

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R20) REGULAR/SUPPLEMENTARY EXAMINATIONS, NOV/DEC-2025

TIME TABLE

TIME : 10.00 AM TO 01.00 PM

	17.11.2025 (Monday)	19.11.2025 (Wednesda)	21.11.2025 (Friday)	24.11.2025 (Monday)	26.11.2025 (Wednesday)	28.11.2025 (Friday)	01.12.2025 (Monday)	03.12.2025 (Wednesday)	05.12.2025 (Friday)
Civil Engineering (01)	Universal Human Values-2: Understanding Harmony (R2041011) (<i>Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD</i>)	Professional Elective-III : Advanced Structural Engineering (R204101A)/ Bridge Engineering (R204101B)/ Structural Dynamics (R204101C)/ Urban Transportation Planning (R204101D)	Professional Elective-IV : Ground Improvement Techniques (R204101E)/ Geo-Spatial Technologies (R204101F)/ Disaster Management & Mitigation (R204101G)/ Soil dynamics & Machine Foundations (R204101H)	Professional Elective-V : Design & Drawing of Irrigation Structures (R204101I)/ Earth & Rock fill Dams (R204101J)/ Urban Hydrology (R204101K)/ SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) (R204101L)	Open Elective-III : Strength of Materials (R204101M)/ Fluid Mechanics (R204101N)/ Surveying and Geomatics (R204101O)/ Highway Engineering (R204101P)/ Safety Engineering (R204101Q)/ Environmental Management (R204101R)/ Urban Planning (R204101S)	Open Elective-IV : Elements of Civil Engineering (R204101T)/ Environmental Engineering (R204101U)/ Disaster Management (R204101V)/ Water Resource Engineering (R204101W)/ Hydraulics and Hydraulic Machinery (R204101X)/ Green Technologies (R204101Y)/ Remote Sensing and GIS	.....	.....	
Electrical & Electronics Engineering (02)	Universal Human Values-2: Understanding Harmony (R2041011) (<i>Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD</i>)	Professional Elective-III : Digital Signal Processing (R204102A)/ Renewable and Distributed Energy Technologies (R204102B)/ Flexible Alternating Current Transmission Systems (R204102C)/ Power Systems Deregulation (R204102D)/ Data Base Management Systems (R204102E)	Professional Elective-IV : Hybrid Electric Vehicles (R204102F)/ High Voltage Engineering (R204102G)/ Programmable Logic Controllers and Applications (R204102H)	Professional Elective-V : Power System Operation and Control (R204102I)/ Switched Mode Power Conversion (R204102J)/ AI Applications toElectrical Engineering (R204102K)	Open Elective-III : Concepts of Microprocessors and Microcontrollers (R204102L)/ Fundamentals of Electric Vehicles (R204102M)/ Concepts of Internet of Things (R204102N)	Open Elective-IV : Concepts of Power System Engineering (R204102O)/ Concepts of Smart Grid Technologies (R204102P)	Data Science (R204105R) (<i>Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3</i>)	Deep Learning Techniques (R204105E) (<i>Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / MEAN Stack Technologies (R204105V) (<i>Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) Cloud Computing with AWS (R204105W) (<i>Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>)	Additive Manufacturing (R204103P) (<i>Common to PE-V & OE-3</i>)

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Mechanical Engineering (03)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Mechanical Vibrations (R204103A)/ Operations Research (R204103B)/ Unconventional Machining Processes (R204103C)/ Computational Fluid Dynamics (R204103D)/ Gas Dynamics and Jet Propulsion (R204103E)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103F)	Professional Elective-IV : Automation in Manufacturing (R204103G)/ Power Plant Engineering (R204103H)/ Big Data Analytics (R204103I)/ Production Planning and Control (R204103J)/ Condition Monitoring (R204103K)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103L)	Professional Elective-V : Advanced Manufacturing Processes (R204103M)/ Refrigeration & Air-Conditioning (R204103O)/ Non Destructive Evaluation (R204103Q)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103R)	Open Elective-III : Finite Element Methods (R204103S)/ Introduction to Artificial Intelligence & Machine Learning (R204103T)	Open Elective-IV : Optimization Techniques (R204103U)/ Smart Manufacturing (R204103V)/ Safety Engineering (R204103W)/ Operations Management (R204103X)	Mechatronics (R204103N) (Common to PE-V & OE-3)		
Electronics & Communication Engineering (04)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Optical Communication (R204104A)/ Digital Image Processing (R204104B)/ Low Power VLSI Design (R204104C)	Professional Elective-IV : Satellite Communications (R204104D)/ Soft Computing Techniques (R204104E)/ Digital IC Design using CMOS (R204104F)	Professional Elective-V : Radar engineering (R204104G)/ Pattern recognition & Machine Learning (R204104H)/ Internet of Things (R204104I)	Open Elective-III : Basics of Signals and Systems (R204104J)/ Electronic Measurements and Instrumentation (R204104K)/ Principles of Signal Processing (R204104L)/ Industrial Electronics (R204104M)/ Consumer Electronics (R204104N)/ Fundamentals of Microprocessors and Microcontrollers (R204104O)/ Transducers and Sensors (R204104P)/ IOT and Applications (R204104Q)	Open Elective-IV : Soft Computing Techniques (R204104R)/ IC Applications (R204104S) / Principles of Communications (R204104T)/ Basic Electronics (R204104U)/ Data Communications (R204104V)/ Digital Logic design (R204104W)/ Remote Sensing and GIS (R204104X)/ Bio Medical Instrumentation (R204104Y)			

