



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## III B.TECH I SEMESTER (R20 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOV/DEC-2025

### TIME TABLE

TIME: 10.00 AM TO 01.00 PM

| BRANCH                                                      | DATE & DAY                           |                                                                                |                                               |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                           |                                                                                                      |                                                                                                                         |
|-------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                                             | 18.11.2025<br>(Tuesday)              | 20.11.2025<br>(Thursday)                                                       | 22.11.2025<br>(Saturday)                      | 25.11.2025<br>(Tuesday)                                                                                                                                                                                                                                                                                                                   | 27.11.2025<br>(Thursday)                                                                                                                                                                                                                  | 29.11.2025<br>(Saturday)                                                                             | 02.12.2025<br>(Tuesday)                                                                                                 |
| CIVIL<br>ENGINEERING<br>(01 CE)                             | Structural<br>Analysis<br>(R2031011) | Design And<br>Drawing of<br>Reinforced<br>Concrete<br>Structures<br>(R2031012) | Geotechnical<br>Engineering -<br>I (R2031013) | Professional Elective (PE) :-                                                                                                                                                                                                                                                                                                             | Open Elective (OE I) :-                                                                                                                                                                                                                   | Data Base<br>Management<br>Systems<br>(R203105M)                                                     | Repair &<br>Retro-Filling<br>of Buildings<br>(R203101P)                                                                 |
|                                                             |                                      |                                                                                |                                               | Construction Technology &<br>Management R203101A /<br>Remote Sensing and GIS R203101B /<br>Environmental Impact Assessment<br>R203101C /<br>Low-Cost Housing R203101D                                                                                                                                                                     | Strength of Materials R203101E /<br>Fluid Mechanics R203101F /<br>Surveying and Geomatics R203101G /<br>Highway Engineering R203101H /<br>Safety Engineering R203101I /<br>Environmental Management R203101J /<br>Urban Planning R203101K |                                                                                                      |                                                                                                                         |
| ELECTRICAL<br>AND<br>ELECTRONICS<br>ENGINEERING<br>(02 EEE) | Power Systems-<br>II (R2031021)      | Power<br>Electronics<br>(R2031022)                                             | Control<br>Systems<br>(R2031023)              | Professional Elective (PE) :-                                                                                                                                                                                                                                                                                                             | Open Elective (OE I) :-                                                                                                                                                                                                                   | Data Base<br>Management<br>Systems<br>(R203105M)<br><br>Special Electrical<br>Machines<br>(R203102M) | Operating<br>Systems<br>(R203105N)<br>Electrical<br>Distribution<br>Systems<br>(203102N)<br>Power Quality<br>(R203102L) |
|                                                             |                                      |                                                                                |                                               | Linear Ic Applications R203102A /<br>Utilization Of Electrical Energy R203102B<br>/<br>Computer Architecture And Organization<br>R203102C /<br>Optimization Techniques R203102D /<br>Object Oriented Programming Through<br>Java R203102E /<br>Optimization Techniques R203102D /<br>Object Oriented Programming Through<br>Java R203102E | Renewable Energy Sources R203102F /<br>Concepts Of Optimization Techniques<br>R203102G /<br>Concepts of Control Systems R203102H                                                                                                          |                                                                                                      |                                                                                                                         |



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### TIME TABLE

TIME: 10.00 AM TO 01.00 PM

| BRANCH                                                    | DATE & DAY                                   |                                                                     |                                                             |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                  |                                                                                                       |
|-----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                           | 18.11.2025<br>(Tuesday)                      | 20.11.2025<br>(Thursday)                                            | 22.11.2025<br>(Saturday)                                    | 25.11.2025<br>(Tuesday)                                                                                                                                                                                            | 27.11.2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 29.11.2025<br>(Saturday)                                                                                                                                                                         | 02.12.2025<br>(Tuesday)                                                                               |
| MECHANICAL<br>ENGINEERING<br>(03 ME)                      | Thermal<br>Engineering-II<br>(R2031031)      | Design of<br>Machine<br>Members-I<br>(R2031032)                     | Machining,<br>Machine<br>Tools &<br>Metrology<br>(R2031033) | <u>Professional Elective (PE) :-</u>                                                                                                                                                                               | <u>Open Elective (OE I) :-</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Data Base<br>Management<br>Systems<br>(R203105M)<br><br>Advanced<br>Mechanics of<br>Fluids<br>(R203103K) /<br>Tribology<br>(R203103Y)                                                            | Operating<br>Systems<br>(R203105N)/<br>Experimental<br>Methods in<br>Fluid<br>Mechanics<br>(R203103X) |
|                                                           |                                              |                                                                     |                                                             | Finite Element Methods R203103A /<br>Industrial Robotics R203103B /<br>Advanced Materials R203103C /<br>Renewable Energy Sources R203103D /<br>Mechanics of Composites R203103E /<br>MOOCs (NPTEL/Swayam) R203103F | Sustainable Energy Technologies R203103G<br>/<br>Operations Research R203103H /<br>Nano Technology R203103I /<br>Thermal Management of Electronic systems<br>R203103J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                  |                                                                                                       |
| ELECTRONICS &<br>COMMUNICATION<br>ENGINEERING<br>(04 ECE) | Analog ICs and<br>Applications<br>(R2031041) | Electromagnetic<br>Waves and<br>Transmission<br>Lines<br>(R2031042) | Digital<br>Communications<br>(R2031043)                     | <u>Professional Elective (PE) :-</u>                                                                                                                                                                               | <u>Open Elective (OE I) :-</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Data Base<br>Management<br>Systems<br>(R203105M) /<br>CMOS Analog IC<br>Design<br>(R203104V) /<br>Data Warehousing<br>and Data Mining<br>(R203145A) /<br>CMOS Digital<br>IC Design<br>(R203104X) | Operating<br>Systems<br>(R203105N) /<br>Programmable<br>Logic Devices<br>and ASIC<br>(R203104W)       |
|                                                           |                                              |                                                                     |                                                             | Antenna And Wave Propagation<br>R203104A /<br>Electronic Measurements &<br>Instrumentation R203104B /<br>Computer Architecture & Organization<br>R203104C                                                          | Basics of Signals and Systems R203104D /<br>Electronic Measurements and Instrumentation<br>R203104E /<br>Principles of Signal Processing R203104F /<br>Industrial Electronics R203104G /<br>Consumer Electronics R203104H / Fundamentals<br>of Microprocessors and Microcontrollers<br>R203104I /<br>Transducers and Sensors R203104J /<br>IOT and Applications R203104K /<br>Soft Computing Techniques R203104L /<br>IC Applications R203104M /<br>Principles of Communications R203104N / Basic<br>Electronics R203104O /<br>Data Communications R203104P /<br>Digital Logic Design R203104Q /<br>Remote Sensing and GIS R203104R /<br>Bio Medical Instrumentation R203104S /<br>Introduction to Microprocessor and<br>Microcontrollers R203114G |                                                                                                                                                                                                  |                                                                                                       |



