



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
UNIVERSITY EXAMINATION CENTER, KAKINADA

**IV B.TECH - I SEMESTER (R20) REGULAR/SUPPLEMENTARY EXAMINATIONS, DECEMBER-2024**

**TIME TABLE**

TIME : 10.00 AM TO 01.00 PM

Branch	DATE & DAY								
	03-12-2024 (Tuesday)	05-12-2024 (Thursday)	07-12-2024 (Saturday)	09-12-2024 (Monday)	11-12-2024 (Wednesday)	13-12-2024 (Friday)	16-12-2024 (Monday)	18-12-2024 (Wednesday)	20-12-2024 (Friday)
<b>Civil Engineering (01)</b>	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>	<b>Professional Elective-III</b> : Advanced Structural Engineering (R204101A)/ Bridge Engineering (R204101B)/ Structural Dynamics (R204101C)/ Urban Transportation Planning (R204101D)	<b>Professional Elective-IV</b> : Ground Improvement Techniques (R204101E)/ Geo-Spatial Technologies (R204101F)/ Disaster Management & Mitigation (R204101G)/ Soil dynamics & Machine Foundations (R204101H)	<b>Professional Elective-V</b> : Design & Drawing of Irrigation Structures (R204101I)/ Earth & Rock fill Dams (R204101J)/ Urban Hydrology (R204101K)/ SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) (R204101L)	<b>Open Elective-III</b> : Strength of Materials (R204101M)/ Fluid Mechanics (R204101N)/ Surveying and Geomatics (R204101O)/ Highway Engineering (R204101P)/ Safety Engineering (R204101Q)/ Environmental Management (R204101R)/ Urban Planning (R204101S)	<b>Open Elective-IV</b> : 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)	.....	.....	.....



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<b>Electrical &amp; Electronics Engineering (02)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>Professional Elective-III</b> : Digital Signal Processing <b>(R204102A)/</b> Renewable and Distributed Energy Technologies <b>(R204102B)/</b> Flexible Alternating Current Transmission Systems <b>(R204102C)/</b> Power Systems Deregulation <b>(R204102D)/</b> Data Base Management Systems <b>(R204102E)</b>	<b>Professional Elective-IV</b> : Hybrid Electric Vehicles <b>(R204102F)/</b> High Voltage Engineering <b>(R204102G)/</b> Programmable Logic Controllers and Applications <b>(R204102H)</b>	<b>Professional Elective-V</b> : Power System Operation and Control <b>(R204102I)/</b> Switched Mode Power Conversion <b>(R204102J)/</b> AI Applications to Electrical Engineering <b>(R204102K)</b>	<b>Open Elective-III</b> : Concepts of Microprocessors and Microcontrollers <b>(R204102L)/</b> Fundamentals of Electric Vehicles <b>(R204102M)/</b> Concepts of Internet of Things <b>(R204102N)</b>	<b>Open Elective-IV</b> : Concepts of Power System Engineering <b>(R204102O)/</b> Concepts of Smart Grid Technologies <b>(R204102P)</b>	<b>Data Science (R204105R)</b> <i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)</i>	<b>Deep Learning Techniques (R204105E)</b> <i>(Common to EEE, CSE, IT, PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/</i> MEAN Stack Technologies <b>(R204105V)</b> <i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i> <b>Cloud Computing with AWS (R204105W)</b> <i>(Common to EEE PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i>	.....



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<b>Mechanical Engineering (03)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>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)</b>	<b>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)</b>	<b>Professional Elective-V : Advanced Manufacturing Processes (R204103M)/ Refrigeration &amp; Air-Conditioning (R204103O)/ Non Destructive Evaluation (R204103Q)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103R)</b>	<b>Open Elective-III : Finite Element Methods (R204103S)/ Introduction to Artificial Intelligence &amp; Machine Learning (R204103T)</b>	<b>Open Elective-IV : Optimization Techniques (R204103U)/ Smart Manufacturing (R204103V)/ Safety Engineering (R204103W)/ Operations Management (R204103X)</b>	<b>Mechatronics (R204103N)</b> <i>(Common to PE-V &amp; OE-3)</i>	.....	<b>Additive Manufacturing (R204103P)</b> <i>(Common to PE-V &amp; OE-3)</i>