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Computer Science & Engineering (05)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Cloud Computing (R204105A) (Common to CSE, IT) / Neural Networks and Soft Computing (R204105B) / Ad-hoc and Sensor Networks (R204105C) / Cyber Security & Forensics (R204105D) (Common to CSE, IT)	Professional Elective-IV : Computer Vision (R204105G) (Common to CSE, CSE(AIDS), AIDS, CSD) / MOOCS-NPTEL/SWAYAM (R204105H)	Professional Elective-V : Wireless Network Security (R204105J) / Ethical Hacking (R204105K) (Common to CSE, IT) / MOOCS-NPTEL/SWAYAM (R204105L) / Block Chain Technologies (R204105I) (Common to CSE, IT)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M) / AI Tools & Techniques (R204105N) / Image Processing (R204105O) / Information Security (R204105P) / Mobile Application Development (R204105Q) / Cyber Security (R204105S) / Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U) / Block Chain Technologies (R204105X) / Introduction to Machine Learning (R204105Z) / Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Social Network And Semantic Web (Job Oriented Course) (R204105F) (Common to CSE, PE-IV & CSE(IOTCSIBCT) OE-3) / Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)	Unix and Shell Programming (204105MF) / Software Engineering (204105MA) / Matrix Analysis of Structures (204101HB) / Web Security (204105HR) / Smart Grid Technologies (204102HB) / Materials Technology (204103HE) / Signal Analysis (204104MD) / Reinforcement Learning (204142MA) / Medical Image Data Processing (204105HW) / Reinforcement Learning (204105HD) / Service Oriented Architectures (204105HG) / Data Wrangling and Data Science (204144MA) / Privacy & Security MIOT (204149MC)

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Information Technology (12)	Universal Human Values-2: Understanding Harmony (R2041011) (<i>Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD</i>)	Professional Elective- III : Cloud Computing (R204105A) (<i>Common to CSE, IT</i>) / Cyber Security & Forensics (R204105D) (<i>Common to CSE, IT</i>) / Artificial Neural Networks (R204112A) / Internet of Things (IoT) (R204112B)	Professional Elective- IV : Advanced Databases (R204112D) / MOOCS- NPTEL/SWAYAM (R204112E) / Social Networks Analysis (R204112C)	Professional Elective-V : M-Commerce (R204112F) / Ethical Hacking (R204105K) (<i>Common to CSE, IT</i>) / MOOCS- NPTEL/SWAYAM (R204112G) / Block Chain Technologies (R204105I) (<i>Common to CSE, IT</i>)	Open Elective-III : AI Tools & Techniques (R204105N) / Image Processing (R204105O) / Information Security (R204105P) / Mobile Application Development (R204105Q) / Cyber Security (R204105S) / Introduction to Internet of Things (R204105T) (<i>Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Open Elective-IV : Block Chain Technologies (R204105X) / Introduction to Machine Learning (R204105Z) / Machine Learning with Python (R2041051) (<i>Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Data Science (R204105R) (<i>Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3</i>)	Deep Learning Techniques (R204105E) (<i>Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (<i>Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / Cryptography and Network Security (R204105Y) (<i>Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4</i>)	0
Automobile Engineering (24)	Universal Human Values-2: Understanding Harmony (R2041011) (<i>Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD</i>)	Professional Elective- III : Automobile HVAC (R204124B) / Special Purpose Vehicles (R204124C) / Vehicle Infotronics (R204124E) / MOOC's/NPTEL (R204124F)	Professional Elective- IV : Automobile Certification and Homologation (R204124G) / Total Quality Management (R204124H) / Electric Vehicles and Hybrid Technology (R204124I) / Facilities Planning and Material Handling (R204124J) / Rapid Prototyping (R204124K) / MOOC's/NPTEL (R204124L)	Professional Elective-V : Automobile Comfort Systems And Ergonomics (R204124M) / Lean Manufacturing (R204124N) / Vehicle Design Data Characteristics (R204124O) / Reliability Engineering (R204124P) / Smart, Autonomous and Connected Vehicles (R204124Q) / MOOC's/NPTEL (R204124R)	Open Elective-III : Automobile Power train (R204124S) / IC Engines (R204124T)	Open Elective-IV : Automobile Materials and Manufacturing Techniques (R204124U) / Automobile Electrical and Electronics (R204124V)	Automobile Safety (R204124A) (<i>Common to PE-III & OE-3</i>)	Engine Management Systems (R204124D) (<i>Common to PE-III & OE-4</i>)	

