



I B.TECH I SEMESTER (R23)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

I B.TECH I SEMESTER (R23 REGULATION) I MID & ONLINE QUIZ EXAMINATIONS, OCTOBER - 2024

TIME TABLE


TIME: 10.00 AM TO 12.00 NOON

DATE & DAY	14-10-2024 (Monday)	15-10-2024 (Tuesday)	16-10-2024 (Wednesday)	17-10-2024 (Thursday)	18-10-2024 (Friday)
Branch & Subjects	Communicative English R231101 (Common to EEE, CSE, Chemical, FT, PT, Ph.E) Engineering Physics R231108 (Common to CE, ME, ECE, IT, AME, Mining, Robotics, Agri E, ECE-Allied, CSE- Allied)	Linear Algebra & Calculus R231105 (Common to All Branches)	Basic Civil & Mechanical Engineering R231106 (Common to EEE, CSE, Chemical, FT, PT, Ph.E) Basic Electrical & Electronics Engineering R231109 (Common to CE, ME, ECE, IT, AME, Mining, Robotics, Agri E, ECE-Allied, CSE- Allied)	Introduction to Programming R231107 (Common to All Branches)	Engineering Chemistry R231102 (Com. to Chemical, PT) Chemistry R231103 (Common to EEE, CSE) Fundamental Chemistry R231104 (Common to FT, Ph.E) Engineering Graphics R231110 (Common to CE, ME, ECE, IT, AME, Mining, Robotics, Agri E, ECE-Allied, CSE- Allied)

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 TIME TABLE IMMEDIATELY.

Date: 01-10-2024


Controller of Examinations (UG)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

II B.TECH I SEMESTER (R23 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, OCT/NOV - 2024

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	28-10-2024 (Monday)	29-10-2024 (Tuesday)	30-10-2024 (Wednesday)	01-11-2024 (Friday)	02-11-2024 (Saturday)
CIVIL ENGINEERING (01-CE)	Numerical Techniques and Statistical Methods (R2321011) (Common to CE, AME)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Surveying (R2321013)	Strength of Materials (R2321014)	Fluid Mechanics (R2321015)
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Complex Variables & Numerical Methods (R2321021)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Electro magnetic Field Theory (R2321022)	Electrical Circuit Analysis-II (R2321023)	DC Machines & Transformers (R2321024)
MECHANICAL ENGINEERING (03-ME)	Numerical Methods and Transform Techniques (R2321031) (Common to CE, AME)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Thermodynamics (R2321032)	Mechanics of Solids (R2321033)	Material Science and Metallurgy (R2321034)



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ELECTRONICS & COMMUNICATION ENGINEERING (04-ECE)	Probability theory and stochastic process (R2321041)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Signals and Systems (R2321042)	Electronic Devices and Circuits (R2321043)	Switching Theory and Logic Design (R2321044)
COMPUTER SCIENCE & ENGINEERING (05-CSE)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
INFORMATION TECHNOLOGY (12-IT)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures & Algorithms (R2321121)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)



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AUTO MOBILE ENGINEERING (24-AME)	Numerical Techniques And Statistical Methods (R2321011) (Common to CE, AME)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Thermodynamics & Thermal Engineering (R2321241)	Fluid Mechanics & Hydraulic Machines (R2321242)	Components of Automotive Chassis (R2321243)
MINING ENGINEERING (26-MM)	Numerical Methods and Transform Techniques (R2321031) (Common to CE, AME)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Engineering Geology (R2321261)	Development of Mineral Deposits (R2321262)	Mine Surveying (R2321263)
AGRICULTURAL ENGINEERING (35-AGE)	Statistical Methods and Numerical Analysis (R2321351)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Fluid Mechanics and Open Channel Hydraulics (R2321353)	Farm Power and Tractor Systems (R2321354)	Engineering Mechanics (R2321352) (Common to AGE, Ph.E)



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BRANCH	DAY AND DATE				
	28-10-2024 (Monday)	29-10-2024 (Tuesday)	30-10-2024 (Wednesday)	01-11-2024 (Friday)	02-11-2024 (Saturday)
CSE (Artificial Intelligence and Machine Learning) (42)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Artificial Intelligence (R2321421) (Common to CSE(AI&ML),CSE(AI),AI&ML)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
CSE (Artificial Intelligence) (43)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Artificial Intelligence (R2321421) (Common to CSE(AI&ML),CSE(AI),AI&ML)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
CSE (Data Science) (44)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Introduction to Data Science (R2321441)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)



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CSE (Artificial Intelligence and Data Science) (45)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Database Management Systems (R2321451) (Common to CSE(AI&DS),AI&DS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
CSE (Cyber Security) (46)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
CSE (Internet of things and Cyber security including Block chain Technology) (47)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)



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CSE (Computer Science and Business System) (48)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
FOOD ENGINEERING (51)	Probability and Statistics (R2321511)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Computer Applications in Food Processing (R2321512)	Processing of Cereals,Pulses and Oil Seeds (R2321513)	Fluid Flows in Food Engineering (R2321514)
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Database Management Systems (R2321451) (Common to CSE(AI&DS),AI&DS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)



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PHARMACEUTICAL ENGINEERING (55)	Mathematics – III (Biostatistics) (R2321551)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Pharmaceutical Engineering – I (R2321552)	Thermodynamics for Pharmaceutical Engineers (R2321553)	Engineering Mechanics (R2321352) (Common to AGE, Ph.E)
Computer Science and Business System (57)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
CYBER SECURITY (59)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)



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II B.TECH I SEMESTER (R23 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, OCT/NOV - 2024

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DAY AND DATE				
	28-10-2024 (Monday)	29-10-2024 (Tuesday)	30-10-2024 (Wednesday)	01-11-2024 (Friday)	02-11-2024 (Saturday)
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Artificial Intelligence (R2321421) (Common to CSE(AI&ML),CSE(AI),AI&ML)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS), CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)
COMPUTER SCIENCE AND DESIGN (62)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS), CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)

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II B.TECH I SEMESTER (R23 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, OCT/NOV - 2024**TIME TABLE****TIME: 10.00 AM TO 12.00 NOON**

BRANCH	DAY AND DATE				
	28-10-2024 (Monday)	29-10-2024 (Tuesday)	30-10-2024 (Wednesday)	01-11-2024 (Friday)	02-11-2024 (Saturday)
COMPUTER SCIENCE (CoS-68)	Discrete Mathematics & Graph Theory (R2321051) (Common to CSE,IT,CSE(AI&ML), CSE(AI),CSE(DS),CSE(AI&DS), CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Universal human values– understanding harmony and Ethical human conduct (R2321012) (Common to CE,EEE,ME,ECE,CSE,IT,AME,MM,AGE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),FE,AI&DS,Ph.E,CS&BS,CS,AI&ML,CS&D,COS)	Digital Logic&Computer Organization (R2321052) (Common to CSE,IT,CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,CS,CS&D,COS)	Advanced Data Structures&Algorithm Analysis (R2321053) (Common to CSE,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)	Object Oriented Programming Through JAVA (R2321054) (Common to CSE,IT,CSE(AI&ML),CSE(AI),CSE(DS),CSE(AI&DS),CSE(CS),CSE(IOT&CSIBCT),CSE(CS&BS),CS&BS,AI&DS,CS,AI&ML,CS&D,COS)

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:17-10-2024


Controller of Examinations (UG)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
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III B.TECH I SEMESTER (R20 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2024

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
CIVIL ENGINEERING (01 CE)	Structural Analysis (R2031011)	Design And Drawing of Reinforced Concrete Structures (R2031012)	Geotechnical Engineering - I (R2031013)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Construction Technology & Management R203101A	Strength of Materials R203101E	
				Remote Sensing and GIS R203101B	Fluid Mechanics R203101F	
				Environmental Impact Assessment R203101C	Surveying and Geomatics R203101G	
				Low-Cost Housing R203101D	Highway Engineering R203101H	
					Safety Engineering R203101I	
					Environmental Management R203101J	
	Urban Planning R203101K					
ELECTRICAL AND ELECTRONICS ENGINEERING (02 EEE)	Power Systems-II (R2031021)	Power Electronics (R2031022)	Control Systems (R2031023)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Linear Ic Applications R203102A	Renewable Energy Sources R203102F	
				Utilization Of Electrical Energy R203102B	Concepts Of Optimization Techniques R203102G	
				Computer Architecture And Organization R203102C	Concepts of Control Systems R203102H	
				Optimization Techniques R203102D		
				Object Oriented Programming Through Java R203102E		
				Optimization Techniques R203102D		
Object Oriented Programming Through Java R203102E						
MECHANICAL ENGINEERING (03 ME)	Thermal Engineering-II (R2031031)	Design of Machine Members-I (R2031032)	Machining, Machine Tools & Metrology (R2031033)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Finite Element Methods R203103A	Sustainable Energy Technologies R203103G	
				Industrial Robotics R203103B	Operations Research R203103H	
				Advanced Materials R203103C	Nano Technology R203103I	
				Renewable Energy Sources R203103D	Thermal Management of Electronic systems R203103J	
				Mechanics of Composites R203103E		
MOOCs (NPTEL/Swayam) R203103F						



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T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
ELECTRONICS & COMMUNICATIONS ENGINEERING (04 ECE)	Analog ICs and Applications (R2031041)	Electromagnetic Waves and Transmission Lines (R2031042)	Digital Communications (R2031043)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Antenna And Wave Propagation R203104A	Basics of Signals and Systems R203104D	
				Electronic Measurements & Instrumentation R203104B	Electronic Measurements and Instrum. R203104E	
				Computer Architecture & Organization R203104C	Principles of Signal Processing R203104F	
					Industrial Electronics R203104G	
					Consumer Electronics R203104H	
					Fundamentals of Microprocessors and Microcontrollers R203104I	
					Transducers and Sensors R203104J	
					IOT and Applications R203104K	
					Soft Computing Techniques R203104L	
					IC Applications R203104M	
					Principles of Communications R203104N	
					Basic Electronics R203104O	
					Data Communications R203104P	
	Digital Logic Design R203104Q					
	Remote Sensing and GIS R203104R					
	Bio Medical Instrumentation R203104S					
	Introduction to Microprocessor and Microcontrollers R203114G					
COMPUTER SCIENCE & ENGINEERING (05 CSE)	Computer Networks (R2031051) (Common to CSE,IT)	Design and Analysis of Algorithms (R2031052) (Common to CSE,IT)	Data Warehousing and Data Mining (R2031053)	Professional Elective (PE II) :-	Open Elective (OE I) :-
				Artificial Intelligence R203105A	Optimization in Operations Research R203105E	
				Software Project Management R203105B	Data Structures R203105F	
				Distributed Systems R203105C	Object Oriented Progra. through JAVA R203105G	
				Advanced Unix Programming R193205D	Data Base Management Systems R203105H	
					Computer Graphics R203105I	
					Advanced UNIX Programming R203105J	
					Computer Organization and Arch. R203105K	
					Operating Systems R203105L	
INFORMATION TECHNOLOGY (12 IT)	Computer Networks (R2031051) (Common to CSE,IT)	Design and Analysis of Algorithms (R2031052) (Common to CSE,IT)	Data Mining Techniques (R2031121)	Professional Elective (PE II) :-	Open Elective (OE I) :-
				Artificial Intelligence R203105A	DevOps R203112B	
				Distributed Systems R203105C	Data Structures R203105F	
				Advanced Unix Programming R203105D	Object Oriented Progra. through JAVA R203105G	
				Agile Software Process R203112A	Data Base Management Systems R203105H	
					Computer Graphics R203105I	
					Advanced UNIX Programming R203105J	
					Computer Organization and Arch. R203105K	
	Operating Systems R203105L					



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T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
AUTO MOBILE ENGINEERING (24 AME)	Theory of Machines (R2031241)	Production Technology (R2031242)	Vehicle Dynamics (R2031243)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Alternative Fuels for Engines R203124A	Basic Automobile Engineering R203124G	
				Two and Three Wheelers R203124B	Automobile Maintenance and Safety R203124H	
				Microprocessor and Micro Controllers R203124C	Automobile Emissions and Effects R203124I	
				Heat Transfer R203124D		
				Industrial Hydraulics and Pneumatics R203124E		
				MOOC's/NPTEL R203124F		
MINING ENGINEERING (26 MM)	Mine Hazards and Rescue (R2031261)	Underground Coal Mining (R2031262)	Mine Hoisting and Transportation (R2031263)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Remote Sensing and GIS R203101B	Introduction to Underground Mining R203126D	
				Resource Evaluation and Geo-Statistics - R203126A	Introduction to Surface Mining R203126E	
				Mine Planning and Design R203126B	Tunneling and Underground Space Design R203126F	
				Mine Safety & Ergonomics R203126C	Engineering Survey R203126G	
AGRICULTURAL ENGINEERING (35 AGE)	Farm Machinery and Equipment - I (R2031351)	Surface Water Hydrology (R2031352)	Post Harvest Engineering of Cereals, Pulses and Oilseeds (R2031353)	Professional Elective - I	Open Elective - I
				Seed Processing and Storage Engineering R203135A	Principles of Soil Science and Agronomy R203135D	
				Greenhouse Technology R203135B	Farm Power and Tractor Systems R203135E	
				Tractor Design and Testing R203135C	Soil and Water Conservation Engineering R203135F	
					Ground Water Hydrology, Wells and Pumps R203135G	
					Surface Water Hydrology R203135H	
					Post Harvest Engineering of Cereals Pulses and Oilseeds R203135I	
	Agricultural Process Engineering R203135J					



