



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, MAY - 2024

T I M E T A B L E

TIME : 02.00 PM TO 05.00 PM

Branch	DATE & DAY							
	09-05-2024 (Thursday)	10-05-2024 (Friday)	11-05-2024 (Saturday)	14-05-2024 (Tuesday)	15-05-2024 (Wednesday)	23-05-2024 (Thursday)	24-05-2024 (Friday)	25-05-2024 (Saturday)
Civil Engineering (01)	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 : 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 (R204101Z)	.....	.....
Electrical & Electronics Engineering (02)	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 : 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 to Electrical 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) (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) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) 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)



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Mechanical Engineering (03)	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 : 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) <i>(Common to PE-V & OE-3)</i> / Additive Manufacturing (R204103P) <i>(Common to PE-V & OE-3)</i>



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Electronics & Communication Engineering (04)	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 : 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) / Principles of Communications (R204104T) / Basic Electronics (R204104U) / Data Communications (R204104V) / Digital Logic design (R204104W) / Remote Sensing and GIS (R204104X) / Bio Medical Instrumentation (R204104Y)	Open Elective-IV : IC Applications (R204104S)



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Computer Science & Engineering (05)	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> / Neural Networks and Soft Computing (R204105B) / Ad-hoc and Sensor Networks (R204105C) / Cyber Security & Forensics (R204105D) <i>(Common to CSE, IT)</i>	Professional Elective-IV : Computer Vision (R204105G) <i>(Common to CSE, CSE(AIDS), AIDS, CSD)</i> / MOOCS-NPTEL/SWAYAM (R204105H)	Professional Elective-V : Wireless Network Security (R204105J) / Ethical Hacking (R204105K) <i>(Common to CSE, IT)</i> / MOOCS-NPTEL/SWAYAM (R204105L) / Block Chain Technologies (R204105I) <i>(Common to CSE, IT)</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>	Social Network And Semantic Web (Job Oriented Course) (R204105F) <i>(Common to CSE, PE-IV & CSE(IOTCSIBCT) OE-3)</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>
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>



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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) (Common to PE-III & OE-3)	Engine Management Systems (R204124D) (Common to PE-III & OE-4)
Mining Engineering (26)	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 : 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)



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Agricultural Engineering (35)	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 : 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)
CSE (Artificial Intelligence and Machine Learning) (42)	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) / Soft Computing (R204142B) / Speech Processing (R204142C) / 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) / Big Data Analytics (R204142E) <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3) /</i> NOSQL Databases (R204142F) / Video Analytics (R204142G) / 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) / Object Oriented Analysis and Design (R204142J) / Semantic Web (R204142K) / 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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CSE (Artificial Intelligence) (43)	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) / Soft Computing (R204142B) / Speech Processing (R204142C) / 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) / Big Data Analytics (R204142E) <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3) /</i> NOSQL Databases (R204142F) / Video Analytics (R204142G) / 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) / Object Oriented Analysis and Design (R204142J) / Semantic Web (R204142K) / 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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	09-05-2024 (Thursday)	10-05-2024 (Friday)	11-05-2024 (Saturday)	14-05-2024 (Tuesday)	15-05-2024 (Wednesday)	23-05-2024 (Thursday)	24-05-2024 (Friday)	25-05-2024 (Saturday)
CSE (Data Science) (44)	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 : SnowFlake Cloud Analytics (R204144C) / 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>



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CSE (Artificial Intelligence and Data Science) (45)	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>
CSE (Cyber Security) (46)	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 : Internet Of Things (R204146A) / Information Coding Techniques (R204146D) / Mobile and Wireless Security (R204146E) <i>(Common to CSE(CS), CS)</i>	Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R) / Big Data Analytics (R204142E) <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3)</i> / Cyber Crime Investigation and Digital Forensics (R204146F) <i>(Common to CSE(CS), CS PE-IV, OE-4 & CSE(IOTCSIBCT) PE-IV)</i>	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) <i>(Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT CS))</i> / Cloud Computing (R204146G) <i>(Common to CSE(CS) PE-IV, OE-3 & CSE(IoT) PE-IV)</i>	Distributed Systems (R204146C) <i>(Common to CSE(CS), CS PE-III & OE-4)</i> / Mean Stack Technologies (R204146H) <i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4)</i> / Malware Analysis & Reverse Engineering (R204146I) <i>(Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4)</i> / Machine Learning (R204146Q) <i>(Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)</i>



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CSE (Internet of things and Cyber security including Block chain Technology) (47)	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 : 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) <i>(Common to CSE(CS), CS PE-IV, OE-4 & CSE(IOTCSIBCT) PE-IV)</i>	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) <i>(Common to CSE, PE-IV & CSE(IOTCSIBCT) OE-3)</i> / Data Science (R204146B) <i>(Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT)/ Big Data Analytics for IoT (R204147I)</i> <i>(Common to CSE(IoT) PE-IV & CSE(IOTCSIBCT), CSE(IoT) OE-3)</i>	Mean Stack Technologies (R204146H) <i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4)</i> / Malware Analysis & Reverse Engineering (R204146I) <i>(Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4)</i> / Machine Learning (R204146Q) <i>(Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)</i> / Programming and Interfacing with Microcontrollers (R204147K) <i>(Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4)</i> / Block Chain Technologies (R204147L) <i>(Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4)</i>