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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### TIME TABLE

TIME: 10.00 AM TO 01.00 PM

| BRANCH                                  | DATE & DAY                                         |                                                                    |                                             |                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |                                                                                                                                                                    |
|-----------------------------------------|----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | 18.11.2025<br>(Tuesday)                            | 20.11.2025<br>(Thursday)                                           | 22.11.2025<br>(Saturday)                    | 25.11.2025<br>(Tuesday)                                                                                                                                                                                                                                        | 27.11.2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                 | 29.11.2025<br>(Saturday)                                                                                                                                                                     | 02.12.2025<br>(Tuesday)                                                                                                                                            |
| COMPUTER SCIENCE & ENGINEERING (05 CSE) | Computer Networks (R2031051)<br>(Common to CSE,IT) | Design and Analysis of Algorithms (R2031052)<br>(Common to CSE,IT) | Data Warehousing and Data Mining (R2031053) | Professional Elective (PE II) :-<br><br>Artificial Intelligence R203105A / Software Project Management R203105B / Distributed Systems R203105C / Advanced Unix Programming R193205D                                                                            | Open Elective (OE I) :-<br><br>Optimization in Operations Research R203105E / Data Structures R203105F / Object Oriented Progra. through JAVA R203105G / Data Base Management Systems R203105H / Computer Graphics R203105I / Advanced UNIX Programming R203105J / Computer Organization and Arch. R203105K / Operating Systems R203105L | Electronics Devices And Basic Circuits (R203104T) Statistical Foundation For Data Science (R203105P) Text Mining And Time Series Analysis (R203105O) / Design of Secure Protocols (R203105T) | Digital Electronics (R203104U) Data Visualization (R203105Q) Mathematics For Machine Learning (R203105R) Public Key Infrastructure and Trust Management (R203105S) |
| INFORMATION TECHNOLOGY (12 IT)          | Computer Networks (R2031051)<br>(Common to CSE,IT) | Design and Analysis of Algorithms (R2031052)<br>(Common to CSE,IT) | Data Mining Techniques (R2031121)           | Professional Elective (PE II) :-<br><br>Artificial Intelligence R203105A / Distributed Systems R203105C / Advanced Unix Programming R203105D / Agile Software Process R203112A                                                                                 | Open Elective (OE I) :-<br><br>DevOps R203112B / Data Structures R203105F / Object Oriented Progra. through JAVA R203105G / Data Base Management Systems R203105H / Computer Graphics R203105I / Advanced UNIX Programming R203105J / Computer Organization and Arch. R203105K / Operating Systems R203105L                              | .....                                                                                                                                                                                        | .....                                                                                                                                                              |
| AUTO MOBILE ENGINEERING (24 AME)        | Theory of Machines (R2031241)                      | Production Technology (R2031242)                                   | Vehicle Dynamics (R2031243)                 | Professional Elective (PE) :-<br><br>Alternative Fuels for Engines R203124A / Two and Three Wheelers R203124B / Microprocessor and Micro Controllers R203124C / Heat Transfer R203124D / Industrial Hydraulics and Pneumatics R203124E / MOOC's/NPTEL R203124F | Open Elective (OE I) :-<br><br>Basic Automobile Engineering R203124G / Automobile Maintenance and Safety R203124H / Automobile Emissions and Effects R203124I                                                                                                                                                                            | .....                                                                                                                                                                                        | .....                                                                                                                                                              |
| MINING ENGINEERING (26 MM)              | Mine Hazards and Rescue (R2031261)                 | Underground Coal Mining (R2031262)                                 | Mine Hoisting and Transportation (R2031263) | Professional Elective (PE) :-<br><br>Remote Sensing and GIS R203101B / Resource Evaluation and Geo-Statistics - R203126A / Mine Planning and Design R203126B / Mine Safety & Ergonomics R203126C                                                               | Open Elective (OE I) :-<br><br>Introduction to Underground Mining R203126D / Introduction to Surface Mining R203126E / Tunneling and Underground Space Design R203126F / Engineering Survey R203126G                                                                                                                                     | .....                                                                                                                                                                                        | .....                                                                                                                                                              |



