tools used for attacks.  Identify the security challenges presented by mobile devices and infer measures for protecting the same.  Discover and apply different aspects of cyber law and Information Security Standards compliance.  Discover and understand different aspects of cyber laws.  Distinguish different aspects of cyber crime and Indian IT Act.  Deep Leaning Lab  Implement Multilayer Perceptron to solve the given problem  Design a deep neural network by choosing appropriate training, optimization and regularization techniques to solve the given problem  Design an appropriate Autoencoder architecture to solve the given problem  Design an appropriate Recurrent Neural Network architecture to solve the given problem  Design an appropriate Recurrent Neural Network architecture to solve the given problem  Design an appropriate Convolution Neural Network architecture to solve the given problem  Design an appropriate Convolution Neural Network architecture to solve the given problem  Design an appropriate Convolution Neural Network architecture to solve the given problem  Design and application  Big Data Analytics Lab  Use Sqoop tool in Hadoop ecosystem for big data analytics.  Implement Multi-application on big data analy

CSDOL7012	AI for Healthcare Lab
CSDOL7012.1	Understanding preprocessing in Health Care data
CSDOL7012.2	Apply EDA on heath care data
CSDOL7012.3	Understand computational models of AI.
CSDOL7012.4	Analyze and justify the performance of specific models as applied to healthcare problems
CSDOL7012.5	Apply NLP in healthcare domain
CSDOL7012.6	Design and implement AI based healthcare applications
CSDOL7021	User Experience Design with VR Lab
CSDO7021.1	Demonstrate the installation process of Unity and Visual Studio on computer
CSDO7021.2	Demonstrate the working of VR Controller
CSDO7021.3	Create VR scenes for 2D games in Unity
CSDO7021.4	Create User interface for virtual world in Unity
CSDO7021.5	Create 3D game in Unity
CSDO7021.6	Create virtual environment for application in Unity
CSDL7022	Block Chain Lab
CSDL7022.1	Create Cryptographic merkle root to provide integrity
CSDL7022.2	Create digital signature to perform authentication
CSDL7022.3	Design Smart Contract using Solidity.
CSDL7022.4	Implement ethereum blockchain using Geth
CSDL7022.5	Implement ethereum blockchain using Ganache and Truffle
CSDL7022.6	Use the tool to demonstrate the concept of blockchain in real world application.
CSP701	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
CSP701.1	propose appropriate solution to solve the problem.
CSP701.2	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CSP701.3	Analyze and compare the results with the standard results.
CSP701.4	Work as an individual and contribute as a team member with effective management skills to achieve a common objective.
CSP701.5	Write and present their work effectively with ethical values.
CSP701.6	Engage themselves in area of their interest applying the knowledge gained and explore new technical trends.
CSF /01.0	Engage themserves in area of their interest applying the knowledge gamed and explore new technical trends.
000004	Advanced Advisor Latellian
CSC801	Advanced Artificial Intelligence
CSC801.1	Analyze different Probabilistic models and choose the appropriate method for the given application
CSC801.2	Analyze the working and architecture for Generative Networks
CSC801.3	Interpret various components and various types of Autoencoders
CSC801.4	Apply the concepts of Transfer Learning on the given data
CSC801.5	Apply Ensemble Learning techniques to real-world problems
CSC801.6	Understand the nascent technologies in the field of artificial intelligence
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CSDO8013	Reinforcement Learning
CSDOL8013.1	Understand different types of robots, specifications of Robots its characteristics and applications.
CSDOL8013.2	Apply the concepts of Direct and Inverse Kinematics to solve real world problems.
CSDOL8013.3	Identify actuators, sensors, and control of a robot for different applications
CSDOL8013.4	Applying the differential relationships of motion, velocities and dynamic analysis of force
	Applying perspectives on Al and Robotics
CSDOL8013.6	Applying the fundamentsIs of robotics for automation
CSDO8022	Recommendation Systems
CSDO8022.1	Apply principles of Linear Algebra as a pre-requisite for the Recommendation Systems.
CSDO8022.2	Apply the approaches for performing collaborative filtering.