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<b>Electronics &amp; Communication Engineering (04)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>Professional Elective-III</b> : Optical Communication <b>(R204104A)</b> / Digital Image Processing <b>(R204104B)</b> / Low Power VLSI Design <b>(R204104C)</b>	<b>Professional Elective-IV</b> : Satellite Communications <b>(R204104D)</b> / Soft Computing Techniques <b>(R204104E)</b> / Digital IC Design using CMOS <b>(R204104F)</b>	<b>Professional Elective-V</b> : Radar engineering <b>(R204104G)</b> / Pattern recognition & Machine Learning <b>(R204104H)</b> / Internet of Things <b>(R204104I)</b>	<b>Open Elective-III</b> : Basics of Signals and Systems <b>(R204104J)</b> / Electronic Measurements and Instrumentation <b>(R204104K)</b> / Principles of Signal Processing <b>(R204104L)</b> / Industrial Electronics <b>(R204104M)</b> / Consumer Electronics <b>(R204104N)</b> / Fundamentals of Microprocessors and Microcontrollers <b>(R204104O)</b> / Transducers and Sensors <b>(R204104P)</b> / IOT and Applications <b>(R204104Q)</b>	<b>Open Elective-IV</b> : Soft Computing Techniques <b>(R204104R)</b> / IC Applications <b>(R204104S)</b> / Principles of Communications <b>(R204104T)</b> / Basic Electronics <b>(R204104U)</b> / Data Communications <b>(R204104V)</b> / Digital Logic design <b>(R204104W)</b> / Remote Sensing and GIS <b>(R204104X)</b> / Bio Medical Instrumentation <b>(R204104Y)</b>	.....	.....	.....



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<b>Computer Science &amp; Engineering (05)</b>	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>	<b>Professional Elective-III : Cloud Computing (R204105A)</b> <i>(Common to CSE, IT) / Neural Networks and Soft Computing (R204105B) / Ad-hoc and Sensor Networks (R204105C) / Cyber Security &amp; Forensics (R204105D)</i> <i>(Common to CSE, IT)</i>	<b>Professional Elective-IV : Computer Vision (R204105G)</b> <i>(Common to CSE, CSE(AIDS), AIDS, CSD) / MOOCS-NPTEL/SWAYAM (R204105H)</i>	<b>Professional Elective-V : Wireless Network Security (R204105J) / Ethical Hacking (R204105K)</b> <i>(Common to CSE, IT) / MOOCS-NPTEL/SWAYAM (R204105L) / Block Chain Technologies (R204105I)</i> <i>(Common to CSE, IT)</i>	<b>Open Elective-III : API and Microservices (Job Oriented Course) (R204105M) / AI Tools &amp; Techniques (R204105N) / Image Processing (R204105O) / Information Security (R204105P) / Mobile Application Development (R204105Q) / Cyber Security (R204105S) / Introduction to Internet of Things (R204105T)</b> <i>(Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U) / Block Chain Technologies (R204105X) / Introduction to Machine Learning (R204105Z) / Machine Learning with Python (R2041051)</b> <i>(Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Social Network And Semantic Web (Job Oriented Course) (R204105F)</b> <i>(Common to CSE, PE-IV &amp; CSE(IOTCSIBCT) OE-3) / Data Science (R204105R)</i> <i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)</i>	<b>Deep Learning Techniques (R204105E)</b> <i>(Common to EEE, CSE, IT, PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W)</i> <i>(Common to EEE PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / Cryptography and Network Security (R204105Y)</i> <i>(Common to CSE(AIML), CSE(AI), AIML, CSD PE-III &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i>	<b>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)</b>



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<b>Information Technology (12)</b>	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>	<b>Professional Elective-III : Cloud Computing (R204105A)</b> <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)	<b>Professional Elective-IV : Advanced Databases (R204112D)</b> / MOOCS-NPTEL/SWAYAM (R204112E) / Social Networks Analysis (R204112C)	<b>Professional Elective-V : M-Commerce (R204112F)</b> / Ethical Hacking (R204105K) <i>(Common to CSE, IT)</i> / MOOCS-NPTEL/SWAYAM (R204112G) / Block Chain Technologies (R204105I) <i>(Common to CSE, IT)</i>	<b>Open Elective-III : AI Tools &amp; Techniques (R204105N)</b> / 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>	<b>Open Elective-IV : Block Chain Technologies (R204105X)</b> / 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>	<b>Data Science (R204105R)</b> <i>(Common to EEE PE-V &amp; 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 &amp; 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 &amp; 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 &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i>	.....