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TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
CSE (Artificial Intelligence and Machine Learning) (42)	Compiler Design (R2031421) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)	Operating Systems (R2031422) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AI ML,CSD)	Machine Learning (R2031423) (Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AIDS), AIDS,AIML)	<u>Professional Elective (PE) :-</u>	<u>Open Elective (OE I) :-</u>
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				Computer Vision R203142B		
				Data Visualization R203142C		
				DevOps R203142D		
				MOOC's/NPTEL R203142E		
CSE (Artificial Intelligence) (43)	Compiler Design (R2031421) (Common to CSE(AIML), CSE(AI),CSE(DS), CSE(AIDS),AIDS,A IML,CSD)	Operating Systems (R2031422) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AI ML,CSD)	Machine Learning (R2031423) (Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AIDS), AIDS,AIML)	<u>Professional Elective (PE) :-</u>	<u>Open Elective (OE I) :-</u>
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				Computer Vision R203142B		
				Data Visualization R203142C		
				DevOps R203142D		
CSE (Data Science) (44)	Compiler Design (R2031421) (Common to CSE(AIML), CSE(AI),CSE(DS), CSE(AIDS),AIDS,A IML,CSD)	Operating Systems (R2031422) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AI ML,CSD)	Machine Learning (R2031423) (Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AIDS), AIDS,AIML)	<u>Professional Elective (PE) :-</u>	<u>Open Elective (OE I) :-</u>
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				DevOps R203142D		
				Object Oriented Analysis and Design R203144A		
				Internet of Things R203144B		
CSE (Artificial Intelligence and Data Science) (45)	Compiler Design (R2031421) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CSD)	Operating Systems (R2031422) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AI ML,CSD)	Machine Learning (R2031423) (Common to CSE(AIML),CSE(AI), CSE(DS),CSE(AIDS), AIDS,AIML)	<u>Professional Elective (PE) :-</u>	<u>Open Elective (OE I) :-</u>
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				Object Oriented Analysis and Design R203144A		
				Internet of Things R203144B		
				DevOps R203142D		



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T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
CSE (Cyber Security) (46) <small>(Common to CSE(CS),IOTCSIBCT,CSE(IOT),CS,CSBS)</small>		Software Engineering (R2031462) <small>(Common to CSE(CS),CS)</small>	Design and Analysis of Algorithms (R2031463) <small>(Common to CSE(CS),IOTCSOBC T,CSE(IOT),CS)</small>	Professional Elective (PE) :-	Open Elective (OE I) :-
				Computer Graphics R203146A	Web Technologies R203146F	
				Artificial Intelligence R203146B	Data Structures R203146G	
				Compiler Design R203146C	Computer Networks R203146H	
				Advanced Data Structures R203146D	Data Base Management Systems R203146I	
Principles of Programming Languages R203146E	Problem Solving using Python R203146J					
CSE (Internet of things and Cyber security including Block chain Technology) (47) <small>(Common to CSE(CS),IOTCSIBCT,CSE(IOT),CS,CSBS)</small>		IoT Architecture and its Protocols (R2031471) <small>(Common to IOTCSIBCT,CSE(IOT))</small>	Design and Analysis of Algorithms (R2031463) <small>(Common to CSE(CS),IOTCSOBC T,CSE(IOT),CS)</small>	Professional Elective (PE) :-	Open Elective (OE I) :-
				Data Warehousing & Data Mining R203147A	Web Technologies R203147C	
				Compiler Design R203146C	Data Structures R203147D	
				Software Engineering R203142A	Computer Networks R203147E	
				Micro Processors & Micro Controllers R203147B	Data Base Management Systems R203147F	
Computer Graphics R203146A	Problem Solving using Python R203147G					
	Open Electives offered by other Departments R203148D					
CSE (Internet of Things) (49) <small>(Common to CSE(CS),IOTCSIBCT,CSE(IOT),CS,CSBS)</small>		IoT Architecture and its Protocols (R2031471) <small>(Common to IOTCSIBCT,CSE(IOT))</small>	Design and Analysis of Algorithms (R2031463) <small>(Common to CSE(CS),IOTCSOBC T,CSE(IOT),CS)</small>	Professional Elective (PE) :-	Open Elective (OE I) :-
				Compiler Design R203146C	Natural Language Processing R203149B	
				Software Engineering R203142A	Data Structures R203149C	
				Computer Graphics R203146A	Computer Networks R203149D	
				Principles of Programming Languages R203146E	Data Base Management System R203149E	
Advanced Computer Architecture R203149A	Problem Solving using Python R203149F					
FOOD ENGINEERING (51)	Heat Transfer in Food Processing (R2031511)	Processing of Fruits Vegetables Spices and Plantation Crops (R2031512)	Food Plant Design and Process Economics (R2031513)	Transport Phenomena in Food Engineering R203151A	Food Material Science and Engineering R203151D
				Statistical Methods in Food Engineering R203151B	Biochemical Engineering R203151E	
				Process Modeling and Simulation R203151C	Food Thermodynamics R203151F	



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T I M E T A B L E

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (54)	Compiler Design (R2031421) <small>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CS)</small>	Operating Systems (R2031422) <small>(Common to CSE(AIML), CSE(AI), CSE(DS), CS E(AIDS), AIDS, AIML)</small>	Machine Learning (R2031423) <small>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML)</small>	Professional Elective (PE) :-	Open Elective (OE I) :-
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				DevOps R203142D		
				Object Oriented Analysis and Design R203144A		
				Internet of Things R203144B		
PHARMACEUTICAL ENGINEERING (55)	Managerial Economics and Financial Accountancy (R2031551)	Pharmaceutical Engineering-I (R2031552)	Biopharmaceutics and Pharmacokinetics (R2031553)	Professional Elective (PE) :-	Open Elective (OE I) :-	Biostatistics R2031554
				Quality Control and Assurance R203155A	Non-Conventional Energy Sources R203155D	
				Food Processing Technology R203155B	Introduction to Data Structures R203155E	
				Pharmaceutical Biotechnology R203155C	Design and Analysis of Experiments R203155F	
CYBER SECURITY (59)	Computer Networks (R2031461) <small>(Common to CSE(CS), IOTCSIBCT, CSE(IOT), CS, CSBS)</small>	Software Engineering (R2031462) <small>(Common to CSE(CS), CS)</small>	Design and Analysis of Algorithms (R2031463) <small>(Common to CSE(CS), IOTCSOBC T, CSE(IOT), CS)</small>	Professional Elective (PE) :-	Open Elective (OE I) :-
				Computer Graphics R203146A	Web Technologies R203146F	
				Artificial Intelligence R203146B	Data Structures R203146G	
				Compiler Design R203146C	Computer Networks R203146H	
				Advanced Data Structures R203146D	Data Base Management Systems R203146I	
Principles of Programming Languages R203146E	Problem Solving using Python R203146J					
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (61)	Compiler Design (R2031421) <small>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CS)</small>	Operating Systems (R2031422) <small>(Common to CSE(AIML), CSE(AI), CSE(DS), CS E(AIDS), AIDS, AIML)</small>	Machine Learning (R2031423) <small>(Common to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML)</small>	Professional Elective (PE) :-	Open Elective (OE I) :-
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				Computer Vision R203142B		
				Data Visualization R203142C		
				DevOps R203142D		
MOOC's/NPTEL R203142E						



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

UNIVERSITY EXAMINATION CENTER, KAKINADA

III B.TECH I SEMESTER (R20 REGULATION) II MID & ONLINE QUIZ EXAMINATIONS, NOVEMBER - 2024

TIME TABLE

TIME: 10.00 AM TO 12.00 NOON

BRANCH	DATE & DAY					
	04.11.2024 (Monday)	05.11.2024 (Tuesday)	06.11.2024 (Wednesday)	07.11.2024 (Thursday)	08.11.2024 (Friday)	11.11.2024 (Monday)
COMPUTER SCIENCE AND DESIGN (62)	Compiler Design (R2031421) (Common to CSE(AIML), CSE(AI),CSE(DS),CSE(AIDS),AIDS,AIML,CS	Operating Systems (R2031422) (Common to CSE(AIML), CSE(AI),CSE(DS),CS E(AIDS),AIDS,AIML	Human Computer Interaction (R2031621)	Professional Elective (PE) :-	Open Elective (OE I) :-
				Software Engineering R203142A	Optimization in Operations Research R203105E	
				Object Oriented Analysis and Design R203144A		
				Internet of Things R203144B		
				DevOps R203142D		

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:23-10-2024

Controller of Examinations (UG)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

B.TECH END EXAMINATIONS

NOTIFICATION

Notification No. B.Tech/IV-I/Reg/Supple/Dec-2024

R20 REGULATIONS

IV B.TECH I SEMESTER REGULAR/SUPPLEMENTRAY EXAMINATIONS

(For 2020 Admitted Batches onwards and 2021 Lateral Entry Admitted Batches onwards)

R19 REGULATIONS

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

(For 2019 Admitted Batch and 2020 Lateral Entry Admitted Batch)

R16 REGULATIONS

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

(For **2017** Admitted Batches onwards and **2019** Lateral Admitted Batch)

DECEMBER – 2024

CANDIDATES APPEARING FOR THE ABOVE EXAMINATIONS ARE INFORMED THAT THE APPLICATIONS WILL BE RECEIVED AS PER THE TIME SCHEDULE GIVEN BELOW:

EXAM REGISTRATION	LAST DATE
Without Late Fee	04-11-2024
With Late Fee of Rs.100/-	06-11-2024
With Late fee of Rs.1000/-	08-11-2024

*** (Application to be submitted at JNTU Kakinada) ***

EXAMINATION FEE

[A] FOR WHOLE SEMESTER EXAMINATION (ALL SUBJECTS)	Rs. 770/-
[B] FOR ONE SUBJECT (THEORY/PRACTICAL)	Rs. 265/-
FOR TWO SUBJECTS (THEORY/PRACTICAL)	Rs. 390/-
FOR THREE SUBJECTS (THEORY/PRACTICAL)	Rs. 515/-
FOR FOUR AND ABOVE SUBJECTS (THEORY/PRACTICAL)	Rs. 770/-

Detailed Time Table for theory Examinations will notified in the J.N.T. University. Kakinada website.
www.jntuk.edu.in www.jntuksdc.co.in

Note: (i) Principals are requested to verify the eligibility of the candidates for registration for examination in respect of malpractice/ court cases/ credits.

(ii) Hall Tickets are to be issued by the Principal only to the eligible candidates who fulfill the academic requirements of the University. **The Principals are requested to inform the students that mere payment of examination fee does not guarantee eligibility for appearing for examination.**

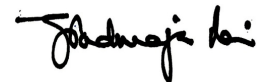
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1. Applications should enclose the xerox copies of latest marks memos containing details of failed subjects along with the applications.
2. Applications can be obtained at the office of the respective Principal's of the respective colleges and duly filled in applications should be handed over in the respective college office with necessary fee.
3. The Principals are requested to submit the filled in Applications to the Controller of Examinations (UG), J.N.T. University Kakinada as per the schedule given below.
4. **Laboratory/Project Examinations schedule will be communicated later.**
5. All the above Examinations will be conducted in jumbling system.
6. The Payment of Total Examination Fee (**Without Fine/Rs. 100 Fine/Rs. 1000 Fine**) is to be made through Online Link provided in the portal from **11.11.2024 to 12.11.2024**. After Payment a "Payment Form" will be generated which is to be printed.
7. The College has to Submit the printed Payment Form and filled in student application along with attendance Report **on 14.11.2024 and 15.11.2024** without fail as detailed below.

Applications are to be submitted on the following Dates:

- 1 **Kakinada, East Godavari, Konaseema, Eluru, West Godavari, NTR, Krishna Districts on 14.11.2024 (Thursday).**
- 2 **Palnadu, Guntur, Bapatla, Prakasam Districts on 15.11.2024 (Friday).**

DATE: 09-10-2024



DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER KAKINADA

B.TECH END EXAMINATIONS

NOTIFICATION

Notification No. B.Tech/II-I/Reg/Supple/November-2024

II B.TECH I SEMESTER REGULAR EXAMINATIONS

R23 REGULATIONS

(For 2023 Admitted Batches onwards and 2024 Lateral Entry Admitted Batches onwards)

II B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

R20 REGULATIONS

(For 2020 Admitted Batches onwards and 2021 Lateral Entry Admitted Batches onwards)

II B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

R19 REGULATIONS

(For 2019 Admitted Batch and 2020 Lateral Entry Admitted Batch)

II B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

R16 REGULATIONS

(For **2017** Admitted Batches onwards and **2019** Lateral Admitted Batch)

NOVEMBER – 2024

CANDIDATES APPEARING FOR THE ABOVE EXAMINATIONS ARE INFORMED THAT THE APPLICATIONS WILL BE RECEIVED AS PER THE TIME SCHEDULE GIVEN BELOW:

EXAM REGISTRATION	LAST DATE
Without Late Fee	24-10-2024
With Late Fee of Rs.100/-	26-10-2024
With Late fee of Rs.1000/-	28-10-2024

*** (Application to be submitted at JNTUK Kakinada) ***

EXAMINATION FEE

[A] FOR WHOLE SEMESTER EXAMINATION (ALL SUBJECTS)	Rs. 770/-
[B] FOR ONE SUBJECT (THEORY/PRACTICAL)	Rs. 265/-
FOR TWO SUBJECTS (THEORY/PRACTICAL)	Rs. 390/-
FOR THREE SUBJECTS (THEORY/PRACTICAL)	Rs. 515/-
FOR FOUR AND ABOVE SUBJECTS (THEORY/PRACTICAL)	Rs. 770/-

Detailed Time Table for theory Examinations will notified in the J.N.T. University, Kakinada website.

www.jntuk.edu.in www.jntuksdc.co.in

- Note:** (i) Principals are requested to verify the eligibility of the candidates for registration for examination in respect of malpractice/ court cases/ credits.
(ii) Hall Tickets are to be issued by the Principal only to the eligible candidates who fulfill the academic requirements of the University. **The Principals are requested to inform the students that mere payment of examination fee does not guarantee eligibility for appearing for examination.**

Cont....2

1. Applications should enclose the xerox copies of latest marks memos containing details of failed subjects along with the applications.
2. Applications can be obtained at the office of the respective Principal's of the respective colleges and duly filled in applications should be handed over in the respective college office with necessary fee.
3. The Principals are requested to submit the filled in Applications to the Controller of Examinations (UG), J.N.T. University Kakinada as per the schedule given below.
4. **Laboratory/Project Examinations schedule will be communicated later.**
5. All the above Examinations will be conducted in jumbling system.
6. The Payment of Total Examination Fee (**Without Fine/Rs. 100 Fine/Rs. 1000 Fine**) is to be made through Online Link provided in the portal from **30.10.2024 to 31.10.2024**. After Payment a "Payment Form" will be generated which is to be printed.
7. The College has to submit the printed Payment Form and filled in student application along with attendance Report **on 01.11.2024 and 02.11.2024** without fail as detailed below.

