III B.TECH II SEMESTER (R23)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R23 REGULATION) SUPPLEMENTARY EXAMANATIONS, OCTOBER- 2026

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

BRANCH	DAY AND DATE						
	12.10.2026 (Monday)	**14.10.2026 (Wednesday)**	**16.10.2026 (Friday)**	**22.10.2026 (Thursday)**	**24.10.2026 (Saturday)**	**27.10.2026 (Tuesday)**	**29-10-2026 (Thursday)**
CIVIL ENGINEERING (01-CSE)	Design and Drawing of Steel Structures (**R2332011**)	Highway Engineering **(R2332012)**	Environmental Engineering **(R2332013)**	**Professional Elective-II** Ground Improvement Techniques**(R233201A),**Repair and Rehabilitation of Structures(**R233201B),**Valuation and Quantity Survey,(**R233201C**)	**Professional Elective-III** Finite element method(**R233201D**) Bridge Engineering **(R233201E)** Water Resource Engineering(**R233201F**)	**Open Elective-II** Disater management **(R233201G)** Sustainability in Engineering practices**(R233201H)** Water Supply Systems**(R233201I)**	----
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Electrical Measurements and Instrumentation **(R2332021)**	Microprocessors and Microcontrollers **(R2332022)**	Power System Analysis **(R2332023)**	**Professional Elective-II** Switchgear and Protection **(R233202A)** ,Advanced Control Systems **(R233202B)** , Renewable and Distributed Energy Technologies **(R233202C)**	**Professional Elective-III** Electric Drives(**R233202D**) Digital Signal Processing(**R233202E**)High Voltage Engineering(**R233202F**)	**Open Elective-II** Fundamentals of Electric Vehicles (**R233202G**) Electrical Wiring Estimation and Costing**R233202H**)	----
MECHANICAL ENGINEERING (03-ME)	Heat Transfer **(R2332031)**	Artificial Intelligence and Machine Learning **(R2332032)**	Finite Element Methods **(R2332033)**	**Professional Elective-II** Mechanical Vibrations(**R233203A**)Advanced ManufacturingProcesses (**R233203B**) Micro Electro Mechanical Systems(**R233203C**)Sensors and Instrumentation(**R233203D**)	**Professional Elective-III** Energy Storage Technologies(**R233203E**) Industrial Hydraulics and Pneumatics(**R233203F**) Industrial Robotics(**R233203G**) Refrigeration & Air-Conditioning(**R233203H**)	**Open Elective - II** Introduction to Industrial Robotics(**R233203I**) Industrial Management(**R233203J**) Additive Manufacturing(**R233203K**) Vechicle Technology(**R233203L**) Industrial Safety(**R233203M**)	----

ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	VLSI Design **(R2332041)**	Microprocessors & Microcontrollers **(R2332042)**	Digital Signal Processing **(R2332043)**	**Professional Elective–II** **A**nalog IC Design(**R233204A)** Satellite Communication(**R233204B**) Smartand Wireless Instrumentation(**R233204C**) Machine Learning(**R233204D)**	**Professional Elective–III** Bio Medical Instrumentation(**R233204E**) Microwave Engineering(**R233204F**) Embedded Systems(**R233204G**) Artificial Intelligence(**R233204H)**	**Open Elective – II** Linear and Digital IC Applications(**R233204I**) Principles of communications(**R233204J)** Principles of Signal Processing**(R233204K)** Microprocessors & Microcontrollers(**R233204L)**	----
COMPUTER SCIENE & ENGINEERING (05-CSE)	Compiler Design **(R2332051)**	Cloud Computing **(R2332052)** (Common to CSE ,IT ,CSE(IOTCSIBCT) CS	Cryptography & Network Security **(R2332053)** (Common to CSE ,IT ,CS	**Professional Elective-II** **S**oftware Testing Methodologies **(R233205A)** (COMMON TO CSE,IT, CSE(AIML)(CSE(CS)(CSE(AIDS),(CSE(IOTCSIBCT),(CSBS),(CYBER SEC) Cyber Security **(R233205B)** (COMMON TO CSE ,CS) DevOps **(R233205C)** (COMMON TO CSE/IT/CSE(AIML)(CSE(AI)(CSE(CS)(CSE(IOTCSIBCT)(CYBER SEC)) Machine Learning **(R233205D)** (COMMON TO CSE/CSE(IOTCSIBCT)	**Professional Elective-III** Software Project Management **(R233205F)** (COMMON TO CSE,IT,(CSE(AIML)(CSE(AI)(CSE(DS)(CSE(AIDS(CSE(CS)(CSE(IOTCSIBCT)(CSBS)(CS) Mobile Adhoc Networks **(R233205G)** (COMMON TO CSE,IT, (CSE(AIML)(CSE(AI)(CSE(CS)(CSE(IOTCSIBCT)(CSBS)(CSD)(CS) Natural Language Processing **(R233205H)** (COMMON TO(CSE) IT,CSE(CS)CSE(IOTCSIBCT)(CSBS)(CS) Big Data Analytics **(R233205I)** Distributed Operating System **(R233205J)**(COMMON TO CSE ,IT,CSBS/CS	**Open Elective – II** Principles of Database Management Systems **(R233205L)**(COMMON TO CSE,IT,CSE(AI),CSE(DS),CSE(AIDS), AIDS,AIML,CSD,CS	----
INFORMATION TECHNOLOGY (12-IT)	Machine Learning **R2332121** (COMMON TO IT,CSE(AIDS),CSE(CS),CSBS/CYBER SEC)	Cloud Computing **(R2332052)** (Common to CSE,IT , CSE(IOTCSIBCT) CS	Cryptography & Network Security **(R2332053)** (Common to CSE, IT ,CS	**Professional Elective-II** Software Testing Methodologies **R233205A**(COMMON TO CSE,IT,(CSE(AIML)(CSE(CS)(CSE(AIDS))(CSE(IOTCSIBCT)(CSBS)(CYBER SEC) DevOps **R233205C** Augmented Reality & Virtual Reality **R233212A** Generative AI **R233212B** (COMMON TO IT,CS)	**Professional Elective-III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Natural Language Processing **R233205H** Distributed Operating System **R233205J**	**Open Elective – II** Principles of Database Management Systems(**R233205L)**	----

