



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH II SEMESTER (R20) REGULAR/SUPPLEMENTARY EXAMINATIONS, MAY/JUNE-2024

TIME TABLE

TIME: 10.00 AM TO 01.00 PM

BRANCH	DATE & DAY					
	24-05-2024 (Friday)	27-05-2024 (Monday)	01-06-2024 (Saturday)	03-06-2024 (Monday)	05-06-2024 (Wednesday)	07-06-2024 (Friday)
CIVIL ENGINEERING (01 CE)	Design And Drawing of Steel Structures (R2032011)	Water Resource Engineering (R2032012)	Geotechnical Engineering-II (R2032013)	Professional Elective (PE- II) :- Advanced Structural Analysis R203201A Architecture and Town Planning R203201B Road Safety Engineering R203201C Traffic Engineering R203201D	Open Elective (OE II) :- Elements of Civil Engineering R203201E Environmental Engineering R203201F Disaster Management R203201G Water Resource Engineering R203201H Hydraulics and Hydraulic Machinery R203201I Green Technologies R203201J Remote Sensing and GIS R203201K (Common to CE,MM)	Earthquake Resistant Design R203201L
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Microprocessors and Microcontrollers (R2032021)	Electrical Measurements and Instrumentation (R2032022)	Power System Analysis (R2032023)	Professional Elective (PE) :- Signal and Systems R203202A Electric Drives R203202B Advanced Control Systems R203202C Switchgear and Protection R203202D Big Data Analytics R203202E	Open Elective (OE II) :- Battery Management Systems and Charging Stations R203202F Fundamentals of utilization of Electrical Energy R203202G Indian Electricity Act R203202H	HVDC Transmission R203202I
MECHANICAL ENGINEERING (03 ME)	Heat Transfer (R2032031)	Design of Machine Members-II (R2031032)	Introduction to Artificial Intelligence and Machine Learning (R2032033)	Professional Elective (PE) :- Automobile Engineering R203203A Smart Manufacturing R203203B Advanced Mechanics of Solids R203203C Statistical Quality Control R203203D Industrial Hydraulics and Pneumatics R203203E	Open Elective (OE II) :- Industrial Robotics R203203G Essentials of Mechanical Engineering R203203H Advanced Materials R203203I Introduction to Automobile Engineering R203203J	Advanced Computational Fluid Dynamics R203203K Electric & Hybrid Vehicles R203203L



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ELECTRONICS & COMMUNICATION ENGINEERING (04 ECE)	Microprocessor and Microcontrollers (R2032041)	VLSI Design (R2032042)	Digital Signal Processing (R2032043)	<u>Professional Elective (PE) :-</u> Microwave Engineering R203204A Mobile & Cellular Communication R203204B Embedded Systems R203204C CMOS Analog IC Design R203204D	<u>Open Elective (OE II) :-</u> Basics of Signals and Systems R203204E Electronic Measurements and Instrumentation R203204F Principles of Signal Processing R203204G Industrial Electronics R203204H Consumer Electronics R203204I Fundamentals of Microprocessors and Microcontrollers R203204J Transducers and Sensors R203204K IOT and Applications R203204L Soft Computing Techniques R203204M IC Applications R203204N Principles of Communications R203204O Basic Electronics R203204P Data Communications R203204Q Digital Logic Design R203204R Remote Sensing and GIS R203204S Bio Medical Instrumentation R203204T	Principles of Communication R203204U, IOT Architecture and It's Protocols R203249C
COMPUTER SCIENCE & ENGINEERING (05 CSE)	Machine Learning (R2032051) (Common to CSE,IT)	Compiler Design (R2032052)	Cryptography and Network Security (R2032053) (Common to CSE,IT)	<u>Professional Elective (PE) :-</u> Mobile Computing R203205A (Common to CSE,IT) Big Data Analytics R203205B Object Oriented Analysis and Design R203205C Network Programming R203205D (Comm to CSE,CSE(AIML),CSE(AI),AIML,CSD)	<u>Open Elective (OE II) :-</u> MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,,AIML,CSD) Python Programming R203205F (Common to CSE,IT) Web Technologies R203205G (Common to CSE,IT) Soft Computing R203205H Distributed Computing R203205I (Common to CSE,IT) AI and ML for Robotics R203205J (Common to CSE,IT) Computer Networks R203205K (Common to CSE,IT) Big Data Analytics R203205L (Common to CSE,IT) Computational Tools R203205M (Common to CSE,IT)	Computational Thinking R203205N, Operating Systems R203205Q, Database Management Systems R203205R, , Mining Massive Data Sets R203205O, Natural Language Processing R203205P Objected Oriented Programming Through Java R203205V Data Structures and Algorithms R203205T Information Security Analysis and Audit R203205Y