Applications are to be submitted on the following Dates:

- 1 **Kakinada, East Godavari, Konaseema, Eluru, West Godavari, NTR, Krishna Districts on 01.11.2024 (Friday).**
- 2 **Palnadu, Guntur, Bapatla, Prakasam Districts on 02.11.2024 (Saturday).**

DATE: 03-10-2024



DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER KAKINADA

B.TECH END EXAMINATIONS

NOTIFICATION

Notification No. B.Tech/II-II/Supple/November-2024

II B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
R20 REGULATIONS

(For 2020 Admitted Batches onwards and 2021 Lateral Entry Admitted Batches onwards)

II B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
R19 REGULATIONS

(For 2019 Admitted Batch and 2020 Lateral Entry Admitted Batch)

II B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
R16 REGULATIONS

(For **2017** Admitted Batches onwards and **2019** Lateral Entry Admitted Batch)

NOVEMBER – 2024

CANDIDATES APPEARING FOR THE ABOVE EXAMINATIONS ARE INFORMED THAT THE APPLICATIONS WILL BE RECEIVED AS PER THE TIME SCHEDULE GIVEN BELOW:

EXAM REGISTRATION	LAST DATE
Without Late Fee	24-10-2024
With Late Fee of Rs.100/-	26-10-2024
With Late fee of Rs.1000/-	28-10-2024

*** (Application to be submitted at JNTUK Kakinada) ***

EXAMINATION FEE

[A] FOR WHOLE SEMESTER EXAMINATION (ALL SUBJECTS)	Rs. 770/-
[B] FOR ONE SUBJECT (THEORY/PRACTICAL)	Rs. 265/-
FOR TWO SUBJECTS (THEORY/PRACTICAL)	Rs. 390/-
FOR THREE SUBJECTS (THEORY/PRACTICAL)	Rs. 515/-
FOR FOUR AND ABOVE SUBJECTS (THEORY/PRACTICAL)	Rs. 770/-

Detailed Time Table for theory Examinations will notified in the J.N.T. University, Kakinada website.

www.jntuk.edu.in www.jntuksdc.co.in

Note: (i) Principals are requested to verify the eligibility of the candidates for registration for examination in respect of malpractice/ court cases/ credits.
(ii) Hall Tickets are to be issued by the Principal only to the eligible candidates who fulfill the academic requirements of the University. **The Principals are requested to inform the students that mere payment of examination fee does not guarantee eligibility for appearing for examination.**

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1. Applications should enclose the xerox copies of latest marks memos containing details of failed subjects along with the applications.
2. Applications can be obtained at the office of the respective Principal's of the respective colleges and duly filled in applications should be handed over in the respective college office with necessary fee.
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4. **Laboratory/Project Examinations schedule will be communicated later.**
5. All the above Examinations will be conducted in jumbling system.
6. The Payment of Total Examination Fee (**Without Fine/Rs. 100 Fine/Rs. 1000 Fine**) is to be made through Online Link provided in the portal from **30.10.2024 to 31.10.2024**. After Payment a "Payment Form" will be generated which is to be printed.
7. The College has to submit the printed Payment Form and filled in student application along with attendance Report **on 01.11.2024 and 02.11.2024** without fail as detailed below.

Applications are to be submitted on the following Dates:

- 1 **Kakinada, East Godavari, Konaseema, Eluru, West Godavari, NTR, Krishna Districts on 01.11.2024 (Friday).**
- 2 **Palnadu, Guntur, Bapatla, Prakasam Districts on 02.11.2024 (Saturday).**

DATE: 03-10-2024



DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER KAKINADA

B.PHARM END EXAMINATIONS

NOTIFICATION

Notification No. B.Pharm/III-I/Reg/Supple/Dec-2024

PCI REGULATION

III B.PHARM I SEMESTER REGULAR/SUPPLEMENTARY EXAMINATIONS

(For 2017 Admitted Batches onwards and 2019 Lateral Entry Admitted Batches onwards)

DECEMBER - 2024

CANDIDATES APPEARING FOR THE ABOVE EXAMINATIONS ARE INFORMED THAT THE APPLICATIONS WILL BE RECEIVED AS PER THE TIME SCHEDULE GIVEN BELOW:

EXAM REGISTRATION	LAST DATE
Without Late Fee	07-11-2024
With Late Fee of Rs.100/-	09-11-2024
With Late fee of Rs.1000/-	11-11-2024

EXAMINATION FEE

[A] FOR WHOLE SEMESTER EXAMINATION (ALL SUBJECTS)	Rs. 770/-
[B] FOR ONE SUBJECT (THEORY/PRACTICAL)	Rs. 265/-
FOR TWO SUBJECTS (THEORY/PRACTICAL)	Rs. 390/-
FOR THREE SUBJECTS (THEORY/PRACTICAL)	Rs. 515/-
FOR FOUR AND ABOVE SUBJECTS (THEORY/PRACTICAL)	Rs. 770/-

Detailed Time Table for theory Examinations will be notified in the J.N.T. University Kakinada Examinations Portal.

- Note:** (i) Principals are requested to verify the eligibility of the candidates for Registration for examination in respect of malpractice/court cases/credits.
- (ii) Hall Tickets are to be issued by the Principal only to the eligible candidates who fulfill the academic requirements of the University. **The Principals are requested to inform the students that mere payment of examination fee does not guarantee eligibility for appearing for examination.**

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5. All the above Examinations will be conducted in jumbling system.
- 6. The Payment of Total Examination Fee (Without Fine/Rs. 100 Fine/Rs. 1000 Fine) is to be made through Online Link provided in the portal from 13.11.2024 to 14.11.2024. After Payment a "Payment Form" will be generated which is to be printed.**
7. The College has to submit the printed Payment Form and filled in student application along with attendance Report **on 15.11.2024 and 16.11.2024** without fail as detailed below:

Applications are to be submitted on the following Dates:

- 1. Kakinada, East Godavari, Konaseema, Eluru, West Godavari, NTR, Krishna Districts on 15.11.2024 (Friday).**
- 2. Palnadu, Guntur, Bapatla, Prakasam Districts on 16.11.2024 (Saturday).**

DATE: 17-10-2024


DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER KAKINADA

B.PHARM END EXAMINATIONS

NOTIFICATION

Notification No. B.Pharm/III-II/Supple/Dec-2024

PCI REGULATION

III B.PHARM II SEMESTER SUPPLEMENTARY EXAMINATIONS

(For 2017 Admitted Batches onwards and 2019 Lateral Entry Admitted Batches onwards)

DECEMBER - 2024

CANDIDATES APPEARING FOR THE ABOVE EXAMINATIONS ARE INFORMED THAT THE APPLICATIONS WILL BE RECEIVED AS PER THE TIME SCHEDULE GIVEN BELOW:

EXAM REGISTRATION	LAST DATE
Without Late Fee	07-11-2024
With Late Fee of Rs.100/-	09-11-2024
With Late fee of Rs.1000/-	11-11-2024

EXAMINATION FEE

[A] FOR WHOLE SEMESTER EXAMINATION (ALL SUBJECTS)	Rs. 770/-
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Detailed Time Table for theory Examinations will be notified in the J.N.T. University Kakinada Examinations Portal.

- Note:** (i) Principals are requested to verify the eligibility of the candidates for Registration for examination in respect of malpractice/court cases/credits.
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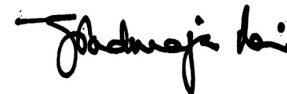
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7. The College has to submit the printed Payment Form and filled in student application along with attendance Report **on 15.11.2024 and 16.11.2024** without fail as detailed below:

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- 2. Palnadu, Guntur, Bapatla, Prakasam Districts on 16.11.2024 (Saturday).**

DATE: 17-10-2024



DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER KAKINADA

B.TECH END EXAMINATIONS

NOTIFICATION

Notification No. B.Tech/III-I/Reg/Supple/November-2024

III B.TECH I SEMESTER REGULAR/SUPPLEMENTARY EXAMINATIONS
R20 REGULATIONS

(For 2020 Admitted Batch onwards and 2021 Lateral Entry Admitted Batch onwards)

III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS
R19 REGULATIONS

(For 2019 Admitted Batch and 2020 Lateral Entry Admitted Batch)

III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS
R16 REGULATIONS

(For **2017** Admitted Batches onwards and **2019** Lateral Entry Admitted Batch)

NOVEMBER – 2024

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*** (Application to be submitted at JNTUK Kakinada) ***

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Detailed Time Table for theory Examinations will notified in the J.N.T. University. Kakinada website.

www.jntuk.edu.in www.jntuksdc.co.in

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- 2 **Palnadu, Guntur, Bapatla, Prakasam Districts on 02.11.2024 (Saturday).**



DATE: 03-10-2024

DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER KAKINADA

B.TECH END EXAMINATIONS

NOTIFICATION

Notification No. B.Tech/III-II/Supple/November-2024

III B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
R20 REGULATIONS

(For 2020 Admitted Batches onwards and 2021 Lateral Entry Admitted Batches onwards)

III B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
R19 REGULATIONS

(For 2019 Admitted Batch and 2020 Lateral Entry Admitted Batch)

III B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
R16 REGULATIONS

(For **2017** Admitted Batches onwards and **2019** Lateral Entry Admitted Batch)

NOVEMBER – 2024

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EXAM REGISTRATION	LAST DATE
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- 2 **Palnadu, Guntur, Bapatla, Prakasam Districts on 02.11.2024 (Saturday).**



DATE: 03-10-2024

DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

IV B.PHARMACY I SEMESTER (PCI) REGULAR/SUPPLEMENTARY EXAMINATIONS, OCT/NOV - 2024

T I M E T A B L E

TIME: 10.00 AM TO 01.00 PM

COURSE	DATE & DAY			
	28-10-2024 (Monday)	30-10-2024 (Wednesday)	01-11-2024 (Friday)	04-11-2024 (Monday)
SUBJECTS	Instrumental Methods of Analysis (BP701T)	Industrial Pharmacy II (BP702T)	Pharmacy Practice (BP703T)	Novel Drug Delivery System (BP704T)

- 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: 14-10-2024

Controller of Examinations (UG)



PROCEEDINGS OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA-533003, Andhra Pradesh (India)
(Established by Andhra Pradesh Act No. 30 of 2008)

Proc. No. JNTUK/E1/ Promotion criterion/2023

Date: 25.09.2023

Sub: JNTU Kakinada – Establishment – Promotion criterion for B.Tech (R20),
B. Pharmacy(PCI norms) and Pharm.D (PCI norms) courses from the
Academic Year 2023-2024 – Orders - Issued.

Read: 1. Committee Report dt.19.08.2023.
2. Note orders dated 22.09.2023 of Hon'ble Vice-Chancellor, JNTUK.

ORDER:

The Committee Constituted vide reference (1) read above, has furnished the following remarks regarding the provision of B.Tech Promotion policy(R20) and PCI Guidelines and Academic Regulations for B.Pharmacy & Pharm.D courses from the academic year 2023-2024:

1). B.Tech R20 Academic Regulations Rule 15.

Promotion Rules:

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in item no.8 for promotion to higher classes.

- a. A student shall be promoted from first year to second year if he/she fulfils the minimum attendance requirement as per University norms.
- b. A student will be promoted from II to III year if he/she fulfills the academic requirement of 40% of credits up to either II year I-Semester or II year II-Semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in II year II semester.
- c. A student shall be promoted from III year to IV year if he/she fulfils the academic requirements of 40% of the credits up to either III year I semester or III year II semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in III year II semester.

2). B. Pharmacy PCI Academic Regulations Rule 16.

Academic Progression: No student shall be admitted to any examination unless he/she fulfils the norms given in 6. Academic progression rules are applicable as follows:

- a. A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfully completed.
- b. A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.
- c. A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

- d. A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.
- e. A Lateral Entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.
- f. A Lateral Entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.
- g. A Lateral Entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.
- h. Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.

