



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

**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

TIME : 10.00 AM TO 01.00 PM

| Branch                        | DATE & DAY                                                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                                              |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                  |                           |                          |                          |
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|                               | 07-04-2025<br>(Monday)                                                                                                                                                                                                            | 08-04-2025<br>(Tuesday)                                                                                                                                                                | 09-04-2025<br>(Wednesday)                                                                                                                                                                                    | 10-04-2025<br>(Thursday)                                                                                                                                                                                           | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                     | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                          | 16-04-2025<br>(Wednesday) | 17-04-2025<br>(Thursday) | 19-04-2025<br>(Saturday) |
| <b>Civil Engineering (01)</b> | Universal Human Values-2: Understanding Harmony (R2041011)<br><i>(Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AI ML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AI ML, 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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|                                                      | 07-04-2025<br>(Monday)                                                                                                                                                                                                                 | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                         | 09-04-2025<br>(Wednesday)                                                                                                                                              | 10-04-2025<br>(Thursday)                                                                                                                                                        | 11-04-2025<br>(Friday)                                                                                                                                                          | 15-04-2025<br>(Tuesday)                                                                                                   | 16-04-2025<br>(Wednesday)                                                                                                                 | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 19-04-2025<br>(Saturday) |
| <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 : Digital Signal Processing (R204102A)/ Renewable and Distributed Energy Technologies (R204102B)/ Flexible Alternating Current Transmission Systems (R204102C)/ Power Systems Deregulation (R204102D)/ Data Base Management Systems (R204102E)</b> | <b>Professional Elective-IV : Hybrid Electric Vehicles (R204102F)/ High Voltage Engineering (R204102G)/ Programmable Logic Controllers and Applications (R204102H)</b> | <b>Professional Elective-V : Power System Operation and Control (R204102I)/ Switched Mode Power Conversion (R204102J)/ AI Applications to Electrical Engineering (R204102K)</b> | <b>Open Elective-III : Concepts of Microprocessors and Microcontrollers (R204102L)/ Fundamentals of Electric Vehicles (R204102M)/ Concepts of Internet of Things (R204102N)</b> | <b>Open Elective-IV : Concepts of Power System Engineering (R204102O)/ Concepts of Smart Grid Technologies (R204102P)</b> | <b>Data Science (R204105R)</b><br><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><br><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)<br/><i>(Common to EEE PE-V &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i><br/><b>Cloud Computing with AWS (R204105W)</b><br/><i>(Common to EEE PE-IV &amp; CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)</i></i> | .....                    |



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| Branch                             | DATE & DAY                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                 |                                                                                                                                         |                                                                                                                                                               |                                                                      |                          |                                                                                |
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|                                    | 07-04-2025<br>(Monday)                                                                                                                                                                                                                 | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                            | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                           | 10-04-2025<br>(Thursday)                                                                                                                                                                                                        | 11-04-2025<br>(Friday)                                                                                                                  | 15-04-2025<br>(Tuesday)                                                                                                                                       | 16-04-2025<br>(Wednesday)                                            | 17-04-2025<br>(Thursday) | 19-04-2025<br>(Saturday)                                                       |
| <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 : 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><br><i>(Common to PE-V &amp; OE-3)</i> | .....                    | <b>Additive Manufacturing (R204103P)</b><br><i>(Common to PE-V &amp; OE-3)</i> |



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| Branch                                                  | DATE & DAY                                                                                                                                                                                                                            |                                                                                                                                            |                                                                                                                                                      |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |                           |                          |                          |
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|                                                         | 07-04-2025<br>(Monday)                                                                                                                                                                                                                | 08-04-2025<br>(Tuesday)                                                                                                                    | 09-04-2025<br>(Wednesday)                                                                                                                            | 10-04-2025<br>(Thursday)                                                                                                                            | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                            | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                        | 16-04-2025<br>(Wednesday) | 17-04-2025<br>(Thursday) | 19-04-2025<br>(Saturday) |
| <b>Electronics &amp; Communication Engineering (04)</b> | Universal Human Values-2:<br>Understanding Harmony<br><b>(R2041011)</b><br>(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) | <b>Professional Elective-III : Optical Communication (R204104A)/ Digital Image Processing (R204104B)/ Low Power VLSI Design (R204104C)</b> | <b>Professional Elective-IV : Satellite Communications (R204104D)/ Soft Computing Techniques (R204104E)/ Digital IC Design using CMOS (R204104F)</b> | <b>Professional Elective-V : Radar engineering (R204104G)/ Pattern recognition &amp; Machine Learning (R204104H)/ Internet of Things (R204104I)</b> | <b>Open Elective-III : Basics of Signals and Systems (R204104J)/ Electronic Measurements and Instrumentation (R204104K)/ Principles of Signal Processing (R204104L)/ Industrial Electronics (R204104M)/ Consumer Electronics (R204104N)/ Fundamentals of Microprocessors and Microcontrollers (R204104O)/ Transducers and Sensors (R204104P)/ IOT and Applications (R204104Q)</b> | <b>Open Elective-IV : Soft Computing Techniques (R204104R)/ IC Applications (R204104S) / Principles of Communications (R204104T)/ Basic Electronics (R204104U)/ Data Communications (R204104V)/ Digital Logic design (R204104W)/ Remote Sensing and GIS (R204104X)/ Bio Medical Instrumentation (R204104Y)</b> | .....                     | .....                    | .....                    |



