


1.3.4.

INTERNSHIP

S. No	Roll No.	Name of the student	Name of the Company	From Date	To Date	Duration
1	22K95A0201	A NAGASRI	CORIZO	2024-05-04	2024-05-05	1 month
2	22K95A0202	A CHANDRAVAM	CORIZO	2024-05-05	2024-05-06	1 month
3	22K95A0203	A SRIKAR	Olive drones	19/5/2024	1/6/2024	2 weeks
4	22K95A0204	A YASHWANTH	Olive drones	19/5/2024	1/6/2024	2 weeks
5	22K95A0205	A NANDA	YOUNITY	2024-10-05	2024-11-06	1 month
6	22K95A0206	A MONAJAH	Olive drones	19/5/2024	1/6/2024	2 weeks
7	22K95A0207	B NIKSHITH RAO	Olive drones	19/5/2024	1/6/2024	2 weeks
8	22K95A0208	B HARSHAVARD	Olive drones	19/5/2024	1/6/2024	2 weeks
9	22K95A0209	B SANJAY	Olive drones	19/5/2024	1/6/2024	2 weeks
10	22K95A0210	B SRINIVAS	Olive drones	19/5/2024	1/6/2024	2 weeks
11	21K91A0215	G RAMBABU	Olive drones	19/5/2024	1/6/2024	2 weeks
12	21K91A0216	G RENUKA	Olive drones	19/5/2024	1/6/2024	2 weeks
13	21K91A0213	G SHIRISHA	Olive drones	19/5/2024	1/6/2024	2 weeks
14	21K91A0231	M ABHINAYA	Olive drones	19/5/2024	1/6/2024	2 weeks
15	21K91A0241	P DEVENDAR	Olive drones	19/5/2024	1/6/2024	2 weeks
16	21K91A0243	S AJAY	Olive drones	19/5/2024	1/6/2024	2 weeks
17	21K91A0244	S RAVALI	Olive drones	19/5/2024	1/6/2024	2 weeks
18	21K91A0201	A HARSHA	Olive drones	19/5/2024	1/6/2024	2 weeks
19	21K91A0202	A ASISH KUMAR	Olive drones	19/5/2024	1/6/2024	2 weeks
20	21K91A0203	B THARUN	Olive drones	19/5/2024	1/6/2024	2 weeks


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1.3.4 Details of students undertaking field work/projects/ internships / student projects

Programme Name	Programme Code	List of students undertaking field projects / internships	Link to the relevant document		
B.TECH	2				
		EEE - A	MAJOR PROJECTS		
S.NO	BATCH NO.	HALLTICKET NUMBER	NAME OF THE STUDENT	PROJECT TITLE	NAME OF THE INTERNAL GUIDE
1	1	21K95A0210	CHANDUPATLA SPOORTHI	Advanced Control Strategies For Interconnected Power Systems An Emphasis On Load Frequency Control By Using The Applications of Artificial Intelligence	Dr.K. RAJU
2		20K91A0220	GOLLA LOKESH		
3		20K91A0215	DHEERAVATH SAI KUMAR		
4		20K91A0240	MEKHALA BHARATH KUMAR		
5		20K91A0224	JAKKA CHANDRA SHEKAR		
6	2	21K95A0202	AMBULA BHAVIGNA	Electric Vehicle On-Board Fast Charging Through Converter Maximum Switch Utilization	Dr.S. NARSIMHA
7		20K91A0203	ALAWAT RAJESH		
8		20K91A0218	GADDAM LAXMAN		
9		20K91A0231	KONDA RAGHAVENDER		
10		20K91A0205	BALAGA DILEEP		
11	3	21K95A0209	CHINNOLLA SHIVA SAGAR	Improved Control Method For Hybrid Reactive Power Compensation System Based On FC And STATCOM	Dr.MD QUTUBUDDIN
12		21K95A0222	JANAMPETA NIKHIL		
13		20K91A0209	BHUKYA RAJU		
14		21K95A0214	ELLABELLI ARAVIND		
15		20K91A0208	BHUKYA NAGARAJU		
16	4	21K95A0223	JELLA CHANDU	Multi Charging Options Of Electrical Vehicle Solar PV-Battery, Grid Connected And Diesel Generator Based Electrical Vehicle Charging Station.	V SANGEETA SARALI
17		20K91A0217	DONGALA RAKESH		
18		20K91A0211	CHEEKURI CHANDANA		
19		20K91A0216	DOKUPARTHY VENKAT NAVNEETH GUPTHA		

20	5	21K95A0205	BURUGU GOUTHAM	A Smart And Flexible Micro grid With A Low Cost Scalable Open Source Controller	M. CHINNA LAL
21		20K91A0213	D HARSHITHA		
22		20K91A0212	CHEPURI SRIKANTH		
23		21K95A0215	HANOCH RAJ KUMAR EARPULA		
24	6	20K91A0232	KONDOJU VINEETH	Fuzzy Logic-Based Control Of Nine-Level Inverter For Solar Applications	DURGA NAIK BANAVATH
25		21K95A0212	DASARI VASANTH KUMAR		
26		20K91A0221	GUNDLAPALLI THIRUPATHI RAO		
27		21K95A0204	ATTILI SURAJ		
28	7	21K95A0213	DYAVALA SUCHITH	Power Quality Improvement Using Dynamic Voltage Restorer	S. MANOHAR REDDY
29		20K91A0219	GADE SOWMYA		
30		21K95A0218	GANDAM DHEERAJ		
31		21K95A0207	BHUPATHI THARUN		
32	8	20K91A0202	AKARAPU MANIDHEEP	Speed Control Of BLDC Motor Using PID And Fuzzy Pid Controller	M. DEVADARSHANAM
33		21K95A0226	KASAVARAM SHEKAR RAO		
34		20K91A0204	ALETI SHIVA REDDY		
35		20K91A0206	BALUSULA VENU		
36	9	21K95A0201	ALLAPURAM ARCHANA	Quasi-Z Source Boost De-Dc Converter With High Voltage Gain With Super Capacitor And Fuel Cell-Fed Vehicles	SATTAR PASHA SHAIK
37		20K91A0226	JAKKULA SAI KUMAR		
38		21K95A0203	ANJILAPURAM SAI KUMAR		
39		20K91A0233	KUNSOTHU SHARATH		
40	10	21K95A0208	BACHALAKURA JASHWINI BINDHU	Smart Trolley With Automatic Billing System	Dr.K.PRASADA RAO
41		21K95A0206	BEMARA SAI KIRAN GOUD		
42		21K95A0217	GOUTE PAVAN KUMAR		
43		21K95A0216	GEGRAM NIKHIL		

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44	11	20K91A0236	MADASU RAKESH	PV -STATCOM A New Smart Inverter For Voltage Control In Distribution Systems	P.VEERA RAGHVA
45		20K91A0237	MALLACHALAM DEVI TANISHKA		
46		21K95A0225	KANCHARLA PRASHANTH REDDY		
47		21K95A0211	DOLY GOUTHAM		
48	12	20K91A0223	JADA SHASHI KUMAR	Implementation Of Sepic Converter For Solar Powered Induction Motor	G.JAGADESWAR REDDY
49		20K91A0229	KOMAKULA RAVI CHAND		
50		20K91A0228	KADARI SHEKHAR		
51		21K95A0219	JAKKULA MOHANA KRISHNA SAI		
52	13	20K91A0214	DHANUKONDA KIRAN TEJA	Enhancing Load-Frequency Control In Hydro-Thermal Power Systems With Wind Farm Integration Using Fuzzy- Pid Control Via	A. ANJALIAH
53		21K95A0220	JULURI SAI DEEKSHITH		
54		20K91A0235	MACHERLA AKHILA		
55		20K91A0234	M JAYANTH RAJ		
56	14	20K91A0227	K NARENDRA	Utilizing Modified Direct Torque Control And Adaptive Control Theory For Regenerative Braking In Electric Vehicles	D.SHIVAJI
57		21K95A0224	JORIGALA SRIWIN		
58		20K91A0230	KOMMU ARJUN KUMAR		
59		21K95A0221	JANAMPETA SAI KIRAN		

EEE - B		MAJOR PROJECTS			
S.NO	BATCH NO.	HALLTICKET NUMBER	NAME OF THE STUDENT	PROJECT TITLE	NAME OF THE INTERNAL GUIDE
1	1	21K95A0248	PEBBETI SAIRAM	RELIABILITY ASSESSMENT OF RADIAL DISTRIBUTION SYSTEM WITH ANN USING PYTHON	Dr.K. RAJU
2		21K95A0259	VALLAPU SURESH		
3		20K91A0259	SAI SUKEERTH ANNADATA		
4		21K95A0246	POTHU SHAILESH		
5		20K91A0267	THADAKA SAI PRANEETH GOUD		
6	2	21K95A0230	KOMMETA VEENA	ENERGY MANAGEMENT SYSTEM FOR HYBRID RENEWABLE ENERGY BASED ELECTRIC VEHICLE CHARGING STATION	Dr.S. NARSIMHA
7		20K91A0260	SAI TEJA GOUD SAMA		
8		21K95A0229	KETHAVATH OMKAR		
9		20K91A0269	THOTA PREM KUMAR		