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|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------|
|                                                                        | 18.11.2025<br>(Tuesday)                                                                                  | 20.11.2025<br>(Thursday)                                                                                   | 22.11.2025<br>(Saturday)                                                                                  | 25.11.2025<br>(Tuesday)                                                                                                                      | 27.11.2025<br>(Thursday)                                                                                                                                                                                                                                                                                                                                                   | 29.11.2025<br>(Saturday)          | 02.12.2025<br>(Tuesday) |
| AGRICULTURAL<br>ENGINEERING<br>(35 AGE)                                | Farm<br>Machinery and<br>Equipment - I<br>(R2031351)                                                     | Surface Water<br>Hydrology<br>(R2031352)                                                                   | Post Harvest<br>Engineering<br>of Cereals,<br>Pulses and<br>Oilseeds<br>(R2031353)                        | Professional Elective - I                                                                                                                    | Open Elective - I                                                                                                                                                                                                                                                                                                                                                          | .....                             | .....                   |
|                                                                        |                                                                                                          |                                                                                                            |                                                                                                           | Seed Processing and Storage Engineering<br>R203135A /<br>Greenhouse Technology R203135B /<br>Tractor Design and Testing R203135C             | Principles of Soil Science and Agronomy<br>R203135D / Farm Power and Tractor Systems<br>R203135E / Soil and Water Conservation<br>Engineering R203135F /<br>Ground Water Hydrology, Wells and Pumps<br>R203135G / Surface Water Hydrology R203135H<br>/ Post Harvest Engineering of Cereals Pulses and<br>Oilseeds R203135I /<br>Agricultural Process Engineering R203135J |                                   |                         |
| CSE<br>(Artificial<br>Intelligence<br>and Machine<br>Learning)<br>(42) | Compiler<br>Design<br>(R2031421)<br>(Common to<br>CSE(AIML),<br>CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Operating<br>Systems<br>(R2031422)<br>(Common to<br>CSE(AIML),<br>CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Machine<br>Learning<br>(R2031423)<br>(Common to<br>CSE(AIML),CSE(AI),<br>CSE(DS),CSE(AIDS),<br>AIDS,AIML) | Professional Elective (PE) :-                                                                                                                | Open Elective (OE I) :-                                                                                                                                                                                                                                                                                                                                                    | Machine<br>Learning<br>(R203142F) | .....                   |
|                                                                        |                                                                                                          |                                                                                                            |                                                                                                           | Software Engineering R203142A /<br>Computer Vision R203142B /<br>Data Visualization R203142C /<br>DevOps R203142D /<br>MOOC's-NPTEL R203142E | Optimization in Operations Research<br>R203105E                                                                                                                                                                                                                                                                                                                            |                                   |                         |
| CSE<br>(Artificial<br>Intelligence)<br>(43)                            | Compiler<br>Design<br>(R2031421)<br>(Common to<br>CSE(AIML),<br>CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Operating<br>Systems<br>(R2031422)<br>(Common to<br>CSE(AIML),<br>CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Machine<br>Learning<br>(R2031423)<br>(Common to<br>CSE(AIML),CSE(AI),<br>CSE(DS),CSE(AIDS),<br>AIDS,AIML) | Professional Elective (PE) :-                                                                                                                | Open Elective (OE I) :-                                                                                                                                                                                                                                                                                                                                                    | .....                             | .....                   |
|                                                                        |                                                                                                          |                                                                                                            |                                                                                                           | Software Engineering R203142A /<br>Computer Vision R203142B /<br>Data Visualization R203142C /<br>DevOps R203142D                            | Optimization in Operations Research<br>R203105E                                                                                                                                                                                                                                                                                                                            |                                   |                         |
| CSE<br>(Data Science)<br>(44)                                          | Compiler<br>Design<br>(R2031421)<br>(Common to<br>CSE(AIML),<br>CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Operating<br>Systems<br>(R2031422)<br>(Common to<br>CSE(AIML),<br>CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Machine<br>Learning<br>(R2031423)<br>(Common to<br>CSE(AIML),CSE(AI),<br>CSE(DS),CSE(AIDS),<br>AIDS,AIML) | Professional Elective (PE) :-                                                                                                                | Open Elective (OE I) :-                                                                                                                                                                                                                                                                                                                                                    | .....                             | .....                   |
|                                                                        |                                                                                                          |                                                                                                            |                                                                                                           | Software Engineering R203142A /<br>DevOps R203142D /<br>Object Oriented Analysis and Design<br>R203144A /<br>Internet of Things R203144B     | Optimization in Operations Research<br>R203105E                                                                                                                                                                                                                                                                                                                            |                                   |                         |