3). Pharm.D. Regulations 2008 (PCI) Rule 15.

Eligibility for promotion to next year:

All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.

Under the above circumstances, the Hon'ble Vice Chancellor, JNTUK is pleased to approve the observations/recommendations of the Committee as detailed below:

- ❖ The JNTUK, Kakinada has been implementing Promotion policy ie. Credit detention prior to 2019-2020. In view of class work conducted online due to pandemic, this promotion policy was kept in abeyance for three years from 2020-2021 to 2022-2023. The students of R20 batch are extended credit detention relaxation continuously for three years and now they are into Final year of the course work and hence relaxation ie. waiving off credit detention for B.Tech (R20) for this Academic Year 2023-2024 is approved.
- ❖ In line with this, this relaxation of credit detention shall be extended for the students admitted in 2021-2022 Academic Year also, who are on rolls in III Year of course work. Further, all the students shall note that this credit relaxation is extended for this Academic Year only and no further concessions on credit detention will be permitted here after.
- ❖ It is mandate for all the Universities to adhere to PCI Guidelines and Academic Regulations for B. Pharmacy & Pharm.D courses in implementation of promotion policy as per PCI Guidelines and Academic Regulations for B. Pharmacy & Pharm.D courses from the year 2023 admitted batch onwards.

//ISSUED BY ORDER//


REGISTRAR

REGISTRAR
J.N.T. University Kakinada
KAKINADA-533 003

To
The Director, Academic and Planning, JNTUK.
The Director of Evaluation, JNTUK.
Copy to the Controller of Examinations (UG & PG), JNTUK.
Copy to Secretary to Hon'ble Vice-Chancellor, JNTUK.
Copy to PA to Registrar, JNTUK.
Copy to PA to Rector, JNTUK
Copy to JR/DR/ Supdt JNTUK Kakinada.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

College name: ST.MARYS GROUP OF INSTITUTIONS, CHEBROLU, GUNTUR:BJ

Ref: Proc.No.JNTUK/E1/Promotion Criterion/2023

dated:25-09-2023

By the directions,All the Principals of the affiliated colleges are hereby informed that the following students are detained in III & IV B.Tech I Semester due to lack of credits.

cc	course	htno	year	semester
BJ	B.Tech	21BJ1A4215	4	1
BJ	B.Tech	21BJ1A4218	4	1
BJ	B.Tech	21BJ1A4223	4	1
BJ	B.Tech	21BJ1A4227	4	1
BJ	B.Tech	21BJ1A4240	4	1
BJ	B.Tech	21BJ1A4244	4	1
BJ	B.Tech	21BJ1A4265	4	1
BJ	B.Tech	21BJ1A4277	4	1
BJ	B.Tech	21BJ1A4291	4	1
BJ	B.Tech	21BJ1A4296	4	1
BJ	B.Tech	21BJ1A4299	4	1
BJ	B.Tech	21BJ1A42A6	4	1
BJ	B.Tech	21BJ1A42B9	4	1
BJ	B.Tech	21BJ1A42C1	4	1
BJ	B.Tech	21BJ1A4410	4	1
BJ	B.Tech	21BJ1A4465	4	1
BJ	B.Tech	21BJ1A4602	4	1
BJ	B.Tech	21BJ1A4603	4	1
BJ	B.Tech	21BJ1A4614	4	1
BJ	B.Tech	21BJ1A4632	4	1
BJ	B.Tech	21BJ1A4656	4	1
BJ	B.Tech	21BJ1A5418	4	1
BJ	B.Tech	21BJ1A5422	4	1
BJ	B.Tech	21BJ1A5423	4	1
BJ	B.Tech	21BJ1A5437	4	1
BJ	B.Tech	21BJ1A5451	4	1
BJ	B.Tech	21BJ1A5456	4	1
BJ	B.Tech	21BJ1A5465	4	1
BJ	B.Tech	21BJ1A5468	4	1
BJ	B.Tech	21BJ1A5472	4	1
BJ	B.Tech	21BJ1A5475	4	1
BJ	B.Tech	21BJ1A5480	4	1
BJ	B.Tech	21BJ1A5487	4	1
BJ	B.Tech	21BJ1A54A6	4	1
BJ	B.Tech	21BJ1A54A9	4	1
BJ	B.Tech	21BJ1A54B4	4	1
BJ	B.Tech	21BJ1A54B8	4	1
BJ	B.Tech	21BJ1A54B9	4	1
BJ	B.Tech	21BJ1A54C0	4	1
BJ	B.Tech	22BJ5A5403	4	1

**** Note:****

If you have any queries, Please contact CE-Office with proofs (Credits List) on or before 01-11-2024(11 AM).

Date:29.10.2024

A handwritten signature in black ink, appearing to be 'ATD' followed by a stylized flourish.

Controller of Examinations(UG)



Ref: Proc.No.JNTUK/E1/Promotion Criterion/2023,dated:25-09-2023.

REVISED DETAINED LIST

By the directions,All the Principals of the affiliated colleges are hereby informed that the following students are detained in III & IV B.Tech I Semester due to lack of credits.

Sno	CC	Course	Htno	Year	Semester
1	BJ	B.Tech	22BJ1A0556	3	1
2	BJ	B.Tech	22BJ1A0583	3	1
3	BJ	B.Tech	22BJ1A0584	3	1
4	BJ	B.Tech	22BJ1A0595	3	1
5	BJ	B.Tech	22BJ1A05E0	3	1
6	BJ	B.Tech	22BJ1A05E5	3	1
7	BJ	B.Tech	22BJ1A4225	3	1
8	BJ	B.Tech	22BJ1A4227	3	1
9	BJ	B.Tech	22BJ1A5423	3	1
10	BJ	B.Tech	22BJ1A5428	3	1
11	BJ	B.Tech	22BJ1A5436	3	1
12	BJ	B.Tech	22BJ1A5452	3	1
13	BJ	B.Tech	22BJ1A54D0	3	1
14	BJ	B.Tech	22BJ1A54D2	3	1
15	BJ	B.Tech	22BJ1A54D7	3	1
16	BJ	B.Tech	22BJ1A54M0	3	1
17	BJ	B.Tech	22BJ1A54M4	3	1
18	BJ	B.Tech	22BJ1A54N6	3	1
19	BJ	B.Tech	22BJ1A54O5	3	1
20	BJ	B.Tech	21BJ1A4203	4	1
21	BJ	B.Tech	21BJ1A4215	4	1
22	BJ	B.Tech	21BJ1A4218	4	1
23	BJ	B.Tech	21BJ1A4223	4	1
24	BJ	B.Tech	21BJ1A4227	4	1
25	BJ	B.Tech	21BJ1A4231	4	1
26	BJ	B.Tech	21BJ1A4240	4	1
27	BJ	B.Tech	21BJ1A4244	4	1
28	BJ	B.Tech	21BJ1A4265	4	1
29	BJ	B.Tech	21BJ1A4277	4	1
30	BJ	B.Tech	21BJ1A4291	4	1
31	BJ	B.Tech	21BJ1A4299	4	1
32	BJ	B.Tech	21BJ1A42A6	4	1
33	BJ	B.Tech	21BJ1A42B9	4	1
34	BJ	B.Tech	21BJ1A42C1	4	1
35	BJ	B.Tech	21BJ1A42C2	4	1
36	BJ	B.Tech	21BJ1A42C9	4	1
37	BJ	B.Tech	21BJ1A4408	4	1
38	BJ	B.Tech	21BJ1A4410	4	1
39	BJ	B.Tech	21BJ1A4465	4	1
40	BJ	B.Tech	21BJ1A4602	4	1

Sno	CC	Course	Htno	Year	Semester
41	BJ	B.Tech	21BJ1A4603	4	1
42	BJ	B.Tech	21BJ1A4614	4	1
43	BJ	B.Tech	21BJ1A4632	4	1
44	BJ	B.Tech	21BJ1A4656	4	1
45	BJ	B.Tech	21BJ1A5418	4	1
46	BJ	B.Tech	21BJ1A5422	4	1
47	BJ	B.Tech	21BJ1A5423	4	1
48	BJ	B.Tech	21BJ1A5451	4	1
49	BJ	B.Tech	21BJ1A5456	4	1
50	BJ	B.Tech	21BJ1A5465	4	1
51	BJ	B.Tech	21BJ1A5468	4	1
52	BJ	B.Tech	21BJ1A5472	4	1
53	BJ	B.Tech	21BJ1A5475	4	1
54	BJ	B.Tech	21BJ1A5480	4	1
55	BJ	B.Tech	21BJ1A5487	4	1
56	BJ	B.Tech	21BJ1A54A6	4	1
57	BJ	B.Tech	21BJ1A54A9	4	1
58	BJ	B.Tech	21BJ1A54B4	4	1
59	BJ	B.Tech	21BJ1A54B8	4	1
60	BJ	B.Tech	21BJ1A54B9	4	1
61	BJ	B.Tech	21BJ1A54C0	4	1
62	BJ	B.Tech	22BJ5A5403	4	1

**** Note:****

If you have any queries, Please contact CE-Office with proofs (Credits List) on or before 01-11-2024(11 AM).

Date:30.10.2024

Controller of Examinations(UG)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

(Established by Govt. of A.P., ACT No.30 of 2008)

KAKINADA – 533 003 (A.P) INDIA

MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

COURSE STRUCTURE MBA (REGULAR) 2024-2025

(Effective for the students admitted into first year from the academic year 2024-2025)

MASTER OF BUSINESS ADMINISTRATION

I & II Semester

(Applicable for the Batch Admitted from 2024-25)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

KAKINADA-533003, Andhra Pradesh (India)



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KAKINADA – 533 003 (A.P) INDIA

MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

I Year I Semester

S.No	Course Code	Courses	M	L	T	P	C
1	C-101	Management and Organizational Behavior	100	4	0	0	4
2	C-102	Managerial Economics	100	4	0	0	4
3	C-103	Accounting for Management	100	4	0	0	4
4	C-104	Quantitative Analysis for Business Decisions	100	4	0	0	4
5	C-105	Entrepreneurship Development	100	4	0	0	4
6	C-106	Business Environment	100	4	0	0	4
7	OE-101	A. Information Technology for Business B. Rural Development C. Intellectual Property Rights & Patents D. MOOCs : SWAYAM/NPTEL- (Related to Management Courses other than listed courses in the syllabus)	100	3	0	0	3
8	SE-101	PACE-UP(Personality Assessment Centre, Enhancement and Upgradation Processes) Programme	50	0	0	4	2
9	SE-102	Tally Lab	50	0	0	4	2
10	VA-101	Entrepreneur Project -I Identifying the area of interest, interacting with successful business ² and submission of ground report.	50	0	0	4	2
Total			850	27	0	12	33

The Entrepreneur Project can be done either individually or forming a group(limited to maximum of 4 members)



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MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

I Year II Semester

S.No	Course Code	Courses	M	L	T	P	C
1	C-201	Financial Management	100	4	0	0	4
2	C-202	Human Resource Management	100	4	0	0	4
3	C-203	Operations Management	100	4	0	0	4
4	C-204	Marketing Management	100	4	0	0	4
5	C-205	Research Methods for Business Decisions	100	4	0	0	4
	C-206	Business Analytics	100	4	0	0	4
6	OE-201	A. Cross Cultural management B. Project Management C. Lean Management D. Database Management System	100	3	0	0	3
7	SE-201	R-Programming Lab	50	0	0	4	2
8	SE-202	IT Lab (Spread sheets and SQL)	50	0	0	4	2
9	VA-201	Entrepreneur Project –II Study on different loan approaches of State and Central Govt. Prepare the Business Development plan.	50	0	0	4	2
Total			850	27	0	12	33



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MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

I Year I Semester

L	T	P	C
4	0	0	4

MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

Objective of the course:

Objective of the course is to give a basic perspective of Management.

This will form foundation to study other functional areas of management and to provide the students with the conceptual framework and the theories underlying Organizational Behaviour.

Unit – I

Definition, Nature, Functions and Importance of Management – Evolution of Management thought – Scientific management, administrative management, Hawthorne experiments – systems approach - Levels of Management - Managerial Skills - Planning – Steps in Planning Process – importance and Limitations – Types of Plans - Characteristics of a sound Plan - Management by Objectives (MBO) - Techniques and Processes of Decision Making - Social Responsibilities of Business

Unit-II

Organizing – Principles of organizing – Organization Structure and Design – Types of power - Delegation of Authority and factors affecting delegation – Span of control – Decentralization – Line and staff structure conflicts - Coordination definition and principles - Emerging Trends in Corporate Structure – Formal and Informal Organization- Nature and importance of Controlling, process of Controlling, Requirements of effective control and controlling techniques.

Unit – III

Organizational behavior: Nature and scope – Linkages with other social sciences – Individual roles and organizational goals – perspectives of human behavior - Perception– perceptual process – Learning - Learning Process- Theories - Personality and Individual Differences - Determinants of Personality - Values, Attitudes and Beliefs - Creativity and Creative thinking.

Unit – IV

Motivation and Job Performance – Content and process Theories of Motivation - Leadership - Styles - Approaches – Challenges of leaders in globalized era – Groups – stages formation of groups – Group Dynamics - Collaborative Processes in Work Groups - Johari Window- Transactional Analysis.