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INFORMATION TECHNOLOGY (12 IT)	Machine Learning (R2032051) (Common to CSE,IT)	Big Data Analytics (R2032121) (Comm to IT,CSE(DS),CSE(AIDS),AIDS)	Cryptography and Network Security (R2032053) (Common to CSE,IT)	<u>Professional Elective (PE II) :-</u> Mobile Computing R203205A (Common to CSE,IT) MEAN Stack Development R203212A Design Patterns R203212B Scripting Languages R203212C	<u>Open Elective (OE II) :-</u> Python Programming R203205F (Common to CSE,IT) Web Technologies R203205G (Common to CSE,IT) Soft Computing R203205H (Common to CSE,IT) Distributed Computing R203205I (Common to CSE,IT) AI and ML for Robotics R203205J (Common to CSE,IT) Computer Networks R203205K (Common to CSE,IT) Big Data Analytics R203205L (Common to CSE,IT) Computational Tools R203205M (Common to CSE,IT)
AUTO MOBILE ENGINEERING (24 AME)	Automobile Components and Chassis Design (R2032241)	Automobile Transmission Systems (R2032242)	Vehicle Body Engineering (R2032243)	<u>Professional Elective (PE II) :-</u> CFD for Automobile Applications R203224A Condition Monitoring R203224B Noise Vibrations and Harshness R203224C Mechatronics R203224D Measurements and Control Systems R203224E	<u>Open Elective (OE II) :-</u> Alternative Fuels for Automobiles R203224G Vehicle Stability and Control R203224H Electric Vehicles and Hybrid Technology R203224I
MINING ENGINEERING (26 MM)	Surface Mining (R2032261)	Mine Legislation and Safety (R2032262)	Underground Metal Mining (R2032263)	<u>Professional Elective (PE) :-</u> Computer Applications and Tools R203226A Mine Economics R203226B Mine Mechanization R203226C Mine Automation R203226D	<u>Open Elective (OE II) :-</u> Mineral Economics, Business and Trade R203226E Landslides & Slope Stability Engineering R203226F Remote Sensing and GIS R203201K Geostatistics R203226G



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AGRICULTURAL ENGINEERING (35 AGE)	Soil and Water Conservation Engineering (R2032351)	Farm Machinery and Equipment - II (R2032352)	Agricultural Process Engineering (R2032353)	Professional Elective (PE) :- Food Packaging Technology R203235A Watershed Management R203235B Human Engineering and Safety R203235C	Open Elective (OE II) :- Principles of Soil Science and Agronomy R203235D Farm Power and Tractor Systems R203235E Soil and Water Conservation Engineering R203235F Ground Water Hydrology, Wells and Pumps R203235G, Surface Water Hydrology R203235H, Post Harvest Engineering of Cereals, Pulses and Oilseeds R203235I, Agricultural Process Engineering R203235J
CSE (Artificial Intelligence and Machine Learning) (42)	Computer Networks (R2032421) (Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)	Deep Learning (R2032422) (Common to CSE(AIML), CSE(AI),AIML)	Design and Analysis of Algorithms (R2032423) (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)	Professional Elective (PE) :- Software Project Management R203242A (Comm to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Distributed Systems R203242B (Comm to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Internet of Things R203242C (Comm to CSE(AIML),CSE(AI),AIML) Network Programming R203205D (Comm to CSE,CSE(AIML),CSE(AI),AIML,CSD)	Open Elective (OE I) :- MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)
CSE (Artificial Intelligence) (43)	Computer Networks (R2032421) (Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)	Deep Learning (R2032422) (Common to CSE(AIML), CSE(AI),AIML)	Design and Analysis of Algorithms (R2032423) (Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AIDS), AIDS,AIML)	Professional Elective (PE) :- Software Project Management R203242A (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Distributed Systems R203242B (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Internet of Things R203242C (Common to CSE(AIML),CSE(AI),AIML) Network Programming R203205D (Comm to CSE,CSE(AIML),CSE(AI),AIML,CSD) Expert Systems R203243A	Open Elective (OE II) :- MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)



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CSE (Data Science) (44)	Computer Networks (R2032421) (Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)	Big Data Analytics (R2032121) (Common to IT,CSE(DS),CSE(AIDS),AIDS)	Design and Analysis of Algorithms (R2032423) (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Professional Elective (PE) :- Deep Learning R203244A (Comm to CSE(DS),CSE(AIDS),AIDS,CSD) Software Project Management R203242A (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Distributed Systems R203242B (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Data Wrangling in Data Science R203244B (Comm to CSE(DS),CSE(AIDS),AIDS) ETL Principles R203244C	Open Elective (OE II) :- MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)
CSE (Artificial Intelligence and Data Science) (45)	Computer Networks (R2032421) (Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)	Big Data Analytics (R2032121) (Common to IT,CSE(DS),CSE(AIDS),AIDS)	Design and Analysis of Algorithms (R2032423) (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Professional Elective (PE) :- Deep Learning R203244A (Comm to CSE(DS),CSE(AIDS),AIDS,CSD) Software Project Management R203242A (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Distributed Systems R203242B (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Data Wrangling in Data Science R203244B (Comm to CSE(DS),CSE(AIDS),AIDS) Snow Flake Cloud Analytics R203245A (Common to CSE(AIDS),AIDS)	Open Elective (OE II) :- MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)
CSE (Cyber Security) (46)	Machine Learning (R2032462) (Common to CSE(CS),CSE(IOT),CS)	Cryptography and Network Security (R2032461) (Comm to CSE(CS),IOTCSIBCT,CS)	Introduction to Cyber Security (R2032463) (Common to CSE(CS),IOTCSIBCT,CS)		Open Elective (OE II) :- Web Services R203246B (Comm to CSE(CS),IOTCSIBCT,CS)