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| BRANCH                                                                                 | DATE & DAY                                                                                           |                                                                                                        |                                                                                                  |                                                                                                                                                                                 |                                                                                                                                                                                                                          |                                                  |                                                                        |
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|                                                                                        | 18.11.2025<br>(Tuesday)                                                                              | 20.11.2025<br>(Thursday)                                                                               | 22.11.2025<br>(Saturday)                                                                         | 25.11.2025<br>(Tuesday)                                                                                                                                                         | 27.11.2025<br>(Thursday)                                                                                                                                                                                                 | 29.11.2025<br>(Saturday)                         | 02.12.2025<br>(Tuesday)                                                |
| CSE<br>(Artificial Intelligence and Data Science)<br>(45)                              | Compiler Design<br>(R2031421)<br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Operating Systems<br>(R2031422)<br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Machine Learning<br>(R2031423)<br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML) | <u>Professional Elective (PE) :-</u>                                                                                                                                            | <u>Open Elective (OE I) :-</u>                                                                                                                                                                                           | Data Warehousing and Data Mining<br>(R203145A)   | Introduction to Artificial Intelligence and Data Science<br>(R203145B) |
|                                                                                        |                                                                                                      |                                                                                                        |                                                                                                  | Software Engineering R203142A / Object Oriented Analysis and Design R203144A / Internet of Things R203144B / DevOps R203142D                                                    | Optimization in Operations Research R203105E                                                                                                                                                                             |                                                  |                                                                        |
| CSE<br>(Cyber Security)<br>(46)                                                        | Computer Networks<br>(R2031461)<br>(Common to CSE(CS), IOTCSIBCT, CSE(IOT), CS, CSBS)                | Software Engineering<br>(R2031462)<br>(Common to CSE(CS), CS)                                          | Design and Analysis of Algorithms<br>(R2031463)<br>(Common to CSE(CS), IOTCSOBC, CSE(IOT), CS)   | <u>Professional Elective (PE) :-</u>                                                                                                                                            | <u>Open Elective (OE I) :-</u>                                                                                                                                                                                           | .....                                            | .....                                                                  |
|                                                                                        |                                                                                                      |                                                                                                        |                                                                                                  | Computer Graphics R203146A / Artificial Intelligence R203146B / Compiler Design R203146C / Advanced Data Structures R203146D / Principles of Programming Languages R203146E     | Web Technologies R203146F / Data Structures R203146G / Computer Networks R203146H / Data Base Management Systems R203146I / Problem Solving using Python R203146J                                                        |                                                  |                                                                        |
| CSE<br>(Internet of things and Cyber security including Blockchain Technology)<br>(47) | Computer Networks<br>(R2031461)<br>(Common to CSE(CS), IOTCSIBCT, CSE(IOT), CS, CSBS)                | IoT Architecture and its Protocols<br>(R2031471)<br>(Common to IOTCSIBCT, CSE(IOT))                    | Design and Analysis of Algorithms<br>(R2031463)<br>(Common to CSE(CS), IOTCSOBC, CSE(IOT), CS)   | <u>Professional Elective (PE) :-</u>                                                                                                                                            | <u>Open Elective (OE I) :-</u>                                                                                                                                                                                           | IoT Architecture and its Protocols<br>(R203149H) | .....                                                                  |
|                                                                                        |                                                                                                      |                                                                                                        |                                                                                                  | Data Warehousing & Data Mining R203147A / Compiler Design R203146C / Software Engineering R203142A / Micro Processors & Micro Controllers R203147B / Computer Graphics R203146A | Web Technologies R203147C / Data Structures R203147D / Computer Networks R203147E / Data Base Management Systems R203147F / Problem Solving using Python R203147G / Open Electives offered by other Departments R203148D |                                                  |                                                                        |