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10	3	21K95A0243	PUDARI RAJENDHAR	DESIGN AND IMPLEMENTATION OF SOLAR- WIND BASED RENEWABLE ENERGY SYSTEM	Dr.MD QUTUBUDDIN
11		21K95A0236	MADISHETTY ABHISHEK		
12		20K91A0246	MUNAVATH THARUN		
13		20K91A0256	PUDARI ANJALI		
14	4	21K95A0250	SUGURU KALYANI	RENEWABLE ENERGY WITH GRID CONNECTED FOR ENERGY MANAGEMENT STRATEGY AND SIMULATION	V SANGEETA SARALI
15		21K95A0233	MYADAPU BHANU PRAKASH		
16		20K91A0244	MOTAPALLUKULA TEJASHWINI		
17		21K95A0260	YANDRA ESHWAR MANIKANTA		
18	5	21K95A0231	KOPPLA MALLIKARJUN	EFFICIENT DESIGN AND EVALUATION OF LARGESCALE SOLAR PV FARMS WITH DC BATTERY SYSTEMS	M. CHINNA LAL
19		21K95A0245	PASUPULA SAI REVANTH		
20		20K91A0272	MALAVATH SACHIN NAYAK		
21		21K95A0257	VASLIMALLA NITHYA SHARAN		
22	6	21K95A0247	PAKA SHIVA PRASAD	DESIGN OF ACTIVE FAULT TOLERANT CONTROL SYSTEM FOR MULTILEVEL INVERTERS TO ACHIEVE GREATER RELIABILITY WITH IMPROVED POWER QUALITY	DURGA NAIK BANAVATH
23		21K95A0241	PIRANGI PAVAN KALYAN		
24		21K95A0256	VOLISETTY ABHILASH		
25		20K91A0258	ROHITH YADAV		
26	7	21K95A0235	MOGILIGIDDA SINDHUJA	INTEGRATION OF GRID WITH HYBRID POWER SYSTEM FOR DISTRIBUTION NETWORK	S. MANOHAR REDDY
27		21K95A0228	KETENAPALLI SUSHMITHA		
28		21K95A0244	POOJARI RAKESH		
29		20K91A0270	UBBANI BHARATH		
30	8	21K95A0240	PUNNA CHAITANYA KUMAR	IDEAL SCHEMING OF LFC LOOP OF HYDRO THERMAL SYSTEM CONNECTED TO WIND FARM BY USING FUZZY-PID CONTROLLER THROUGH HVDC LINES	A. ANJALIAH
31		20K91A0247	MUSKU SAI DEEPAK REDDY		
32		20K91A0248	NAKKA THARUN		
33		21K95A0242	PEGADAPELLI PRUDVI RAJ		
34	9	21K95A0227	KOPPU SIDDHARATHA ROY	VOLTAGE SAG ENHANCEMENT OF GRID CONNECTED HYBRIDE PV- WIND POWER SYSTEM USING BATTERY AND SMES BASED FUZZY CONTROLLED DYNAMIC VOLTAGE RESTORER	K HEMANTH KUMAR
35		20K91A0250	NIMMALABOINA CHARAN		
36		20K91A0261	SAMA GOWTHAM REDDY		
37		21K95A0253	SAGE SUHAS VARDHAN		
38	10	21K95A0255	THOORUGONDA VIJAY KUMAR	POWERFLOW REGULATION FOR INTEGRATION OF ELECTRIC VEHICLES TO PV BASED MICRO GRID USING FUZZY CONTROLLER.	P.VEERARAGHAVA REDDY
39		21K95A0234	MUDAPAKA CHANDRA SHEKAR SAI KUMAR		
40		21K95A0251	S KAVYA SRI		
41		21K95A0254	SHAIK ABEEB		

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42	11	21K95A0249	S GOUTAM	SPEED REGULATION FOR A BLDC MOTOR EMPLOYING A ZETA CONVERTER	A. ANJIAH
43		20K91A0253	PALTHYA GANESH		
44		20K91A0257	RATLAVATH NAVEEN KUMAR		
45		20K91A0264	SAPAVAT THILAK TEJA		
46	12	20K91A0266	TEJAVATH HITESH TEJA	DESIGN AND IMPLEMENTATION OF SPEED CONTROL OF DC MOTOR USING WITHOUT CONTROLLER & WITH PI CONTROLLER MPC CONTROLLER	A. ANJIAH
47		20K91A0252	PADALA GIRI PRANAY		
48		20K91A0254	PERURI ANUSHA		
49		20K91A0251	NIRBHAY KUMAR		
50	13	20K91A0255	POLISSETTY PALLAVI	WIRELESS ELECTRIC VEHICLE BATTERY CHARGING SYSTEM USING PV ARRAY	A. VENKATESH
51		21K95A0256	VENULA SANKET GOUD		
52		20K91A0262	SAMA SAINATH REDDY		
53		20K91A0268	THOKALA SAI VARDHAN REDDY		
54	14	21K95A0237	MARUPAKA SAI RAM	DESIGN AND IMPLEMENTATION OF EFFICIENT MULTIOUTPUT DC-DC CONVERTER FOR EV'S APPLICATION	N.KANCHANA
55		20K91A0249	NARIGE AJENDER		
56		21K95A0239	NAKIREKANTI VAMSHI KRISHNA		
57		20K91A0242	MODALA KOTESHWAR RAO		
58	15	21K95A0232	KUNTOLLA ARUN KUMAR	LOAD FREQUENCY CONTROL OF A TWO-AREA POWER SYSTEM WITH A STAND-ALONE MICROGRID BASED ON ADAPTIVE MODEL PREDICTIVE CONTROL	A.MAMATHA
59		21K95A0238	N SHARAT CHANDRA		
60		20K91A0263	SANDAKURI SHIVA KUMAR		
61		20K91A0271	YALAMADDI NAVEEN		


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B. TECH. ECE (2023-24)

BATCH NO.	ROLL NO	NAME OF THE STUDENT	TITLE	INTERNAL GUIDE
1	20K91A0401	ADITYA VARANASI	A VARIANT OF LONG MULTIPLICATION DESIGN WITH LOW POWER AND AREA USING MODIFIED 7: 3 COMPRESSOR FOR BIOMEDICAL APPLICATIONS	Dr. B. SWAPNA RANI
	20K91A0413	BADDAM RAJA SHEKAR		
	21K95A0406	B.A.V.NEERAJ		
2	20K91A0408	ARAKALA PAVANI	A FAST IMAGE DEHAZING ALGORITHM USING MORPHOLOGICAL RECONSTRUCTION	Dr. K. PADMAJA DEVI
	20K91A0423	BEERAM SAI VIGNESHWAR		
	20K91A0429	BOINAPALLY PRATHYUSHA		
	20K91A0450	GANGARAPU RAKESH		
3	20K91A0415	BALINA NEHA	WEED IDENTIFICATION USING DEEP LEARNING AND IMAGE PROCESSING	Dr. K. PADMAJA DEVI
	20K91A0421	BATTA SRIKANTH		
	20K91A0431	CH.GOPA RAJU		
	20K91A0445	ETNENI SRIKANTH		
4	20K91A0417	BANALA VYSHNAVI	EFFICIENT IMPLEMENTATION OF AES ALGORITHM	Dr. B. SWAPNA RANI
	20K91A0426	BHEEMIREDDY MANOHAR		
	20K91A0427	BODA PAVAN KALYAN		
	20K91A0444	ESLAVATH SAGAR		

5	20K91A0409	ARE RAHUL	SMART RENEWABLE ENERGY ROADS WITH WIRELESS ELECTRICITY BASED CHARGING SYSTEM FOR EV VEHICLES USING IOT	Mr. G. V. SUBBA RAO
	20K91A0410	B.SAMVRUTH BHARADWAJ		
	20K91A0411	B.UDAY KUMAR		
6	20K91A0416	BALLARI BHAVANA	SEGREGATION OF GARBAGE DUSTBIN MANAGEMENT SYSTEM USING IOT	Dr. K. PADMAJA DEVI
	20K91A0418	BANDARU ANVESH		
	20K91A0428	BODUPALLY BHARGAVI		
7	20K91A0422	BAYYAPU SAI PAVAN	A HYBRID APPROACH TO CHARGE MOBILE PHONE BY SOUND ENERGY	Mr. P. MANGA RAO
	20K91A0436	DENDI TEJASWINI		
	20K91A0437	DHARAM MANIKANTA		
8	20K91A0414	BAIRU RAMU	AUTOMATIC DROWSINESS DETECTION AND ALERTING SYSTEM FOR IT EMPLOYEES	Dr. B. SWAPNA RANI
	20K91A0442	DWIBHASHYAM VIVEK		
	21K95A0405	AMARAVADI SHIVA SHANKAR		
9	20K91A0438	DONEPATI MEGHANA	DEFECT DETECTION OF TOMATO FRUIT USING IMAGE DATASET	Mr. M. SATYANARAYANA
	20K91A0439	DORNALA SIRISHA		
	20K91A0440	DUGGE AJITH KUMAR		
10	20K91A0446	GADDAM DILEEP KUMAR	AUTOMATIC IRRIGATION SYSTEM USING WIRELESS SENSOR AND GPRS MODULE	Mrs. S. SWATHI
	20K91A0449	GAJJELA UTTAMPAVAN KUMAR		
	21K95A0409	UPPULA SAIKUMAR		
11	21K95A0402	AKAPALLY AKSHAY REDDY	EMPLOYING BLOCKCHAIN IN AGRICULTURE	Dr. K. PADMAJA DEVI
	21K95A0403	ADAS RAVI TEJA		
	21K95A0407	BOLLU AKHIL YADAV		
12	20K91A0402	AENNAM KEERTHI	FPGA IMPLEMENTATION OF IMAGE ENHANCEMENT USING VERILOG HDL	Mr. A. THEJA
	20K91A0403	AKULA NIKITHA		
	20K91A0404	ALLAM NIKHIL		
	20K91A0407	ANDOL PAVAN KUMAR		

