



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

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



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Electrical & Electronics Engineering (02)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Digital Signal Processing (R204102A)/ Renewable and Distributed Energy Technologies (R204102B)/ Flexible Alternating Current Transmission Systems (R204102C)/ Power Systems Deregulation (R204102D)/ Data Base Management Systems (R204102E)	Professional Elective-IV : Hybrid Electric Vehicles (R204102F)/ High Voltage Engineering (R204102G)/ Programmable Logic Controllers and Applications (R204102H)	Professional Elective-V : Power System Operation and Control (R204102I)/ Switched Mode Power Conversion (R204102J)/ AI Applications to Electrical Engineering (R204102K)	Open Elective-III : Concepts of Microprocessors and Microcontrollers (R204102L)/ Fundamentals of Electric Vehicles (R204102M)/ Concepts of Internet of Things (R204102N)	Open Elective-IV : Concepts of Power System Engineering (R204102O)/ Concepts of Smart Grid Technologies (R204102P)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4) Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)



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Mechanical Engineering (03)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Mechanical Vibrations (R204103A)/ Operations Research (R204103B)/ Unconventional Machining Processes (R204103C)/ Computational Fluid Dynamics (R204103D)/ Gas Dynamics and Jet Propulsion (R204103E)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103F)	Professional Elective-IV : Automation in Manufacturing (R204103G)/ Power Plant Engineering (R204103H)/ Big Data Analytics (R204103I)/ Production Planning and Control (R204103J)/ Condition Monitoring (R204103K)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103L)	Professional Elective-V : Advanced Manufacturing Processes (R204103M)/ Refrigeration & Air-Conditioning (R204103O)/ Non Destructive Evaluation (R204103Q)/ MOOCs (NPTEL/Swayam) Course (12 Week duration) (R204103R)	Open Elective-III : Finite Element Methods (R204103S)/ Introduction to Artificial Intelligence & Machine Learning (R204103T)	Open Elective-IV : Optimization Techniques (R204103U)/ Smart Manufacturing (R204103V)/ Safety Engineering (R204103W)/ Operations Management (R204103X)	Mechatronics (R204103N) (Common to PE-V & OE-3) / Additive Manufacturing (R204103P) (Common to PE-V & OE-3)



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Electronics & Communication Engineering (04)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Optical Communication (R204104A)/ Digital Image Processing (R204104B)/ Low Power VLSI Design (R204104C)	Professional Elective-IV : Satellite Communications (R204104D)/ Soft Computing Techniques (R204104E)/ Digital IC Design using CMOS (R204104F)	Professional Elective-V : Radar engineering (R204104G)/ Pattern recognition & Machine Learning (R204104H)/ Internet of Things (R204104I)	Open Elective-III : Basics of Signals and Systems (R204104J)/ Electronic Measurements and Instrumentation (R204104K)/ Principles of Signal Processing (R204104L)/ Industrial Electronics (R204104M)/ Consumer Electronics (R204104N)/ Fundamentals of Microprocessors and Microcontrollers (R204104O)/ Transducers and Sensors (R204104P)/ IOT and Applications (R204104Q)	Open Elective-IV : Soft Computing Techniques (R204104R)/ IC Applications (R204104S)/ Principles of Communications (R204104T)/ Basic Electronics (R204104U)/ Data Communications (R204104V)/ Digital Logic design (R204104W)/ Remote Sensing and GIS (R204104X)/ Bio Medical Instrumentation (R204104Y)



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Computer Science & Engineering (05)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Cloud Computing (R204105A) (Common to CSE, IT)/ Neural Networks and Soft Computing (R204105B) / Ad-hoc and Sensor Networks (R204105C) / Cyber Security & Forensics (R204105D) (Common to CSE, IT)	Professional Elective-IV : Computer Vision (R204105G) (Common to CSE, AIDS, CSD)/ MOOCS-NPTEL/SWAYAM (R204105H)	Professional Elective-V : Wireless Network Security (R204105J)/ Ethical Hacking (R204105K) (Common to CSE, IT)/ MOOCS-NPTEL/SWAYAM (R204105L) / Block Chain Technologies (R204105I) (Common to CSE, IT)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Social Network And Semantic Web (Job Oriented Course) (R204105F) (Common to CSE, PE-IV & CSE(IOTCSIBCT) OE-3) / Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)