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|                                               | 18.11.2025<br>(Tuesday)                                                                         | 20.11.2025<br>(Thursday)                                                                          | 22.11.2025<br>(Saturday)                                                                      | 25.11.2025<br>(Tuesday)                                                                                                                                                        | 27.11.2025<br>(Thursday)                                                                                                                                                    | 29.11.2025<br>(Saturday)  | 02.12.2025<br>(Tuesday)                            |
| CSE<br>(Internet of Things) (49)              | Computer Networks<br>(R2031461)<br>(Common to CSE(CS),IOTCSIBCT,CSE(IOT),CS,CSBS)               | IoT Architecture and its Protocols<br>(R2031471)<br>(Common to IOTCSIBCT,CSE(IOT))                | Design and Analysis of Algorithms<br>(R2031463)<br>(Common to CSE(CS),IOTCSOBC T,CSE(IOT),CS) | Professional Elective (PE) :-                                                                                                                                                  | Open Elective (OE I) :-                                                                                                                                                     | .....                     | Sensors and Actuator Devices for IoT<br>(R203149G) |
|                                               |                                                                                                 |                                                                                                   |                                                                                               | Compiler Design R203146C / Software Engineering R203142A / Computer Graphics R203146A / Principles of Programming Languages R203146E / Advanced Computer Architecture R203149A | Natural Language Processing R203149B / Data Structures R203149C / Computer Networks R203149D / Data Base Management System R203149E / Problem Solving using Python R203149F |                           |                                                    |
| ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54) | Compiler Design<br>(R2031421)<br>(Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Operating Systems<br>(R2031422)<br>(Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) | Machine Learning<br>(R2031423)<br>(Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)   | Professional Elective (PE) :-                                                                                                                                                  | Open Elective (OE I) :-                                                                                                                                                     | .....                     | .....                                              |
|                                               |                                                                                                 |                                                                                                   |                                                                                               | Software Engineering R203142A / DevOps R203142D / Object Oriented Analysis and Design R203144A / Internet of Things R203144B                                                   | Optimization in Operations Research R203105E                                                                                                                                |                           |                                                    |
| PHARMACEUTICAL ENGINEERING (55)               | Managerial Economics and Financial Accountancy<br>(R2031551)                                    | Pharmaceutical Engineering-I<br>(R2031552)                                                        | Biopharmaceutics and Pharmacokinetics<br>(R2031553)                                           | Professional Elective (PE) :-                                                                                                                                                  | Open Elective (OE I) :-                                                                                                                                                     | Biostatistics<br>R2031554 | .....                                              |
|                                               |                                                                                                 |                                                                                                   |                                                                                               | Quality Control and Assurance R203155A / Food Processing Technology R203155B / Pharmaceutical Biotechnology R203155C                                                           | Non-Conventional Energy Sources R203155D / Introduction to Data Structures R203155E / Design and Analysis of Experiments R203155F                                           |                           |                                                    |
| CYBER SECURITY (59)                           | Computer Networks<br>(R2031461)<br>(Common to CSE(CS),IOTCSIBCT,CSE(IOT),CS,CSBS)               | Software Engineering<br>(R2031462)<br>(Common to CSE(CS),CS)                                      | Design and Analysis of Algorithms<br>(R2031463)<br>(Common to CSE(CS),IOTCSOBC T,CSE(IOT),CS) | Professional Elective (PE) :-                                                                                                                                                  | Open Elective (OE I) :-                                                                                                                                                     | .....                     | .....                                              |
|                                               |                                                                                                 |                                                                                                   |                                                                                               | Computer Graphics R203146A / Artificial Intelligence R203146B / Compiler Design R203146C / Advanced Data Structures R203146D / Principles of Programming Languages R203146E    | Web Technologies R203146F / Data Structures R203146G / Computer Networks R203146H / Data Base Management Systems R203146I / Problem Solving using Python R203146J           |                           |                                                    |



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| BRANCH                                                   | DATE & DAY                                                                                                  |                                                                                                               |                                                                                                              |                                                                                                                                                                                 |                                                        |                          |                         |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------|-------------------------|
|                                                          | 18.11.2025<br>(Tuesday)                                                                                     | 20.11.2025<br>(Thursday)                                                                                      | 22.11.2025<br>(Saturday)                                                                                     | 25.11.2025<br>(Tuesday)                                                                                                                                                         | 27.11.2025<br>(Thursday)                               | 29.11.2025<br>(Saturday) | 02.12.2025<br>(Tuesday) |
| <b>ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)</b> | Compiler Design<br><b>(R2031421)</b><br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Operating Systems<br><b>(R2031422)</b><br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Machine Learning<br><b>(R2031423)</b><br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Professional Elective (PE) :-                                                                                                                                                   | Open Elective (OE I) :-                                | .....                    | .....                   |
|                                                          |                                                                                                             |                                                                                                               |                                                                                                              | Software Engineering <b>R203142A</b> /<br>Computer Vision <b>R203142B</b> /<br>Data Visualization <b>R203142C</b> /<br>DevOps <b>R203142D</b> /<br>MOOC's/NPTEL <b>R203142E</b> | Optimization in Operations Research<br><b>R203105E</b> |                          |                         |
| <b>COMPUTER SCIENCE AND DESIGN (62)</b>                  | Compiler Design<br><b>(R2031421)</b><br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Operating Systems<br><b>(R2031422)</b><br>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD) | Human Computer Interaction<br><b>(R2031621)</b>                                                              | Professional Elective (PE) :-                                                                                                                                                   | Open Elective (OE I) :-                                | .....                    | .....                   |
|                                                          |                                                                                                             |                                                                                                               |                                                                                                              | Software Engineering <b>R203142A</b> /<br>Object Oriented Analysis and Design<br><b>R203144A</b> /<br>Internet of Things <b>R203144B</b> /<br>DevOps <b>R203142D</b>            | Optimization in Operations Research<br><b>R203105E</b> |                          |                         |

#### NOTE:

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Sd/-  
Controller of Examinations

DATE: 30.10.2025



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## III B TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025

