



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH - I SEMESTER (R20) I MID & ONLINE QUIZ EXAMINATIONS, SEPTEMBER - 2023

### T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

| Branch   | DATE & DAY   |  |   |   |   |   |  |   |
|--|--|--|---|---|---|---|--|---|
|  | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)  | 21-09-2023<br>(Thursday)  | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)  | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>Civil Engineering (01)</b>                        | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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 <b>(R204101A)</b> / Bridge Engineering <b>(R204101B)</b> / Structural Dynamics <b>(R204101C)</b> / Urban Transportation Planning <b>(R204101D)</b>  | <b>Professional Elective-IV</b> : Ground Improvement Techniques <b>(R204101E)</b> / Geo-Spatial Technologies <b>(R204101F)</b> / Disaster Management & Mitigation <b>(R204101G)</b> / Soil dynamics & Machine Foundations <b>(R204101H)</b> | <b>Professional Elective-V</b> : Design & Drawing of Irrigation Structures <b>(R204101I)</b> / Earth & Rock fill Dams <b>(R204101J)</b> / Urban Hydrology <b>(R204101K)</b> / SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) <b>(R204101L)</b> | <b>Open Elective-III</b> : Strength of Materials <b>(R204101M)</b> / Fluid Mechanics <b>(R204101N)</b> / Surveying and Geomatics <b>(R204101O)</b> / Highway Engineering <b>(R204101P)</b> / Safety Engineering <b>(R204101Q)</b> / Environmental Management <b>(R204101R)</b> / Urban Planning <b>(R204101S)</b> | <b>Open Elective-IV</b> : Elements of Civil Engineering <b>(R204101T)</b> / Environmental Engineering <b>(R204101U)</b> / Disaster Management <b>(R204101V)</b> / Water Resource Engineering <b>(R204101W)</b> / Hydraulics and Hydraulic Machinery <b>(R204101X)</b> / Green Technologies <b>(R204101Y)</b> / Remote Sensing and GIS <b>(R204101Z)</b> | .....  | .....   |
| <b>Electrical &amp; Electronics Engineering (02)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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>  | Data Science <b>(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> <i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i> 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> |



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**TIME TABLE**

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|------------------------------------|--|---|--|--|--|--|---|---------------------------|
|                                    | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)   | 21-09-2023<br>(Thursday)   | 22-09-2023<br>(Friday)   | 23-09-2023<br>(Saturday)   | 25-09-2023<br>(Monday)   | 26-09-2023<br>(Tuesday)   | 27-09-2023<br>(Wednesday) |
| <b>Mechanical Engineering (03)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Mechanical Vibrations <b>(R204103A)</b> / Operations Research <b>(R204103B)</b> / Unconventional Machining Processes <b>(R204103C)</b> / Computational Fluid Dynamics <b>(R204103D)</b> / Gas Dynamics and Jet Propulsion <b>(R204103E)</b> / MOOCs (NPTEL/Swayam) Course (12 Week duration) <b>(R204103F)</b> | <b>Professional Elective-IV</b> : Automation in Manufacturing <b>(R204103G)</b> / Power Plant Engineering <b>(R204103H)</b> / Big Data Analytics <b>(R204103I)</b> / Production Planning and Control <b>(R204103J)</b> / Condition Monitoring <b>(R204103K)</b> / MOOCs (NPTEL/Swayam) Course (12 Week duration) <b>(R204103L)</b> | <b>Professional Elective-V</b> : Advanced Manufacturing Processes <b>(R204103M)</b> / Refrigeration & Air-Conditioning <b>(R204103O)</b> / Non Destructive Evaluation <b>(R204103Q)</b> / MOOCs (NPTEL/Swayam) Course (12 Week duration) <b>(R204103R)</b> | <b>Open Elective-III</b> : Finite Element Methods <b>(R204103S)</b> / Introduction to Artificial Intelligence & Machine Learning <b>(R204103T)</b> | <b>Open Elective-IV</b> : Optimization Techniques <b>(R204103U)</b> / Smart Manufacturing <b>(R204103V)</b> / Safety Engineering <b>(R204103W)</b> / Operations Management <b>(R204103X)</b> | Mechatronics <b>(R204103N)</b> <i>(Common to PE-V &amp; OE-3)</i> / Additive Manufacturing <b>(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><br><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 <b>(R2041011)</b><br><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> : Cloud Computing <b>(R204105A)</b> <i>(Common to CSE, IT)</i> / Neural Networks and Soft Computing <b>(R204105B)</b> / Ad-hoc and Sensor Networks <b>(R204105C)</b> / Cyber Security & Forensics <b>(R204105D)</b> <i>(Common to CSE, IT)</i> | <b>Professional Elective-IV</b> : Computer Vision <b>(R204105G)</b> <i>(Common to CSE, CSE(AIDS), AIDS, CSD)</i> / MOOCS-NPTEL/SWAYAM <b>(R204105H)</b>    | <b>Professional Elective-V</b> : Wireless Network Security <b>(R204105J)</b> / Ethical Hacking <b>(R204105K)</b> <i>(Common to CSE, IT)</i> / MOOCS-NPTEL/SWAYAM <b>(R204105L)</b> / Block Chain Technologies <b>(R204105I)</b> <i>(Common to CSE, IT)</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> | Social Network And Semantic Web (Job Oriented Course) <b>(R204105F)</b> <i>(Common to CSE, PE-IV &amp; CSE(IOTCSIBCT) OE-3)</i> / Data Science <b>(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> |
| <b>Information Technology (12)</b>             | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Cloud Computing <b>(R204105A)</b> <i>(Common to CSE, IT)</i> / Cyber Security & Forensics <b>(R204105D)</b> <i>(Common to CSE, IT)</i> / Artificial Neural Networks <b>(R204112A)</b> / Internet of Things (IoT) <b>(R204112B)</b>           | <b>Professional Elective-IV</b> : Advanced Databases <b>(R204112D)</b> / MOOCS-NPTEL/SWAYAM <b>(R204112E)</b> / Social Networks Analysis <b>(R204112C)</b> | <b>Professional Elective-V</b> : M-Commerce <b>(R204112F)</b> / Ethical Hacking <b>(R204105K)</b> <i>(Common to CSE, IT)</i> / MOOCS-NPTEL/SWAYAM <b>(R204112G)</b> / Block Chain Technologies <b>(R204105I)</b> <i>(Common to CSE, IT)</i>                | <b>Open Elective-III</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> : 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>  | Data Science <b>(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>Automobile Engineering (24)</b> | Universal Human Values-2: Understanding Harmony (R2041011)<br><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><br>: 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) (Common to PE-III & OE-3)                 | Engine Management Systems (R204124D) (Common to PE-III & OE-4) |
| <b>Mining Engineering (26)</b>     | Universal Human Values-2: Understanding Harmony (R2041011)<br><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><br>: 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) (Common to PE-IV & OE-3) | .....  |