13	20K91A0447	GADDAM MAMATHA	DESIGN AND ANALYSIS OF APPROXIMATE COMPRESSORS FOR MULTIPLICATION	Dr. B. SWAPNA RANI
	20K91A0448	GADUDAS SANDEEP		
	21K95A0404	AYITHA SANJAY GUPTA		
14	20K91A0406	AMBATI SURYA VAMSHI	EFFECTIVE FOREST FIRE DETECTION SYSTEM USING VISUAL IMAGES AND UNMANNED AERIAL VEHICLE.	Mr. A. THEJA
	20K91A0419	BANOTH SRAVANTHI		
	20K91A0424	BEGARI NAGABHUSHANAM		
15	20K91A0434	CHIMMANI VENU MADHAV	SMART PATIENT HEALTH MONITORING SYSTEM USING IOT	Mrs. B. SWAPNA
	20K91A0432	CH.SAI TEJA		
	20K91A0435	DAYYALA MAHESH		
16	20K91A0420	BANOTHU SOWJANYA	SOLDIER HEALTH MONITORING AND POSITION TRACKING SYSTEM USING IOT	Mrs. R. N. S. KALPANA
	20K91A0441	DURGAPU ADITHYA		
	21K95A0410	BOINI ANILKUMAR		
17	20K91A0412	BADVATH SHASHI KUMAR	LOW POWER IOT BASED AUTOMATED MANHOLE COVER MONITORING SYSTEM AS A SMART CITY APPLICATION.	Mr. E. PRABHAKAR
	20K91A0425	BENDU VEERABABU		
	20K91A0433	CHAPPALA RATNA KUMARI		
	21K95A0408	BUSIREDDY BHAVANA		
18	20K91A0482	KARNATI KEERTHI	LOW POWER 3- BIT ENCODER DESIGN USING MEMRISTOR	Dr. J. SUNITHA KUMARI
	20K91A0458	GULAGATTU HARISH		
	21K95A0421	G INDUPRIYA		
19	20K91A0498	KUNTLA PRANATI REDDY	DESIGN AND ANALYSIS OF VARIABLE N-T SRAM CELLS USING 22NM TECHNOLOGY	Dr. K. SUKANYA
	20K91A0451	GARDAS MALLIKARJUN		
	20K91A0488	KHAJA NOOR UDDIN CHISHTY		
20	20K91A0497	KOTTE ANIL KUMAR	DETECTION OF EARTH QUAKE IN FOREST USING IOT	Dr. J. SUNITHA KUMARI
	20K91A0452	GATTU SAHITH REDDY		
	21K95A0422	G NITHISH GOUD		

21	20K91A0489	KODI SATHWIKA	EARLY PEST DETECTION FROM CROP USING IMAGE PROCESSING AND COMPUTATIONAL INTELLIGENCE	Dr. K. SUKANYA
	20K91A0483	KASTHURA MANOJ		
	20K91A0487	KETHAVATH RAVI TEJA		
22	20K91A0460	HANCHATE DIVYA	SAFETY SYSTEM FOR ELDERLY PEOPLE :AN APPLICATION OF SMART HOME	Mr. A. VIKAS
	20K91A0476	K SHRAVAN KUMAR CHARY		
	20K91A0463	IRUMALLA HARSHITH		
23	20K91A0493	KOPPULA DIVYA REDDY	VERIFICATION AND SIMULATION OF UART SERIAL COMMUNICATION MODULE BASED ON VERILOG	Mrs. K. SUDHA RANI
	20K91A0496	KOTAPATI VISHNU PRIYA		
	21K95A0411	BUGGARIGANI NITHIN		
24	20K91A0490	KOLLA ROHINI	DEVELOPMENT OF MANHOLE COVER DETECTION AND CONTINUOUS MONITORING OF HAZARDOUS GASES USING WNS AND IOT	Mr. A. VIKAS
	20K91A0459	GURRAM SHASHI VARDHAN		
	20K91A0479	KALAKOTA AADITHYA		
25	20K91A0469	JELLA LAKSHMI PRASANNA	AN EFFICIENT FRUIT IDENTIFICATION AND RIPENING DETECTION USING CNN ALGORITHM	Mr. M.GNANESH GOUD
	21K95A0425	K NAVEEN		
	20K91A0495	KOTAPATI HARI PRIYA		
26	21K95A0415	D JAYANTH	VISION BASED PARKING OCCUPATION DETECTION USING EMBEDDED SYSTEM	Mr. S. BALAKRISHNA
	20K91A0491	KOLLURI SHIVA RAMA KRISHNA		
	21K95A0419	E CHANDANA		
27	20K91A0470	JERRIPOTHULA VAISHNAVI	ARDUINO-ANDROID BASED SMART FARMING AID	Mrs. B. SWAPNA
	20K91A0466	JAKKALI UPENDAR		
	20K91A0485	KETHAVATH ARJUN		
28	20K91A0465	JAJULA NAGAJYOTHI	CABLE FAULT DETECTION AND MONITORING USING IOT WITH BLYNK APP	Mrs. S. SAI SREE ANDAL
	20K91A0464	JADA RAJU		
	20K91A0477	KACHIRAJU BHANU SAI KISHORE		

29	21K95A0414	CHILIVERI LATHA	EMAIL SPAM DETECTION USING MACHINE LEARNING	Mrs. K. SHALINI
	20K91A0456	GORINKALA SHYAM SUNDAR		
	21K95A0424	K KEERTHI		
30	20K91A0453	GOBBOORI HAIMAVATHI	SMART ASSIST AND NAVIGATING AID FOR VISUALLY IMPAIRED	Mrs. A. LAVANYA
	20K91A0457	GUDIBOINA BHARGAV SAI		
	20K91A0471	JETTY SIDDHARTHA		
31	20K91A0474	JUNTHULA AKSHITHA	VIDEO ANALYSIS FOR WEAPON DETECTION AND ALERTING	Mrs. K. SANTHOSHI
	20K91A0462	HIREMATH GANESH		
	20K91A0480	KALLEM MEGHANA		
32	20K91A0468	JARAPALA SHIVAMANI	SMART HELMET AND ACCIDENT IDENTIFICATION SYSTEM USING IOT	Mrs. S. ANUSHA REDDY
	20K91A0454	GODASU SAITEJA		
	21K95A0416	D SHASHI KANTH		
33	20K91A0499	KUPPIREDDY RISHIKA	DESIGN OF DRAM SENSE AMPLIFIER USING 22NM TECHNOLOGY	Mrs. J. SRAVANTHI
	21K95A0412	CHALLAGURUGULA RAVI VARMA		
	20K91A0461	HEMA LATHA POTLAPALLI		
34	20K91A0473	JONNALAGADDA PRATHIBHA	SMART MIRROR FOR REAL-TIME APPLICATIONS USING RASPBERRY PI	Mr. G. V. SUBBA RAO
	21K95A0426	K PRASHANTH		
	21K95A0417	D SRISHANTH REDDY		
35	21K95A0420	ERUKALA MANISH GOUD	ATM THEFT DETECTION,INTIMATION AND AUTO-ARRESTING TECHNOLOGY	Mrs. S. SWATHI
	20K91A0455	GODUGU NIKHIL		
	20K91A0467	JALLI VENU KUMAR		
36	21K95A0413	CHATLA PRATHYUSHA	MULTI-FUNCTIONAL BLIND STICK USING IOT	Mrs. P. MANGA RAO
	21K95A0418	DOUPATI PRIYANKA		
	20K91A0478	KADARI VIVEK SAGAR		
	21K95A0423	K AJAY KUMAR		

37	20K91A04B1	M. UDAY KUMAR	METRO AUTOMATIC TICKETING SYSTEM USING VERILOG HDL	Dr. P. GAYATHRI
	20K91A04B2	M. HARIDEEP		
	20K91A04D0	N. PRASHANTH		
38	20K91A04C1	N. RAJESHWARI	IMPLEMENTATION OF KOGGE-STONE ADDER IN THREE OPERAND BINARY ADDER	Dr. P. GAYATHRI
	20K91A04C2	N. VAMSHI		
	20K91A04E3	P. ABHINAY SAGAR		
39	20K91A04A3	M. NIKITHA REDDY	IOT BASED SMART FLOOD FORECASTING AND WARNING SYSTEM	Dr. P. VENKATA LAVANYA
	20K91A04D3	P PRASANTH KUMAR REDDY		
	20K91A04A4	M. VINAY KUMAR REDDY		
40	20K91A04A7	M. RISHITHA REDDY	CHILD RESCUE ALARM SYSTEM FOR THE PREVENTION OF CHILD DROWNING	Dr. P. VENKATA LAVANYA
	20K91A04D1	N. SAHASRA		
	20K91A04A9	M. SHIVA BHARATH		
	20K91A04D9	P.PRAVALLIKA		
41	20K91A04E0	P. HARI	IOT BASED SMART SHOPPING CART USING RFID	Dr. P. VENKATA LAVANYA
	20K91A04E1	P. VINAY KUMAR		
	20K91A04E2	P. PARVEEN BEGUM		
42	20K91A04B3	M. BHARADWAJ	SMART CAMPUS-A DIGITAL TRANSFORMATION USING IOT	Mrs. CH. DIVYA
	20K91A04D7	P. NIKHIL KUMAR		
	20K91A04E6	P. SRIJA		
43	21K95A0430	L. ARUN KUMAR	SECURING JOURNEYS: ROAD SAFETY SOLUTIONS FOR PASSENGER CARS	Mrs. CH. DIVYA
	21K95A0431	M. NITHIN RAO		
	21K95A0432	M. PAVANI		
44	21K95A0434	M. SUSHEEL KUMAR REDDY	CROP SAFE GUARDING SYSTEM	Mrs. CH. DIVYA
	21K95A0437	M. CHANDRA SHEKAR		
	21K95A0440	M. PRASHANTH		