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

TIME: 10.00 AM TO 01.00 PM

| BRANCH                                                                 | DATE & DAY                                       |                                                            |                                                                       |                                                                                  |                                                            |                                                  |
|------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------|
|                                                                        | 18.11.2025<br>(Tuesday)                          | 20.11.2025<br>(Thursday)                                   | 22.11.2025<br>(Saturday)                                              | 25.11.2025<br>(Tuesday)                                                          | 27.11.2025<br>(Thursday)                                   | 29.11.2025<br>(Saturday)                         |
| <b>CIVIL<br/>ENGINEERING<br/>(01 CE)</b>                               | <b>Structural<br/>Analysis<br/>(R1931011)</b>    | <b>Concrete<br/>Technology<br/>(R1931012)</b>              | <b>Water<br/>Resources<br/>Engineering - I<br/>(R1931013)</b>         | <b>Environmental<br/>Engineering -<br/>II (R1931014)</b>                         | <b>Program Elective – I :-</b>                             | <b><u>Open Elective – I (Choose any</u></b>      |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  | i) Repair & Rehabilitation of Buildings (R193101A)         | i) Disaster Management (R193101F)                |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  | ii) Environmental Impact Assessment (R193101B)             | ii) Environmental Pollution & Control (R193101G) |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  | iii) Reinforced Soil Structures (R193101C)                 | iii) Elements of Civil Engineering (R193101H)    |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  | iv) Traffic Engineering (R193101D)                         | iv) Green Technology (R193101I)                  |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  | v) Construction Technology & Management (R193101E)         | v) Smart Cities (R193101J)                       |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  |                                                            | vi) Project Management (R193101K)                |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  |                                                            | vii) Traffic Safety (R193101L)                   |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  |                                                            | viii) Geo-Spatial Technologies (R193101M)        |
|                                                                        |                                                  |                                                            |                                                                       |                                                                                  |                                                            | ix) Wastewater Treatment (R193101N)              |
| <b>ELECTRICAL<br/>AND<br/>ELECTRONICS<br/>ENGINEERING<br/>(02 EEE)</b> | <b>Linear IC<br/>Applications<br/>(R1931023)</b> | <b>Power<br/>Electronics<br/>(R1931022)</b>                | <b>Power<br/>Systems-II<br/>(R1931021)</b>                            | <b>Digital Signal<br/>Processing<br/>(R1931024)</b>                              | <b>Microprocessors and<br/>Microcontrollers (R1931025)</b> | .....                                            |
| <b>MECHANICAL<br/>ENGINEERING<br/>(03 ME)</b>                          | <b>Dynamics of<br/>Machinery<br/>(R1931031)</b>  | <b>Design of<br/>Machine<br/>Members-II<br/>(R1931032)</b> | <b>Mechanical<br/>Measurements<br/>&amp; Metrology<br/>(R1931033)</b> | <b>Managerial<br/>Economics and<br/>Financial<br/>Accountancy<br/>(R1931034)</b> | <b>IC Engines &amp; Gas turbines<br/>(R1931035)</b>        | .....                                            |



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

## III B TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025

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

TIME: 10.00 AM TO 01.00 PM

| BRANCH                                                      | DATE & DAY                                             |                                                |                                   |                                                      |                                              |                                                                 |
|-------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|-----------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|
|                                                             | 18.11.2025<br>(Tuesday)                                | 20.11.2025<br>(Thursday)                       | 22.11.2025<br>(Saturday)          | 25.11.2025<br>(Tuesday)                              | 27.11.2025<br>(Thursday)                     | 29.11.2025<br>(Saturday)                                        |
| <b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (04 ECE)</b> | Linear Integrated Circuits and Applications (R1931041) | Microprocessor and Microcontrollers (R1931042) | Digital Communications (R1931043) | Electronic Measurements & Instrumentation (R1931044) | .....                                        | <b>Professional Elective (PE 1) :-</b>                          |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | i) Information Theory & Coding (R193104A)                       |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | ii) Digital System Design Using HDL (R193104B)                  |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | iii) Datastructures and Algorithms (R193104C)                   |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | iv) Soft Computing Techniques and Python Programming (R193104D) |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | v) Simulation & Mathematical Modeling (R193104E)                |
| <b>COMPUTER SCIENCE &amp; ENGINEERING (05 CSE)</b>          | Data Warehousing and Data Mining (R1931051)            | Computer Networks (R1931052)                   | Compiler Design (R1931053)        | Artificial Intelligence (R1931054)                   | .....                                        | <b>Professional Elective- I:-</b>                               |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | i) Computer Graphics (R193105A)                                 |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | ii) Principles of Programming Languages (R193105B)              |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | iii) Advanced Data Structures (R193105C)                        |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | iv) Software Testing Methodologies (R193105D)                   |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | v) Advanced Computer Architecture (R193105E)                    |
| <b>INFORMATION TECHNOLOGY (12 IT)</b>                       | Advanced Data Structures (R1931121)                    | Computer Networks (R1931122)                   | Compiler Design (R1931123)        | Artificial Intelligence (R1931054)                   | Design and Analysis of Algorithms (R1931124) | <b>Professional Elective -I:-</b>                               |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | i) Software Testing Methodologies (R193105D)                    |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | ii) NoSQL Databases (R193112A)                                  |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | iii) Scripting Languages (R193112B)                             |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | iv) Computer Graphics (R193105A)                                |
|                                                             |                                                        |                                                |                                   |                                                      |                                              | v) R-Programming (R193112C)                                     |

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

UNIVERSITY EXAMINATION CENTER, KAKINADA

**III B TECH I SEMESTER (R19 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025****T I M E T A B L E****TIME: 10.00 AM TO 01.00 PM**