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Mining Engineering (26)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Operations Research (R204126A)/ Dimensional Stone Mining (R204126B)/ Advanced Mining Techniques (R204126C)/ Planning of Underground Metal mining techniques (R204126D)	Professional Elective-IV : Mine closure and Reclamation (R204126E)/ Surface Mine Environment (R204126F) / Mineral Economics, Business and Trade (R204126H)	Professional Elective-V : Subsidence Engineering (R204126I)/ Rock Slope Engineering (R204126J)/ Advances in Rock Fragmentation (R204126K)/ Tunneling and Underground Space Technology (R204126L)	Open Elective-III : Mine Waste Management (R204126M)/ Mine Reclamation (R204126N)/ Environmental Impact of Mining (R204126O)	Open Elective-IV : Principles of Mineral Engineering (R204126P)/ Mine Instrumentation (R204126Q)/ Mine Safety & Ergonomics (R204126R)/ Numerical Methods in Mining Engineering (R204126S)	Sustainable Development for Mining (R204126G) (Common to PE-IV & OE-3)		
Agricultural Engineering (35)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Irrigation and Drainage Engineering (R204135A)/ Production Technology of Agricultural Machinery (R204135B)/ Food Plant Design and Management (R204135C)	Professional Elective-IV : Design of Soil and Water Conservation and Farm Systems (R204135D)/ Food Process Equipment Design (R204135E)/ Design of Agricultural Machinery (R204135F)	Professional Elective-V : Micro Irrigation Engineering (R204135G)/ Mechatronics in Agricultural Engineering (R204135H)/ Dairy and Food Engineering (R204135I)	Open Elective-III : Principles of Soil Science and Agronomy (R204135J)/ Farm Power and Tractor Systems (R204135K)/ Soil and Water Conservation Engineering (R204135L)/ Ground Water Hydrology, Wells and Pumps (R204135M)	Open Elective-IV : Surface Water Hydrology (R204135N)/ Post Harvest Engineering of Cereals, Pulses and Oilseeds (R204135O)/ Agricultural Process Engineering (R204135P)			

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CSE (Artificial Intelligence and Machine Learning) (42)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Reinforcement Learning (R204142A)/ Soft Computing (R204142B)/ Speech Processing (R204142C)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective- IV : Robotic Process Automation (R204142D)/ Big Data Analytics (R204142E) (Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE (CS), CS PE-V & OE- 3) / NOSQL Databases (R204142F)/ Video Analytics (R204142G)/ Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Object Oriented Analysis and Design (R204142J)/ Semantic Web (R204142K) / Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4)	

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CSE (Artificial Intelligence) (43)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Reinforcement Learning (R204142A)/ Soft Computing (R204142B)/ Speech Processing (R204142C)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective- IV : Robotic Process Automation (R204142D)/ Big Data Analytics (R204142E) (Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE (CS), CS PE-V & OE- 3) / NOSQL Databases (R204142F)/ Video Analytics (R204142G)/ Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Object Oriented Analysis and Design (R204142J)/ Semantic Web (R204142K) / Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4)	

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CSE (Data Science) (44)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-IV : SnowFlake Cloud Analytics (R204144C)/ Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)	

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CSE (Artificial Intelligence and Data Science) (45)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective- IV : Computer Vision (R204105G) (Common to CSE, CSE(AIDS), AIDS, CSD)/ Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4)	