45	21K95A0427	K. PREETHI REDDY	DISEASE PREDICTION AND PRESCRIPTION USING MACHINE LEARNING	Mrs. K. SUDHA RANI
	21K95A0436	M. ANIL NAYAK		
	21K95A0439	M. SANJAY KUMAR		
46	20K91A04B4	M. SIDDARTHA	DESIGN OF TURBO ENCODER FOR IN-VEHICLE SYSTEM	Mrs. G. ANITHA CHOWDARY
	20K 91A04C0	M. SAI JAGADEESH		
	20K 91A04C5	N. NIVAS		
47	20K91A04B7	M. SUMANTH	HOME SWITCHING AUTOMATION USING IOT SYSTEM VIA TELEGRAM APP	Mrs. M. INDIRA
	20K91A04B8	M. RAHUL		
	20K91A04B9	M. SRAVAN KUMAR		
48	20K91A04B5	M. ABDUL AZEEM	PUBLIC WATER SUPPLY GRID MONITOR USING IOT	Mrs. S. SAI SREE ANDAL
	21K95A0435	M. SANDHYA		
	21K95A0438	M. ZAMEER		
49	20K91A04E7	P. ABHISHEK	TRANSMISSION GATE -BASED 8T SRAM CELL FOR BIO MEMORY APPLICATIONS	Mrs. M. CHAITANYA
	20K91A04E9	R. VENNELA		
	20K91A04F0	R. HARIKA		
50	21K95A0429	K. VIJAY KUMAR	INTELLIGENT SURVEILLANCE SYSTEM FOR RIDERS WITHOUT HELMET AND TRIPLE RIDING DETECTION ON TWO WHEELRS	Mr. M. GNANESH GOUD
	21K95A0433	M. SANJANA		
	21K95A0441	M. KEERTHI		
51	21K95A0428	K. SRUJAN	TRAIN MONITORING AND CONTROLLING SYSTEM	Mrs. A. HARITHA
	21K95A0442	M. SAI CHARAN		
	21K95A0443	N. ANURAG		
52	20K91A04C6	N. SAI TEJA	LI-FI AND IOT BASED INDUSTRIAL PARAMETERS MONITORING AND CONTROL SYSTEM	Mrs. A. LAVANYA
	20K91A04C8	N. ROHITH		
	20K91A04E4	P. AJAY KUMAR		

53	20K91A04A2	L. PAVAN KUMAR REDDY	A SMART STREET LIGHT INTENSITY OPTIMIZER PORTABLE ROADSIDE SENSORS FOR VEHICLE COUNTING	Mrs. M. JAGRUTHI
	20K91A04D8	P. PRADEEP		
	20K91A04C9	N.CHANDRASHEKAR		
	20K91A04B0	M. ANIL		
54	20K91A04A1	K. SHIVA KUMAR	A SMART HELMET FOR UNDERGROUND MINING WORKERS	Mrs. K. SHALINI
	20K91A04E8	P. TEJA KUMAR		
	20K91A04D4	P. AKASH		
55	20K91A04A8	M. VIJAY KUMAR	INNOVATIVE PROTECTION OF VALUABLE TREES FROM SMUGGLING USING RFID AND SENSORS	Mrs. D. SWATHI
	20K91A04B6	M. SAI KIRAN REDDY		
	20K91A04C4	N. SATHWIK		
56	20K91A04A6	M. MANDHIRA	MULTIFUNCTIONAL BLIND STICK FOR VISUALLY IMPAIRED PEOPLE	Mrs. K. SANTOSHI
	20K91A04D5	P. SANJAY KUMAR		
	20K91A04D6	P. JWALITHA REDDY		
57	20K91A04C3	N. REVANTH KUMAR	AIR POLLUTION MONITORING SYSTEM USING IOT	Ms. M. MOUNIKA
	20K91A04C7	N. SRUJANA		
	20K91A04D2	N. AJAY		
58	20K91A04G5	SHREYA REDDY AVANAGANTI	ADVANCEMENTS IN TOMATO HARVESTING ROBOTS :A GLOBAL PERSPECTIVE	Dr. M. GIRISHKUMAR
	20K91A04G6	SIDDAGONI KARTHIK		
	20K91A04G9	SUNKI LAXMI PRASANNA		
	21K98A0401	KOPPULA POOJITHA		
59	20K91A04G8	SREEDHAR	CNC MACHINE LASER ENGRAVER 3D MODEL	Dr. M. MAHESH
	20K91A04H3	THALLURI JYOTHIRMAI		
	20K91A04K1	KATAMONI JASHWANTH GOUD		
	20K91A04K2	D. NAVANEETH REDDY		

60	21K95A0450	P VENKAT SAI	DESIGN OF SMART HOME IMPLEMENTATION WITH NATURAL LANGUAGE INTERFACE	Dr. M. GIRISH KUMAR
	21K95A0454	SREEDHAR REDDY B		
	21K95A0455	T AKASH REDDY		
	21K95A0459	VALLAPU KHATHYAYANI		
61	20K91A04F1	RACHURI SAI CHANDHU	SOLAR GRASS CUTTER USING IOT APPLICATION	Dr. M. MAHESH
	20K91A04F4	RAMYA MITTAPELLY		
	20K91A04K9	BACHHALKURA SAKSHITHA		
62	20K91A04J0	VANGALA SHIVASAI	DESIGN AND EVALUATE THE TEST METHODS OF INERTIAL NAVIGATION SYSTEM	Mr. G. MAHESH
	20K91A04J4	VELIDANDI SRILEKHA		
	21K95A0460	VANAM SANJAY KUMAR		
	21K95A0462	VOLAVOJU GOWTHAMI		
63	20K91A04F8	SAGARLA ASHOK	SMART CROP AND RAIN PROTECTION USING GSM MODULE	Mrs. A. HARITHA
	20K91A04H1	SURASANI MEGHANA REDDY		
	20K91A04J7	YALLA SAMEERA REDDY		
64	20K91A04F7	ROMMULA SHARON SARAH	NONINVASIVE GLUCOSE CONCENTRATION MEASUREMENT SYSTEM	Mrs. G. ANITHA CHOWDARY
	20K91A04G0	SETTI VASUDHA		
	20K91A04K3	PRANEETH KUMAR BHEEMANAPALLI		
	21K95A0452	PURUSHOTHAM SRIKANTH		
65	20K91A04F3	RAJEEV SANKY	SMART FARMING: DETECTING TOMATO PLANT DISEASES USING CNN	Mrs. K. SHALINI
	20K91A04J3	VELDHANDA MANASA		
	20K91A04H7	TUMMA SHISHIR CHANDRA TEJA		
	20K91A04K6	ALIMINETI RANJITH REDDY		
66	20K91A04F2	RAGI SAKETH RAM	DESIGN OF LOW POWER, LOW TEMPERATURE COEFFICIENT, BANDGAP REFERENCE VOLTAGE	Mr. A. THEJA
	20K91A04F6	RENJARLA SAI TEJA		
	20K91A04G7	SINGIREDDY VINAY KUMAR		
	20K91A04K4	VISAVARAM SREEJA		

67	20K91A04G2	SHAIK SHAHEER	ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM AND FIRE PROTECTION (EVBMS)	Mrs. K. SUSHMA
	20K91A04G4	SHERI HARISH		
	20K91A04F5	RAVULAKOLU SRAVANI		
68	20K91A04J9	GUNDEMONI ANIL	FOREST INNOVATION PROTECTION OF TREES FROM SMUGGLING	Mrs. M. INDIRA
	21K95A0444	N NIHARIKA		
	21K95A0447	P ASHISH SINGH		
	21K95A0458	V SHIVA KUMAR		
69	20K91A04H0	SURABHI NEHA	INTELLIGENCE SURVEILLANCE SUPPORT SYSTEM	Mr. G. MAHESH
	20K91A04F9	SAPAVAT SIDDU		
	21K95A0445	N RAMYA SREE		
70	21K95A0448	P LOKESH	DEVELOPMENT AND TESTING OF MULTI-FUNCTION DATA ACQUISITION (DAC) AND 1553B COMMUNICATION MODULE	Mrs. M. JAGRUTHI
	21K95A0456	T HARSHIKA		
	21K95A0461	VEMULA ASHWINI		
	20K91A04K8	DUGYALA AKSHAY KUMAR		
71	20K91A04H4	THAMBAKU CHANDHU	IOT BASED SYSTEM FOR DETECTING ABNORMAL HEART RATE USING MACHINE LEARNING	Mrs. R. N. S. KALPANA
	20K91A04H8	TUMMANPELLI GAYATHRI		
	20K91A04J6	YARAMALA BHARGAV REDDY		
72	20K91A04H9	VANGA VAMSHI KRISHNA	INTELLIGENT FOOD AND GRAIN STORAGE MANAGEMENT SYSTEM FOR WAREHOUSE	Mrs. D. SWATHI
	21K95A0446	NAGARAPU RAVI TEJA		
	21K95A0453	RAYAPROLU APARNA		
	20K91A04K0	JALLELA PRASHANTH		
73	20K91A04G3	SHANKURI SACHIN REDDY	SMART HOME SECURITY AND SURVEILLANCE SYSTEM USING RASPBERRY PI	Mr. E. PRABHAKAR
	20K91A04H2	TATIKONDA JAGANMOHAN		
	20K91A04K7	GUNUPUDI SIVA PRASAD SAI SANTHAN		

74	20K91A04G1	SHAIK NAGA SALEEM	INTELLIGENT SURVEILLANCE AND NIGHT PATROLLING USING DRONE	Mrs. J. SRAVANTHI
	20K91A04J2	VEERAMALLA THRIVENI		
	20K91A04J5	VENKATA RAHUL ADRI AGYARAJU		
75	20K91A04H6	THOKALA VISHNU VARDHAN REDDY	GAS LEAKAGE WITH AUTO VENTILATION AND SMART MANAGEMENT SYSTEM	Mrs. A. LAVANYA
	20K91A04J1	VANGARA MAVULLAMMA MOUNIKA		
	21K95A0449	P SIDDHARDHA		
76	20K91A04H5	THATIPALLY SINDHUJA	AUTOMATIC WATERING SYSTEM FOR PLANTS USING RASPBERRY PI WITH SOIL MOISTURE SENSOR	Mrs. M. MOUNIKA
	20K91A04J8	YELLAMLA DEEPAK		
	21K95A0463	YERRA PAVANI		
	21K95A0457	V MEGHANA		