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|                                                | 07-04-2025<br>(Monday)                                                                                                                                                                                                   | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                               | 09-04-2025<br>(Wednesday)                                                                                                          | 10-04-2025<br>(Thursday)                                                                                                                                                                                         | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                  | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                 | 16-04-2025<br>(Wednesday)                                                                                                                                                                                                                   | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19-04-2025<br>(Saturday)                                                                                                                                                                                                                                                                                                                 |
| <b>Computer Science &amp; Engineering (05)</b> | Universal Human Values-2: Understanding Harmony (R2041011)<br>(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) | <b>Professional Elective-III : Cloud Computing (R204105A)</b> (Common to CSE, IT) / Neural Networks and Soft Computing (R204105B) / Ad-hoc and Sensor Networks (R204105C) / Cyber Security & Forensics (R204105D) (Common to CSE, IT) | <b>Professional Elective-IV : Computer Vision (R204105G)</b> (Common to CSE, CSE(AIDS), AIDS, CSD) / MOOCS-NPTEL/SWAYAM (R204105H) | <b>Professional Elective-V : Wireless Network Security (R204105J) / Ethical Hacking (R204105K)</b> (Common to CSE, IT) / MOOCS-NPTEL/SWAYAM (R204105L) / Block Chain Technologies (R204105I) (Common to CSE, IT) | <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> (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U) / Block Chain Technologies (R204105X) / Introduction to Machine Learning (R204105Z) / Machine Learning with Python (R204105I)</b> (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Social Network And Semantic Web (Job Oriented Course) (R204105F)</b> (Common to CSE, PE-IV & CSE(IOTCSIBCT) OE-3) / Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3) | Deep Learning Techniques (R204105E)<br>(Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) / Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) | Unix and Shell Programming (R204105MF) / Software Engineering (R204105MA) / Matrix Analysis of Structures (R204101HB) / Web Security (R204105HR) / Smart Grid Technologies (R204102HB) / Materials Technology (R204103HE) / Signal Analysis (R204104MD) / Reinforcement Learning (R204142MA) / Medical Image Data Processing (R204105HW) |



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| Branch                             | DATE & DAY                                                                                                                                                                                                                                |                                                                                                                                                                                                                                               |                                                                                                                                       |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                    |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |
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|                                    | 07-04-2025<br>(Monday)                                                                                                                                                                                                                    | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                       | 09-04-2025<br>(Wednesday)                                                                                                             | 10-04-2025<br>(Thursday)                                                                                                                                                                                        | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                            | 16-04-2025<br>(Wednesday)                                                                                                              | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19-04-2025<br>(Saturday) |
| <b>Information Technology (12)</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 : Cloud Computing (R204105A)</b> <i>(Common to CSE, IT) / Cyber Security &amp; Forensics (R204105D)</i> <i>(Common to CSE, IT) / Artificial Neural Networks (R204112A) / Internet of Things (IoT) (R204112B)</i> | <b>Professional Elective-IV : Advanced Databases (R204112D) / MOOCS-NPTEL/SWAYAM (R204112E) / Social Networks Analysis (R204112C)</b> | <b>Professional Elective-V : M-Commerce (R204112F) / Ethical Hacking (R204105K)</b> <i>(Common to CSE, IT) / MOOCS-NPTEL/SWAYAM (R204112G) / Block Chain Technologies (R204105I)</i> <i>(Common to CSE, IT)</i> | <b>Open Elective-III : 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 : 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<br><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) / 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> | .....                    |



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|                                    | 07-04-2025<br>(Monday)                                                                                                                                                                                                   | 08-04-2025<br>(Tuesday)                                                                                                                                                                                   | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                    | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                                               | 11-04-2025<br>(Friday)                                                                                                              | 15-04-2025<br>(Tuesday)                                                                                                                                                                          | 16-04-2025<br>(Wednesday)                                                 | 17-04-2025<br>(Thursday)                                          | 19-04-2025<br>(Saturday) |
| <b>Automobile Engineering (24)</b> | Universal Human Values-2: Understanding Harmony (R2041011)<br>(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) | <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)<br>(Common to PE-III & OE-3)                 | Engine Management Systems (R204124D)<br>(Common to PE-III & OE-4) | .....                    |
| <b>Mining Engineering (26)</b>     | Universal Human Values-2: Understanding Harmony (R2041011)<br>(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) | <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)<br>(Common to PE-IV & OE-3) | .....                                                             | .....                    |