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<b>Automobile Engineering (24)</b>	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>	<b>Professional Elective-III</b> : Automobile HVAC (R204124B)/ Special Purpose Vehicles (R204124C)/ Vehicle Infotronics (R204124E)/ MOOC's/NPTEL (R204124F)	<b>Professional Elective-IV</b> : 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)	<b>Professional Elective-V</b> : 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)	<b>Open Elective-III</b> : Automobile Power train (R204124S)/ IC Engines (R204124T)	<b>Open Elective-IV</b> : Automobile Materials and Manufacturing Techniques (R204124U)/ Automobile Electrical and Electronics (R204124V)	Automobile Safety (R204124A) <i>(Common to PE-III &amp; OE-3)</i>	Engine Management Systems (R204124D) <i>(Common to PE-III &amp; OE-4)</i>	.....
<b>Mining Engineering (26)</b>	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>	<b>Professional Elective-III</b> : Operations Research (R204126A)/ Dimensional Stone Mining (R204126B)/ Advanced Mining Techniques (R204126C)/ Planning of Underground Metal mining techniques (R204126D)	<b>Professional Elective-IV</b> : Mine closure and Reclamation (R204126E)/ Surface Mine Environment (R204126F) / Mineral Economics, Business and Trade (R204126H)	<b>Professional Elective-V</b> : Subsidence Engineering (R204126I)/ Rock Slope Engineering (R204126J)/ Advances in Rock Fragmentation (R204126K)/ Tunneling and Underground Space Technology (R204126L)	<b>Open Elective-III</b> : Mine Waste Management (R204126M)/ Mine Reclamation (R204126N)/ Environmental Impact of Mining (R204126O)	<b>Open Elective-IV</b> : Principles of Mineral Engineering (R204126P)/ Mine Instrumentation (R204126Q)/ Mine Safety & Ergonomics (R204126R)/ Numerical Methods in Mining Engineering (R204126S)	Sustainable Development for Mining (R204126G) <i>(Common to PE-IV &amp; OE-3)</i>	.....	.....



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<b>Agricultural Engineering (35)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>Professional Elective-III</b> : Irrigation and Drainage Engineering <b>(R204135A)/</b> Production Technology of Agricultural Machinery <b>(R204135B)/</b> Food Plant Design and Management <b>(R204135C)</b>	<b>Professional Elective-IV</b> : Design of Soil and Water Conservation and Farm Systems <b>(R204135D)/</b> Food Process Equipment Design <b>(R204135E)/</b> Design of Agricultural Machinery <b>(R204135F)</b>	<b>Professional Elective-V</b> : Micro Irrigation Engineering <b>(R204135G)/</b> Mechatronics in Agricultural Engineering <b>(R204135H)/</b> Dairy and Food Engineering <b>(R204135I)</b>	<b>Open Elective-III</b> : Principles of Soil Science and Agronomy <b>(R204135J)/</b> Farm Power and Tractor Systems <b>(R204135K)/</b> Soil and Water Conservation Engineering <b>(R204135L)/</b> Ground Water Hydrology, Wells and Pumps <b>(R204135M)</b>	<b>Open Elective-IV</b> : Surface Water Hydrology <b>(R204135N)/</b> Post Harvest Engineering of Cereals, Pulses and Oilseeds <b>(R204135O)/</b> Agricultural Process Engineering <b>(R204135P)</b>	.....	.....	.....