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CSE (Cyber Security) (46)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Internet Of Things (R204146A)/ Information Coding Techniques (R204146D) / Mobile and Wireless Security (R204146E) (Common to CSE(CS), CS)	Professional Elective- IV : Ad-hoc and Sensor Networks (R204146R) / Big Data Analytics (R204142E) (Common to CSE(AIML), CSE(AI), AIML, PE- IV & CSE(CS), CS PE-V & OE-3) / Cyber Crime Investigation and Digital Forensics (R204146F) (Common to CSE(CS), CS PE-IV , OE-4 & CSE(IOTCSIBCT) PE- IV)	Professional Elective-V : Cyber Laws and Security Policies (R204146J)/ Intrusion Detection and Prevention System (R204146K)/ Data Privacy (R204146L)/ Ethical Hacking (R204146M)	Open Elective-III : DevOps (Job Oriented Course) (R204146N)/ Cryptography and Network Security (R204146O)	Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS)	Distributed Systems (R204146C) (Common to CSE(CS), CS PE-III & OE-4) / Mean Stack Technologies (R204146H) (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE- IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering (R204146I) (Common to CSE(CS), CSE(IOTCSIBCT) PE- IV & CSE(CS) OE-4) / Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSI BCT), CSE(IoT) OE-4)	Cloud Computing (R204146G) (Common to CSE(CS) PE-IV, OE- 3 & CSE(IoT) PE-IV)

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CSE (Internet of things and Cyber security including Block chain Technology) (47)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Software Testing Methodologies (R204147A)/ NoSQL Databases (R204147B)/ Privacy and Security in IOT (R204147C)/ Cloud Computing (R204147Q)	Professional Elective- IV : Object Oriented Analysis & Design Using UML (R204147D)/ Intrusion Detection Systems (R204147E) / Cyber Crime Investigation and Digital Forensics (R204146F) (Common to CSE(CS), CS PE-IV , OE-4 & CSE(IOTCSIBCT) PE- IV)	Professional Elective-V : Deep Learning (R204147F)/ Quantum Computing (R204147G)/ Dev Ops (R204147H)/ Mobile and Wireless Security (R204147P)	Open Elective-III : Sensors and Actuator Devices for IoT (R204147J)/ Cryptography and Network Security (R204146O)	Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)/ Distributed Computing (R204147M)	Social Network And Semantic Web (Job Oriented Course) (R204105F) (Common to CSE, PE-IV & CSE(IOTCSIBCT) OE- 3) / Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) / Big Data Analytics for IoT (R204147I) (Common to CSE(IoT) PE-IV & CSE(IOTCSIBCT), CSE(IoT) OE-3)	Mean Stack Technologies (R204146H) (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE- IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering (R204146I) (Common to CSE(CS), CSE(IOTCSIBCT) PE- IV & CSE(CS) OE-4) /Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSI BCT), CSE(IoT) OE- 4) / Programming and Interfacing with Microcontrollers (R204147K) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) / Block Chain Technologies (R204147L) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4)	

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CSE (Internet of Things) (49)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Mobile Computing (R204149A)/ No SQL Databases (R204147B)/ Privacy and Security in IOT (R204147C)	Professional Elective- IV : Fog Computing (R204149B) Cyber Security & Forensics (R204149H)	Professional Elective-V : Deep Learning (R204147F)/ Wearable Computing (R204149C)/ Dev Ops (R204147H)/ Software Testing Methodologies (R204149I)	Open Elective-III : Middleware Technologies (Job Oriented Course) (R204149D)/ Sensors and Actuator Devices for IoT (R204147J)/ Embedded System Design (R204149E)	Open Elective-IV : Multimedia And Rich Internet Applications (R204146P)/ Cryptography and Network Security (R204149J)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) /Big Data Analytics for IoT (R204147I) (Common to CSE(IoT) PE-IV & CSE(IOTCSIBCT), CSE(IoT) OE-3)	Mean Stack Technologies (R204146H) (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE- IV & CSE(IoT) OE-4) / Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSI BCT), CSE(IoT) OE- 4) / Programming and Interfacing with Microcontrollers (R204147K) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) / Block Chain Technologies (R204147L) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4)	Cloud Computing (R204146G) (Common to CSE(CS) PE-IV, OE- 3 & CSE(IoT) PE-IV)

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ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Universal Human Values-2: Understanding Harmony (R2041011) (<i>Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD</i>)	Professional Elective- III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P) (<i>Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Professional Elective- IV : Computer Vision (R204105G) (<i>Common to CSE, CSE(AIDS), AIDS, CSD</i>) / Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (<i>Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (<i>Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (<i>Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (<i>Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Data Science (R204105R) (<i>Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3</i>)	Deep Learning Techniques (R204105E) (<i>Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (<i>Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / Cryptography and Network Security (R204105Y) (<i>Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4</i>)	
PHARMACEUTICAL ENGINEERING (55)	Industrial Pharmacy (R204155A)	Professional Elective- III : Bio Medical Instrumentation (R204155B)/ Pharmaceutical product development (R204155C)/ Industrial Process Control (R204155D)	Professional Elective- IV : Pharmaceutical Packaging Technology (R204155E)/ Introduction to Biomaterials and Tissue Engineering (R204155F)/ Good Manufacturing Practices (R204155G)		Open Elective-III : Robotics (R204155H)/ Synthesis And Characterization of Nano Materials (R204155I)/ Industrial Psychology and Human Resource Management (R204155J)	Open Elective-IV : Principles of mechanical measurements (R204155K)/ Artificial Intelligence & Machine Learning (R204155L)/ Bioinformatics (R204155M)			