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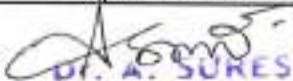
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****CSE -A PROJECT BATCHES**

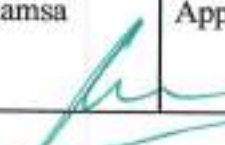
BATCH	Roll No's	Name of the Students	project title	Guide Name	Domain
A1	20K91A0540	CHIKATI SANKEERTHANA	Skin cancer detection using optimised convolutional neural networks	M Gayathri	Application development
	20K91A0536	C PRAVEEN KUMAR			
	20K91A0542	CHINTALA SRAVANI			
	20K91A0513	B.KOUSHIK REDDY			
A2	20K91A0547	DUNNA NISSI	A deep attentive multimodel learning approach for disaster identification from social media posts	M Gayathri	Application Development
	21K95A0504	BUDDHAVARAPU SANDILYA			
	20K91A0516	BALYALA SREEJA			
	20K91A0526	BODA AVANTHIKA			
A3	20K91A0545	DATHRIKA PRAVALIKA	Image to speech conversion for visually impaired	Thanmayee Tupurani	Application Development
	20K91A0544	DASOJU CHARAN			
	20K91A0551	GANDHAM NANDINI			
	20K91A0504	ALAM ANUSHA			
A4	20K91A0543	CHINTHALA HARSHITHA	ParkSmart: Simplifying parking with an Android app	V.Pragathi	Application Development
	21K95A0503	BANDAPALLY SAI TEJA			
	20K91A0553	GOLLAPUDI SHIVANANDA SAI			
	20K91A0510	ASHANOLLA SRIDHAR REDDY			
A5	20K91A0537	CHANDA SHIVA SHANKAR	Online cloth store and rental services	A.pradeep	application development .
	21K95A0506	BANOTH PAVAN			
	20K91A0509	ANKIREDDY ARAVIND			
	21K95A0505	BODHU VARUN			

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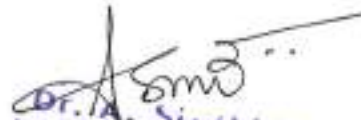
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A6	20K91A0550	GAJULA ANJALI	Bigmart sales prediction using Machine learning	SHIRISHA REDDY K	Machine learning
	21K95A0502	AKKI ANIL			
	20K91A0538	CHAVIDI RISHIKESH REDDY			
	20K91A0546	DHARAVATH DEVENDER			
A7	20K91A0503	AKULA NANDINI	Municipal corporation complaint management system	A.Pradeep	Application Development
	20K91A0525	BOBBITI HEMANTH REDDY			
	20K91A0533	BUKYA SHIVAJI			
	20K91A0501	ABDUL BASHITH			
A8	20K91A0539	CHETTIPALLY JHANSI	A Multi-Stage Machine Learning and Fuzzy Approach to Cyber-Hostility Detection	P RAJYA LAKSHMI	application development
	20K91A0512	B VAISHNAVI			
	20K91A0519	BARUPATI HARIKA			
	20K91A0552	GARLAPATI SRIKAR REDDY			
A9	20K91A0520	BELLAPU GAYATHRI	Ensuring Data Consistency In Multi-cloud Storage Systems	N.Chandrakala	Cloud computing
	20K91A0531	BORRA KRISHNA SRI SANTHOSHI VALLIKA			
	20K91A0502	ADEPU SAI TEJA			
	20K91A0532	BUDDHARAM MAHESH			
A10	20K91A0527	BOINI SANITH	A Comparative Analysis of Machine Learning Techniques for Cyberbullying Detection on Twitter	DR K SATISH KUMAR	Application Development
	20K91A0522	BHUMPALLI MOHD SHANAWAZ			
	20K91A0511	ATLA VINAYAK REDDY			
	20K91A0541	CHILUMULA SHIVANI			
A11	20K91A0506	ANDHE VINEELA	Prediction of Parkinson's disease and severity of the type using Machine Learning	P. Prashamsa	Application development
	20K91A0518	BANURU ROHITH KUMAR REDDY			
	20K91A0507	ANEM KARTHIK			
	20K91A0554	GOVULA RAJESH			


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A12	20K91A0534	BURRI AJAY SIVARAM	Securing Cloud Storage Access with Attribute Based Encryption	N.Chandrakala	Cloud Computing
	20K91A0517	BANOTH SHIVAMANIKANTA			
	20K91A0530	BORE MAHESH			
	20K91A0524	BINGI SAI GANESH			
A13	20K91A0515	BALTHI AKHIL	An Empirical Evaluation of Machine Learning Techniques for Chronic Kidney Disease Prophecy	DR K SATISH KUMAR	Application development
	20K91A0523	BHURE KUNAL			
	20K91A0528	BONAGIRI SWEJAN			
	20K91A0508	ANISHKA V NELLI			
A14	20K91A0535	BURSU DURGA BHAVANI	Rhythmic Reflections: A Symphony of Emotions Based on Facial Expressions	B. Srikanth	Application Development
	20K91A0549	GADDI YASHWANTH			
	20K91A0529	BONTHU ROHITH			
	20K91A0514	BAIRABOINA KRUSHIK			
A15	20K91A0505	AMGOTHU SIDDHU	Goods Analyzer tool for marketing	M.Anupama	Machine learning
	20K91A0555	GUDA ROHITH			
	20K91A0521	BELLI UDAYKIRAN			
	20K91A0548	GADDAM AISHWARYA ANJANI			


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CSE - B PROJECT BATCHES

BATCH	ROLL NO	Name	project title	Guide Name	NAME OF DOMAIN
B1	20K91A0577	KANUKURTHI MOUNIKA	Cardiovasucular Disease Prediction using Machine Learning	DR.KSR Radhika	Machine learning
	20K91A0570	K V HARSHAVARDHAN REDDY			
	20K91A0583	KATLE VIJAY KUMAR REDDY			
	20K91A0574	KALLEDA SAI KIRAN			
B2	20K91A0564	INJETI NAGA LIKITHA REDDY	A Supervised Machine Learning algorithm for predicting and detecting fraud in credit card transactions	Mr P V Kishan Rao	Machine learning, Application Development
	21K95A0512	DEVASANI PAVAN KUMAR			
	20K91A0584	KETHAVATH AJAYKUMAR			
	21K95A0515	G VINAY CHARI			
B3	20K91A0578	KARASANI SAINIHA	Prediction of Heart disease using Machine Learning Techniques: Random Forest & KNN	Ch. BN Lakshmi	machine learning
	20K91A0560	GUNTA KAILASH			
	20K91A0589	KONDERU SRINADH			
	21K95A0508	BOMMIREDDY VASUDEVA REDDY			

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B4	20K91A0561	KUNTA LAXMAN	Improving Prediction of student success through an automated Machine Learning	Dr A Pramod Reddy	Machine Learning
	20K91A05A0	KURVA CHANBASANTH			
	20K91A05A7	MARIKANTI VINAY KUMAR			
	21K95A0517	KANUGULA PRANEETH KUMAR			
B5	20K91A0566	JAJAPURAM SAI DEEKSHITA	A Practical Animal Detection and Collision Avoidance on Road Using Computer Vision Technique	Dr. K.Naresh	Machine Learning, Image Processing, Computer vision
	20K91A0567	JALA NIKHIL SAI			
	20K91A0591	KORVI DHEEPAK			
	20K91A05A4	MADARAPU HARSHAVARDHAN			
B6	20K91A0598	KUNTA RAMU	Rice Leaf Disease Detection using Machine Learning	P.LAXMI PRASANNA	Machine Learning
	20K91A05A5	MALOTH SIDDHU			
	20K91A0572	K VENKAT SAI			
	21K95A0509	BUDDE SAITEJA			
B7	20K91A0599	KURUPATI HIMABINDU	Network Traffic Monitoring and Detection Based on Machine Learning and Deep Packet Inspection	Mrs M Thanmayee	networks
	20K91A0596	KUMBUM MOHAN GOUD			
	20K91A0573	KADALI SRIVASTAV			
	20K91A05A1	LAVU SANDEEP CHOUDHARI			
B8	20K91A05A3	M DEEPIKA	Health Insurance Fraud Detection using Machine Learning	Dr.K.Naresh	Machine learning
	20K91A0569	JINUKUNTLA SAI			
	20K91A0597	KUNATI ARYAN KRISHNA			
	20K91A0590	KONKATI SAISHIVA			


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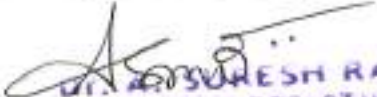

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B9	20K91A0559	GUNDETI DIVYA	Sentiment Analysis For MicroBlog using ML	Dr.M.NARENDER	machine learning, Application development
	20K91A0581	KARNATI RAM SUMANTH			
	20K91A0565	JAGIDI SRIKANTH REDDY			
	20K91A0558	GUNDAMALA THARUN			
B10	20K91A05A2	LODA RANJITH	Recommendation System for Book Selection using Machine Learning	Mrs A Tejaswini	machine learning
	20K91A0588	KONDA ARUN			
	20K91A0575	KALLURI ANUDEEP			
	21K95A0507	BODDUPALLY MAHENDER			
B11	20K91A0586	KOMMERA DHARMIKA	Prediction of Diabetes Disease using Machine Learning Algorithms in Health care	Dr.M.NARENDER	machine learning
	20K91A0571	K VAISHNAVI			
	20K91A0587	KOMMU SANDEEP			
	20K91A05A8	MARNENI VARUN SATHWIK			
B12	20K91A0580	KARLA SHRAVYA	SmartCultivation: Empowering Farmers through Crop Recommendations using Machine Learning	Mrs K Shirisha Reddy	Machine learning
	20K91A0582	KASARLA DEEKSHITH REDDY			
	20K91A0557	GUNDA SATWIK REDDY			
	20K91A0579	KARATLAPALLY ABHI RAM TEJA			