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<b>CSE (Artificial Intelligence and Machine Learning) (42)</b>	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>	<b>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)</b>	<b>Professional Elective- IV : Robotic Process Automation (R204142D)/ Big Data Analytics (R204142E) (Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; OE-3) / NOSQL Databases (R204142F)/ Video Analytics (R204142G)/ Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</b>	<b>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)</b>	<b>Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools &amp; 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> </b>	<b>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> </b>	<b>Data Science (R204105R) <i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)</i></b>	<b>Deep Learning Techniques (R204105E) <i>(Common to EEE, CSE, IT, PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE- 4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) <i>(Common to EEE PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) <i>(Common to CSE(AIML), CSE(AI), AIML, CSD PE-III &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i></i></i></b>	.....



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**TIME TABLE**

TIME : 10.00 AM TO 01.00 PM

Branch	DATE & DAY								
	03-12-2024 (Tuesday)	05-12-2024 (Thursday)	07-12-2024 (Saturday)	09-12-2024 (Monday)	11-12-2024 (Wednesday)	13-12-2024 (Friday)	16-12-2024 (Monday)	18-12-2024 (Wednesday)	20-12-2024 (Friday)
<b>CSE (Artificial Intelligence) (43)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>Professional Elective-III : Reinforcement Learning (R204142A)/ Soft Computing (R204142B)/ Speech Processing (R204142C)/ Block Chain Technologies (R204142P)</b> <i>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Professional Elective-IV : Robotic Process Automation (R204142D)/ Big Data Analytics (R204142E)</b> <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; OE-3) / NOSQL Databases (R204142F)/ Video Analytics (R204142G)/ Cloud Computing (R204142O)</i> <i>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Object Oriented Analysis and Design (R204142J)/ Semantic Web (R204142K) / Social Networks Analysis (R204142Q)</b> <i>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools &amp; Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T)</b> <i>(Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051)</b> <i>(Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Data Science (R204105R)</b> <i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)</i>	<b>Deep Learning Techniques (R204105E)</b> <i>(Common to EEE, CSE, IT, PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) <i>(Common to EEE PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y)</i> <i>(Common to CSE(AIML), CSE(AI), AIML, CSD PE-III &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i> </i>	.....



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



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



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



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<b>CSE (Internet of things and Cyber security including Block chain Technology) (47)</b>	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>	<b>Professional Elective-III</b> : Software Testing Methodologies (R204147A)/ NoSQL Databases (R204147B)/ Privacy and Security in IOT (R204147C)/ Cloud Computing (R204147Q)	<b>Professional Elective-IV</b> : 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 &amp; CSE(IOTCSIBCT) PE-IV)</i>	<b>Professional Elective-V</b> : Deep Learning (R204147F)/ Quantum Computing (R204147G)/ Dev Ops (R204147H)/ Mobile and Wireless Security (R204147P)	<b>Open Elective-III</b> : Sensors and Actuator Devices for IoT (R204147J)/ Cryptography and Network Security (R204146O)	<b>Open Elective-IV</b> : 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 &amp; CSE(IOTCSIBCT) OE-3)</i> / Data Science (R204146B) <i>(Common to PE-III &amp; OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) / Big Data Analytics for IoT (R204147I) (Common to CSE(IoT) PE-IV &amp; CSE(IOTCSIBCT), CSE(IoT) OE-3)</i>	Mean Stack Technologies (R204146H) <i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(IoT) OE-4)</i> / Malware Analysis & Reverse Engineering (R204146I) <i>(Common to CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(CS) OE-4)</i> /Machine Learning (R204146Q) <i>(Common to CSE(IOTCSIBCT) PE-V &amp; CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)</i> / Programming and Interfacing with Microcontrollers (R204147K) <i>(Common to CSE(IoT) PE-III &amp; CSE(IOTCSIBCT), CSE(IoT) OE-4)</i> /	.....