AUTO MOBILE ENGINEERING (24-AME)	Vehicle Dynamics **R2332241**	Vehicle Body Engineering **R2332242**	Hybrid and Electric Vehicle Technology **R2332243**	**Professional Elective–II** Metal Forming & Press Working **R233224A** Battery Technology **R233224B** Machine Learning **R233224C** Condition Monitoring **R233224D** Engine Management Systems **R233224E**	**Professional Elective - III** CFD for Automobile Applications **R233224G** Modeling and Simulation in Manufacturing **R233224H** Lean Manufacturing **R233224I** Automobile HVAC **R233224J** Sensors and Actuators **R233224K**	**Open Elective – II** Two & Three Wheelers **R233224M Hybrid and EV Technology R233224N Alternative fuels for IC Engines R233224O**	----
MINING ENGINEERING (26-MM)	Mine Planning and Design **R2332261**	Surface Mining **R2332262**	Underground Metal Mining **R2332263**	**Professional Elective-II** Computer Applications in Mining **R233226A** Remote Sensing and GIS **R233226B** Optimization of Mining Systems **R233226C** Mine Automation **R233226D**	**Professional Elective-III** Mine Waste Management **R233226E** Dimensional Stone Mining **R233226F** Advanced Mining Techniques **R233226G** Tunnelling and Underground Space Technology **R233226H**	**Open Elective - II** Mineral Economics **R233226I** Landslides & Slope Stability Engineering **R233226J** Remote Sensing and GIS **R233226K** Geostatistics **R233226L**	----
AGRICULTURAL ENGINEERING (35-AGE)	Surface Water Hydrology **R2332351**	Farm Machinery and Equipment - II **R2332352**	Post-Harvest Engineering of Cereals, Pulses and Oilseeds **R2332353**	**Professional Elective-II** Food Packaging Technology **R233235A** Watershed Management **R233235B** Human Engineering and Safety **R233235C**	**Professional Elective-III** Irrigation and Drainage Engineering **R233235D** Production Technology of Agricultural Machinery **R233235E** Dairy and Food Engineering **R233235F**	**Open Elective - III** Principales of Database Management Systems or **R233235G** Process Equiment DesignGround Water Hydrology, Wells and Pumps **R233235H** Surface Water Hydrology **R233235I**	----
CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (42)	Natural Language Processing **R2332421** (COMMON TO CSE(AIML),AIDS)	Deep Learning **R2332422** (COMMON TO CSE(AIML),CSE(DS) AIDS)	Data Visualization **R2332423** (COMMON TO CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIML	**Professional Elective-II** Software Testing Methodologies **(R233205A)** (COMMON TO CSEIT, (CSE(AIML)(CSE(CS)(CSE(AIDS),(CSE(IOTCSIBCT)(CSBS)(CYBER SEC) DevOps **R233205C** Cryptography & Network Security **R233242A** (COMMON TO CSE(AIML)/CSE(AI)/CSE(DS),CSE(AIDS),AIDS/AIML/CSD) Recommender Systems **R233242B** (COMMON TO CSE(AIML)/CSE(AI),CSE(DS)/CSE(AIDS),AIDS,AIML)	**Professional Elective-III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Computer Vision **R233242D** (COMMON TO CSE(AIML)/CSE(AI)/CSE(DS),AIML) NoSQL Databases **R233242E**(COMMON TO CSE(AIML),CSE(DS),AIDS)	**Open Elective – II** Principles of Database Management Systems **R233205L**	----