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| <b>Agricultural Engineering (35)</b>                           | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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>  | .....  | .....   |
| <b>CSE (Artificial Intelligence and Machine Learning) (42)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(R204142A)</b> / Soft Computing <b>(R204142B)</b> / Speech Processing <b>(R204142C)</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</b> : Robotic Process Automation <b>(R204142D)</b> / NOSQL Databases <b>(R204142F)</b> / Video Analytics <b>(R204142G)</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> / Object Oriented Analysis and Design <b>(R204142J)</b> / Semantic Web <b>(R204142K)</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> | Data Science <b>(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> / Big Data Analytics <b>(R204142E)</b> <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; 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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**TIME TABLE**

TIME : 10.00 AM TO 12.00 NOON

| Branch  | DATE & DAY   |  |   |   |   |  |  |   |
|---|--|--|---|---|---|--|--|---|
|   | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)  | 21-09-2023<br>(Thursday)  | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)   | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>CSE<br/>(Artificial<br/>Intelligence)<br/>(43)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(R204142A)</b> / Soft Computing <b>(R204142B)</b> / Speech Processing <b>(R204142C)</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</b> : Robotic Process Automation <b>(R204142D)</b> / NOSQL Databases <b>(R204142F)</b> / Video Analytics <b>(R204142G)</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> / Object Oriented Analysis and Design <b>(R204142J)</b> / Semantic Web <b>(R204142K)</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> | Data Science <b>(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> / Big Data Analytics <b>(R204142E)</b> <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; 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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**TIME TABLE**