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CYBER SECURITY (59)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective-III : Internet Of Things (R204146A)/ Information Coding Techniques (R204146D) / Mobile and Wireless Security (R204146E) (Common to CSE(CS), CS)	Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R) / Big Data Analytics (R204142E) (Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3) / Cyber Crime Investigation and Digital Forensics (R204146F) (Common to CSE(CS), CS PE-IV, OE-4 & CSE(IOTCSIBCT) PE-IV)	Professional Elective-V : Cyber Laws and Security Policies (R204146J)/ Intrusion Detection and Prevention System (R204146K)/ Data Privacy (R204146L)/ Ethical Hacking (R204146M)	Open Elective-III : DevOps (Job Oriented Course) (R204146N)/ Cryptography and Network Security (R204146O)	Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS)	Distributed Systems (R204146C) (Common to CSE(CS), CS PE-III & OE-4) / Mean Stack Technologies (R204146H) (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering (R204146I) (Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4) / Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)	Cloud Computing (R204146G) (Common to CSE(CS) PE-IV, OE-3 & CSE(IoT) PE-IV)

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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD)	Professional Elective- III : Reinforcement Learning (R204142A)/ Soft Computing (R204142B)/ Speech Processing (R204142C)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective- IV : Robotic Process Automation (R204142D)/ Big Data Analytics (R204142E) (Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE (CS), CS PE-V & OE- 3) / NOSQL Databases (R204142F)/ Video Analytics (R204142G)/ Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Object Oriented Analysis and Design (R204142J)/ Semantic Web (R204142K) / Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4)	

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COMPUTER SCIENCE AND DESIGN (62)	Universal Human Values-2: Understanding Harmony (R2041011) (<i>Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AIML, CSD</i>)	Professional Elective- III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Block Chain Technologies (R204142P) (<i>Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Professional Elective- IV : Robotic Process Automation (R204142D)/ Computer Vision (R204105G) (<i>Common to CSE, CSE(AIDS), AIDS, CSD</i>) / NOSQL Databases (R204142F) / Cloud Computing (R204142O) (<i>Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (<i>Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (<i>Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (<i>Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD</i>)	Data Science (R204105R) (<i>Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3</i>)	Deep Learning Techniques (R204105E) (<i>Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (<i>Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4</i>) / Cryptography and Network Security (R204105Y) (<i>Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4</i>)	

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Sd/-

Controller of Examinations

DATE: 30.10.2025



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R19) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025

TIME TABLE

TIME : 10.00 AM TO 01.00 PM

Branch	17.11.2025 (Monday)	19.11.2025 (Wednesday)	21.11.2025 (Friday)	24.11.2025 (Monday)	26.11.2025 (Wednesday)	28.11.2025 (Friday)
Civil Engineering (01)	Design & Drawing of Steel Structures (R1941011)	Geotechnical Engineering - II (R1941012)	Remote Sensing & GIS (R1941013)	Elective-III : Bridge Engineering (R194101A)/ Industrial Waste Water Treatment (R194101B)/ Earth Rock-fill Dams (R194101C)/ Intelligent Transportation Systems (R194101D)/ Building Services (R194101E)	.....	Open Elective-III : Disaster Management (R194101F)/ Environmental Pollution & Control (R194101G)/ Elements of Civil Engineering (R194101H)/ Green Technology (R194101I)/ Smart Cities (R194101J)/ Project Management (R194101K)/ Traffic Safety (R194101L)/ Geo-Spatial Technologies (R194101M)/ Waste Water Treatment (R194101N)
Electrical & Electronics Engineering (02)	Switchgear & Protection (R1941021)	OOPs through JAVA (R1941022)	Renewable Energy Systems (R1941023)	Elective-II : Utilization of Electrical Energy (R194102A)/ Data Base Management System (R194102B)/ Advanced Control Systems (R194102C)/ Electrical Machine Design (R194102D)/ Hybrid Electric Vehicles (R194102E)	Elective-III : Operating Systems (R194102G)/ Neural Networks & Fuzzy Logic (R194102H)/ High Voltage Engineering (R194102I)/ Energy Auditing and Demand Side Management (R194102J)/ Data Analytics with Python (R194102K)	Open Elective - II :- Measurements & Instrumentation (Except for EEE)(R194102M)/ Fundamentals of Utilization of Electrical Energy (Except for EEE) (R194102N)/ Concepts of Power System Engineering (Except for EEE) (R194102O)/ Basics of Control Systems (Except for EEE) (R194102P)/ Energy Audit (Except for EEE) (R194102Q)/ Fundamental of Electrical Machines (Except for EEE) (R194102R)
Mechanical Engineering (03)	Industrial Management (R1941031)	Elective - III :- Mechanical Vibrations (R194103A)/ Renewable Energy Sources (R194103B)/ Production Planning&Control (R194103C)/ Machine Tool Design (R194103D)		Finite Element Methods (Common to ME & AME) (R1941032)	Elective-IV : Industrial Automation and Robotics (R194103F)/ Micro and Nano Manufacturing (R194103G)/ Power Plant Engineering (R194103H)/ Optimization Techniques (R194103I)	Open Elective-II : MEMS (R194103K)/ Optimization Methods (R194103L)/ Operations Management (R194103M)/ Nano Technology (R194103N)/ Finite Element Analysis (R194103O)