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B13	20K91A0592	KOTA SRUTHI	Recommendation system for supermarket groceries using machine learning	Ms. M. Anupama	Machine learning, Application development
	20K91A05A6	MANGADUDLA NAVEEN			
	21K95A0511	CHITRAM UDAY			
	21K95A0510	CHINTHALA SAI PRASANNA GOUD			
B14	21K95A0516	GUDETI RAJESHWAR	Machine Learning PipeLine for Fraud Detection in E-commerce Transactions	Mrs K Naga Maha Lakshmi	Machine Learning, Web Development
	20K91A0562	ILLURI SUDHEER BABU			
	20K91A0585	KETHAVATH SUNITHA			
	20K91A0593	KOTHA ABHILASH REDDY			
B15	20K91A0563	INJA SAINADH REDDY	Stock Market Prediction using Machine Learning	Tulasi Ratna Mani	Machine learning, image processing, Computer vision
	20K91A0568	JANGALA SWETHA			
	20K91A05A9	MARRURU DURGABHAVANI			
B16	20K91A0556	GUDETI SINDHUJA	An Automated Bottle Cap Defect Detection using Machine Learning	P.LAXMI PRASANNA	Machine learning
	21K95A0514	GOLI SHIVA REDDY			
	20K91A0576	KALYANAM VANDANA			


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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****CSE - C PROJECT BATCHES**


BATCH	ROLL.NO	GROUP MEMBERS	project title	GUIDE	DOMAIN
C 1	20K91A05F3	RAVULA ARAVIND	Predicting and Classifying plant Leaves disease detection using Machine Learning	Dr.CH.B.Naga Lakshmi	Machine Learning
	20K91A05B1	MD MUSTAFA			
	20K91A05C7	NELLUTLA SANJANA			
	20K91A05E8	PYATA ANIL			
	20K91A05C8	NIMMA RUTHVIK REDDY			
C 2	20K91A05C0	MUNNURWAR PRATHIJA	Seamless cross- platform data exchange with secure cloud storage	Mrs.M Jyothi	Application development
	20K91A05F9	SADHAM SWETHA			
	20K91A05E1	PONNAM SAI KUMAR			
	20K91A05F6	REBBA NISHANTH KUMAR			
C 3	20K91A05F2	RAVIRALA GAYATHRI	loan Approval predictions using Machine Learning models	Ms.Y.Latha	Machine learning
	20K91A05C6	NEHA			
	20K91A05B2	MOHAMMAD ABDUL GAFOOR			
	20K91A05B7	MONDIKATHI AJAYKUMAR			
C 4	20K91A05G0	SAMA SAI SANTHOSH REDDY	Prediction and classification of skin disease detection using machine learning	G. Anantha Laxmi	Machine Learning
	21K95A0529	NARRA CHANDANA			
	20K91A05D9	POLSANI SAI VAMSHI			
	20K91A05C3	MYATHAR ARAVIND			
	20K91A05E5	PULIKANTI HARISH REDDY			

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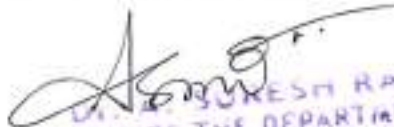
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C 5	20K91A05F8	RUDRARAPU RAJINI VIJETHA	Risk Prediction and Diagnosis of Breast Cancer using Machine Learning Classifiers	Mr.Shaik Mahaboob Basha	Machine learning
	20K91A05D2	PAGIDOJU VARSHITHA			
	20K91A05B9	MUKKA SNEHA			
	21K95A0528	NADELLA VENAKATA TARUN			
C6	20K91A05F4	REBBA SAI PAVAN	House Price Prediction Using Machine Learning	Dr. A Suresh Rao	Machine Learning
	20K91A05D7	PENDYALA VINAY KUMAR			
	20K91A05E4	PRIYANKA GUMPULA			
	20K91A05E3	POTTUMUTHU MANIKANTA			
C7	20K91A05E6	PURI PUJITHA	prediction of lung cancer using machine learning and deep learning algorithms based on ct scan image analysis	Mrs.V.Pallavi	Machine learning
	20K91A05F5	REMADALA SREENU			
	20K91A05E7	PUSA AKSHAY			
	21K95A0518	KORRA HARSHITHA			
C8	20K91A05G4	SHAIK EMAM	A Novel Fused Machine Learning model to Predict Diabetes Retinopathy	Dr.Ksr.Radhika	Machine Learning
	21K95A0519	LAKAVATH MANISHA			
	21K95A0521	MALKAPURAM CHANDRA KIRAN			
	20K91A05G3	SANDRA KARTHIK			
C9	20K91A05E0	PONNALA VIVEK REDDY	Heart disease prediction using machine learning classification algorithms	Mrs.K.Anusha	Machine Learning
	20K91A05D4	PANKARLA DEEPANJALI			
	21K95A0520	MORA RAVINDAR			
	20K91A05B8	MOORASANI ABHIRAM SAI REDDY			


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C10	20K91A05B6	MOHD NAYEEMUDDIN GHORI	Face recognition attendance system for students using machine learning algorithms	Mrs.N.Padmavathi	Machine learning
	20K91A05D3	PAKA JAGRUTHI			
	20K91A05E9	RABAHUDDIN OSMAN			
	20K91A05F0	RAGHAVENDRA YADAV KOMMU			
C11	20K91A05B4	MOHAMMAD SHAHBASH	AI based convolution neural network method to detect brain tumor	Mrs.K.Anusha	Artificial Intelligence
	20K91A05B5	MOHAMMED HUZEFA			
	21K95A0527	NALUMACHU RAKESH			
	21K95A0526	NALAVATH MAHESH			
C12	20K91A05D5	PARAMKUSHAM HASINI	multilingual image and speech translator: A unified approach for language conversion from images and speech	Mrs.Tulasi Ratna Mani	Machine learning
	21K95A0523	MIDDELA NARESH			
	20K91A05C2	MUTHYAM SAIKIRAN			
	20K91A05G2	SANA FATIMA			
C13	21K95A0524	MOHAMMAD SHAKEEL AHAMAD KHAN	A comprehensive unsupervised framework for chronic kidney disease prediction	P. Chandrashekar	Machine Learning
	21K95A0522	MANTHATTI SHIVA SAI			
	20K91A05G5	SHAIK SAMEER			
	20K91A05D0	ONMANI NITISH			


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C14	20K91A05C9	NOMULA VENKATA SAHITHI	Cinematic intelligence: Revolutionizing movie recommendation with machine learning	Mrs.N.Padmavathi	Machine Learning
	20K91A05D1	PACHUDALA DINESH			
	20K91A05C5	NANNEM NITHIN			
	20K91A05E2	POREDDY SHIVA KRISHNA REDDY			
C 15	20K91A05B3	MOHAMMAD LALBEE	Cyber guard:Machine learning-powered network anomaly detection	Mrs.A.Tejaswini	Networks security
	20K91A05D6	PEDDAPELLY KRISHNAJA			
	21K95A0530	PALWAI ANURAG			
	20K91A05C1	MUTHYALA SATHYAHARSHA			


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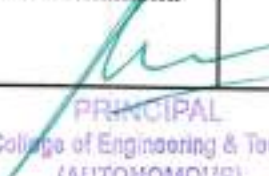
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****CSE - D PROJECT BATCHES**

Batch	Roll No's	Name of the Students	project title	Guide Name	Domain
D1	20K91A05N1	MUDHAGOWNI GANESH GOUD	LUNG-GANS UNSUPERVISED REPRESENTATION LEARNING FOR LUNG DISEASE CLASSIFICATION USING CHEST CT AND X-RAY IMAGES	G.Anantha lakshmi	Artificial Intelligence
	20K91A05N7	SANAGANA TEJASWINI PUSHPAVATHI			
	20K91A05N2	VEMU LIKITHA REDDY			
	20K91A05P0	SAMRAJ SRICHAKRI			
D2	20K91A05K2	VATTI SHIRISHA	MOVIE RECOMMENDATION SYSYTEM USING SENTIMENT ANALYSIS FROM MICROBLOGGING DATA	P. V. Kishan Rao	Machine Learning
	20K91A05K1	VARALA SANKETH			
	20K91A05K8	Y KIRAN KUMAR			
	20K91A05N6	KUCHIPUDI SAIVARDHAN			
D3	21K95A0540	VANAMPALLY PRASANNA	Real Time Adaptive Object Detection and Tracking For Autonomous Vehicles	Mr. L. Gnanender Reddy	Artificial Intelligence
	20K91A05J9	PANCHAL VARAD KRISHNA			
	20K91A05P2	VASIREDDY NAVEEN BABU			
	20K91A05N8	KATTEKOLAM ABHIRAM			
D4	20K91A05K0	VARAKAVI BHAVANA	PERSONALITY-AWARE PRODUCT RECOMMENDATION SYSTEM BASED ON USER INTEREST MINING AND METAPATH DISCOVERY	Mrs..P.Prashamsha	Machine Learning
	21K95A0536	SANDYAPAGOLA SUCHITHA			
	20K91A05J8	VANGALA RUSHINDRA			
	20K91A05M1	SAYA TARUN			