TIME : 10.00 AM TO 12.00 NOON

| Branch                                     | DATE & DAY   |   |  |   |   |  |  |   |
|--|--|---|--|---|---|--|--|---|
|  | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)   | 21-09-2023<br>(Thursday)   | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)   | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>CSE<br/>(Data<br/>Science)<br/>(44)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(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</b> : SnowFlake Cloud Analytics <b>(R204144C)</b> / 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> | Data Science <b>(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<br/>(Artificial<br/>Intelligence<br/>and Data<br/>Science)<br/>(45)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(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</b> : Computer Vision <b>(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> | Data Science <b>(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<br/>(Cyber<br/>Security)<br/>(46)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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><br>: Internet Of Things <b>(R204146A)/</b><br>Information Coding Techniques <b>(R204146D) /</b><br>Mobile and Wireless Security <b>(R204146E)</b><br><i>(Common to CSE(CS), CS)</i> | <b>Professional Elective-IV</b> : Ad-hoc and Sensor Networks <b>(R204146R)</b> | <b>Professional Elective-V</b> : Cyber Laws and Security Policies <b>(R204146J)/</b><br>Intrusion Detection and Prevention System <b>(R204146K)/</b><br>Data Privacy <b>(R204146L)/</b> Ethical Hacking <b>(R204146M)</b> | <b>Open Elective-III</b> : DevOps (Job Oriented Course) <b>(R204146N)/</b><br>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> Cloud Computing <b>(R204146G)</b> <i>(Common to CSE(CS) PE-IV, OE-3 &amp; CSE(IoT) PE-IV) /</i> Big Data Analytics <b>(R204142E)</b> <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; OE-3)</i> | Distributed Systems <b>(R204146C)</b> <i>(Common to CSE(CS), CS PE-III &amp; OE-4) /</i> Cyber Crime Investigation and Digital Forensics <b>(R204146F)</b> <i>(Common to CSE(CS), CS PE-IV, OE-4 &amp; CSE(IOTCSIBCT) PE-IV) /</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> |



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



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## IV B.TECH - I SEMESTER (R20) I MID & ONLINE QUIZ EXAMINATIONS, SEPTEMBER - 2023

### T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

| Branch                                   | DATE & DAY   |   |  |  |  |   |   |  |
|--|--|---|--|--|--|---|---|--|
|  | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)   | 21-09-2023<br>(Thursday)   | 22-09-2023<br>(Friday)   | 23-09-2023<br>(Saturday)   | 25-09-2023<br>(Monday)  | 26-09-2023<br>(Tuesday)   | 27-09-2023<br>(Wednesday)  |
| <b>CSE<br/>(Internet of Things) (49)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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><br>: Mobile Computing <b>(R204149A)</b> / No SQL Databases <b>(R204147B)</b> / Privacy and Security in IOT <b>(R204147C)</b>   | <b>Professional Elective-IV</b> : Fog Computing <b>(R204149B)</b>  | <b>Professional Elective-V</b> : Deep Learning <b>(R204147F)</b> / Wearable Computing <b>(R204149C)</b> / Dev Ops <b>(R204147H)</b> / Software Testing Methodologies <b>(R204149I)</b>             | <b>Open Elective-III</b> : Middleware Technologies (Job Oriented Course) <b>(R204149D)</b> / Sensors and Actuator Devices for IoT <b>(R204147J)</b> / Embedded System Design <b>(R204149E)</b> | <b>Open Elective-IV</b> : Multimedia And Rich Internet Applications <b>(R204146P)</b> / Cryptography and Network Security <b>(R204149J)</b>   | Data Science <b>(R204146B)</b> (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) /Big Data Analytics for IoT <b>(R204147I)</b><br><i>(Common to CSE(IoT) PE-IV &amp; CSE(IOTCSIBCT), CSE(IoT) OE-3) / Cloud Computing <b>(R204146G)</b> (Common to CSE(CS) PE-IV, OE-3 &amp; CSE(IoT) PE-IV)</i> | Mean Stack Technologies <b>(R204146H)</b> (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Machine Learning <b>(R204146Q)</b> (Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4) / Programming and Interfacing with Microcontrollers <b>(R204147K)</b> (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) / Block Chain Technologies <b>(R204147L)</b> (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) |
| <b>FOOD ENGINEERING (51)</b>             | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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><br>: 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

UNIVERSITY EXAMINATION CENTER, KAKINADA

## IV B.TECH - I SEMESTER (R20) I MID & ONLINE QUIZ EXAMINATIONS, SEPTEMBER - 2023

### T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

| Branch   | DATE & DAY   |   |   |   |   |  |  |   |
|--|--|---|---|---|---|--|--|---|
|  | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)   | 21-09-2023<br>(Thursday)  | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)   | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(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</b> : Computer Vision <b>(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> | Data Science <b>(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> |
| <b>PHARMACEUTICAL ENGINEERING (55)</b>               | Industrial Pharmacy <b>(R204155A)</b>  | <b>Professional Elective-III</b> : Bio Medical Instrumentation <b>(R204155B)</b> / Pharmaceutical product development <b>(R204155C)</b> / Industrial Process Control <b>(R204155D)</b>  | <b>Professional Elective-IV</b> : Pharmaceutical Packaging Technology <b>(R204155E)</b> / Introduction to Biomaterials and Tissue Engineering <b>(R204155F)</b> / Good Manufacturing Practices <b>(R204155G)</b>  | .....   | <b>Open Elective-III</b> : Robotics <b>(R204155H)</b> / Synthesis And Characterization of Nano Materials <b>(R204155I)</b> / Industrial Psychology and Human Resource Management <b>(R204155J)</b>  | <b>Open Elective-IV</b> : Principles of mechanical measurements <b>(R204155K)</b> / Artificial Intelligence & Machine Learning <b>(R204155L)</b> / Bioinformatics <b>(R204155M)</b>  | .....  | .....   |