CSE (ARTIFICIAL INTELLIGENCE) (43)	Software Engineering **R2332431**	Generative A.I **R2332432**	Data Visualization **R2332423** (COMMON TO CSE(AIML),CSE(AI)/CSE(DS),CSE(AIDS),AIML	**Professional Elective-II** Software Testing Methodologies **(R233205A)** (COMMON TO CSE,IT,(CSE(AIML)(CSE(CS)(CSE(AIDS),(CSE(IOTCSIBCT)(CSBS)(CYBER SEC) DevOps **R233205C** Cryptography & Network Security **R233242A** Recommender Systems **R233242B**	**Professional Elective-III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Computer Vision **R233242D** Cloud Computing **R233243A** (COMMON TO CSE(AI),CSE(AIDS),AIML)	**Open Elective - II** Principles of Database Management Systems **R233205L**	----
CSE (DATA SCIENCE) (44)	Operating Systems **R2332441**	Deep Learning **R2332422** (COMMON TO CSE(AIML),CSE(DS), AIDS)	Data Visualization **R2332423** (COMMON TO CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIML	**Professional Elective-II** Social Media Analytics **R233244A** Cryptography & Network Security **R233242A** Recommender Systems **R233242B** Cloud Computing **R233244B** (COMMON TO CSE(DS),CSBS/CSD) Sensor Networks **R233244C**	**Professional Elective-III** Software Project Management **R233205F** Quantum Computing **R233244D** (COMMON TO CSE(DS),CSE(AIDS),AIDS) Computer Vision **R233242D** NoSQL databases **R233242E**	**Open Elective – II** Principles of Database Management Systems **R233205L**	----
CSE (ARTIFICIAL INTELLIGENCE AND DATA SCIENCE) (45)	Machine Learning **R2332121** (COMMON TO IT,CSE(AIDS),CSE(CS),CSBS/CYBER SEC)	---	Data Visualization **R2332423** (COMMON TO CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIML	**Professional Elective-II** Software Testing Methodologies (R233205A) (COMMON TO CSE,IT,(CSE(AIML)(CSE(CS)(CSE(AIDS))(CSE(IOTCSIBCT)(CSBS)(CYBER SEC) Cryptography & Network Security **R233242A** Recommender Systems **R233242B** NoSQL databases **R233245A** Computer Vision **R233245B** (COMMON TO	**Professional Elective-III** Software Project Management **R233205F** Cloud Computing **R233243A** Quantum Computing **R233244D** Social Network Analysis **R233245C**	**Open Elective – II** Principles of Database Management Systems **R233205L**	Big Data Analytics **R2332451** (COMMON TO CSE(DS)/CSE(AIDS)AIDS)
CSE (CYBER SECURITY) (46)	Machine Learning **R2332121** (COMMON TO IT,CSE(AIDS)/CS,(CS),CSBS/CYBER SEC)	Cryptography & Network Security **R2332462**	Cyber Crimes & Digital Forensics **R2332461**	**Professional Elective-II** Software Testing Methodologies **R233205A** DevOps **R233205C** Microprocessors & Microcontrollers **R233246A** (COMMON TO CSE (CS),CSE(IOTCSIBCT)	**Professional Elective-III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Natural Language Processing **R233205H** Security Assessment and Risk Analysis **R233246C** (COMMON TO CSE(CS),CSE(IOTCSIBCT,CYBER SEC	**Open Elective – II** Operating systems **R233257D**	----