| BRANCH                                                             | DATE & DAY                                             |                                                       |                                                |                                                         |                                                         |                                                     |
|--------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|
|                                                                    | 18.11.2025<br>(Tuesday)                                | 20.11.2025<br>(Thursday)                              | 22.11.2025<br>(Saturday)                       | 25.11.2025<br>(Tuesday)                                 | 27.11.2025<br>(Thursday)                                | 29.11.2025<br>(Saturday)                            |
| <b>AUTO MOBILE ENGINEERING<br/>(24 AME)</b>                        | Dynamics of Machinery<br>(R1931031)                    | Fuels and Combustion<br>(R1931241)                    | Automotive Components Design<br>(R1931242)     | Micro Processors and Micro Controllers<br>(R1931243)    | Machine Tools & Metrology<br>(R1931244)                 | .....                                               |
| <b>MINING ENGINEERING<br/>(26 MM)</b>                              | Underground Coal Mining Technology<br>(R1931261)       | Mine Environment Engineering – II<br>(R1931262)       | Rock Mechanics<br>(R1931263)                   | Mining Machinery & Mechanization-I<br>(R1931264)        | Corporate Social Responsibility in Mining<br>(R1931265) | <b>Open Elective :-</b>                             |
|                                                                    |                                                        |                                                       |                                                |                                                         |                                                         | i) Waste Water Management<br>(R193126A)             |
|                                                                    |                                                        |                                                       |                                                |                                                         |                                                         | ii) Environmental impact analysis<br>(R193126B)     |
|                                                                    |                                                        |                                                       |                                                |                                                         |                                                         | iii) Disaster Management and Mitigations (R193126C) |
| <b>PETROLEUM ENGINEERING/<br/>PETROLEUM TECHNOLOGY<br/>(27 PE)</b> | Process Dynamics & Control<br>(R1931271)               | Well Logging & Formation Evaluation<br>(R1931272)     | Drilling & Well Completions<br>(R1931273)      | Managerial Economics & Financial Analysis<br>(R1931279) | <b>Professional Elective -I :-</b>                      | <b>Open Elective - I :-</b>                         |
|                                                                    |                                                        |                                                       |                                                |                                                         | i) Fundamentals of Liquefied Natural Gas. (R193127A)    | i) Disaster Management (R193101F)                   |
|                                                                    |                                                        |                                                       |                                                |                                                         | ii) CBM Reservoir Engineering (R193127B)                | ii) Renewable Energy Sources (R193127C)             |
| <b>AGRICULTURAL ENGINEERING<br/>(35 AGE)</b>                       | Thermodynamics and Refrigeration systems<br>(R1931351) | Soil and Water Conservation Engineering<br>(R1931352) | Agricultural Process Engineering<br>(R1931353) | Managerial Economics & Financial Analysis<br>(R1931279) | Farm Machinery and Equipment - I<br>R1931354            | .....                                               |

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**Sd/-****Controller of Examinations****DATE: 30.10.2025**



**III B.TECH I SEMESTER (R16)**

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

**III B.TECH I SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025**

**T I M E T A B L E**

**TIME : 10.00 AM TO 01.00 PM**

| BRANCH                                                                         | DATE AND DAY                                                                    |                                                           |                                                                          |                                                                  |                                                     |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|
|                                                                                | 18.11.2025<br>(Tuesday)                                                         | 20.11.2025<br>(Thursday)                                  | 22.11.2025<br>(Saturday)                                                 | 25.11.2025<br>(Tuesday)                                          | 27.11.2025<br>(Thursday)                            |
| <b>CIVIL<br/>ENGINEERING<br/>(01- CE)</b>                                      | Transportation<br>Engineering-II<br>(R1631015)                                  | Structural<br>Analysis – II<br>(R1631013)                 | Design and Drawing<br>of Reinforced<br>Concrete Structures<br>(R1631014) | Engineering Geology<br>(R1631012)                                | Management Science<br>(Com. to CE,PE) (R1631011)    |
| <b>ELECTRICAL AND<br/>ELECTRONICS<br/>ENGINEERING<br/>(02 - EEE)</b>           | Pulse & Digital<br>Circuits (R1631024)                                          | Renewable Energy<br>Sources (R1631022)                    | Power Systems-II<br>(R1631021)                                           | Signals and Systems<br>(R1631023)                                | Power Electronics<br>(R1631025)                     |
| <b>MECHANICAL<br/>ENGINEERING<br/>(03 - ME)</b>                                | Dynamics of<br>Machinery<br>(R1631031)                                          | Metal Cutting &<br>Machine Tools<br>(R1631032)            | Design of Machine<br>Members-II<br>(R1631033)                            | Operations Research<br>(R1631034)                                | Thermal<br>Engineering – II<br>(R1631035)           |
| <b>ELECTRONICS<br/>&amp;<br/>COMMUNICATIONS<br/>ENGINEERING<br/>(04 - ECE)</b> | Computer<br>Architecture and<br>Organization (Com.<br>to ECE,EIE)<br>(R1631041) | Linear IC Applications<br>(Com. to ECE,EIE)<br>(R1631042) | Digital<br>Communications<br>(R1631044)                                  | Digital IC Applications<br>(Com. to ECE,EIE)<br>(R1631043)       | Antennas and Wave<br>Propagation (R1631045)         |
| <b>COMPUTER<br/>SCIENCE<br/>&amp;<br/>ENGINEERING<br/>(05 - CSE)</b>           | Compiler Design<br>(R1631051)                                                   | Unix Programming<br>(Com. to CSE,IT)<br>(R1631052)        | Object Oriented<br>Analysis and Design<br>using UML<br>(R1631053)        | Database Management<br>Systems<br>(Com. to CSE,IT)<br>(R1631054) | Operating Systems<br>(Com. to CSE,IT)<br>(R1631055) |