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



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<b>FOOD ENGINEERING (51)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>Professional Elective-III</b> : Advances in Drying and Dehydration <b>(R204151A)</b> / Process Kinetics in Food Engineering <b>(R204151B)</b> / Non-Thermal Operations in Food Processing <b>(R204151C)</b>	<b>Professional Elective-IV</b> : Food Process Equipment Design <b>(R204151D)</b> / Sensors in Food Processing <b>(R204151E)</b> / New Product Development <b>(R204151F)</b>	<b>Professional Elective-V</b> : Entrepreneurship in Food Industries <b>(R204151G)</b> / Food Supply Chain Management <b>(R204151H)</b> / Food Business Management and Economics <b>(R204151I)</b>	<b>Open Elective-III</b> : Food Sanitation, Management and Hygiene <b>(R204151J)</b> / Energy Conservation and Audit <b>(R204151K)</b> / Food Waste Management <b>(R204151L)</b>	<b>Open Elective-IV</b> : Food Refrigeration and Cold Chain <b>(R204151M)</b> / Food Plant Operations and Maintenance <b>(R204151N)</b> / ICT Applications in Food Processing <b>(R204151O)</b> / SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) <b>(R204151P)</b>	.....	.....	.....





**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
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**IV B.TECH - I SEMESTER (R20) REGULAR/SUPPLEMENTARY EXAMINATIONS, DECEMBER-2024**

**TIME TABLE**

TIME : 10.00 AM TO 01.00 PM

Branch	DATE & DAY								
	03-12-2024 (Tuesday)	05-12-2024 (Thursday)	07-12-2024 (Saturday)	09-12-2024 (Monday)	11-12-2024 (Wednesday)	13-12-2024 (Friday)	16-12-2024 (Monday)	18-12-2024 (Wednesday)	20-12-2024 (Friday)
<b>ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)</b>	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>	<b>Professional Elective-III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P)</b> <i>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Professional Elective-IV : Computer Vision (R204105G)</b> <i>(Common to CSE, CSE(AIDS), AIDS, CSD)/ Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O)</i> <i>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q)</b> <i>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools &amp; Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T)</b> <i>(Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051)</b> <i>(Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)</i>	<b>Data Science (R204105R)</b> <i>(Common to EEE PE-V &amp; 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 &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) <i>(Common to EEE PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y)</i> <i>(Common to CSE(AIML), CSE(AI), AIML, CSD PE-III &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i> </i>	.....



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<b>PHARMACEUTICAL ENGINEERING (55)</b>	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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<b>CYBER SECURITY (59)</b>	Universal Human Values-2: Understanding Harmony <b>(R2041011)</b> <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>	<b>Professional Elective-III : Internet Of Things (R204146A)/</b> Information Coding Techniques <b>(R204146D) / Mobile and Wireless Security (R204146E)</b> <i>(Common to CSE(CS), CS)</i>	<b>Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R) / Big Data Analytics (R204142E)</b> <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; OE-3) / Cyber Crime Investigation and Digital Forensics (R204146F)</i> <i>(Common to CSE(CS), CS PE-IV, OE-4 &amp; CSE(IOTCSIBCT) PE-IV)</i>	<b>Professional Elective-V : Cyber Laws and Security Policies (R204146J)/</b> Intrusion Detection and Prevention System <b>(R204146K)/</b> Data Privacy <b>(R204146L)/</b> Ethical Hacking <b>(R204146M)</b>	<b>Open Elective-III :</b> DevOps (Job Oriented Course) <b>(R204146N)/</b> Cryptography and Network Security <b>(R204146O)</b>	<b>Open Elective-IV :</b> Multimedia And Rich Internet Applications (Job Oriented Course) <b>(R204146P)</b>	Data Science <b>(R204146B)</b> <i>(Common to PE-III &amp; OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS)</i>	Distributed Systems <b>(R204146C)</b> <i>(Common to CSE(CS), CS PE-III &amp; OE-4) /</i> Mean Stack Technologies <b>(R204146H)</b> <i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(IoT) OE-4) /</i> Malware Analysis & Reverse Engineering <b>(R204146I)</b> <i>(Common to CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(CS) OE-4) /</i> Machine Learning <b>(R204146Q)</b> <i>(Common to CSE(IOTCSIBCT) PE-V &amp; CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)</i>	Cloud Computing <b>(R204146G)</b> <i>(Common to CSE(CS) PE-IV, OE-3 &amp; CSE(IoT) PE-IV)</i>



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



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

**NOTE:**

- i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.
- ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
- iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY.

DATE: 19-11-2024

  
 Controller of Examinations (UG)