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|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------|--------------------------|
|                                      | 07-04-2025<br>(Monday)                                                                                                                                                                                                          | 08-04-2025<br>(Tuesday)                                                                                                                                                                                  | 09-04-2025<br>(Wednesday)                                                                                                                                                                                | 10-04-2025<br>(Thursday)                                                                                                                                                           | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                | 15-04-2025<br>(Tuesday)                                                                                                                                                                      | 16-04-2025<br>(Wednesday) | 17-04-2025<br>(Thursday) | 19-04-2025<br>(Saturday) |
| <b>Agricultural Engineering (35)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br>(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) | <b>Professional Elective-III : Irrigation and Drainage Engineering (R204135A)/</b> Production Technology of Agricultural Machinery <b>(R204135B)/</b> Food Plant Design and Management <b>(R204135C)</b> | <b>Professional Elective-IV : Design of Soil and Water Conservation and Farm Systems (R204135D)/</b> Food Process Equipment Design <b>(R204135E)/</b> Design of Agricultural Machinery <b>(R204135F)</b> | <b>Professional Elective-V : Micro Irrigation Engineering (R204135G)/</b> Mechatronics in Agricultural Engineering <b>(R204135H)/</b> Dairy and Food Engineering <b>(R204135I)</b> | <b>Open Elective-III : Principles of Soil Science and Agronomy (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 : Surface Water Hydrology (R204135N)/</b> Post Harvest Engineering of Cereals, Pulses and Oilseeds <b>(R204135O)/</b> Agricultural Process Engineering <b>(R204135P)</b> | .....                     | .....                    | .....                    |



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

**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                                                                 | DATE & DAY                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |
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|                                                                                        | 07-04-2025<br>(Monday)                                                                                                                                                                                                                                                              | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                    | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                                                                                                                                        | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                          | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                                                             | 16-04-2025<br>(Wednesday)                                                                                                                                  | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19-04-2025<br>(Saturday) |
| <b>CSE<br/>(Artificial<br/>Intelligence<br/>and<br/>Machine<br/>Learning)<br/>(42)</b> | Universal<br>Human Values-<br>2:<br>Understanding<br>Harmony<br>(R2041011)<br><i>(Common to CE, EEE,<br/>ME, ECE, CSE, IT,<br/>AME, MiE, AgriE,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>CSE(CS),<br/>CSE(IOTCSIBCT),<br/>CSE(IOT), FE,<br/>AIDS, CS, AIML,<br/>CSD)</i> | <b>Professional Elective-<br/>III : Reinforcement<br/>Learning (R204142A)/<br/>Soft Computing<br/>(R204142B)/ Speech<br/>Processing<br/>(R204142C)/ Block<br/>Chain Technologies<br/>(R204142P)</b> <i>(Common to<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i> | <b>Professional Elective-<br/>IV : Robotic Process<br/>Automation<br/>(R204142D)/ Big<br/>Data Analytics<br/>(R204142E)</b> <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>AIML, PE-IV &amp; CSE(CS),<br/>CS PE-V &amp; OE-3) /<br/>NOSQL Databases<br/>(R204142F)/ Video<br/>Analytics<br/>(R204142G)/ Cloud<br/>Computing<br/>(R204142O) <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i></i> | <b>Professional<br/>Elective-V :<br/>Recommender<br/>Systems<br/>(R204142H)/ AI<br/>Chatbots<br/>(R204142I)/ Object<br/>Oriented Analysis<br/>and Design<br/>(R204142J)/<br/>Semantic Web<br/>(R204142K) / Social<br/>Networks Analysis<br/>(R204142Q)</b> <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD)</i> | <b>Open Elective-III : API<br/>and Microservices (Job<br/>Oriented Course)<br/>(R204105M)/ AI Tools &amp;<br/>Techniques (R204105N)/<br/>Image Processing<br/>(R204105O)/ Information<br/>Security (R204105P)/<br/>Mobile Application<br/>Development<br/>(R204105Q)/ Cyber<br/>Security (R204105S)/<br/>Introduction to Internet of<br/>Things (R204105T)</b> <i>(Common to OE-III as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i> | <b>Open Elective-IV :<br/>Secure Coding Techniques<br/>(Job Oriented Course)<br/>(R204105U)/ Block Chain<br/>Technologies (R204105X)/<br/>Introduction to Machine<br/>Learning (R204105Z)/<br/>Machine Learning with<br/>Python (R2041051)</b> <i>(Common to OE-IV as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i> | <b>Data Science<br/>(R204105R)</b> <i>(Common to EEE PE-V &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML,<br/>CSD OE-3)</i> | Deep Learning<br>Techniques<br>(R204105E)<br><i>(Common to EEE, CSE,<br/>IT, PE-IV &amp; CSE, IT,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD OE-<br/>4)/ MEAN Stack<br/>Technologies<br/>(R204105V) /<br/>Cloud Computing<br/>with AWS<br/>(R204105W) <i>(Common to EEE PE-IV<br/>&amp; CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)/<br/>Cryptography and<br/>Network Security<br/>(R204105Y)</i> <i>(Common to<br/>CSE(AIML), CSE(AI),<br/>AIML, CSD PE-III &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)</i></i> | .....                    |