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CSE (Internet of Things) (49)	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 : 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) <i>(Common to CSE(IoT) PE-IV & CSE(IOTCSIBCT), CSE(IoT) OE-3) / Cloud Computing (R204146G) (Common to CSE(CS) PE-IV, OE-3 & CSE(IoT) PE-IV)</i>	Mean Stack Technologies (R204146H) (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Machine Learning (R204146Q) <i>(Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), 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)</i>
FOOD ENGINEERING (51)	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 : Advances in Drying and Dehydration (R204151A) / Process Kinetics in Food Engineering (R204151B) / Non-Thermal Operations in Food Processing (R204151C)	Professional Elective-IV : Food Process Equipment Design (R204151D) / Sensors in Food Processing (R204151E) / New Product Development (R204151F)	Professional Elective-V : Entrepreneurship in Food Industries (R204151G) / Food Supply Chain Management (R204151H) / Food Business Management and Economics (R204151I)	Open Elective-III : Food Sanitation, Management and Hygiene (R204151J) / Energy Conservation and Audit (R204151K) / Food Waste Management (R204151L)	Open Elective-IV : Food Refrigeration and Cold Chain (R204151M) / Food Plant Operations and Maintenance (R204151N) / ICT Applications in Food Processing (R204151O) / SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) (R204151P)



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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) <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 : Internet Of Things (R204146A) / Information Coding Techniques (R204146D) / Mobile and Wireless Security (R204146E) <i>(Common to CSE(CS), CS)</i>	Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R) / Big Data Analytics (R204142E) <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3)</i> / Cyber Crime Investigation and Digital Forensics (R204146F) <i>(Common to CSE(CS), CS PE-IV, OE-4 & CSE(IOTCSIBCT) PE-IV)</i>	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) <i>(Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS)</i> / Cloud Computing (R204146G) <i>(Common to CSE(CS) PE-IV, OE-3 & CSE(IoT) PE-IV)</i>	Distributed Systems (R204146C) <i>(Common to CSE(CS), CS PE-III & OE-4)</i> / Mean Stack Technologies (R204146H) <i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4)</i> / Malware Analysis & Reverse Engineering (R204146I) <i>(Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4)</i> / Machine Learning (R204146Q) <i>(Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)</i>
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	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) / Soft Computing (R204142B) / Speech Processing (R204142C) / 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) / Big Data Analytics (R204142E) <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3)</i> / NOSQL Databases (R204142F) / Video Analytics (R204142G) / 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) / Object Oriented Analysis and Design (R204142J) / Semantic Web (R204142K) / 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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	09-05-2024 (Thursday)	10-05-2024 (Friday)	11-05-2024 (Saturday)	14-05-2024 (Tuesday)	15-05-2024 (Wednesday)	23-05-2024 (Thursday)	24-05-2024 (Friday)	25-05-2024 (Saturday)
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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Date: 26-04-2024


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.TECH - I SEMESTER (R19) ADVANCED SUPPLEMENTARY EXAMINATIONS, MAY-2024

T I M E T A B L E

TIME : 02.00 PM TO 05.00 PM

Branch	09-05-2024 (Thursday)	10-05-2024 (Friday)	11-05-2024 (Saturday)	14-05-2024 (Tuesday)	15-05-2024 (Wednesday)	23-05-2024 (Thursday)
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)/ EmbeddedSystems (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)



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IV B.TECH - I SEMESTER (R19) ADVANCED SUPPLEMENTARY EXAMINATIONS, MAY-2024

TIME TABLE

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Branch	09-05-2024 (Thursday)	10-05-2024 (Friday)	11-05-2024 (Saturday)	14-05-2024 (Tuesday)	15-05-2024 (Wednesday)	23-05-2024 (Thursday)
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)
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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IV B.TECH - I SEMESTER (R16) ADVANCED SUPPLEMENTARY EXAMINATIONS, MAY - 2024

T I M E T A B L E

TIME : 02.00 PM TO 05.00 PM

Branch	09-05-2024 (Thursday)	10-05-2024 (Friday)	11-05-2024 (Saturday)	14-05-2024 (Tuesday)	15-05-2024 (Wednesday)	23-05-2024 (Thursday)	24-05-2024 (Friday)
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	....
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)	....
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)



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IV B.TECH - I SEMESTER (R16) ADVANCED SUPPLEMENTARY EXAMINATIONS, MAY - 2024

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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)	....
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)



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IV B.TECH - I SEMESTER (R16) ADVANCED SUPPLEMENTARY EXAMINATIONS, MAY - 2024

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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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