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D5	21K95A0533	RAM KARISHMA	A MULTIMODAL DEEP LEARNING METHOD FOR ANDRIOD MALWARE DETECTION USING VARIOUS FEATURES	Mrs.V.Pragathi	Application Development
	20K91A05P1	GANTE LOOSHITHA LAYA			
	21K95A0531	PALOJU NIHANK			
	20K91A05N3	EDUKULLA PURNA CHANDER			
D6	20K91A05L4	MANTHOJU NANDINI	EXPLORATORY DATA ANALYSIS AND SALES FORECASTING OF BIGMART DATASET USING SUPERVISED AND ANN ALGORITHMS	Dr.A.Suresh Rao	Machine Learning
	20K91A05M7	KARTHIK SACHIN YADAV VEERABOINA			
	20K91A05M2	GANDIKOTA PAVANI			
	20K91A05M9	MOHAMMED ASAD ODDIN			
D7	20K91A05L7	SALKAPURAM CHAYA DEVI	SMART FARMING:CROP RECOMMENDATION USING MACHINE LEARNING WITH CHALLENGES AND FUTURE IDEAS.	Mrs.V.KONICA NEHAL	Machine Learning
	20K91A05K9	YADAVALLI CHANDANA			
	20K91A05M5	BAGODI PAVITHRA			
	20K91A05L6	GOUNI DEEKSHITH REDDY			
D8	20K91A05G8	SHER RAMU	Dynamic Heart Disease Prediction Using AI	P.PRASHAMSA	Artificial Intelligence
	20K91A05J5	TUNGA JHANSI			
	20K91A05J7	UTNOORI VISHWA CHARAN			
	20K91A05L9	THADAKAMALLA CHARAN KUMAR			
D9	21K95A0541	YELGONDAGUDEM AKHILA	MACHINE LEARNING BASED DETECTION OF MALICIOUS BOTS VIA URL FEATURES	V.PALLAVI	Network Security
	21K95A0532	PULIMADHI GOWTHAM			
	20K91A05G9	SIMHADRI SAI CHARAN			
	20K91A05N5	VANGALA PURUSHOTHAM REDDY			

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D10	21K95A0537	SAPAVAT SOWJANYA	A SPAM TRANSFORMER MODEL FOR SMS SPAM DETECTION	Mr. SRIKANTH B	Network Security
	20K91A05M8	K SPANDANA			
	20K91A05J6	UJJU VENKAT RAO			
	20K91A05L2	YELUKURU MOHAN GANESH			
D11	20K91A05L0	YARRAMADA SRIJA	EFFECTIVE FEATURE ENGINEERING TECHNIQUE FOR HEART DISEASE PREDICTION WITH MACHINE LERANING	V.KONICA NEHAL	Machine Learning
	20K91A05L8	KASIREDDY NIKHIL REDDY			
	20K91A05K4	VENKATAPURAM SHIVA SHANKAR			
	20K91A05M6	GANESAM NITHIN KUMAR REDDY			
D12	20K91A05N4	SAMALA TEJASRI	DETECTION AND CLASSIFICATION OF EARLY STAGES OF PARKINSONS DISEASE THROUGH WEARABLE SENSORS AND MACHINELEARNING	Ms.Y.LATHA	Machine Learning
	20K91A05L5	GANJI HARSHINI			
	20K91A05M4	PRUDHVI TEJA MIRYALA			
	20K91A05N9	BURUGUPALLY RAHUL REDDY			
D13	20K91A05J2	SURBIRYAL SANJANA	ON DETECTING ROUTE HIJACKING ATTACK IN OPPORTUNISTIC MOBILE NETWORKS	Mrs. K NAGA MAHA LAKSHMI	Network Security
	20K91A05G6	SHAIK SHOIEB SULTHAN			
	20K91A05K6	VINCENT PRAJWAL MARASAKATLA			
	20K91A05L3	BURRE SHRAVAN			
D14	20K91A05J0	SUNKIREDDY KEERTHANA REDDY	A Machine Learning Approach for Rainfall Estimation Integrating Heterogeneous Data Sources	G.JYOTHI	Machine Learning
	20K91A05K7	VOMULA ARAVIND			
	20K91A05N0	KODIGANTI VARUDHINI REDDY			
	20K91A05K3	VENEPALLY PARDHA TEJA			

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D15	20K91A05J3	TEEGALA BHARGAVI	NEXT-GENERATION SECURE E-COMMERCE PLATFORM	M.JYOTHI	Application Development
	20K91A05M3	VINAY KUMAR TALUGULA			
	20K91A05L1	YASHWANTH REDDY ANUGU			
	20K91A05K5	VIDIYALA PHANEESHWAR			
	20K91A05K5	VIDIYALA PHANEESHWAR			
D16	20K91A05G7	SHENIGARAM SHREYA	Design of Secure Authenticated Key Management Protocol for Cloud Computing Environments	Mr.SHAIK MAHABOOB BASHA	Network Security
	20K91A05J1	SUNNAGANTI SHRAVYA			
	21K95A0535	SAMUDRALA TEJA			
D17	20K91A05M0	MEKA SHREEYA	Emotion based music player with facial expression.	G.JYOTHI	Machine Learning
	20K91A05J4	THUNKOJU SAINADH			
	21K95A0538	URADI BALRAJ			


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**Department of Information Technology**

Courses having focus on Employability/ Entrepreneurship/ Skill development during the Year: 2023-24


Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Problem Solving using C Programming (Iyear-Isem)	D1ESCP4	Skill development (Understands the concepts of C- Programming language)
Problem Solving using C Programming Lab (Iyear-Isem)	D1ESCP5	Employability (Develop knowledge in C- Programming)
Problem Solving using Python (Iyear-IIsem)	D2ESPP6	Skill development (Understands the concepts of Python Programming language)
Python Programming Lab (Iyear-IIsem)	D2ESPP7	Employability (Construct Programs using Python Programming concepts)
IT Workshop (Iyear-IIsem)	D2ESITW	Skill development (Develop Presentations, Documents and Spreadsheets)
Business Economics & Financial Analysis (IIyear-Isem)	D3HSBF	Entrepreneurship (Analyzing the financial statement of the company through various ratios)
Computer Organization and Architecture (IIyear-Isem)	D3ESCOA	Skill development (Understand the internal organization of a system)
Data Structures (IIyear-Isem)	D63PC1	Skill development (Analyze linear data structures and non-linear data structures)
Object Oriented Programming through Java (IIyear-Isem)	D63PC2	Skill development (Design GUI based applications)
Data Structures Lab (IIyear-Isem)	D63PC3	Employability (Apply data structures for solving real-world problems)
Object Oriented Programming through Java Lab (IIyear-Isem)	D63PC4	Employability (Develop GUI programs)
IT Essentials Lab (IIyear-Isem)	D3ESITE	Employability (Develop Web Applications)
Web Technologies (IIyear-IIsem)	D64PC6	Skill development (Create Dynamic Web pages, Make use of Express JS and Node JS Frameworks)
Operating Systems (IIyear-IIsem)	D64PC7	Skill development (Understand the performance of operating systems)
Database Management Systems (IIyear-IIsem)	D64PC8	Skill development (Understand the design of ER model,RDBMS and formulate SQL queries on the data, normalization and recovery techniques)
Design and Analysis of Algorithms (IIyear-IIsem)	D64PC9	Skill development (Analyze the performance of the algorithms)
Operating Systems Lab (IIyear-IIsem)	D64PC10	Employability (Develop Skills to operate various operating systems)
Database Management Systems Lab (IIyear-IIsem)	D64PC11	Employability (Design and implement a database schema for given problem and develop programs using PL/SQL)
Web Technologies Lab (IIyear-IIsem)	D64PC12	Employability (Develop Dynamic Web pages, Make use of Express JS and Node JS Frameworks)

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Software Engineering (IIIyear-Isem)	C65PC1	Skill development (Able to test software by applying various testing strategies)
Python Programming (IIIyear-Isem)	C65PC2	Skill development (Understands the concepts of Python Programming language)
Compiler Design (IIIyear-Isem)	C65PC3	Skill development (Design algorithms to perform code optimization and to generate machine code)
Computer Networks (IIIyear-Isem)	C65PC4	Skill development (Gain Knowledge in Networking Concepts)
Object Oriented Analysis and Design (IIIyear-Isem)	C65PC5	Skill development (Gain Knowledge in UML Diagrams)
Object Oriented Analysis and Design Lab (IIIyear-Isem)	C65PC7	Employability (Develop UML Diagrams)
Python Programming Lab (IIIyear-Isem)	C65PC8	Employability (Construct Programs using Python Programming concepts)
Fundamentals of Management (IIIyear-IIsem)	CHSM2	Entrepreneurship (Analyzing the financial statement of the company through various ratios)
Web Technologies (IIIyear-IIsem)	C66PC1	Skill development (Create Dynamic Web pages)
Stack Technologies (IIIyear-IIsem)	C66PE3	Skill development (Make use of Express JS and Node JS Frameworks)
Web Technologies Lab (IIIyear-IIsem)	C66PC5	Employability (Develop Web Applications)
Advanced English Communication Skills Lab (IIIyear-IIsem)	CHSE3	Skill development (Develop proficiency in academic reading and writing)
Data Warehousing and Data Mining (IVyear- Isem)	C67PC1	Skill development (Analyze methodologies used in data mining and data ware housing)
Information Security (IVyear- Isem)	C67PC2	Skill development (Understand the Policies, Guideline and Framework of Web Security)
Mobile Adhoc Networks (IVyear- Isem)	C67PE4	Skill development (Understands the principles of mobile ad hoc networks)
Internet of Things (IVyear- Isem)	C67PE5	Skill development (Develop web based services on IoT devices.)
Data Warehousing and Data Mining Lab (IVyear- Isem)	C67PC6	Employability (Make use of methodologies used in data mining and data ware housing)
Storage Area Networks (IVyear- IIsem)	C68PE2	Skill development (Understands the different network storage options for different application environments.)
Semantic Web & Social Networks (IVyear- IIsem)	C68PE3	Skill development (Learn the various semantic web applications)


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INFORMATION TECHNOLOGY

B.Tech I YEAR I SEMESTER

**L/T/P/C
3/0/03**

PROBLEM SOLVING USING C PROGRAMMING (D1ESCP4)

COURSE OBJECTIVES

To impart knowledge on

- Write solutions using problem solving techniques and appropriate programming constructs
- Develop programs using selection, iteration statements and arrays
- Construct programs using functions and strings
- Implement programs using pointers, structures and unions
- Write programs using files and preprocessor directives

COURSE OUTCOMES

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

- CO1:** Write solutions using problem solving techniques and appropriate programming constructs for solving problems
- CO2:** Develop programs using selection, iteration statements and arrays for a given scenario
- CO3:** Construct programs using functions & strings for a given application
- CO4:** Implement programs using pointers, structures & unions for various real time applications
- CO5:** Write programs using files & preprocessor directives and graphics functions for a given scenario

Unit I

C Programming Basics

General Problem solving strategy - Program development cycle - Problem Solving Techniques: Algorithm, Pseudo code and Flow Chart - Overview of C - Structure of C program - C Character set - keywords - Identifiers - Variables and Constants - Data types - Type conversion - Operators and Expressions - Managing formatted and unformatted Input & Output operation.