Unit – V:

Organizational conflict-causes and consequences-conflict and Negotiation Team Building, Conflict Resolution in Groups and problem solving Techniques – Organizational change - change process - resistance to change - Creating an Ethical Organization.



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(Applicable for batches admitted from 2024-25)

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References:

1. Harold Koontz, Heinz Weihrich, A.R.Aryasri, Principles of Management, TMH, 2010.
2. Dilip Kumar Battacharya, Principles of Management, Pearson, 2012.
3. Kumar, Rao, Chhaalill “Introduction to Management Science” Cengage Publications, New Delhi
4. V.S.P.Rao, Management Text and Cases, Excel, Second Edition, 2012.
5. K.Anbuvelan, Principles of Management, University Science Press, 2013.
6. K.Aswathappa “ Organisational Behaviour-Text, Cases and Games”, Himalaya Publishing House, New Delhi,2008.
7. Steven L Mc Shane, Mary Ann Von Glinow, Radha R Sharma: “Organisational Behaviour”, TMH Education, New Delhi,2008



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MBACOURSE STRUCTURE & SYLLABUS

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I Year I Semester

L	T	P	C
4	0	0	4

MANAGERIAL ECONOMICS

Course Objective:

- 1: Objective of the course is to introduce basic concepts and techniques of Managerial Economics and comprehend student with vital decisions of business.
- 2: Assimilate and apply the laws of economics in the business.
- 3: Acquire the knowledge about the various types of market structure for strategizing and wise decision making.
- 4: Practice the pricing strategies in the business management policies.
- 5: Achieve the knowledge about macroeconomics to foresee the external forces to the effective decisions in organisation.

Learning Outcomes: Use supply and demand to explain various economic phenomena and principles.

1. Explain the economic meaning of price, elasticity, and production costs. Describe the cause and effect of changes in all of these variables.
2. Draw and analyse cost and revenue curves that maximize profit.
3. Discuss differences and critically analyse the pros and cons of different market structures, including competitive, monopolistic and oligopolistic markets.
4. Pricing strategies to achieve and applicability in the market conditions
5. Knowledge about macroeconomics conditions and learn to applicable in the present context.

UNIT-I:

Introduction to Managerial Economics: Nature and Scope- of managerial Economics: Incremental reasoning, Concept of Time Perspective, Discounting Principle, Opportunity Cost Principle, Equi -Marginal Concept-Theory of Firm-profit measurement-social responsibility of business.

UNIT-II:

Demand Analysis and Forecasting: Concepts of Demand, Supply, Determinants of Demand and Supply, Elasticities of Demand and Supply- Methods of demand forecasting for established and new products-.

UNIT-III:

Cost and Production Analysis: Cost: Concept and types, Cost-Output Relationships, Cost Estimation, Reduction and Control- Economies and Diseconomies of Scale- Law of Variable Proportions- Returns to Scale- Isoquants-Cobb-Douglas and CES Production functions.



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MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

UNIT-IV:

Theory of Pricing: Price determination under Perfect Competition, Monopoly, Oligopoly and Monopolistic Competitions- Methods of Pricing. Market structures: Perfect and Imperfect Market Structure. Price discrimination-degrees of price discrimination.

UNIT-V:

Macro Economics and Business: Concept, Nature and Measurement of National Income- - Fiscal and Monetary Policies. Inflation and Deflation: Inflation - Meaning and Kinds, Types, Causes and measurement of inflation Measures to Control Inflation, Deflation- - Philips curve- Stagflation-Theory of Employment- Business cycles: Policies to counter Business Cycles.

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References:

1. D.M.Mithani, Managerial Economics, Himalaya Publishing House
2. Hirschey-Managerial economics, 12th ed-cengage
3. Gupta G.S., Managerial Economics, TMH, 1988.
4. P.L. Mehta, Managerial Economics, PHI, 2001.
5. K .KDawett, Modern Economic Theory, Sultan Chand & Sons.
6. D.N. Dwivedi, Managerial Economics, 7th Ed, Vikas Publishing.
7. H.Craig Peterson, W.CrisLewis, managerialeconomics ,Pearson, 2005.



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MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

I Year I Semester

L	T	P	C
4	0	0	4

ACCOUNTING FOR MANAGEMENT

COURSE OBJECTIVES:

The objective of this course is to acquaint the students regarding various accounting concepts and its application in managerial decision making.

Unit – I:

Financial Accounting- concept, Importance and scope, accounting principles, accounting cycle, journal ledger, trial balance, Preparation of final accounts with adjustments.

Unit – II:

Analysis and interpretation of financial statements – meaning, importance and techniques, ratio analysis, Fund flow analysis, cash flow analysis (AS - 3).

Unit – III:

Cost accounting–meaning, importance, methods, techniques; classification of costs and cost sheet; Inventory valuation methods- LIFO, FIFO, HIFO and weighted average method

Unit – IV:

Management accounting – concept, need, importance and scope; budgetary control-meaning, need, objectives, essentials of budgeting, different types of budgets and their preparation.

Unit-V:

Standard costing and variance analysis (materials, labour)-Marginal costing and its application in managerial decision making

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References:

1. MAHESWARI AND MAHESWARI" Financial Accounting", Vikas Publishing House, New Delhi, 2013.
2. Pandey, I.M. Management Accounting, Vikas Publishing House, New Delhi.
3. Horngen, Sundem & Stratton, Introduction to Management Accounting, Pearson Education, New Delhi.
4. Hansen & Mowen, Cost Management, Thomson Learning.
5. Mittal, S.N. Management Accounting and Financial management, Shree Mahavir Book Depot, New Delhi.
6. Jain S.P. and Narang K.L. Advanced Cost Accounting, Kalyani Publishers Ludhiana.
7. Khan M.Y. and Jain, P.K. Management Accounting, TMH, N. Delhi.



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MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

I Year I Semester

L	T	P	C
4	0	0	4

QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS

Course Objectives:

- 1: To develop a deeper understanding of meaning and importance of quantitative technique and its applications in managerial decisions.
- 2: Statistical tools like measures of central tendency & measures of variations and apply these tools to real life situations.
- 3: Students have more knowledge about the decision making concept, process of decision making and different environments like risk, uncertainty and certainty.
- 4: To have knowledge about Sampling and Sampling Distributions-Estimation-Point and Interval Estimates, Concepts of Testing Hypothesis.
- 5: Students would able to understand the concept of ANOVA, Chi-square Test of Independence and Goodness of fitness.

Course Outcomes:

At the end of the course students will be able to:

- 1 Basic importance and applications of quantitative techniques.
- 2 Study the various measures and applicability of probability related to the statistics.
- 3 Justify the several decisions in decision theory.
- 4 Use and understand the different sampling distribution techniques.
- 5 Test the hypothesis for choosing best conclusion and inference.

UNIT-I:

Quantitative Techniques: Introduction - Meaning and Definition – Classification of QT -QT and other disciplines – Application of QT in business 9- Limitations.

UNIT -II:

Measure of Central Tendency and Dispersions- Arithmetic Mean; Geometric Mean; Harmonic Mean; Median:Mode, Standard Deviation. Simple correlation- Karl Pearson's Coefficient of correlation, Rank correlation. Simple Regression Analysis – Concept of Probability-Probability Rules-Joint and Marginal probability-Bayes's Theorem-Probability Distributions - Binominal, Poisson, Normal & Exponential Probability Distributions.

UNIT- III:

Introduction of Decision Theory: Steps involved in decision making, different environments in which decisions are made, Criteria for decision making, Decision making under uncertainty, Decision making under conditions of Risk-Utility as a decision criterion, Decision trees, Graphic displays of the decision-making process, Decision making with an active opponent.



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MBACOURSE STRUCTURE & SYLLABUS

(Applicable for batches admitted from 2024-25)

UNIT- IV:

Concept of Estimation and Sampling: Inferential Analysis-Point Estimates and Interval Estimates of Averages and Proportions of small and large samples. Sampling –Meaning, Steps in Sampling Process-Sample Size- Probability and non- probability sampling techniques, Errors in sampling.Tests of significance- Types- Hypothesis-Types- Hypothesis testing and Confidence Intervals. Parametric Tests for means, Proportions, Variance and Paired Observations.

UNIT- V:

Analysis of Variance (ANOVA): One-way and Two Way ANOVA, Non Parametric tests- Chi-Square- Test of Independence, Test of Goodness of Fit.

Relevant cases have to be in each unit and in examination case is compulsory for every unit.

References:

- 1 N.D. Vohra “Quantitative Techniques in Management”, Tata-McGraw Hill Private Limited, New Delhi, 2011.
- 2 Gupta S.P “Statistical Methods”, S. Chand and Sons, New Delhi.
- 3 Anand Sharma “Quantitative Techniques for Business decision Making Himalaya Publishers, New Delhi, 2012.
- 4 D.P. Apte “Operation Research and Quantitative Techniques”, Excel Publications, New Delhi, 2013.
- 5 Hamdy, A. Taha “Operation Research. An Introduction”, Prentice-Hall of India, New Delhi, 2003.
- 6 Anderson “Quantitative Methods for Business”, Cengage Learning, New Delhi, 2013.



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I Year I Semester

L	T	P	C
4	0	0	4

ENTREPRENEURSHIP DEVELOPMENT

UNIT -I

Introduction: Definition of Entrepreneur, Entrepreneurial motivation and barriers; Internal and external factors Economic Barriers to Entrepreneurship –Non-Economic Barriers to Entrepreneurship- Theories of entrepreneurship; Classification of Entrepreneurship- Entrepreneurship in Developing Economy – Entrepreneurial Values and Attitudes

UNIT- II

Problems & Support: Incubation and Take-off, Problems encountered Structural, Financial and Managerial Problems, Types of Uncertainty. -Institutional support for new ventures: Supporting organizations; Incentives and facilities; Financial Institutions and Small-scale Industries, Govt. Policies for SSIs. -Role of SIDBI in Project Management.

UNIT -III

Types of Entrepreneurs: Family and non-family entrepreneurs - Role of Professionals, Professionalism vs. family entrepreneurs—Sick industries, Reasons for Sickness, Remedies for Sickness, Role of BIFR in revival, Bank Syndications.

Unit -IV

Project Analysis: Meaning and Definition of Project, Types & Characteristics – Project Phases – Project Life Cycle – Project Family Tree – Feasibility Analysis and Project Report.

Unit -V

Development of Enterprise: Concept and development of Enterprise - Procedure of starting Enterprise – Vital Decision to make during start up: Project Report Preparation, Choice of Enterprise, and Market Assessment of Enterprise.

References:

- 1) Couger, C-Creativity and Innovation (IPP, 1999)
- 2) Nina Jacob, -Creativity in Organisations (Wheeler, 1998) 11
- 3) Jonne&Ceserani-Innovation&Creativity(Crest) 2001.
- 4) BridgeSetal-Understanding Enterprise: Entrepreneurship and Small Business (Palgrave,2003)
- 5) Holt-Entrepreneurship: New Venture Creation (Prentice-Hall) 1998.
- 6) Singh P&Bhanderkar A-Winning the Corporate Olympiad:TheRenaissancearadigm(Vikas)
- 7) Dollinger M J-Entrepreneurship (Prentice-Hall, 1999).
- 8) Tushman, M.L. & Lawrence, P.R. (1997)-Managing Strategic Innovation & Change Oxford.
- 9) Jones T. (2003)-Innovating at the Edge: How Organizations Evolve and Embed Innovation Capability.Butterwork Heinemann, U. K.
- 10) Amidon, D. M.(1997)-Innovation Strategy for the Knowledge Economy:TheKanawakening. Butterwork-Heinemann, New Delhi, India.



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BUSINESS ENVIRONMENT

OBJECTIVES:

The objective of this paper is to make the students more clear about the importance of business organisation wants to achieve, to earn profit for its growth and development, to provide quality goods to its customers, to protect the environment, etc.

UNIT – I: Introduction: The Concept of Business Environment - its Nature and Significance - Components of Business Environment - Impact of environment on business and strategic decisions.

UNIT – II: Social and Cultural Environment: Introduction - Social environment - Cultural environment - Impact of Foreign Culture on Business - Types of Social Organization - Social Responsibilities of Business.

UNIT – III: Economic Environment: Introduction - Economic environment of Business - Economic systems - Macroeconomic parameters and their impact of business - Economic policies - Five Year Plans in India.

UNIT – IV: Political and Legal Environment: Introduction - Political environment - Relationship between Government and Business in India - Role of Government in Business - Constitutional provisions regarding regulation of business in India. Legal Environment - Implementations of Business - Corporate Governance.
Relevant cases have to be discussed in each unit and in examination

UNIT – V: Technological and Natural Environment: Features of Technological Environment - Factors and Impact of Technological Environment - Technological Environment in India - Elements of Natural Environment - Environmental Pollution. case is compulsory from any unit.

References:

1. Shaikh Saleem: “Business Environment”, Pearsons, New Delhi,
2. Veena Keshav Pailwar: “Economic Environment of Business”, PHI Learning, New Delhi, 2012
3. Rosy Joshi, Sangam Kapoor: “Business Environment”, Kalyani Publishers, New Delhi, 2011.
4. Aswathappa K: “Essentials of Business Environment”, Himalaya Publishing House, New Delhi, 2011.
5. Vivek Mittal: “Business Environment Text and Cases”, Excel Books New Delhi, 2011.