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

**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                                | DATE & DAY                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |
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|                                                       | 07-04-2025<br>(Monday)                                                                                                                                                                                                                                                              | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                    | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                                                                                                                                        | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                          | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                                                             | 16-04-2025<br>(Wednesday)                                                                                                                                  | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19-04-2025<br>(Saturday) |
| <b>CSE<br/>(Artificial<br/>Intelligence)<br/>(43)</b> | Universal<br>Human Values-<br>2:<br>Understanding<br>Harmony<br>(R2041011)<br><i>(Common to CE, EEE,<br/>ME, ECE, CSE, IT,<br/>AME, MiE, AgriE,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>CSE(CS),<br/>CSE(IOTCSIBCT),<br/>CSE(IOT), FE,<br/>AIDS, CS, AIML,<br/>CSD)</i> | <b>Professional Elective-<br/>III : Reinforcement<br/>Learning (R204142A)/<br/>Soft Computing<br/>(R204142B)/ Speech<br/>Processing<br/>(R204142C)/ Block<br/>Chain Technologies<br/>(R204142P)</b> <i>(Common to<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i> | <b>Professional Elective-<br/>IV : Robotic Process<br/>Automation<br/>(R204142D)/ Big<br/>Data Analytics<br/>(R204142E)</b> <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>AIML, PE-IV &amp; CSE(CS),<br/>CS PE-V &amp; OE-3) /<br/>NOSQL Databases<br/>(R204142F)/ Video<br/>Analytics<br/>(R204142G)/ Cloud<br/>Computing<br/>(R204142O) <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i></i> | <b>Professional<br/>Elective-V :<br/>Recommender<br/>Systems<br/>(R204142H)/ AI<br/>Chatbots<br/>(R204142I)/ Object<br/>Oriented Analysis<br/>and Design<br/>(R204142J)/<br/>Semantic Web<br/>(R204142K) / Social<br/>Networks Analysis<br/>(R204142Q)</b> <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD)</i> | <b>Open Elective-III : API<br/>and Microservices (Job<br/>Oriented Course)<br/>(R204105M)/ AI Tools &amp;<br/>Techniques (R204105N)/<br/>Image Processing<br/>(R204105O)/ Information<br/>Security (R204105P)/<br/>Mobile Application<br/>Development<br/>(R204105Q)/ Cyber<br/>Security (R204105S)/<br/>Introduction to Internet of<br/>Things (R204105T)</b> <i>(Common to OE-III as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i> | <b>Open Elective-IV :<br/>Secure Coding Techniques<br/>(Job Oriented Course)<br/>(R204105U)/ Block Chain<br/>Technologies (R204105X)/<br/>Introduction to Machine<br/>Learning (R204105Z)/<br/>Machine Learning with<br/>Python (R2041051)</b> <i>(Common to OE-IV as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i> | <b>Data Science<br/>(R204105R)</b> <i>(Common to EEE PE-V &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML,<br/>CSD OE-3)</i> | Deep Learning<br>Techniques<br>(R204105E)<br><i>(Common to EEE, CSE,<br/>IT, PE-IV &amp; CSE, IT,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD OE-<br/>4)/ MEAN Stack<br/>Technologies<br/>(R204105V) /<br/>Cloud Computing<br/>with AWS<br/>(R204105W) <i>(Common to EEE PE-IV<br/>&amp; CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)/<br/>Cryptography and<br/>Network Security<br/>(R204105Y)</i> <i>(Common to<br/>CSE(AIML), CSE(AI),<br/>AIML, CSD PE-III &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)</i></i> | .....                    |



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
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**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                     | DATE & DAY                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                            | 07-04-2025<br>(Monday)                                                                                                                                                                                                                                                              | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                            | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                       | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                   | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                                                                 | 16-04-2025<br>(Wednesday)                                                                                                                                      | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 19-04-2025<br>(Saturday) |
| <b>CSE<br/>(Data<br/>Science)<br/>(44)</b> | Universal<br>Human Values-<br>2:<br>Understanding<br>Harmony<br>(R2041011)<br><i>(Common to CE, EEE,<br/>ME, ECE, CSE, IT,<br/>AME, MiE, AgriE,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>CSE(CS),<br/>CSE(IOTCSIBCT),<br/>CSE(IOT), FE,<br/>AIDS, CS, AIML,<br/>CSD)</i> | <b>Professional Elective-<br/>III : Reinforcement<br/>Learning (R204142A)/</b><br>Nature Inspired<br>Computing Techniques<br>(R204144A)/ Social<br>Media Analytics<br>(R204144B)/ Block<br>Chain Technologies<br>(R204142P) <i>(Common to<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i> | <b>Professional Elective-<br/>IV : SnowFlake<br/>Cloud Analytics<br/>(R204144C)/</b><br>Information Retrieval<br>Systems (R204144D)/<br>NOSQL Databases<br>(R204142F) / Cloud<br>Computing<br>(R204142O) <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i> | <b>Professional<br/>Elective-V :<br/>Recommender<br/>Systems<br/>(R204142H)/ AI<br/>Chatbots<br/>(R204142I)/ Data<br/>Visualization<br/>(R204144E)/ Social<br/>Networks Analysis<br/>(R204142Q) <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD)</i></b> | <b>Open Elective-III : API<br/>and Microservices (Job<br/>Oriented Course)<br/>(R204105M)/ AI Tools &amp;<br/>Techniques (R204105N)/<br/>Image Processing<br/>(R204105O)/ Information<br/>Security (R204105P)/<br/>Mobile Application<br/>Development<br/>(R204105Q)/ Cyber<br/>Security (R204105S)/<br/>Introduction to Internet of<br/>Things (R204105T)<br/><i>(Common to OE-III as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i></b> | <b>Open Elective-IV :<br/>Secure Coding Techniques<br/>(Job Oriented Course)<br/>(R204105U)/ Block Chain<br/>Technologies (R204105X)/<br/>Introduction to Machine<br/>Learning (R204105Z)/<br/>Machine Learning with<br/>Python (R2041051)<br/><i>(Common to OE-IV as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i></b> | <b>Data Science<br/>(R204105R)<br/><i>(Common to EEE PE-V &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML,<br/>CSD OE-3)</i></b> | Deep Learning<br>Techniques<br>(R204105E)<br><i>(Common to EEE, CSE,<br/>IT, PE-IV &amp; CSE, IT,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD OE-<br/>4)/ MEAN Stack<br/>Technologies<br/>(R204105V) /<br/>Cloud Computing<br/>with AWS<br/>(R204105W)<br/><i>(Common to EEE PE-IV<br/>&amp; CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)/<br/>Cryptography and<br/>Network Security<br/>(R204105Y)<br/><i>(Common to<br/>CSE(AIML), CSE(AI),<br/>AIML, CSD PE-III &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)</i></i></i> | .....                    |