CSE (INTERNET OF THINGS AND CYBER SECURITY INCLUDING BLOCK CHAIN TECHNOLOGY) (47)	Cyber Security and digital forensics **R2332471**	Cloud Computing **(R2332052)** (Common to CSE / IT / CSE(IOTCSIBCT) CS	Blockchain Technology **R2332472** (COMMON TO CSE(IOTCSIBCT/CYBER SEC)	**Professional Elective-II** DevOps **R233205C** Microprocessors & Microcontrollers **R233246A** Machine Learning **R233205D**	**Professional Elective-III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Natural Language Processing **R233205H** Security Assessment and Risk Analysis **R233246C**	**Open Elective – II** **Operating systems R233257D**	----
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Natural Language Processing **R2332421** (COMMON TO CSE(AIML),AIDS)	Deep Learning **R2332422** (COMMON TO CSE(AIML), CSE(DS), AIDS)	----	**Professional Elective- II** Cryptography & Network Security **R233242A** Operating Systems **R233254A** Recommender Systems **R233242B** Computer Vision **R233245B** Automata Theory & Compiler Design **R233254B**	**Professional Elective- III** Quantum Computing **R233244D** NoSQL databases **R233242E** Cloud Computing **R233243A** Social Media Analytics **R233254C**	**Open Elective – II** Principles of Database Management Systems **R233205L**	Big Data Analytics **R2332451**
PHARMACEUTICAL ENGINEERING (55)	Pharmaceutical Engineering-2 **R2332551**	Biopharmaceutics and Pharmacokinetics **R2332552**	Principles of Transducers and Measurements **R2332553**	**Professional Elective -II** Computer Aided Drug Design **R233255A** Pharmaceutical Regulatory Affairs **R233255B** Novel Drug Delivery Systems **R233255C**	**Professional Elective - III** Bio Medical Instrumentation **R233255D** Pharmaceutical Product Development **R233255E** Industrial Process Control **R233255F**	**Open Elective - III** Robotics **R233255G** Synthesis and Characterization of Nano Materials **R233255H** Water conservation and Management **R233255I**	----
COMPUTER SCIENCE AND BUSINESS SYSTEM (57)	Machine Learning **R2332121** (COMMON TO IT,CSE(AIDS),CSE(CS),CSBS,CYBER SEC)	Marketing Research and Marketing Management **R2332571**	Financial And Cost Accounting **R2332572**	**Professional Elective-II** Software Testing Methodologies **R233205A** DevOps **R233205C** Principles of Cybersecurity **R233257A** Cloud Computing **R233244B**	**Professional Elective- III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Natural Language Processing **R233205H** Distributed Operating System **R233205J**	**Open Elective–II** Operating Systems **R233257D**	----
CYBER SECURITY (59)	Machine Learning **R2332121** (COMMON TO IT,CSE(AIDS),CSE(CS),CSBS/CYBER SEC)	Cyber Security& Digital Forensics **R2332591**	Blockchain Technology **R2332472** (COMMON TO CSE(IOTCSIBCT,CYBER SEC)	**Professional Elective-II** Software Vulnerability Analysis **R233259A** DevOps **R233205C** Applied Cryptography **R233259B** Internet of Things **R233259C**	**Professional Elective-III** Design of secure protocols **R233259E** Firewalls & VPN Security **R233259F** Web Application Security **R233259G** Security Assessment and Risk Analysis **R233246C**	**Open Elective – II** Operating systems **R233257D**	----

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Reinforcement Learning **R2332611**	----	Data Visualization **R2332423** (COMMON TO CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIML	**Professional Elective-II** Cryptography & Network Security **R233242A** Recommender SystemsR **233242B** Software Engineering **R233261A** Social Network Analysis **R233261B**	**Professional Elective-III** Computer Vision **R233242D** Cloud Computing **R233243A** DevOps **R233261D** Soft Computing **R233261E**	**Open Elective – II** Principles of Database Management Systems **R233205L**	Big Data Analytics **R2332451** (COMMON TO CSE(DS)/CSE(AIDS) AIDS)
COMPUTER SCIENCE AND DESIGN (62)	Automata Theory & Compiler Design **R2332621**	Multimedia Applications & Development **R2332622**	Design of Interactive systems **R2332623**	**Professional Elective-II** Software Testing Methodologies **R233205A** Cryptography & Network Security **R233242A** Cloud Computing **R233244B** Principles of Video Editing and 3D Animation **R233262A**	**Professional Elective-III** Object Oriented Analysis and Design **R233262B** Mobile Adhoc Networks **R233205G** Augmented Reality and Virtual Reality **R233262C** Computer Graphics & Animation **R233262D**	**Open Elective – II** Principles of Database Management Systems **R233205L**	----
COMPUTER SCIENCE (CoS-68)	DevOps **R2332681**	Cloud Computing **(R2332052)** (Common to CSE,IT , CSE(IOTCSIBCT) CS	Cryptography & Network Security **(R2332053)** (Common to CSE,IT , CS	**Professional Elective- II** Software Testing Methodologies **R233205A** Cyber Security **R233205B** Computer Vision **R233245B** Generative AI **R233212B**	**Professional Elective- III** Software Project Management **R233205F** Mobile Adhoc Networks **R233205G** Natural Language Processing **R233205H** Distributed Operating System **R233205J**	**Open Elective – II** Principles of Database Management Systems **R233205L**	----

NOTE:

(i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS, IMMEDIATELY.

(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

(iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUED IN THE ABOVE LIST IMMEDIATELY.

Sd/-
Controller of Examinations

DATE: 01.10.2026