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6. Sundaram and Black: “International Business Environment Text and Cases”, PHI Private Limited, New Delhi.
7. Avid W Conklin: “Cases in Environment of Business”, Sage Publication India Private Ltd, New Delhi. 8. Raj Kumar: “International Business Environment”, Excel Publication, New Delhi, 2012.
9. Palle Krishna Rao: “WTO-Text and Cases”, Excel Publication, New Delhi.
10. Government of India, Latest Economic Survey Report.



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I Year I Semester

L	T	P	C
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INFORMATION TECHNOLOGY FOR BUSINESS

Course Objectives:

- To understand business processes and information technology in business.
- To manage and understand IT in business organizations.
- To build and develop technology trends.
- To understand the challenges on using Technology for business
- To learn ethical issues in information technology

At the end of this course students will be able to:

- 1: Clear understanding of Information Technology in business scenarios.
- 2: Importance of Technology in business processes.
- 3: Significance of intelligent systems in business.
- 4: Usage of various digital platforms across the business.
- 5: exploring e-commerce and ERP scenario.

UNIT-I

Business and Information Technology - Business in the Information Age, Information system, CBIS, Trends in IT Evolution and types of Information Systems, Managing IT in organization.

UNIT-II

Information Technology Infrastructure - Computer Hardware, Software, Managing and Organization of Data and Information - Telecommunication and Networks. The Internet and Intranet (I.O.T).

UNIT-III

Information Technology for Competitive advantage - Inter Organizational Information Systems, Global Information Systems, Electronic Data Interchange (EDI) and Electronic Funds Transfer (EFT). Enterprise Resource Planning, Data Knowledge, and Decision Support.

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UNIT-IV

Intelligent Systems in Business - Artificial intelligence and Intelligent Systems - Expert Systems, Intelligent Agents, Virtual Reality, Ethical and global issues of Intelligent systems.

UNIT-V

Electronic Commerce - Foundation, Business to Consumer Applications, Business to Business Applications, Consumer Market Research and other Support, Legal and Ethical issues in E-commerce Strategy, Information Systems, Strategic Advantage, Porter's Competitive Forces model on IT, Business Process Re-engineering, Virtual Corporations, E-Learning, CBI, Information Systems Development Life Cycle (SDLC), Building Internet and Intranet Applications.



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Text Books:

1. Turban Rainer and Potter: Introduction to Information Technology, John & Wiley Sons.
2. James O'Brien: Introduction to Information Systems, McGraw Hill Book Company.



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I Year I Semester

L	T	P	C
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RURAL DEVELOPMENT

Course Objectives:

1. To facilitate the students to understand the basic nature of rural society in India
2. To appraise students about the Rural Local Administration
3. To provide insights on rural demography and rural economy in India
4. To provide insights on various processes and challenges of agriculture in India
5. To make students aware of the rural market structure in India

Outcomes of the course:

1. Describe the key aspects of rural society in India
2. Describe the rural local administration
3. Analyse the dynamics of local rural population and local rural economy
4. Explain the processes and challenges of agriculture in India
5. Summarise the components and implications of land tenure systems and land reforms in India.

Unit-I

Rural Development: Concept, Importance, Nature and scope, Characteristics of rural economy, human capital of development- Distinction between development and growth, Indicators of rural development, problems & issues in rural development.

Unit – II

Rural Management: Nature, Scope and challenges in marketing operations, human and financial resources in rural areas. Entrepreneurship opportunities in rural areas, Agricultural production, productivity and backwardness, Social and Economic structure of rural India and its economic development.¹⁶

Unit – III

Rural Community Development: M.D.G -Concept of community, Function of Community,PURA model, Community profile: Process and tools. Community development: Characteristics, Principles andscope, Panchayat Raj and community development in India.; Zilla Parishad - structure, powers,function, working and problems in Rural Administration.



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Unit – IV

Sustainable Development: Biodiversity and its conservation, Environmental pollution, air, water and soil pollution., Rainwater harvesting Watershed management. Social security schemes in India-DDP-CRSP-NHRDP-DWACRA-DRDA-Health care programmes.

Unit-V

Concept and Scope of Rural Market, Characteristics of rural markets, Environmental factors: Micro and Macro marketing environment, Marketing planning process, Introduction to services marketing. Fundamentals of Rural Demography and Economics: Rural population –process of development-GATT-WTO-SEZ-CSR-NAIS.

Reference:

- 1.Satya Sundram, I. “Rural Development” Himalaya Publishing House, New Delhi.
- 2.K. Venkatareddy-Agricultural and rural Development-Himalaya publishing house



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I Year I Semester

L	T	P	C
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INTELLECTUAL PROPERTY RIGHTS & PATENTS

Course Objective:

1. The main objective of the IPR is to make the students aware of their rights for the protection of their invention done in their project work.
2. To get registration in our country and foreign countries of their invention, designs and thesis or theory written by the students during their project work and for this they must have knowledge of patents, copy right, trademarks, designs and information Technology Act.
3. Further the teacher will have to demonstrate with products and ask the student to identify the different types of IPR's.

Course outcomes:

- The students once they complete their academic projects, they get awareness of acquiring the patent
- They also learn to have copyright for their innovative works.
- They also get the knowledge of plagiarism in their innovations which can be questioned legally.

Unit-I

INTRODUCTION TO IPR: Meaning of property, Origin, Nature, Meaning of Intellectual Property Rights –Kinds of Intellectual property rights—Copy Right, Patent, Trademark, Trade Secret and trade dress, Design, Layout Design, Geographical Indication, Plant Varieties and Traditional Knowledge.

Unit-II

PATENT RIGHTS AND COPY RIGHTS— Origin, Meaning¹⁸ of Patent, Types, Inventions which are not patentable, Registration Procedure, Rights and Duties of Patentee, Assignment and license, Restoration of lapsed Patents, Surrender and Revocation of Patents, Infringement, Remedies & Penalties. COPY RIGHT—Origin, Definition &Types of Copy Right, Registration procedure, Assignment & license, Terms of Copy Right, Piracy, Infringement, Remedies, Copy rights with special reference to software.

Unit-III

TRADEMARKS— Origin, Meaning & Nature of Trademarks, Types, Registration of Trade Marks, Infringement & Remedies, Offences relating to Trade Marks, Passing Off, Penalties.



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Unit-IV

DESIGN- Meaning, Definition, Object, Registration of Design, Cancellation of Registration, International convention on design, functions of Design. Semiconductor Integrated circuits and layout design Act-2000.

Unit-V

BASIC TENENTS OF INFORMATION TECHNOLOGY ACT-2000 – IT Act - Introduction E-Commerce and legal provisions E- Governance and legal provisions Digital signature and Electronic Signature. Cybercrimes

TEXTBOOKS:

1. Intellectual Property Rights and the Law, Gogia Law Agency, by Dr. G.B. Reddy
2. Law relating to Intellectual Property, Universal Law Publishing Co, by Dr.B.L.Wadehra
3. IPR by P. Narayanan
4. Law of Intellectual Property, Asian Law House, Dr.S.R. Myneni



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MOOCs : SWAYAM/NPTEL- Related to Management Courses other than listed courses in the syllabus

NOTE: Students opting for SWAYAM should register for 12 weeks course and need to produce the Pass certificate with minimum 40% (Percentage) for receiving the Academic Credits. The actual percentage mentioned on the certificate will be transferred to the marks memo.



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L	T	P	C
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PACE UP

(Personality Assessment Centre, Enhancement and Upgradation Processes)

Course Objectives:

Business Etiquettes and Professionalism has been designed to meet the following objectives:

- To learn the principles of business etiquettes and professional behaviour
- To understand the etiquettes for making business correspondence effective
- To be able to present yourself confidently at various business situations
- Develop awareness of dining and multicultural etiquettes

Learning Outcome:

After completion of course students will be able to:

- Demonstrate an understanding of professionalism in terms of workplace behaviours and workplace relationships.
- Adopt attitudes and behaviours consistent with standard workplace expectations.
- Presenting oneself with finesse and making others comfortable in a business setting.
- Developing basic life skills or etiquettes in order to succeed in corporate culture.

Unit: I

Business Etiquettes- An Overview: Significance of Business Etiquettes in 21st Century Professional Advantage; Need and Importance of Professionalism

Workplace Etiquette: Etiquette for Personal Contact- Personal Appearance, Gestures, Postures, Facial Expressions, Eye-contact, Space distancing

E-Mail Etiquette: Significance of Netiquette, E-mail: Way of professional communication,

Basic Email Etiquettes: Proper Grammar, Spelling, Punctuation, Styling and Formatting, Body of Email, Response, Privacy

Unit – II

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Telephone Etiquettes: Telephone Communication Techniques -Placing Telephone calls, Answering Calls, Transferring Calls, Putting Calls on Hold, Taking Messages, Handling Rude Callers, Tactful Responses, Leaving Professional Messages; Developing Cell Phone Etiquettes; Voicemail Etiquette; Telephonic Courtesies

Dining Etiquette: Basics of Dining Etiquettes; Basic essentials of dining table etiquettes - Napkin Etiquette, Seating arrangements, laying the table, how to use Cutlery, Posture & Behaviour, Do's and Don'ts; International Dining Etiquettes.

Multi-Cultural Challenges: Cultural Differences and their Effects on Business Etiquette



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Unit – III

Communication Skills: Understanding Human Communication, Constitutive Processes of Communication, Language as a tool of communication, Barriers to Effective communication, Strategies to Overcome the Barriers.

Emotional intelligence: Importance, concept, theory and measurements.

Stress Management: Strategies for preventing and relieving stress.

Time management: Meaning; Techniques and styles.

Unit – IV

Interview Skills: Interview Skills: in-depth perspectives, Interviewer and Interviewee, Before, During and After the Interview, Tips for Success.

Meeting Etiquette: Managing a Meeting-Meeting agenda, Minute taking; Duties of the chairperson and secretary; Effective Meeting Strategies - Preparing for the meeting, Conducting the meeting, Evaluating the meeting

Presentation Etiquettes: Importance of Preparation and Practice; Effective Delivery Techniques, Audience Analysis, Handling Stage Fright.

Unit- V

Teamwork and Leadership Skills: Concept of Teams; Building effective teams; Concept of Leadership and honing Leadership skills.

Personality: Meaning & Definition, Determinants of Personality, Personality Traits, Personality and Organisational Behaviour

Motivation: Nature & Importance, Herzberg's Two Factor theory, Maslow's Need Hierarchy theory, Alderfer's ERG theory

Decision-Making and Problem-Solving Skills: Meaning, Types and Models, Group and Ethical Decision-Making, Problems and Dilemmas in application of these skills.

Conflict Management: Conflict - Definition, Nature, Types and Causes; Methods of Conflict Resolution.

Human Resource Management: Introduction to HRM, Selection, Orientation, Training & Development, Performance Appraisal, Incentives

Case Study Analysis



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Suggested Readings:

- Barbara Pachter, Marjorie Brody. Complete Business Etiquette Handbook. Prentice Hall, 2015.
- Dhanavel, S.P. English and Soft Skills. Hyderabad: Orient BlackSwan, 2021.
- Koneru, Aruna. Professional Communication. Delhi: McGraw, 2008.
- Mahanand, Anand. English for Academic and Professional Skills. Delhi: McGraw, 2013. Print.
- Nancy Mitchell. Etiquette Rules: A Field Guide to Modern Manners. Wellfleet Press, 2015.
- Rani, D Sudha, TVS Reddy, D Ravi, and AS Jyotsna. A Workbook on English Grammar and Composition. Delhi: McGraw, 2016.
- Raghu Palat, Indian Business Etiquette, Jaico Books, 2015.
- Rizvi, M. Ashraf. Effective Technical Communication. Delhi: McGraw, 2018.
- Pease, Allan and Barbara Pease. The Definitive Book of Body Language. New Delhi: Manjul Publishing House, 2005.
- Tengse, Ajay R. Soft Skills: A Textbook for undergraduates, Orient BlackSwan, 2015



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TALLY LAB

Objective:

To Understand the students' basics of the Computers Knowledge with Financial Software Knowledge

Unit- I

FUNDAMENTALS OF TALLY.ERP: tally origin - Company features -Configuration - Getting functions with Tally.ERP9 - Creation / setting up of Company - Chart of Groups - Groups -Multiple Groups - Ledgers -Multiple Ledgers

Unit -II

INVENTORY MASTERS IN TALLY.ERP9 - Stock Groups - Multiple Stock Groups - Stock Categories - Multiple Stock Categories - Units of Measure- Stock Items- vouchers entries - Types of Vouchers - Chart of Vouchers - Accounting Vouchers - Inventory Vouchers - Invoicing

Unit -III

ADVANCE ACCOUNTING & INVENTORY TALLY.ERP9 - Bill-wise details - Cost centers and Cost Categories - Multiple currencies - Interest calculations - Budget and controls - Scenario management - Bank Reconciliation - Order Processing - Recorder Levels - Batch-wise details - Bill of Materials - Price Lists - Zero-Valued Entries - Additional cost details - POS

Unit – IV

TAXES IN TALLY.ERP9 - TDS - TDS Reports - TDS Online Payment - TDS Returns filing - TDS Certificate issuing - 26AS Reconciliation - TCS - TCS Reports - GST - GST Returns – EPF - ESIC - Professional Tax

Unit V

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GENERATING REPORTS IN TALLY.ERP9 - Financial Statements - Trading Account - Profit & Loss Account - Balance Sheet - Accounts Books and Reports - Inventory Books and Reports - Exception Reports - Statutory Reports - Payroll Reports - Trail balance - Day Book – -List of Accounts - Stock Summary - Outstanding Statement

Reference Books:

1. TallyPrime Book (2023) by Sanjay SatpathySWAYAM EDUCATION MandalBagicha, Hemkapada, Sunhat, Balasore,Odisha-756003 (INDIA)
2. Tally power of simplicity (2011) by ArunaPrakashanHindvi Computer, Latur
3. Financial Accounting and Analysis - Discovery Publishing House Pvt. Ltd., New Delhi
4. Management and Cost accounting - - Discovery Publishing House Pvt. Ltd., New Delhi



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ENTREPRENEUR PROJECT -1



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I Year II Semester

FINANCIAL MANAGEMENT

UNIT -I

Financial Management: Concept - Nature and Scope - Evolution of financial Management - The new role in the contemporary scenario – Goals and objectives of financial Management - Firm's mission and objectives - Profit Maximization Vs. Wealth maximization – Maximization Vs Satisfying - Major decisions of financial manager.