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**UNIVERSITY EXAMINATION CENTER, KAKINADA**  
**IV B.TECH - I SEMESTER (R20) I MID & ONLINE QUIZ EXAMINATIONS, SEPTEMBER - 2023**  
**TIME TABLE**

TIME : 10.00 AM TO 12.00 NOON

| Branch                             | DATE & DAY   |  |  |   |   |   |  |   |
|------------------------------------|--|--|--|---|---|---|--|---|
|                                    | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)  | 21-09-2023<br>(Thursday)   | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)  | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>CYBER<br/>SECURITY<br/>(59)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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><br>: Internet Of Things <b>(R204146A)/</b><br>Information Coding Techniques <b>(R204146D) /</b><br>Mobile and Wireless Security <b>(R204146E)</b><br><i>(Common to CSE(CS), CS)</i> | <b>Professional Elective-IV</b> : Ad-hoc and Sensor Networks <b>(R204146R)</b> | <b>Professional Elective-V</b> : Cyber Laws and Security Policies <b>(R204146J)/</b><br>Intrusion Detection and Prevention System <b>(R204146K)/</b><br>Data Privacy <b>(R204146L)/</b> Ethical Hacking <b>(R204146M)</b> | <b>Open Elective-III</b> : DevOps (Job Oriented Course) <b>(R204146N)/</b><br>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> Cloud Computing <b>(R204146G)</b> <i>(Common to CSE(CS) PE-IV, OE-3 &amp; CSE(IoT) PE-IV)</i> | Distributed Systems <b>(R204146C)</b> <i>(Common to CSE(CS), CS PE-III &amp; OE-4) /</i> Cyber Crime Investigation and Digital Forensics <b>(R204146F)</b> <i>(Common to CSE(CS), CS PE-IV, OE-4 &amp; CSE(IOTCSIBCT) PE-IV) /</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> |



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
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**IV B.TECH - I SEMESTER (R20) I MID & ONLINE QUIZ EXAMINATIONS, SEPTEMBER - 2023**  
**TIME TABLE**

TIME : 10.00 AM TO 12.00 NOON

| Branch   | DATE & DAY   |  |   |   |   |  |  |   |
|--|--|--|---|---|---|--|--|---|
|  | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)  | 21-09-2023<br>(Thursday)  | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)   | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(R204142A)</b> / Soft Computing <b>(R204142B)</b> / Speech Processing <b>(R204142C)</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</b> : Robotic Process Automation <b>(R204142D)</b> / NOSQL Databases <b>(R204142F)</b> / Video Analytics <b>(R204142G)</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> / Object Oriented Analysis and Design <b>(R204142J)</b> / Semantic Web <b>(R204142K)</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> | Data Science <b>(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> / Big Data Analytics <b>(R204142E)</b> <i>(Common to CSE(AIML), CSE(AI), AIML, PE-IV &amp; CSE(CS), CS PE-V &amp; 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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**TIME TABLE**

TIME : 10.00 AM TO 12.00 NOON

| Branch                                  | DATE & DAY   |  |  |   |   |  |  |   |
|---|--|--|--|---|---|--|--|---|
|   | 19-09-2023<br>(Tuesday)  | 20-09-2023<br>(Wednesday)  | 21-09-2023<br>(Thursday)   | 22-09-2023<br>(Friday)  | 23-09-2023<br>(Saturday)  | 25-09-2023<br>(Monday)   | 26-09-2023<br>(Tuesday)  | 27-09-2023<br>(Wednesday)   |
| <b>COMPUTER SCIENCE AND DESIGN (62)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br><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> : Reinforcement Learning <b>(R204142A)</b> / Nature Inspired Computing Techniques <b>(R204144A)</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</b> : Robotic Process Automation <b>(R204142D)</b> / Computer Vision <b>(R204105G)</b> <i>(Common to CSE, CSE(AIDS), AIDS, CSD)</i> / 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> | Data Science <b>(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> |

**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: 15-09-2023

Controller of Examinations (UG)