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Information Technology (12)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Cloud Computing (R204105A) (Common to CSE, IT) / Cyber Security & Forensics (R204105D) (Common to CSE, IT)/ Artificial Neural Networks (R204112A)/ Internet of Things (IoT) (R204112B)	Professional Elective-IV : Advanced Databases (R204112D)/ MOOCS-NPTEL/SWAYAM (R204112E)/ Social Networks Analysis (R204112C)	Professional Elective-V : M-Commerce (R204112F)/ Ethical Hacking (R204105K) (Common to CSE, IT)/ MOOCS-NPTEL/SWAYAM (R204112G) / Block Chain Technologies (R204105I) (Common to CSE, IT)	Open Elective-III : AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)



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Automobile Engineering (24)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Automobile HVAC (R204124B)/ Special Purpose Vehicles (R204124C)/ Vehicle Infotonics (R204124E)/ MOOC's/NPTEL (R204124F)	Professional Elective-IV : Automobile Certification and Homologation (R204124G)/ Total Quality Management (R204124H)/ Electric Vehicles and Hybrid Technology (R204124I)/ Facilities Planning and Material Handling (R204124J)/ Rapid Prototyping (R204124K)/ MOOC's/NPTEL (R204124L)	Professional Elective-V : Automobile Comfort Systems And Ergonomics (R204124M)/ Lean Manufacturing (R204124N)/ Vehicle Design Data Characteristics (R204124O)/ Reliability Engineering (R204124P)/ Smart, Autonomous and Connected Vehicles (R204124Q)/ MOOC's/NPTEL (R204124R)	Open Elective-III : Automobile Power train (R204124S)/ IC Engines (R204124T)	Open Elective-IV : Automobile Materials and Manufacturing Techniques (R204124U)/ Automobile Electrical and Electronics (R204124V)	Automobile Safety (R204124A) (Common to PE-III & OE-3)	Engine Management Systems (R204124D) (Common to PE-III & OE-4)



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Mining Engineering (26)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Operations Research (R204126A)/ Dimensional Stone Mining (R204126B)/ Advanced Mining Techniques (R204126C)/ Planning of Underground Metal mining techniques (R204126D)	Professional Elective-IV : Mine closure and Reclamation (R204126E)/ Surface Mine Environment (R204126F) / Mineral Economics, Business and Trade (R204126H)	Professional Elective-V : Subsidence Engineering (R204126I)/ Rock Slope Engineering (R204126J)/ Advances in Rock Fragmentation (R204126K)/ Tunneling and Underground Space Technology (R204126L)	Open Elective-III : Mine Waste Management (R204126M)/ Mine Reclamation (R204126N)/ Environmental Impact of Mining (R204126O)	Open Elective-IV : Principles of Mineral Engineering (R204126P)/ Mine Instrumentation (R204126Q)/ Mine Safety & Ergonomics (R204126R)/ Numerical Methods in Mining Engineering (R204126S)	Sustainable Development for Mining (R204126G) (Common to PE-IV & OE-3)
Agricultural Engineering (35)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Irrigation and Drainage Engineering (R204135A)/ Production Technology of Agricultural Machinery (R204135B)/ Food Plant Design and Management (R204135C)	Professional Elective-IV : Design of Soil and Water Conservation and Farm Systems (R204135D)/ Food Process Equipment Design (R204135E)/ Design of Agricultural Machinery (R204135F)	Professional Elective-V : Micro Irrigation Engineering (R204135G)/ Mechatronics in Agricultural Engineering (R204135H)/ Dairy and Food Engineering (R204135I)	Open Elective-III : Principles of Soil Science and Agronomy (R204135J)/ Farm Power and Tractor Systems (R204135K)/ Soil and Water Conservation Engineering (R204135L)/ Ground Water Hydrology, Wells and Pumps (R204135M)	Open Elective-IV : Surface Water Hydrology (R204135N)/ Post Harvest Engineering of Cereals, Pulses and Oilseeds (R204135O)/ Agricultural Process Engineering (R204135P)