UNIT -II

Financing Decision: Sources of finance - Concept and financial effects of leverage – EBIT – EPS analysis. Cost of Capital: Weighted Average Cost of Capital– Theories of Capital Structure.

UNIT-III

Investment Decision: Concept and Techniques of Time Value of Money – Nature and Significance of Investment Decision – Estimation of Cash flows – Capital Budgeting Process – Techniques of Investment Appraisal – Discounting and Non Discounting Methods.

UNIT-IV

Dividend Decision: Meaning and Significance – Major forms of dividends – Theories of Dividends – Determinants of Dividend – Dividends Policy and Dividend valuation – Bonus Shares –Stock Splits – Dividend policies of Indian Corporate.

UNIT-V

Liquidity Decision: Meaning - Classification and Significance of Working Capital – Components of Working Capital – Factors determining the Working Capital – Estimating Working Capital requirement – Cash Management Models – Accounts Receivables –Credit Policies – Inventory Management.

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Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.



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References:

1. I.M. Pandey: “**Financial Management**”, Vikas Publishers, New Delhi, 2013.
2. Khan and Jain: Financial Management, Tata McGraw Hill, New Delhi,
3. Prasanna Chandra: “**Financial Management Theory and Practice**”, Tata McGrawHill 2011.
4. P.Vijaya Kumar, M.Madana Mohan, G. Syamala Rao: “**Financial Management**”, Himalaya Publishing House, New Delhi, 2013.
5. Brigham,E.F: “**Financial Management Theory and Practice**”, Cengage Learning, New Delhi, 2013
6. RM Srivastava, Financial Management, Himalaya Publishing house, 4th edition.



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HUMAN RESOURCE MANAGEMENT

Course Objectives:

- 1: To acquaint students with a broad perspective on themes and issues of Human Resource Management.
- 2: To familiarize the student with Investment perspectives of HRM.
- 3: To familiarize students with the concepts of career development, counseling and gain knowledge about current compensation trends.
- 4: To gain knowledge about Wage determinants and welfare measures.
- 5: To familiarize the students with industrial relations concepts , disputes and grievance mechanism , safety in the work places.

Course Outcomes:

At the end of the Course, Student will be able to:

- 1 : Cite evolution and emerging trends of HRM.
- 2 : Critically analyze Investment and HRD concepts.
- 3 : List different appraisal and Compensation system.
- 4 : Evaluate incentive payment system and welfare measures given to employees.
- 5 : Interpret industrial relations in organization.

UNIT -I

HRM: Concept, Nature, Scope- and Functions – evolution of HRM- Principles - Ethical Aspects of HRM- HR policies, Strategies to increase firm performance - Role and position of HR department – Strategic HR in changing environment – Emerging trends in HRM.

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UNIT -II

Investment perspectives of HRM: HR Planning – Demand and Supply forecasting – Job Analysis-Job Design-Job Evaluation. Recruitment and Selection- Sources of recruitment – e-recruitment. Steps in Selection Procedures- Tests and Interview Techniques - Induction- Training and Development – Need and Importance-Methods and of Training. Concept of HRD.

UNIT -III

Performance Appraisal: Importance – Methods – Traditional and Modern methods – Latest trends in performance appraisal - Career Development and Counseling- Compensation - Concepts and Principles- Influencing Factors- Current Trends in



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Compensation- Methods of Payments in detail - Incentives rewards compensation mechanisms.

UNIT -IV

Wage and Salary Administration: Concept- Wage Structure- Wage and Salary Policies- Legal Frame Work- Determinants of Payment of Wages- Wage Differentials - Incentive Payment Systems. Welfare management: Nature and concepts – statutory and non-statutory welfare measures.

UNIT-V

Managing Industrial Relations: Nature- Importance -Trade Unions - Employee Participation Schemes-Collective Bargaining – Grievances and disputes resolution mechanisms – Managing employee safety and health. Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References:

1. K Aswathappa: “Human Resource and Personnel Management”, Tata McGraw Hill, New Delhi, 2013.
2. N. Sambasiva Rao and Dr. Nirmal Kumar: “Human Resource Management and Industrial Relations”, Himalaya Publishing House, Mumbai.
3. Mathis, Jackson, Tripathy: “Human Resource Management: A south-Asian Perspective”, Cengage Learning, New Delhi, 2013.
4. Subba Rao P: “Personnel and Human Resource Management-Text and Cases”, Himalaya Publications, Mumbai, 2013.
5. Madhurima Lall, Sakina Qasim Zasidi: “Human Resource Management”, Excel Books, New Delhi,2010.



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I Year II Semester

OPERATIONS MANAGEMENT

Objectives:

This Course is designed to make student understand the strategic significance of Operation management, to acquaint them with application of discipline to deal with real life business problem.

UNIT I:

Introduction to Operation Management: Nature & Scope of Operation/ Production Management, Relationship with other functional areas, Recent trend in Operation Management, Manufacturing & Theory of Constraint, Types of Production System, Just in Time (JIT) & lean system.

UNIT II:

Product Design & Process Selection: Stages in Product Design process, Value Analysis, Facility location & Layout: Types, Characteristics, Advantages and Disadvantages, Work measurement, Job design.

UNIT III:

Forecasting & Capacity Planning: Methods of Forecasting, Overview of Operation Planning, Aggregate Production Planning, Production strategies, Capacity Requirement Planning, MRP, Scheduling, Supply Chain Management, Purchase Management, Inventory Management.

Unit- IV:

Productivity: Factors, Affecting Productivity – Job Design – Process Flow Charts – Methods Study – Work Measurement – Engineering and Behavioral Approaches.

UNIT V:

Quality Management: Quality- Definition, Dimension, Cost of Quality, Quality Circles- Continuous improvement (Kaizen), ISO (9000&14000 Series), Statistical Quality Control: Variable & Attribute, Process Control, Control Charts -Acceptance Sampling Operating Characteristic Curve (AQL , LTPD, Alpha & Beta risk), Total Quality Management (TQM).

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References:

1. Krajewski & Ritzman (2004). Operation Management -Strategy and Analysis. Prentice Hall of India.
2. Panner Selvem, Production and Operation Management, Prentice Hall of India.
3. Chunnawals, Production & Operation Management Himalaya, Mumbai
4. Charry, S.N (2005). Production and Operation Management- Concepts, Methods Strategy. John Willy & Sons Asia Pvt Limited.
5. K Aswathappa & Sridhar Bhatt, Production & Operations Management, Himalaya, Mumbai.



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MARKETING MANAGEMENT

Objectives:

The Course is designed for the students to understand the Marketing concepts and to identify, enrich and fulfill the needs of customers and markets.

UNIT -I

Introduction to Marketing: Needs - Wants – Demands - Products - Exchange - Transactions - Concept of Market and Marketing and Marketing Mix - Production Concept- Product Concept - Sales and Marketing Concept - Societal Marketing Concept - Green Marketing concept - Indian Marketing Environment.

UNIT -II

Market Segmentation, Targeting and Positioning: Identification of Market Segments - Consumer and Institutional/corporate Clientele - Segmenting Consumer Markets - Segmentation Basis – Evaluation and Selection of Target Markets – Positioning significance - Developing and Communicating a Positioning Strategy.

UNIT -III

Product and Pricing Aspects: Product – Product Mix - Product Life cycle -Obsolescence- Pricing- Objectives of Pricing - Methods of Pricing - Selecting the Final price - Adopting price - Initiating the price cuts - Imitating price Increases-Responding to Competitor's price changes.

UNIT -IV

Marketing Communication: Communication Process – Communication Mix – Integrated Marketing Communication - Managing Advertising Sales Promotion - Public relations and Direct Marketing - Sales force – Determining the Sales Force Size - Sales force Compensation.

UNIT V

Distribution, Marketing Organization and Control: Channels of Distribution-Intensive, Selective and Exclusive Distribution- Organizing the Marketing Department - Marketing Implementation - Control of Marketing Performance - Annual Plan Control - Profitability Control - Efficiency Control - Strategic Control.

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.



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References

1. Phillip Kotler: “**Marketing Management** “, Pearson Publishers, New Delhi, 2013.
2. Rajan Saxena: “**Marketing Management**”, Tata McGraw Hill, New Delhi, 2012.
3. V S Ramaswamy & S Namakumari, Marketing Management Global Perspective Indian Context 4th Edition, Mac Millan Publishers 2009.
4. Tapan K Panda: “**Marketing Management**”, Excel Books, New Delhi, 2012
5. Paul Baines, Chris Fill, Kelly Page Adapted by Sinha K: “**Marketing**”, Oxford University Press, Chennai, 2013



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RESEARCH METHODS FOR BUSINESS DECISIONS

Course Objective:

To develop understanding of the basic framework of research process. Developing the students in Research orientation and to acquaint them with fundamental of research methods

To identify various sources of information for literature review and data collection

To understand the data analysis and presentation

To understand various statistical tools and their applicability in research.

To enable them to write a research report and thesis.

Course Outcomes:

1 Understand advanced design, methodologies and analysis in business research methods, including key terms, classifications and systematic applications to the research data and design of a research project

2 Apply knowledge in collecting data from various sources.

3 Demonstrate knowledge in data analysis and interpretation.

4 Applying appropriate statistical techniques in the analysis of data

5 Demonstrate the abilities in preparing research reports.

UNIT- I

Introduction: Nature and Importance of Research, the role of Business Research, aims of social research, Types of Research- Pure research vs. Applied research, Qualitative research vs. Quantitative research, Exploratory research, Descriptive research and Experimental research, ethical issues in business Research-Defining Research Problem, Steps in Research process.

UNIT- II

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Data Base: Discussion on primary data and secondary data, tools and techniques of collecting data. Methods of collecting data. Sampling design and sampling procedures. Random vs. Non-random sampling techniques, determination of sample size and an appropriate sampling design. Designing of Questionnaire –Measurement and Scaling – Nominal Scale – Ordinal Scale – Interval Scale – Ratio Scale – Guttman Scale – Likert Scale – Schematic Differential Scale.

UNIT- III

Survey Research and data analysis: Selection of an appropriate survey research design, the nature of field work and Field work management. Media used to communicate with Respondents, Personal Interviews, Telephone interviews, Self-administered Questionnaires-



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Editing – Coding – Classification of Data – Tables and Graphic Presentation –Preparation and Presentation of Research Report.

UNIT- IV

Statistical Inference: Formulation of Hypothesis –Tests of Hypothesis - Introduction to Null hypothesis vs. alternative hypothesis, parametric vs. non-parametric tests, procedure for testing of hypothesis, tests of significance for small samples, application, t-test, Chi Square test.

UNIT- V

Multivariate Analysis: Nature of multivariate analysis, classifying multivariate techniques, analysis of dependence, analysis of interdependence. Bi-Variate analysis-tests of differences-t test for comparing two means and z-test for comparing two proportions and ANOVA for complex experimental designs.

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References

1. C.R. Kothari: Research Methodology, methods and Techniques New Age International Publisher.
2. Navdeep and Gupta : “**Statistical Techniques & Research Methodology**”, Kalyani Publishers
3. Willam G.Zikmund, Adhkari: “**Business Research Methods**”, Cengage Learning, New Delhi, 2013.
4. A.N. Sadhu, Amarjit singh, Research methodology in social sciences, 7th Edition Himalaya Publications.
5. A Bhujanga rao , Research methodology, Excel Books, 2008.



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BUSINESS ANALYTICS

Course Objectives:

- To understand the importance, difference and practices of analytics in business.
 - Understand business communication through data-driven information,
 - Apply knowledge and explain natural processes by relating them to a certain distribution of data
- To understand the data visualization tools, application and statistical methods.
- To learn the measure of variability in decision making
 - Evaluate and compare descriptive and predictive analytics with use case scenarios.

Unit- I

Introduction to Data Analytics: Introduction to Data analytics - Role of Data in Organization, Data lifecycle. (Data source, data changes, processes, usage) -Various Data Types - Significance of Analytics- Role of Data Analyst - Difference between Data analytics and Business Analytics – real-world data analytics examples.

Unit -II

Tools & Techniques: Typical Data Analysis Process - Data analytics techniques: Regression analysis, Factor analysis, Cohort analysis, Cluster analysis-Time-series analysis. Data analytics tools -Microsoft Excel, Tableau, SAS, RapidMiner, Power BI.

Unit -III Concepts of data cleaning - Data Visualization: Over view of Data visualization – Data Visualization tools, Statistical methods for summarizing data – How to create pivotal tables using excel - Exploring data using pivot table –Cross Tabulation _ Creating Charts: -1. Scatter charts, 2. Line charts, 3. Bar charts and column, 4. Pie Charts and 3-D charts, 4. Bubble charts, - Effective use of Dashboards, Power BI and Tableau.