**CONTINUED ON PAGE – 2**



**III B.TECH I SEMESTER (R16)**

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

**III B.TECH I SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025**

**T I M E T A B L E**

**TIME : 10.00 AM TO 01.00 PM**

**PAGE-2**

| <b>BRANCH</b>                                                            | <b>DATE AND DAY</b>                                                                 |                                                                            |                                                              |                                                                          |                                                         |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------|
|                                                                          | <b>18.11.2025<br/>(Tuesday)</b>                                                     | <b>20.11.2025<br/>(Thursday)</b>                                           | <b>22.11.2025<br/>(Saturday)</b>                             | <b>25.11.2025<br/>(Tuesday)</b>                                          | <b>27.11.2025<br/>(Thursday)</b>                        |
| <b>ELECTRONICS AND<br/>INSTRUMENTATION<br/>ENGINEERING<br/>(10- EIE)</b> | Computer Architecture<br>and Organization<br>(Com. to ECE,EIE)<br><b>(R1631041)</b> | Linear IC Applications<br>(Com. to ECE,EIE)<br><b>(R1631042)</b>           | Digital Signal<br>Processing<br><b>(R1631102)</b>            | Digital IC Applications<br>(Com. to ECE,EIE)<br><b>(R1631043)</b>        | Process Instrumentation<br><b>(R1631101)</b>            |
| <b>INFORMATION<br/>TECHNOLOGY<br/>(12- IT)</b>                           | Human Computer<br>Interaction<br><b>(R1631121)</b>                                  | Unix and Shell<br>Programming<br>(Com. to CSE,IT)<br><b>(R1631052)</b>     | Advanced JAVA<br>Programming<br><b>(R1631122)</b>            | Database Management<br>Systems<br>(Com. to CSE,IT)<br><b>(R1631054)</b>  | Operating Systems<br>(Com. to CSE,IT) <b>(R1631055)</b> |
| <b>ELECTRONICS AND<br/>COMPUTER<br/>ENGINEERING<br/>(19- ECC)</b>        | Computer Graphics<br><b>(R1631191)</b>                                              | Linear IC Applications<br>(Com. To<br>ECE,EIE,ECom E)<br><b>(R1631042)</b> | Design and<br>Analysis of<br>Algorithms<br><b>(R1631193)</b> | Digital IC Applications<br>(Com. to ECE,EIE,ECom E)<br><b>(R1631043)</b> | Computer Networks<br><b>(R1631192)</b>                  |
| <b>AERONAUTICAL<br/>ENGINEERING<br/>(21- AE)</b>                         | Aircraft Performance<br><b>(R1631211)</b>                                           | Aerodynamics – II<br><b>(R1631212)</b>                                     | Aircraft Structures-<br>I <b>(R1631213)</b>                  | Propulsion – I<br><b>(R1631214)</b>                                      | Theory of Machines<br><b>(R1631215)</b>                 |

**CONTINUED ON PAGE – 3**



**III B.TECH I SEMESTER (R16)**

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

**III B.TECH I SEMESTER (R16 REGULATION) SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2025**

**T I M E T A B L E**

**TIME : 10.00 AM TO 01.00 PM**

| BRANCH                                                                     | DATE AND DAY                                                     |                                                                     |                                                                    |                                                       |                                                                                         |
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|                                                                            | 18.11.2025<br>(Tuesday)                                          | 20.11.2025<br>(Thursday)                                            | 22.11.2025<br>(Saturday)                                           | 25.11.2025<br>(Tuesday)                               | 27.11.2025<br>(Thursday)                                                                |
| <b>AUTOMOBILE<br/>ENGINEERING<br/>(AME-24)</b>                             | Dynamics of Machinery<br><b>(R1631241)</b>                       | Heat Transfer<br><b>(R1631245)</b>                                  | Design of Machine<br>Elements<br><b>(R1631243)</b>                 | Vehicle Transport<br>Management <b>(R1631244)</b>     | Fuels and Combustion<br><b>(R1631242)</b>                                               |
| <b>MINING<br/>ENGINEERING<br/>(26-MM)</b>                                  | Under Ground Coal<br>Mining Technology<br><b>(R1631261)</b>      | Mining Machinery &<br>Mechanization-I<br><b>(R1631265)</b>          | Mine Environment<br>Engineering – I<br><b>(R1631262)</b>           | Electrical<br>Equipment in Mines<br><b>(R1631263)</b> | Mine Surveying-II<br><b>(R1631264)</b>                                                  |
| <b>PETROLEUM<br/>ENGINEERING/PET<br/>ROLEUM<br/>TECHNOLOGY<br/>(27-PE)</b> | Process<br>Instrumentation<br><b>(R1631272)</b>                  | Well Logging &<br>Formation Evaluation<br><b>(R1631273)</b>         | Drilling<br>Technology<br><b>(R1631274)</b>                        | Process Dynamics & Control<br><b>(R1631271)</b>       | Management Science (Com.<br>to CE,PE) <b>(R1631011)</b>                                 |
| <b>AGRICULTURAL<br/>ENGINEERING<br/>(35-AGE)</b>                           | Thermodynamics and<br>Refrigeration Systems<br><b>(R1631351)</b> | Managerial Economics<br>and Financial Analysis<br><b>(R1631355)</b> | Soil and Water<br>Conservation<br>Engineering<br><b>(R1631352)</b> | Agricultural Process<br>Engineering <b>(R1631353)</b> | Engineering Properties of<br>Biological Materials and Food<br>Quality <b>(R1631354)</b> |

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