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



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



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
	19-09-2023 (Tuesday)	20-09-2023 (Wednesday)	21-09-2023 (Thursday)	22-09-2023 (Friday)	23-09-2023 (Saturday)	25-09-2023 (Monday)	26-09-2023 (Tuesday)	27-09-2023 (Wednesday)
CSE (Data Science) (44)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-IV : SnowFlake Cloud Analytics (R204144C)/ Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
	19-09-2023 (Tuesday)	20-09-2023 (Wednesday)	21-09-2023 (Thursday)	22-09-2023 (Friday)	23-09-2023 (Saturday)	25-09-2023 (Monday)	26-09-2023 (Tuesday)	27-09-2023 (Wednesday)
CSE (Artificial Intelligence and Data Science) (45)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-IV : Computer Vision (R204105G) (Common to CSE, CSE(AIDS), AIDS, CSD)/ Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R204105I) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
	19-09-2023 (Tuesday)	20-09-2023 (Wednesday)	21-09-2023 (Thursday)	22-09-2023 (Friday)	23-09-2023 (Saturday)	25-09-2023 (Monday)	26-09-2023 (Tuesday)	27-09-2023 (Wednesday)
CSE (Cyber Security) (46)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Internet Of Things (R204146A)/ Information Coding (R204146D) / Mobile and Wireless Security (R204146E) (Common to CSE(CS), CS)	Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R)	Professional Elective-V : Cyber Laws and Security Policies (R204146J)/ Intrusion Detection and Prevention System (R204146K)/ Data Privacy (R204146L)/ Ethical Hacking (R204146M)	Open Elective-III : DevOps (Job Oriented Course) (R204146N)/ Cryptography and Network Security (R204146O)	Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS)/ Cloud Computing (R204146G) (Common to CSE(CS) PE-IV , OE-3 & CSE(IoT) PE-IV)	Distributed Systems (R204146C) (Common to CSE(CS), CS PE-III & OE-4) / Cyber Crime Investigation and Digital Forensics (R204146F) (Common to CSE(CS), CS PE-IV , OE-4 & CSE(IOTCSIBCT) PE-IV) / Mean Stack Technologies (R204146H) (Common to CSE(IoT),CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering (R204146I) (Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4) / Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS),CSE(IOTCSIBCT), CSE(IoT) OE-4)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

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CSE (Internet of things and Cyber security including Block chain Technology) (47)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Software Testing Methodologies (R204147A)/ NoSQL Databases (R204147B)/ Privacy and Security in IOT (R204147C)/ Cloud Computing (R204147Q)	Professional Elective-IV : Object Oriented Analysis & Design Using UML (R204147D)/ Intrusion Detection Systems (R204147E)	Professional Elective-V : Deep Learning (R204147F)/ Quantum Computing (R204147G)/ Dev Ops (R204147H)	Open Elective-III : Sensors and Actuator Devices for IoT (R204147J)/ Cryptography and Network Security (R204146O)	Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)/ Distributed Computing (R204147M)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) /Big Data Analytics for IoT (R204147I) (Common to CSE(IoT) PE-IV & CSE(IoT) OE-3)	Mean Stack Technologies (R204146H) (Common to CSE(IoT),CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering (R204146I) (Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4) /Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS),CSE(IOTCSIBCT), CSE(IoT) OE-4)/ Programming and Interfacing with Microcontrollers (R204147K) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) / Block Chain Technologies (R204147L) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) / Cyber