Unit -IV Descriptive Analytics: Concept of Descriptive Analytics –Measures of central Tendency –Measuring and calculation of Arithmetic Mean, Mode, Median - Calculation of application of Weighted Arithmetic Mean, Geometric and Harmonic mean using MS Excel-Measures of Variability-Range, Variance, Standard Deviation, Coefficient of Variation using MS Excel

Unit -V Predictive Analytics: Karl Pearson Correlation Techniques - Spearman's Rank correlation -Simple and Multiple regression -Regression by the method of least squares – Building good regression models – Regression with categorical independent variables.

References:

1. R for Data Science: Import, Tidy, Transform, Visualize, and Model Data, Hadley Wickham & Garrett Golemund. O'REILLY.
2. Mohiuddin Ahmed, Al-Sakib Khan Pathan, Data Analytics: Concepts, Techniques, and Applications, Taylor & Francis Group, 2020
3. James Evans, Business Analytics, 2e, Pearson, 2017.



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4. Camm, Cochran, Fry, Ohlmann, Anderson, Sweeney, Williams Essential of Business Analytics, Cengage Learning, 2020.
5. Thomas Eri, Wajid Khattack & Paul Buhler: Big Data Fundamentals, Concepts, drVers and Techniques by Prentice Hall of India, New Delhi, 2015.
6. Akil Maheswari, Big Data, Upskill ahead by Tata McGraw Hill, New Delhi, 2016.



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CROSS CULTURAL MANAGEMENT

Objective:

The objective of this course is to enhance the ability of class members to interact effectively with people from cultures other than their own, specifically in the context of international business. The course is aimed at significantly improving the ability of practicing managers to be effective global managers.

Unit – I

Introduction – Concept of Culture for a Business Context; Brief wrap up of organizational culture & its dimensions; Cultural Background of business stakeholders [managers, employees, shareholders, suppliers, customers and others] – An Analytical framework.

Unit – II

Culture and Global Management – Global Business Scenario and Role of Culture. Framework for Analysis; Elements & Processes of Communication across Cultures; Communication Strategy for/ of an Indian MNC and Foreign MNC & High-Performance Winning Teams and Cultures; Culture Implications for Team Building.

Unit – III

Cross Culture – Negotiation & Decision Making – Process of Negotiation and Needed Skills & Knowledge Base – Overview with two illustrations from multicultural contexts [India – Europe/ India – US settings, for instance]; International and Global Business Operations-Strategy Formulation & Implementation; Aligning Strategy, Structure & Culture in an organizational Context.

Unit – IV

Global Human Resources Management – Staffing and Training for Global Operations – Expatriate – Developing a Global Management Cadre. Motivating and Leading; Developing the values and behaviours necessary to build high-performance organization personnel [individuals and teams included] – Retention strategies.

Unit – V

Corporate Culture – The Nature of Organizational Cultures Diagnosing the as is Condition; Designing the Strategy for a Culture Change Building; Successful Implementation of Culture Change Phase; Measurement of ongoing Improvement.

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References: 1. Cashby Franklin, Revitalize your corporate culture: PHI, Delhi

2. Deresky Helen, International Management: Managing Across Borders and Cultures, PHI, Delhi

3. Esenn Drlarry, Rchildress John, The Secret of a Winning Culture: PHI, Delhi



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PROJECT MANAGEMENT

Objective:

The objective of this course is to enable the students to gain basic knowledge about the concept of project, project management, project life-cycle, project appraisal; to acquaint the students about various issues of project management.

1. To know the concept and element of the project
2. To understand various stages in project life cycles.
3. The objective of this course is to enable the students to gain basic knowledge about the concept of project.
4. Project management, project life-cycle, project appraisal.
5. Acquaint the students about various issues of project management.

Outcomes:

1. Best practice for increase profit and cost advantage
- 2, Enhance ability to plan and implement and control the projects.
3. It's a technical tool for managing project completion
4. To provide investment strategies the project proposals.
5. Strength and relevant behavioural and leadership capabilities

Unit -I:

Basics of Project Management – Concept – Project environment – Types of Projects – Project life cycle – Project proposals – Monitoring project progress – Project appraisal and Project selection – Causes of delay in Project commissioning – Remedies to avoid overruns. Identification of Investment opportunities – Sources of new project ideas, preliminary screening of projects – Components for project feasibility studies.

Unit- II:

Market feasibility -Market survey – Categories of Market³⁸ survey – steps involved in conducting market survey – Demand forecasting techniques, sales projections., business environment for project management.

Unit- III:

Technical and Legal feasibility: Production technology, materials and inputs, plant capacity, site selection, plant layout, Managerial Feasibility Project organization and responsibilities. Legalities – Basic legal provisions. Development of Programme Evaluation & Review Technique (PERT) – Construction of PERT (Project duration and valuation, slack and critical activities, critical path interpretation) – Critical Path Method (CPM)



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Unit -IV:

Financial feasibility – Capital Expenditure – Criteria and Investment strategies – Capital Investment Appraisal Techniques (Non DCF and DCF) – Risk analysis – Cost and financial feasibility – Cost of project and means of financing — Estimation of cash flows – Estimation of Capital costs and operating costs; Revenue estimation – Income – Determinants – Forecasting income –Operational feasibility - Breakeven point – Economics of working.

Unit- V:

Project Implementation and Review: Forms of project organization – project planning – project control – human aspects of project management – prerequisites for successful project implementation – project review – performance evaluation – abandonment analysis.

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

References:

1. Prasanna Chandra, “Projects, Planning, Analysis, Selection, Financing, Implementation and Review”, Tata McGraw Hill Company Pvt. Ltd., New Delhi 1998.
2. Gido: Effective Project Management, 2e, Thomson, 2007.
3. Singh M.K, “Project Evaluation and Management”.
4. Vasanth Desai, Project Management, 4th edition, Himalaya Publications 2018.
5. Clifford F. Gray, Erik W. Larson, “Project Management, the Managerial Emphasis”, McGraw Hill, 2000.



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LEAN MANAGEMENT

Objective:

To understand issues and challenges in implementing and development in lean manufacturing techniques from TPS and its contribution for improving organizational performance.

Unit- I

Introduction: Mass production system, Craft Production, Origin of Lean production system , Why Lean production , Lean revolution in Toyota , Systems and systems thinking , Basic image of lean production , Customer focus , Waste Management.

UNIT- II

Just in Time: Why JIT, Basic Principles of JIT, JIT system, Kanban, Six Kanban rules, Expanded role of conveyance, Production levelling, Three types of Pull systems, Value stream mapping. JIDOKA, Development of Jidoka concept, Why Jidoka, Poka, Yoke systems, Inspection systems and zone control – Types and use of Poka-Yoke systems, Implementation of Jidoka

UNIT -III

Kaizen: Six – Sigma philosophy and Methodologies, QFD, FMEA Robust Design concepts; SPC, QC circles standardized work in lean system, Standards in the lean system, 5S system.

UNIT -IV

Total Productive Maintenance: Why Standardized work, Elements of standardized work, Charts to define standardized work, Kaizen and Standardized Work Common layouts.

UNIT- V

Hoshin Planning & Lean Culture: Involvement, Activities supporting involvement, Quality circle activity, Kaizen training, Key factors of PKT success, Hoshin Planning System, Four Phases of Hoshin Planning, Why Lean culture – How lean culture feels.

References

1. Jeffrey Liker, The Toyota Way: Fourteen Management Principles from the World's Greatest Manufacturer, McGraw Hill, 2004.
2. Debashish Sarkar, Lessons in Lean Management,
3. Dale H., Besterfield , Carol, Besterfield, etal, Total Quality Management (TQM) 5e by Pearson 2018.



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DATA BASE MANAGEMENT SYSTEM

Objective:

The course is to present an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve - efficiently, and effectively - information from a DBMS.

UNIT- I

Introduction to Database Systems: Data - Database Applications - Evolution of Database - Need for Database Management – Data models - Database Architecture - Key Issues and Challenges in Database Systems.

UNIT- II

ER and Relational Models: ER Models – ER to Relational Mapping –Object Relational Mapping - Relational Model Constraints - Keys - Dependencies - Relational Algebra - Normalization - First, Second, Third & Fourth Normal Forms - BCNF – Join Dependencies.

UNIT- III

Data Definition and Querying: Basic DDL - Introduction to SQL - Data Constraints - Advanced SQL - Views - Triggers - Database Security – Embedded & Dynamic SQL.

UNIT- IV

Transactions and Concurrency: Introduction to Transactions - Transaction Systems - ACID Properties - System & Media Recovery - Need for Concurrency - Locking Protocols – SQL for Concurrency – Log Based Recovery - Two Phase Commit Protocol - Recovery with SQL-Deadlocks & Managing Deadlocks.

UNIT- V

Advanced Topics in Databases: Indexing & Hashing Techniques - Query Processing & Optimization - Sorting & Joins – Database Tuning - Introduction to Special Topics - Spatial & Temporal Databases – Data Mining and Warehousing.

Relevant cases have to be discussed in each unit and in examination case is compulsory from any unit.

REFERENCES:

1. Abraham Silberschatz, Henry F. Korth, S. Sudharshan, —Database System Concepts, Sixth Edition, Tata McGraw Hill, 2010.
2. Ramez Elmasri, Shamkant B. Navathe, —Fundamentals of Database Systems, Sixth Edition, Pearson/Addison - Wesley, 2010.
3. C.J. Date, A. Kannan and S. Swamynathan, —An Introduction to Database Systems, Pearson Education, Eighth Edition, 2006.
4. Raghu Ramakrishnan, —Database Management Systems, Fourth Edition, McGraw Hill, 2015.



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R-PROGRAMMING LAB

OBJECTIVE:

After taking the course, students will be able to

- Use R for statistical programming, computation, graphics, and modeling,
- Write functions and use R in an efficient way,
- Fit some basic types of statistical models
- Use R in their own research,
- Be able to expand their knowledge of R on their own.

OUTCOMES:

At the end of this course, students will be able to:

- List motivation for learning a programming language
- Access online resources for R and import new function packages into the R workspace
- Import, review, manipulate and summarize data-sets in R
- Explore data-sets to create testable hypotheses and identify appropriate statistical tests
- Perform appropriate statistical tests using R Create and edit visualizations with

SYLLABUS:

UNIT-I:

All the theory content here below shall be executed with examples.

Introduction, how to run R, R Sessions and Functions, Basic Math, Variables, Data Types, Vectors, Conclusion, Advanced Data Structures, Data Frames, Lists, Matrices, Arrays, Classes.

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UNIT-II:

All the theory content here below shall be executed with examples.

R Programming Structures, Control Statements, Loops, - Looping Over Non vector Sets, - If-Else, Arithmetic and Boolean Operators and values, Default Values for Argument, Return Values, Deciding Whether to explicitly call return- Returning Complex Objects, Functions are Objective, No Pointers in R, Recursion, A Quicksort Implementation-Extended Extended Example: A Binary Search Tree.

UNIT-III:

All the theory content here below shall be executed with examples.

Doing Math and Simulation in R, Math Function, Extended Example Calculating Probability-Cumulative Sums and Products-Minima and Maxima- Calculus, Functions Fir Statistical Distribution, Sorting, Linear Algebra Operation on Vectors and Matrices, Extended Example:



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Vector cross Product- Extended Example: Finding Stationary Distribution of Markov Chains, Set Operation, Input /output, Accessing the Keyboard and Monitor, Reading and writer Files,

UNIT-IV:

All the theory content here below shall be executed with examples.

Graphics, Creating Graphs, The Workhorse of R Base Graphics, the plot () Function – Customizing Graphs, Saving Graphs to Files.

UNIT-V:

All the theory content here below shall be executed with examples.

Probability Distributions, Normal Distribution- Binomial Distribution- Poisson Distributions Other Distribution, Basic Statistics, Correlation and Covariance, T-Tests, -ANOVA.

REFERENCE BOOKS:

- 1) The Art of R Programming, Norman Matloff, Cengage Learning
- 2) R for Everyone, Lander, Pearson
- 3) R Cookbook, Paul Teetor, Oreilly
- 4) R Programming By Dr.T. Murali Mohan, S.Chand Publications.
- 5) Garrett Golemund, Hands on Programming with R, Oreilly



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IT LAB (SPREAD SHEETS AND SQL)

UNIT- I

Introduction to Information Technology, Classification of Software - Basics of MS Word and Basics of MS PowerPoint.

UNIT –II

The MS Excel interface, Formatting Cells, Data Entry- Inserting, Deleting, Selecting, Copying, Cutting, and Pasting. Methods of applying Formulas. Basic calculations.

UNIT- III

Conditional Formatting, Cell References & addressing, Conditional functions, IF functions, - Look up functions, Sorting & Filtering Data.

UNIT- IV

Demonstrating Statistical Functions and Financial functions in excel,
Different types of Charts preparation and representation.

UNIT- V

Introduction to SQL – SQL commands, Data types, Creating Tables. SQL constraints.
Functional queries.

Reference:

- 1) Excel: Quick Start Guide from Beginner to Expert (Excel, Microsoft Office)-
by William Fischer
- 2) Peeking into computer science- Excel Lab Manual- Jalal Kawash
- 3) SQL Tutorial (w3schools.com)



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ENTREPRENEUR PROJECT