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
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**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                                                         | DATE & DAY                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |
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|                                                                                | 07-04-2025<br>(Monday)                                                                                                                                                                                                                                                              | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                            | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                                             | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                   | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                                                            | 16-04-2025<br>(Wednesday)                                                                                                                                     | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19-04-2025<br>(Saturday) |
| <b>CSE<br/>(Artificial<br/>Intelligence<br/>and Data<br/>Science)<br/>(45)</b> | Universal<br>Human Values-<br>2:<br>Understanding<br>Harmony<br>(R2041011)<br><i>(Common to CE, EEE,<br/>ME, ECE, CSE, IT,<br/>AME, MiE, AgriE,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>CSE(CS),<br/>CSE(IOTCSIBCT),<br/>CSE(IOT), FE,<br/>AIDS, CS, AIML,<br/>CSD)</i> | <b>Professional Elective-<br/>III : Reinforcement<br/>Learning (R204142A)/</b><br>Nature Inspired<br>Computing Techniques<br>(R204144A)/ Social<br>Media Analytics<br>(R204144B)/ Block<br>Chain Technologies<br>(R204142P) <i>(Common to<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i> | <b>Professional Elective-<br/>IV : Computer<br/>Vision (R204105G)</b><br><i>(Common to CSE,<br/>CSE(AIDS), AIDS, CSD)/</i><br>Information Retrieval<br>Systems (R204144D)/<br>NOSQL Databases<br>(R204142F) / Cloud<br>Computing<br>(R204142O) <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS), AIDS,<br/>AIML, CSD)</i> | <b>Professional<br/>Elective-V :<br/>Recommender<br/>Systems<br/>(R204142H)/ AI<br/>Chatbots<br/>(R204142I)/ Data<br/>Visualization<br/>(R204144E)/ Social<br/>Networks Analysis<br/>(R204142Q) <i>(Common<br/>to CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD)</i></b> | <b>Open Elective-III : API<br/>and Microservices (Job<br/>Oriented Course)<br/>(R204105M)/ AI Tools &amp;<br/>Techniques (R204105N)/</b><br>Image Processing<br>(R204105O)/ Information<br>Security (R204105P)/<br>Mobile Application<br>Development<br>(R204105Q)/ Cyber<br>Security (R204105S)/<br>Introduction to Internet of<br>Things (R204105T)<br><i>(Common to OE-III as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i> | <b>Open Elective-IV :<br/>Secure Coding Techniques<br/>(Job Oriented Course)<br/>(R204105U)/ Block Chain<br/>Technologies (R204105X)/</b><br>Introduction to Machine<br>Learning (R204105Z)/<br>Machine Learning with<br>Python (R2041051)<br><i>(Common to OE-IV as CSE, IT,<br/>CSE(AIML), CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML, CSD)</i> | <b>Data Science<br/>(R204105R)</b><br><i>(Common to EEE PE-V &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS, AIML,<br/>CSD OE-3)</i> | Deep Learning<br>Techniques<br>(R204105E)<br><i>(Common to EEE, CSE,<br/>IT, PE-IV &amp; CSE, IT,<br/>CSE(AIML), CSE(AI),<br/>CSE(DS), CSE(AIDS),<br/>AIDS, AIML, CSD OE-<br/>4)/</i> MEAN Stack<br>Technologies<br>(R204105V) /<br>Cloud Computing<br>with AWS<br>(R204105W)<br><i>(Common to EEE PE-IV<br/>&amp; CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)/</i><br>Cryptography and<br>Network Security<br>(R204105Y)<br><i>(Common to<br/>CSE(AIML), CSE(AI),<br/>AIML, CSD PE-III &amp;<br/>CSE, IT, CSE(AIML),<br/>CSE(AI), CSE(DS),<br/>CSE(AIDS), AIDS,<br/>AIML, CSD OE-4)</i> | .....                    |