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CSE (Internet of things and Cyber security including Block chain Technology) (47)	Block Chain Technologies (R2032471)	Cryptography and Network Security (R2032461) (Common to IT,CSE(DS),CSE(AIDS) ,AIDS)	Introduction to Cybersecurity (R2032463) (Common to CSE(CS),IOTCSIBCT, CS)		Open Elective (OE II) :- Web Services R203246B (Comm to CSE(CS)IOTCSIBCT,CS)
CSE (Internet of Things) (49)	Machine Learning (R2032462) (Common to CSE(CS)CSE(IOT),CS)	Embedded System Design (R2032491)	Sensors and Actuator Devices for IoT (R2032492)		Open Elective (OE II) :- Social Network and Semantic Web Course R203249B
FOOD ENGINEERING (51)	Mass Transfer in Food Processing (R2032511)	Processing of Milk, Meat and Marine Products (R2032512)	Food Packaging Technologies (R2032513)	Separation Techniques in Food Processing R203251A Thermal Operations in Food Processing R203251B Automation in Food Industry R203251C	Membrane Technology in Food Engineering R203251D Renewable Energy Systems R203251E TQM in Food Industry R203251F
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Computer Networks (R2032421) (Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)	Big Data Analytics (R2032121) (Common to IT,CSE(DS),CSE(AIDS) ,AIDS)	Design and Analysis of Algorithms (R2032423) (Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AIDS), AIDS,AIML)	Professional Elective (PE) :- Deep Learning R203244A (Common to CSE(DS),CSE(AIDS),AIDS,CSD) Software Project Management R203242A Distributed Systems R203242B (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AID S,AIML,CSD) Data Wrangling in Data Science R203244B (Common to CSE(DS),CSE(AIDS),AIDS) Snow Flake Cloud Analytics R203245A (Common to CSE(AIDS),AIDS)	Open Elective (OE II) :- MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS ,,AIML,CSD)



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PHARMACEUTICAL ENGINEERING (55)	Pharmaceutical Engineering – II (R2032551)	Instrumental Methods of Analysis (R2032552)	Principles of Transducers and Measurements (R2032553)	Professional Elective (PE) :- Computer Aided Drug Design R203255A Pharmaceutical Regulatory Affairs R203255B Novel Drug Delivery Systems R203255C	Open Elective (OE II) :- Hospital Management and Information Systems R203255D Neural Networks and Fuzzy Logic R203255E Introduction to Database Management R203255F	Water Conservation Management (R2032554)
CYBER SECURITY (59)	Machine Learning (R2032462) (Common to CSE(CS),CSE(IOT),CS)	Cryptography and Network Security (R2032461) (Common to IT,CSE(DS),CSE(AIDS),AIDS)	Introduction to Cyber Security (R2032463) (Common to CSE(CS),IOTCSIBCT,CS)		Open Elective (OE II) :- Web Services R203246B (Common to CSE(CS),IOTCSIBCT,CS)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Computer Networks (R2032421) (Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)	Deep Learning (R2032422) (Common to CSE{ AIML}, CSE(AI),AIML)	Design and Analysis of Algorithms (R2032423) (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML)	Professional Elective (PE) :- Software Project Management R203242A (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Distributed Systems R203242B (Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD) Internet of Things R203242C (Common to CSE(AIML),CSE(AI),AIML) Network Programming R203205D (Comm to CSE,CSE(AIML),CSE(AI),AIML,CSD)	Open Elective (OE II) :- MEAN Stack Development R203205E (Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)



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COMPUTER SCIENCE AND DESIGN (62)	Computer Networks (R2032421) <small>(Comm to CSE(AIML),CSE(AI), CSE(DS), CSE(AIDS), AIDS,AIML, CSD)</small>	Computer Aided Design (R2032621)	Design and Analysis of Algorithms (R2032423) <small>(Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AI DS),AIDS,AIML)</small>	Professional Elective (PE) :- Deep Learning R203244A <small>(Common to CSE(DS),CSE(AIDS),AIDS,CSD)</small> Software Project Management R203242A <small>(Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AID S,AIML,CSD)</small> Distributed Systems R203242B <small>(Common to CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AID S,AIML,CSD)</small> Network Programming R203205D <small>(Comm to CSE,CSE(AIML),CSE(AI),AIML,CSD)</small>	Open Elective (OE II) :- MEAN Stack Development R203205E <small>(Common to CSE,CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),AIDS ,,AIML,CSD)</small>

NOTE:

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

Date: 04-05-2024

H. R. K. K. K.
Controller of Examinations (UG)