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

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CSE (Internet of Things) (49)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Mobile Computing (R204149A)/ No SQL Databases (R204147B)/ Privacy and Security in IOT (R204147C)	Professional Elective-IV : Fog Computing (R204149B)	Professional Elective-V : Deep Learning (R204147F)/ Wearable Computing (R204149C)/ Dev Ops (R204147H)/ Software Testing Methodologies (R204149I)	Open Elective-III : Middleware Technologies (Job Oriented Course) (R204149D)/ Sensors and Actuator Devices for IoT (R204147J)/ Embedded System Design (R204149E)	Open Elective-IV : Multimedia And Rich Internet Applications (R204146P)/ Cryptography and Network Security (R204149J)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) /Big Data Analytics for IoT (R204147I) (Common to CSE(IoT) PE-IV & CSE(IOTCSIBCT), CSE(IoT) OE-3) / Cloud Computing (R204146G) (Common to CSE(CS) PE-IV , OE-3 & CSE(IoT) PE-IV)	Mean Stack Technologies (R204146H) (Common to CSE(IoT),CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) /Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS),CSE(IOTCSIBCT), CSE(IoT) OE-4)/ Programming and Interfacing with Microcontrollers (R204147K) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4) / Block Chain Technologies (R204147L) (Common to CSE(IoT) PE-III & CSE(IOTCSIBCT), CSE(IoT) OE-4)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
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FOOD ENGINEER ING (51)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Advances in Drying and Dehydration (R204151A)/ Process Kinetics in Food Engineering (R204151B)/ Non-Thermal Operations in Food Processing (R204151C)	Professional Elective-IV : Food Process Equipment Design (R204151D)/ Sensors in Food Processing (R204151E)/ New Product Development (R204151F)	Professional Elective-V : Entrepreneurship in Food Industries (R204151G)/ Food Supply Chain Management (R204151H)/ Food Business Management and Economics (R204151I)	Open Elective-III : Food Sanitation, Management and Hygiene (R204151J)/ Energy Conservation and Audit (R204151K)/ Food Waste Management (R204151L)	Open Elective-IV : Food Refrigeration and Cold Chain (R204151M)/ Food Plant Operations and Maintenance (R204151N)/ ICT Applications in Food Processing (R204151O)/ SWAYAM / NPTEL /MOOCS COURSES (12 weeks duration) (R204151P)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
	19-09-2023 (Tuesday)	20-09-2023 (Wednesday)	21-09-2023 (Thursday)	22-09-2023 (Friday)	23-09-2023 (Saturday)	25-09-2023 (Monday)	26-09-2023 (Tuesday)	27-09-2023 (Wednesday)
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Reinforcement Learning (R204142A)/ Nature Inspired Computing Techniques (R204144A)/ Social Media Analytics (R204144B)/ Block Chain Technologies (R204142P) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-IV : Computer Vision (R204105G) (Common to CSE, CSE(AIDS), AIDS, CSD)/ Information Retrieval Systems (R204144D)/ NOSQL Databases (R204142F) / Cloud Computing (R204142O) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Professional Elective-V : Recommender Systems (R204142H)/ AI Chatbots (R204142I)/ Data Visualization (R204144E)/ Social Networks Analysis (R204142Q) (Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-III : API and Microservices (Job Oriented Course) (R204105M)/ AI Tools & Techniques (R204105N)/ Image Processing (R204105O)/ Information Security (R204105P)/ Mobile Application Development (R204105Q)/ Cyber Security (R204105S)/ Introduction to Internet of Things (R204105T) (Common to OE-III as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Open Elective-IV : Secure Coding Techniques (Job Oriented Course) (R204105U)/ Block Chain Technologies (R204105X)/ Introduction to Machine Learning (R204105Z)/ Machine Learning with Python (R2041051) (Common to OE-IV as CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)	Data Science (R204105R) (Common to EEE PE-V & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-3)	Deep Learning Techniques (R204105E) (Common to EEE, CSE, IT, PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ MEAN Stack Technologies (R204105V) / Cloud Computing with AWS (R204105W) (Common to EEE PE-IV & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)/ Cryptography and Network Security (R204105Y) (Common to CSE(AIML), CSE(AI), AIML, CSD PE-III & CSE, IT, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD OE-4)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
	19-09-2023 (Tuesday)	20-09-2023 (Wednesday)	21-09-2023 (Thursday)	22-09-2023 (Friday)	23-09-2023 (Saturday)	25-09-2023 (Monday)	26-09-2023 (Tuesday)	27-09-2023 (Wednesday)
PHARMACEUTICAL ENGINEERING (55)	Industrial Pharmacy (R204155A)	Professional Elective-III : Bio Medical Instrumentation (R204155B)/ Pharmaceutical product development (R204155C)/ Industrial Process Control (R204155D)	Professional Elective-IV : Pharmaceutical Packaging Technology (R204155E)/ Introduction to Biomaterials and Tissue Engineering (R204155F)/ Good Manufacturing Practices	Open Elective-III : Robotics (R204155H)/ Synthesis And Characterization of Nano Materials (R204155I)/ Industrial Psychology and Human Resource Management (R204155J)	Open Elective-IV : Principles of mechanical measurements (R204155K)/ Artificial Intelligence & Machine Learning (R204155L)/ Bioinformatics (R204155M)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