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Electronics & Communication Engineering (04)	Microwave and Optical Communication Engineering (R1941041)	Data Communications & Computer Networks (R1941042)	Digital Image and Video Processing (R1941043)	Elective-III : Communication Standards and Protocols (R194104A)/ Analog IC Design (R194104B) / SmartSensors (R194104C)/ Advanced Digital Signal Processing (R194104D)/ Augmented Reality (R194104E)	Elective-IV: Software Radio (R194104F)/ Low Power VLSI Design (R194104G)/ Embedded Systems (R194104H)/ DSP Processors and Architectures (R194104I)/ Multi Media Communication (R194104J)	Open Elective : Embedded Systems (Except for ECE) (R194104K)
Computer Science & Engineering (05)	Cryptography and Network Security (Common to CSE & IT) (R1941051)	Machine Learning (Common to CSE & IT) (R1941053)	UML & Design Patterns (R1941052)	Elective-III : Mobile Computing (R194105A)/ Data Science (R194105B)/ NoSQL Databases (R194105C)/ Internet of Things (R194105D)/ Software Project Management (R194105E)	Elective-IV: Web Services (R194105F)/ Cloud Computing (Common to CSE & IT) (R194105G) / Mean Stack Technologies (R194105H)/ Ad-hoc and Sensor Networks (Common to CSE & IT) (R194105I)/ Cyber Security & Forensics (R194105J)	Open Elective : Problem Solving using Python (Common to CSE & IT) (Except CSE & IT) (R194105K)/ Web Technologies (Common to CSE & IT) (Except CSE & IT) (R194105L)/ Machine Learning (Common to CSE & IT) (Except CSE & IT)/ (R194105M)/ Distributed Computing (Common to CSE & IT) (Except CSE & IT) (R194105N)/ AI Tools & Techniques (Common to CSE & IT) (Except CSE & IT) (R194105O)/ Data Science (Except CSE & IT) (R194105P)
Information Technology (12)	Cryptography and Network Security (Common to CSE & IT) (R1941051)	Machine Learning (Common to CSE & IT) (R1941053)	Advanced Computer Networks (R1941121)	Elective IV: Distributed Systems (R194112D)/ DevOps (R194112E) / Internet of Things (R194112F)/ Data Science (R194112G)/ Biometrics (R194112H)	Elective III: Big Data Analytics (R194112A)/ Social Networking (R194112B)/ Ad-hoc and Sensor Networks (Common to CSE & IT) (R194105I)/ Cloud Computing (Common to CSE & IT) (R194105G)/ Design Patterns (R194112C)	Open Elective : Problem Solving using Python (Common to CSE & IT) (Except CSE & IT) (R194105K)/ Web Technologies (Common to CSE & IT) (Except CSE & IT) (R194105L)/ Machine Learning (Common to CSE & IT) (Except CSE & IT)/ (R194105M)/ Distributed Computing (Common to CSE & IT) (R194105N) / AI Tools & Techniques (Common to CSE & IT) (Except CSE & IT) (R194105O) / Data Science (Except CSE & IT) (R194112I)
Automobile Engineering (24)	Industrial Engineering & Management (R1941241)	Vehicle Dynamics (R1941242)	Vehicle Body Engineering (R1941243)	Elective I : CAD/CAM (R194124A)/ Two and Three Wheelers (R194124B)/ Automotive Aerodynamics (R194124C)/ Vehicle Infotronics (R194124D)/ Finite Element Methods (Common to ME & AME) (R1941032)	Elective II : Mechatronics (R194124E)/ Computational Fluid Dynamics (R194124F)/ Condition Monitoring (R194124G)/ Managerial Economics and financial analysis (R194124H)/ Internet of Things (R194124I)	Alternative Energy sources for Automobiles (R1941244)



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IV B.TECH - I SEMESTER (R19) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025