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

**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                       | DATE & DAY                                                                                                                                                                                                                                                          |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                      |                                                                                                                      |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                              | 07-04-2025<br>(Monday)                                                                                                                                                                                                                                              | 08-04-2025<br>(Tuesday)                                                                                                                                                                                 | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                                                                                    | 10-04-2025<br>(Thursday)                                                                                                                                                                                                        | 11-04-2025<br>(Friday)                                                                                                               | 15-04-2025<br>(Tuesday)                                                                                              | 16-04-2025<br>(Wednesday)                                                                          | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19-04-2025<br>(Saturday)                                                                |
| <b>CSE<br/>(Cyber<br/>Security)<br/>(46)</b> | Universal<br>Human Values-<br>2:<br>Understanding<br>Harmony<br>(R2041011)<br>(Common to CE, EEE,<br>ME, ECE, CSE, IT,<br>AME, MiE, AgriE,<br>CSE(AIML), CSE(AI),<br>CSE(DS), CSE(AIDS),<br>CSE(CS),<br>CSE(IOTCSIBCT),<br>CSE(IOT), FE,<br>AIDS, CS, AIML,<br>CSD) | <b>Professional Elective-<br/>III : Internet Of Things<br/>(R204146A)/</b><br>Information Coding<br>Techniques<br>(R204146D) / Mobile<br>and Wireless Security<br>(R204146E) (Common to<br>CSE(CS), CS) | <b>Professional Elective-<br/>IV : Ad-hoc and<br/>Sensor Networks<br/>(R204146R) / Big<br/>Data Analytics<br/>(R204142E) (Common<br/>to CSE(AIML), CSE(AI),<br/>AIML, PE-IV &amp; CSE(CS),<br/>CS PE-V &amp; OE-3) / Cyber<br/>Crime Investigation<br/>and Digital Forensics<br/>(R204146F) (Common<br/>to CSE(CS), CS PE-IV, OE-<br/>4 &amp; CSE(IOTCSIBCT) PE-<br/>IV)</b> | <b>Professional<br/>Elective-V : Cyber<br/>Laws and Security<br/>Policies (R204146J)/<br/>Intrusion Detection<br/>and Prevention<br/>System (R204146K)/<br/>Data Privacy<br/>(R204146L)/ Ethical<br/>Hacking<br/>(R204146M)</b> | <b>Open Elective-III :<br/>DevOps (Job Oriented<br/>Course) (R204146N)/<br/>Cryptography and<br/>Network Security<br/>(R204146O)</b> | <b>Open Elective-IV :<br/>Multimedia And Rich<br/>Internet Applications<br/>(Job Oriented Course)<br/>(R204146P)</b> | Data Science<br>(R204146B) (Common<br>to PE-III & OE-3 CSE(CS),<br>CSE(IOTCSIBCT),<br>CSE(IoT) CS) | Distributed<br>Systems<br>(R204146C)<br>(Common to CSE(CS),<br>CS PE-III & OE-4) /<br>Mean Stack<br>Technologies<br>(R204146H)<br>(Common to<br>CSE(IoT), CSE(CS),<br>CSE(IOTCSIBCT) PE-<br>IV & CSE(IoT) OE-4) /<br>Malware Analysis<br>& Reverse<br>Engineering<br>(R204146I)<br>(Common to CSE(CS),<br>CSE(IOTCSIBCT) PE-<br>IV & CSE(CS) OE-4) /<br>Machine<br>Learning<br>(R204146Q)<br>(Common to<br>CSE(IOTCSIBCT) PE-V<br>&<br>CSE(CS), CSE(IOTCSIB<br>CT), CSE(IoT) OE-4) | Cloud Computing<br>(R204146G)<br>(Common to CSE(CS)<br>PE-IV, OE-3 &<br>CSE(IoT) PE-IV) |