CSDO8022.3	Apply the approaches for performing content-based recommendation.
CSDO8022.4	Apply the approaches for performing knowledge based recommendation.
CSDO8022.5	Apply the approaches for performing ensembled based and hybrid recommendation system.
CSDO8022.6	Apply the approaches for meticulously evaluating recommendation systems.
ILO8021	Project Management
ILO8021.1	Identify appropriate projects from various options and mention their selection criteria.
ILO8021.2	Prepare Project Charter for the selected project
ILO8021.3	Prepare Work Break Down Structure for a project and also prepare a schedule using GANTT chart, CPM, PERT

ILO8021.4	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.
ILO8021.6	Identify reasons of project termination
1200021.0	ndownly reasons or project termination
ILO8025	Professional Ethics and CSR
ILO8025.1	Understand rights and duties of business.
ILO8025.2	Analyze and explore duties of business and professional ethics in the marketplace.
ILO8025.3	Analyze and Demonstrate professional ethics of consumer protection and job discrimination.
ILO8025.4	Describe and analyze different aspects of corporate social responsibility
ILO8025.5	Analyze interrelatedness of enterprises and corporate social responsibility.
ILO8025.6	Understand legal aspects of corporate social responsibility.
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ILO8029	Environmental Management
ILO8029.1	Make use of knowledge of Environment Management for sustainable development
ILO8029.2	Identify the Environmental Concerns for the specific hazard
ILO8029.3	Apply the Concept of Ecology to know the interdependence between ecosystem and living organisms
ILO8029.4	Apply the concept of Corporate Env Responsibility for Environmental Quality Management
ILO8029.5	Categorize the ISO-14000 standards and understand the procedure of EMS Certification
ILO8029.6	Utilize the knowledge of Environmental legislations for sustainable development
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CSL801	Advanced Artificial Intelligence Lab
CSL801.1	Design and Implement a Probabilistic Model for predicting outcomes
CSL801.2	Design a GAN on to solve the given problem
CSL801.3	Design an appropriate Variational Autoencoder architecture to solve the given problem
CSL801.4	Apply the concept of Transfer Learning on the given dataset
CSL801.5	Apply Ensemble Learning techniques to real-world problems
CSL801.6	Build an Application by making use of Advanced AI concepts
CSDOL8013	Reinforcement Learning Lab
CSDOL8013.1	Apply the fundamentals of reinforcement learning and problem formulation using MDPs and Bandit problems
CSDOL8013.2	Apply different exploration strategies and their impact on online leaning scenarios.
CSDOL8013.3	Apply dynamic programming algorithms for solving Markov Decision Processes.
CSDOL8013.4	Apply dynamic programming techniques to solve small-scale MDP problems
CSDOL8013.5	Implement and compare Monte Carlo methods and Temporal-Difference learning algorithms.
CSDOL8013.6	Apply real-world applications of reinforcement learning in domains such as autonomous driving or robotics
CSDOL8022	Recommendation Systems Lab
CSDOL8022.1	Understand mathematics and representation of data for recommendation systems
CSDOL8022.2	Design, implement and analyze Collaborative filtering based for recommendation systems.
CSDOL8022.3	Design, implement and analyze Content-based recommendation systems.
CSDOL8022.4	Design, implement and analyze Knowledge-based recommendation systems
CSDOL8022.5	Understanding feature engineering and pre-processing for recommendation systems.
CSDOL8022.6	To solve real world problems using recommendation systems.
CSP801	Major Project- 2
	Explore beyond the curriculum to identify problem of society, industrial or research needs; investigate the problem through in-depth literature survey and
CSP801.1	propose appropriate solution to solve the problem.
CSP801.2	Implement the methodology with modern tools and provide sustainable solution with effective utilization of the resources available.
CSP801.3	Analyze and compare the results with the standard results.
CSP801.4	Work as an individual and contribute as a team member with effective management skills to achieve a common objective.
CSP801.5	Write and present their work effectively with ethical values.
CSP801.6	Engage themselves in area of their interest applying the knowledge gained and explore new technical trends.