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Mining Engineering (26)	Computer Applications in Mining (R1941261)	Mine Planning and Design (R1941262)	Mine Legislation & General Safety (R1941263)	Elective I: Rocks Slope Engineering (R194126A)/ Mine Subsidence Engineering (R194126B)/ Mine Systems Engineering (R194126C)		
Petroleum Engineering (27)	Design of Surface Facilities (R1941271)	Enhanced Oil Recovery Techniques (R1941272)	Elective III : HSE in Petroleum Industry (R194127A)/ Petroleum Engineering Mathematics (R194127B)/ Subsea Engineering (R194127C)	Elective IV: Mathematics of Reservoir Simulation (R194127D)/ Advances in Well Control (R194127E)/ Pipeline Engineering (R194127F)	Elective V : Statistics for Petroleum Engineers and Geoscientists (R194127G)/ Advances in Seismic methods for Hydrocarbon Exploration (R194127H)	.....
Agricultural Engineering (35)	Micro Irrigation Engineering (R1941351)	Post Harvest Engineering for Horticulture Produce (R1941352)	Elective II : Food Packaging Technology (R194135A)/ Watershed Management (R194135B)/ Human Engineering and Safety (R194135C)	Elective III: GIS and Remote Sensing (R194135D)/ Production Technology of Agricultural Machinery (R194135E)/ Food Plant Design and Management (R194135F)		Open Elective : Mechanical Measurements and Instrumentation (R194135G)/ Artificial Intelligence in Agricultural Engineering (R194135H)/ Photovoltaic Technology and Systems (R194135I)

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UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R16) SUPPLEMENTARY EXAMINATIONS, NOVEMBER/DECEMBER - 2025

TIME TABLE

TIME : 10.00 AM TO 01.00 PM

Branch	17.11.2025 (Monday)	19.11.2025 (Wednesday)	21.11.2025 (Friday)	24.11.2025 (Monday)	26.11.2025 (Wednesday)	28.11.2025 (Friday)	01.12.2025 (Monday)
Civil Engineering (01)	Environmental Engineering – II (R1641011)	Water Resource Engineering - II (R1641012)	Geotechnical Engineering - II (R1641013)	Remote sensing and GIS Applications (R1641014)	Elective-I : Finite Element Methods (R164101A)/Ground Improve Techniques (R164101B)/Air Pollution and Control (R164101C)/Urban Hydrology (R164101D)/Traffic Engineering (R164101E)	Elective-II : Advanced Structural Engineering (R164101F)/Advanced Foundation Engineering (R164101G)/Environmental Impact Assessment & Management (R164101H)/Ground Water Development (R164101I)/Pavement Analysis and Design (R164101J)	....
Electrical & Electronics Engineering (02)	Utilization of Electrical Energy (R1641021)	Linear IC Application (R1641022)	Power Systems Operation & Control (R1641023)	Switch Gear and Protection (R1641024)	Elective-I : Electrical Machine Modeling Analysis (R164102A)/Advanced Control Systems (R164102B)/Programmable Logic Control & Applications (R164102C)/Instrumentation (R164102D)	Elective-II : Optimization Techniques (R164102E)/Electric Power Quality (R164102F)/Special Electrical Machines (R164102G)	....
Mechanical Engineering (03)	Mechatronics (R1641031)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Power Plant Engineering (R1641034)	Elective-I : Computational Fluid Dynamics (Common to ME, AME & AE) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)/Additive Manufacturing (R164103C)	Elective-II : Advanced Materials (R164103D)/Design for Manufacture (R164103E)/Gas Dynamics & Jet Propulsion (R164103F)	....
Electronics & Communication Engineering (04)	Radar Systems (R1641041)	Digital Image Processing (Common to ECE & EIE & E.COMP.E) (R1641042)	Computer Networks (Common to ECE & EIE) (R1641043)	Optical Communications (R1641044)	Elective-I : TV Engineering (R164104A)/Electronic Switching Systems (R164104B)/System Design through Verilog (R164104C)	Elective-II : Embedded Systems (R164104D)/Analog IC Design (Common to ECE & EIE) (R164104E)/Network Security & Cryptography (R164104F) (Only for ECE)	