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**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                                                                       | DATE & DAY                                                                                                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                  |                                                                                                                                                      |                                                                                                                          |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                                                                              | 07-04-2025<br>(Monday)                                                                                                                                                                                                                 | 08-04-2025<br>(Tuesday)                                                                                                                                                      | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                        | 10-04-2025<br>(Thursday)                                                                                                                             | 11-04-2025<br>(Friday)                                                                                                   | 15-04-2025<br>(Tuesday)                                                                                                                | 16-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                                       | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 19-04-2025<br>(Saturday) |
| <b>CSE<br/>(Internet of things and Cyber security including Block chain Technology) (47)</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 : Software Testing Methodologies (R204147A)/ NoSQL Databases (R204147B)/ Privacy and Security in IOT (R204147C)/ Cloud Computing (R204147Q)</b> | <b>Professional Elective-IV : Object Oriented Analysis &amp; Design Using UML (R204147D)/ Intrusion Detection Systems (R204147E) / Cyber Crime Investigation and Digital Forensics (R204146F) (Common to CSE(CS), CS PE-IV, OE-4 &amp; CSE(IOTCSIBCT) PE-IV)</b> | <b>Professional Elective-V : Deep Learning (R204147F)/ Quantum Computing (R204147G)/ Dev Ops (R204147H)/ Mobile and Wireless Security (R204147P)</b> | <b>Open Elective-III : Sensors and Actuator Devices for IoT (R204147J)/ Cryptography and Network Security (R204146O)</b> | <b>Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)/ Distributed Computing (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 (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)</i> | Mean Stack Technologies <b>(R204146H)</b><br><i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(IoT) OE-4) /</i> Malware Analysis & Reverse Engineering <b>(R204146I)</b><br><i>(Common to CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(CS) OE-4)</i> /Machine Learning <b>(R204146Q)</b><br><i>(Common to CSE(IOTCSIBCT) PE-V &amp; CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4) /</i> Programming and Interfacing with Microcontrollers <b>(R204147K)</b><br><i>(Common to CSE(IoT) PE-III &amp; CSE(IOTCSIBCT), CSE(IoT) OE-4) /</i> | .....                    |



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**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                   | DATE & DAY                                                                                                                                                                                                                                     |                                                                                                                                     |                                                                                                      |                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                              |                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                     |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                          | 07-04-2025<br>(Monday)                                                                                                                                                                                                                         | 08-04-2025<br>(Tuesday)                                                                                                             | 09-04-2025<br>(Wednesday)                                                                            | 10-04-2025<br>(Thursday)                                                                                                                                | 11-04-2025<br>(Friday)                                                                                                                                                  | 15-04-2025<br>(Tuesday)                                                                                                      | 16-04-2025<br>(Wednesday)                                                                                                                                                                                    | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19-04-2025<br>(Saturday)                                                                            |
| <b>CSE<br/>(Internet of Things) (49)</b> | Universal Human Values-2:<br>Understanding Harmony<br><b>(R2041011)</b><br><i>(Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AI ML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AI ML, 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> | Data Science<br><b>(R204146B)</b> <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<br><b>(R204146H)</b><br><i>(Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV &amp; CSE(IoT) OE-4)</i><br>/Machine Learning<br><b>(R204146Q)</b><br><i>(Common to CSE(IOTCSIBCT) PE-V &amp; CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4)/</i><br>Programming and Interfacing with Microcontrollers<br><b>(R204147K)</b><br><i>(Common to CSE(IoT) PE-III &amp; CSE(IOTCSIBCT), CSE(IoT) OE-4) /</i><br>Block Chain Technologies<br><b>(R204147L)</b><br><i>(Common to CSE(IoT) PE-III &amp; CSE(IOTCSIBCT), CSE(IoT) OE-4)</i> | Cloud Computing<br><b>(R204146G)</b><br><i>(Common to CSE(CS) PE-IV, OE-3 &amp; CSE(IoT) PE-IV)</i> |



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**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

TIME : 10.00 AM TO 01.00 PM

| Branch                       | DATE & DAY                                                                                                                                                                                                                 |                                                                                                                                                                                         |                                                                                                                                                       |                                                                                                                                                                             |                                                                                                                                                           |                                                                                                                                                                                                                                        |                           |                          |                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------|--------------------------|
|                              | 07-04-2025<br>(Monday)                                                                                                                                                                                                     | 08-04-2025<br>(Tuesday)                                                                                                                                                                 | 09-04-2025<br>(Wednesday)                                                                                                                             | 10-04-2025<br>(Thursday)                                                                                                                                                    | 11-04-2025<br>(Friday)                                                                                                                                    | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                | 16-04-2025<br>(Wednesday) | 17-04-2025<br>(Thursday) | 19-04-2025<br>(Saturday) |
| <b>FOOD ENGINEERING (51)</b> | Universal Human Values-2: Understanding Harmony (R2041011)<br>(Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AI ML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, CS, AI ML, CSD) | <b>Professional Elective-III :</b> Advances in Drying and Dehydration (R204151A)/ Process Kinetics in Food Engineering (R204151B)/ Non-Thermal Operations in Food Processing (R204151C) | <b>Professional Elective-IV :</b> Food Process Equipment Design (R204151D)/ Sensors in Food Processing (R204151E)/ New Product Development (R204151F) | <b>Professional Elective-V :</b> Entrepreneurship in Food Industries (R204151G)/ Food Supply Chain Management (R204151H)/ Food Business Management and Economics (R204151I) | <b>Open Elective-III :</b> Food Sanitation, Management and Hygiene (R204151J)/ Energy Conservation and Audit (R204151K)/ Food Waste Management (R204151L) | <b>Open Elective-IV :</b> Food Refrigeration and Cold Chain (R204151M)/ Food Plant Operations and Maintenance (R204151N)/ ICT Applications in Food Processing (R204151O)/ SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) (R204151P) | .....                     | .....                    | .....                    |