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

T I M E T A B L E

TIME : 10.00 AM TO 12.00 NOON

Branch	DATE & DAY							
	19-09-2023 (Tuesday)	20-09-2023 (Wednesday)	21-09-2023 (Thursday)	22-09-2023 (Friday)	23-09-2023 (Saturday)	25-09-2023 (Monday)	26-09-2023 (Tuesday)	27-09-2023 (Wednesday)
CYBER SECURITY (59)	Universal Human Values-2: Understanding Harmony (R2041011) (Common to CE, EEE, ME, ECE, CSE, IT, AME, MiE, AgriE, CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), CSE(CS), CSE(IOTCSIBCT), CSE(IOT), FE, AIDS, AIML, CSD)	Professional Elective-III : Internet Of Things (R204146A)/ Information Coding Techniques (R204146D) / Mobile and Wireless Security (R204146E) (Common to CSE(CS), CS)	Professional Elective-IV : Ad-hoc and Sensor Networks (R204146R)	Professional Elective-V : Cyber Laws and Security Policies (R204146J)/ Intrusion Detection and Prevention System (R204146K)/ Data Privacy (R204146L)/ Ethical Hacking (R204146M)	Open Elective-III : DevOps (Job Oriented Course) (R204146N)/ Cryptography and Network Security (R204146O)	Open Elective-IV : Multimedia And Rich Internet Applications (Job Oriented Course) (R204146P)	Data Science (R204146B) (Common to PE-III & OE-3 CSE(CS), CSE(IOTCSIBCT), CSE(IoT) CS)/ Cloud Computing (R204146G) (Common to CSE(CS) PE-IV , OE-3 & CSE(IoT) PE-IV)	Distributed Systems (R204146C) (Common to CSE(CS), CS PE-III & OE-4) / Cyber Crime Investigation and Digital Forensics (R204146F) (Common to CSE(CS), CS PE-IV , OE-4 & CSE(IOTCSIBCT) PE-IV) / Mean Stack Technologies (R204146H) (Common to CSE(IoT),CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(IoT) OE-4) / Malware Analysis & Reverse Engineering (R204146I) (Common to CSE(CS), CSE(IOTCSIBCT) PE-IV & CSE(CS) OE-4) / Machine Learning (R204146Q) (Common to CSE(IOTCSIBCT) PE-V & CSE(CS),CSE(IOTCSIBCT), CSE(IoT) OE-4)