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Computer Science & Engineering (05)	Cryptography and Network Security (Common to CSE, IT) (R1641051)	Software Architecture & Design Patterns (R1641052)	Web Technologies (R1641053)	Managerial Economics and Financial Analysis (Common to CSE & IT) (R1641054)	Elective-I: Big Data Analytics (Common to CSE & IT) (R164105A)/Information Retrieval Systems (Common to CSE & IT) (R164105B)	Elective-II: Cloud Computing (Common to CSE & IT) (R164105D)/Software Project Management (Common to CSE & IT) (R164105E)/Scripting Languages (R164105F)	Mobile Computing (Common to CSE, IT) (R164105C)
Electronics & Instrumentation Engineering (10)	Data Acquisition Systems (R1641101)	Digital Image Processing (Common to ECE & EIE & E.COMP.E) (R1641042)	Computer Networks (Common to ECE & EIE) (R1641043)	Management Science (R1641102)	Elective II: Mixed Signal Design (R164110C)/Robotics & Automation (R164110D)/EMI/EMC (R164110E)	Elective I: Quality and Reliability Engineering Systems (QRES) (R164110A)/Analog IC Design (Common to ECE & EIE) (R164104E)/Digital Control Systems (R164110B)	....
Information Technology (12)	Cryptography and Network Security (Common to CSE, IT) (R1641051)	....	Data Ware Housing and Business Intelligence (R1641121)	Managerial Economics and Financial Analysis (Common to CSE & IT) (R1641054)	Elective I: Big Data Analytics (Common to CSE & IT) (R164105A)/Information Retrieval Systems (Common to CSE & IT) (R164105B)/ Internet of Things (R164112A) /Multimedia Programming (R164112B)	Elective II: Cloud Computing (Common to CSE & IT) (R164105D)/Software Project Management (Common to CSE & IT) (R164105E)/Machine Learning (R164112C)/Decision Support System (R164112D)	Mobile Computing (Common to CSE, IT) (R164105C)
Electronics & Computer Engineering (19)	Systems Programming (R1641191)	Digital Image Processing (Common to ECE, EIE & E.COMP.E) (R1641042)	Digital Signal Processing (R1641192)	UNIX Programming (R1641193)	Elective I: Artificial Intelligence (R164119A)/Advanced Computer Architecture (R164119B)/Data Communication (R164119C)	Elective II: Web Design (R164119D)/Fuzzy Logic and Neural Networks (R164119E)/Structured Digital Design (R164119F)	....
Aeronautical Engineering (21)	Theory of Vibrations (R1641211)	Elective I: Airframe Repair and Maintenance (R164121A)/Boundary Layer Theory (R164121B)/Fatigue and Fracture Mechanics (R164121C)	Instrumentation Measurements and Experiments in Fluids (R1641212)	Helicopter Engineering (R1641213)	Computational Fluid Dynamics(Common to ME, AME & Aeronautical) (R164103A)	Elective II: Elements of Combustion (R164121D)/Quality and Reliability Engineering (R164110A)/Hypersonic Aerodynamics (R164121E)	



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Automobile Engineering (24)	Automotive Chasis and Suspension (R1641241)	CAD/CAM (Common to ME & AME) (R1641032)	Finite Element Methods (Common to ME & AME) (R1641033)	Vehicle Dynamics (R1641242)	Elective II: Micro Processors & Micro Controllers (R164124D)/Computational Fluid Dynamics(Common to ME, AME & Aeronautical) (R164103A)/Condition Monitoring (Common to ME & AME) (R164103B)	Elective I: Vehicle Body Engg. & Safety (R164124A)/Industrial Robotics (R164124B)/Automotive Aerodynamics (R164124C)	
Mining Engineering (26)	Computer Applications in Mining (R1641261)	Underground Metal Mining Technology (R1641262)	Rock Mechanics & Ground Control (R1641263)	Mine Legislation & General Safety (R1641264)	Elective I: Rock Slope Engineering (R164126A)/Mine Subsidence Engineering (R164126B)/Rock Fragmentation Engineering (R164126C)	Elective II: Deep Sea Mining (R164126D)/Mine Construction Engineering (R164126E)/Tunneling Engineering (R164126F)	....
Petroleum Engineering (27)	Integrated Asset Management (R1641271)	Petroleum Reservoir Engineering-II (R1641272)	Surface Production Operations (R1641273)	Oil & Gas Processing Plant Design (R1641274)	Elective I: Natural Gas Hydrates (R164127A)/Pipeline Engineering (R164127B)/Horizontal Well Technology (R164127C)	Elective II: Coal Bed Methane Engineering (R164127D)/Offshore Engineering (R164127E)/Reservoir Stimulation (R164127F)	....
Agricultural Engineering (35)	Micro Irrigation Engineering (R1641351)	Farm Machinery and Equipments-II (R1641352)	Post Harvest Engineering for Horticulture Produce (R1641353)	Mechanical Measurements and Instrumentation (R1641354)	Elective I : Seed Processing and Storage Engineering (R164135A)/Green House Technologies (R164135B)/Food Processing Plant Design and Layout (R164135C)	Elective II: Watershed Management (R164135D)/Food Packaging Technology (R164135E)/Minor Irrigation and Command area development (R164135F)	

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