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**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                               | DATE & DAY                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                                      | 07-04-2025<br>(Monday)                                                                                                                                                                                                                 | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                       | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                    | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                    | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                                                         | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                                          | 16-04-2025<br>(Wednesday)                                                                                                              | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19-04-2025<br>(Saturday) |
| <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 : 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 : Recommender Systems (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 : API and Microservices (Job Oriented Course) (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 : Secure Coding Techniques (Job Oriented Course) (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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**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                 | DATE & DAY                     |                                                                                                                                                          |                                                                                                                                                                                    |                          |                                                                                                                                                                      |                                                                                                                                                       |                           |                          |                          |
|----------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------|--------------------------|
|                                        | 07-04-2025<br>(Monday)         | 08-04-2025<br>(Tuesday)                                                                                                                                  | 09-04-2025<br>(Wednesday)                                                                                                                                                          | 10-04-2025<br>(Thursday) | 11-04-2025<br>(Friday)                                                                                                                                               | 15-04-2025<br>(Tuesday)                                                                                                                               | 16-04-2025<br>(Wednesday) | 17-04-2025<br>(Thursday) | 19-04-2025<br>(Saturday) |
| <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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**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                     | DATE & DAY                                                                                                                                                                                                                      |                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                              |                                                                                                                         |                                                                                                      |                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                    |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                            | 07-04-2025<br>(Monday)                                                                                                                                                                                                          | 08-04-2025<br>(Tuesday)                                                                                                                                                                    | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                           | 10-04-2025<br>(Thursday)                                                                                                                                                                                     | 11-04-2025<br>(Friday)                                                                                                  | 15-04-2025<br>(Tuesday)                                                                              | 16-04-2025<br>(Wednesday)                                                                     | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                      | 19-04-2025<br>(Saturday)                                                           |
| <b>CYBER SECURITY (59)</b> | Universal Human Values-2: Understanding Harmony <b>(R2041011)</b><br>(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) | <b>Professional Elective-III : Internet Of Things (R204146A)/</b> Information Coding Techniques <b>(R204146D)</b> / Mobile and Wireless Security <b>(R204146E)</b> (Common to CSE(CS), CS) | <b>Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R)</b> / Big Data Analytics <b>(R204142E)</b> (Common to CSE(AIML), CSE(AI), AIML, PE-IV & CSE(CS), CS PE-V & OE-3) / Cyber Crime Investigation and Digital Forensics <b>(R204146F)</b> (Common to CSE(CS), CS PE-IV, OE-4 & CSE(IOTCSIBCT) PE-IV) | <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> (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS) | Distributed Systems <b>(R204146C)</b> (Common to CSE(CS), CS PE-III & OE-4) / Mean Stack Technologies <b>(R204146H)</b> (Common to CSE(IoT), CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering <b>(R204146I)</b> (Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4) / Machine Learning <b>(R204146Q)</b> (Common to CSE(IOTCSIBCT) PE-V & CSE(CS), CSE(IOTCSIBCT), CSE(IoT) OE-4) | Cloud Computing <b>(R204146G)</b> (Common to CSE(CS) PE-IV, OE-3 & CSE(IoT) PE-IV) |



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**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                                   | DATE & DAY                                                                                                                                                                                                                             |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                             |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                                          | 07-04-2025<br>(Monday)                                                                                                                                                                                                                 | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                                       | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                                                                                                                   | 10-04-2025<br>(Thursday)                                                                                                                                                                                                                                                          | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                                   | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                                     | 16-04-2025<br>(Wednesday)                                                                                                              | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19-04-2025<br>(Saturday) |
| <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 : 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> | 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)/ 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> | .....                    |



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

**IV B.TECH - I SEMESTER (R20) ADVANCED SUPPLEMENTARY EXAMINATIONS, APRIL-2025**

**TIME TABLE**

**TIME : 10.00 AM TO 01.00 PM**

| Branch                                  | DATE & DAY                                                                                                                                                                                                               |                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                      |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                         | 07-04-2025<br>(Monday)                                                                                                                                                                                                   | 08-04-2025<br>(Tuesday)                                                                                                                                                                                                        | 09-04-2025<br>(Wednesday)                                                                                                                                                                                                                                              | 10-04-2025<br>(Thursday)                                                                                                                                                                                                        | 11-04-2025<br>(Friday)                                                                                                                                                                                                                                                                                                                                                                        | 15-04-2025<br>(Tuesday)                                                                                                                                                                                                                                                                              | 16-04-2025<br>(Wednesday)                                                                                                   | 17-04-2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19-04-2025<br>(Saturday) |
| <b>COMPUTER SCIENCE AND DESIGN (62)</b> | Universal Human Values-2: Understanding Harmony (R2041011)<br>(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) | <b>Professional Elective-III : Reinforcement Learning (R204142A)/</b> Nature Inspired Computing Techniques (R204144A)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Professional Elective-IV : Robotic Process Automation (R204142D)/</b> Computer Vision (R204105G) (Common to CSE, CSE(AIDS), AIDS, CSD)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Professional Elective-V : Recommender Systems (R204142H)/</b> AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/</b> AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/</b> Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | <b>Data Science (R204105R)</b> (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3) | Deep Learning Techniques (R204105E)<br>(Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) | .....                    |

**NOTE:**

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

Date: 26-03-2025

  
Controller of Examinations (UG)