Unit II

Control Structures and Arrays

Storage classes - Statements: Selection statements - Jump statements - Iteration statements. Arrays: Characteristics of Array - Single-dimensional array - Two-dimensional array - Array Operations - Applications: Linear search, Selection sort, Matrix Operations.

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: PROBLEM SOLVING USING C PROGRAMMING

Subject Code: DIESCP4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.65	2.00													1.99
CO2	2.34	2.35									1.50		2.12	2.68	2.35
CO3	1.95	2.63	2.51	1.02					2.45			1.85			2.07
CO4	1.73	2.01	1.02	1.32											1.52
CO5	1.84	2.65	1.98	2.01											2.12
PO Attainment	1.90	2.33	1.84	1.45	-	-	-	-	2.45	-	1.50	1.85	2.12	2.68	2.01

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**INFORMATION TECHNOLOGY**

B.Tech I YEAR I SEMESTER

L/T/P/C
0/0/2/1**PROBLEM SOLVING USING C PROGRAMMING LAB (DIESCP5)****COURSE OBJECTIVES**

To impart knowledge on

- Write solutions using problem solving techniques and appropriate programming constructs
- Develop programs using selection, iteration statements and arrays
- Construct programs using functions and strings
- Implement programs using pointers, structures and unions
- Write programs using files and preprocessor directives

COURSE OUTCOMES

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

- CO1:** Write solutions using problem solving techniques and appropriate programming constructs for solving problems
- CO2:** Develop programs using selection, iteration statements and arrays for a given scenario
- CO3:** Construct programs using functions & strings for a given application
- CO4:** Implement programs using pointers, structures & unions for various real time applications
- CO5:** Write programs using files & preprocessor directives and graphics functions for a given scenario

List of Exercises

1. Programs to process data types, operators and expression evaluation
2. Programs using decision and looping statements
3. Programs using arrays and strings
4. Programs using functions and pointers
5. Programs using structures and union
6. Programs using files and graphics functions



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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: PROBLEM SOLVING USING C PROGRAMMING LAB

Subject Code: DIFSCPS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.21	1.41									1.02		2.22	2.68	1.71
CO2	2.85	2.63													2.74
CO3	1.63	2.96	2.85	1.65	1.52			2.56							2.20
CO4	1.32	2.14	1.52	1.58	2.55										1.82
CO5	1.01	2.24	1.32	2.85	2.40										1.96
PO Attainment	1.60	2.28	1.90	2.03	2.16	-	-	2.56	-	-	1.02	-	2.22	2.68	2.09


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INFORMATION TECHNOLOGY

B.Tech I YEAR II SEMESTER

L/T/P/C
3/0/0/3

PROBLEM SOLVING USING PYTHON (D2ESPP6)

COURSE OBJECTIVES

To impart knowledge on

- To know the basics of algorithmic problem solving.
- To read and write simple Python programs.
- To develop Python programs with conditionals and loops.
- To define Python functions and call them.
- To use Python data structures — lists, tuples, dictionaries.

COURSE OUTCOMES

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

- CO1: Develop algorithmic solutions to simple computational problems Read, write, execute by hand simple Python programs.
- CO2: Structure simple Python programs for solving problems.
- CO3: Decompose a Python program into functions.
- CO4: Represent compound data using Python lists, tuples, and dictionaries.
- CO5: Read and write data from/to files in Python Programs.

Unit I


Algorithmic Problem Solving

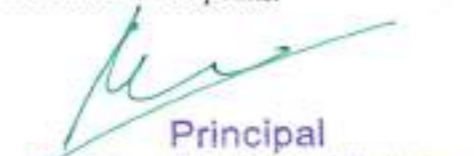
Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion), the efficiency of algorithms

Unit II

Data, Expressions, Statements

Python interpreter and interactive mode; values and types: int, float, boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; modules and functions, function definition and use, flow of execution, parameters and arguments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points. Modules and functions, function definition and use, flow of execution, parameters and arguments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **PROBLEM SOLVING USING PYTHON**

Subject Code: **D2ESPP6**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.01	1.96									1.35		2.12	2.38	1.76
CO2	2.94	2.35										1.85			2.65
CO3	1.95	2.93	2.51	1.02					2.51						2.13
CO4	1.73	2.01	1.02	1.32											1.52
CO5	1.94	2.65	1.98	2.01											2.15
PO Attainment	1.91	2.38	1.84	1.45	-	-	-	-	2.51	-	1.35	1.85	2.12	2.38	2.04

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INFORMATION TECHNOLOGY

B.Tech I YEAR II SEMESTER

L/T/P/C
0/0/3/1.5

PYTHON PROGRAMMING LAB (D2ESPP7)

COURSE OBJECTIVES

To impart knowledge on

- To know the basics of algorithmic problem solving.
- To read and write simple Python programs.
- To develop Python programs with conditionals and loops.
- To define Python functions and call them.
- To use Python data structures — lists, tuples, dictionaries.

COURSE OUTCOMES

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

- CO1:** Develop algorithmic solutions to simple computational problems Read, write, execute by hand simple Python programs.
- CO2:** Structure simple Python programs for solving problems.
- CO3:** Decompose a Python program into functions.
- CO4:** Represent compound data using Python lists, tuples, and dictionaries.
- CO5:** Read and write data from/to files in Python Programs.

LIST OF PROGRAMS

1. Write a python program to print —Hello World!
2. Write a python program to demonstrate different number data types in python.
3. Write a program to perform different Arithmetic Operations on numbers in Python.
4. Write a program to create, concatenate and print a string and accessing sub-string from a given string.
5. Write a python script to print the current date?
6. Write a program to create, append, and remove lists in python.
7. Write a program to demonstrate working with tuples in python
8. Write a program to demonstrate working with dictionaries in python.
9. Write a python program to find largest of three numbers.
10. Write a Python program to convert temperatures to and from Celsius, Fahrenheit.
11. Write a Python program to construct the following pattern, using a nested for loop

```

**
** **
** ** **
** ** ** **
** ** **
** **
**

```

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: PYTHON PROGRAMMING LAB

Subject Code: D2ESPP7

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.33	1.12									1.54				1.68
CO2	2.14	2.13											2.35	2.08	2.14
CO3	1.04	2.78	2.12	1.74	2.23										1.98
CO4	1.89	2.97	1.65	1.74	1.65										1.98
CO5	1.35	2.45	1.09	2.87	2.19										1.99
PO Attainment	1.55	2.29	1.62	2.12	2.02	-	-	-	-	-	1.54	-	2.35	2.08	1.95


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INFORMATION TECHNOLOGY

B.Tech I YEAR II SEMESTER

**L/T/P/C
0/0/2/1**

IT WORKSHOP (D2ESITW)

COURSE OBJECTIVES

1. The IT Workshop is a training lab course to get training on PC Hardware, Internet & World Wide Web, and Productivity tools for documentation, Spreadsheet computations, and Presentation.
2. To introduce to a personal computer and its basic peripherals, the process of assembling a personal computer, installation of system software like MS Windows, Linux and the required device drivers, hardware and software level troubleshooting process.
3. To introduce connecting the PC on to the internet from home and workplace and effectively usage of the internet, Usage of web browsers, email, newsgroups and discussion forums. To get knowledge in awareness of cyber hygiene, i.e., protecting the personal computer from getting infected with the viruses, worms and other cyber-attacks.
4. To introduce the usage of Productivity tools in crafting professional word documents, excel spreadsheets and power point presentations using open office tools and LaTeX.

COURSE OUTCOMES


1. Apply knowledge for computer assembling, disassembling and software installation.
2. Ability to solve the trouble shooting problems.
3. Apply the tools for preparation of PPT, Documentation and budget sheet etc.
4. Create standard documents and research documents using Latex.
5. Able to create project plans.

PC Hardware

The students should work on working PC to disassemble and assemble to working condition and install operating system like Linux or any other on the same PC. Students are suggested to work similar tasks in the Laptop scenario wherever possible.

Problem 1

Every student should identify the peripherals of a computer, components in a CPU and its functions. Draw the block diagram of the CPU along with the configuration of each peripheral and submit to your instructor. Every student should disassemble and assemble the PC back to working condition.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: IT WORKSHOP

Subject Code: D2ESITW

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	2.25	1.95											2.22	1.35	1.94
CO2	2.83	2.17									1.93				2.50
CO3	2.00	2.76	2.56	1.80	2.94				2.95						2.50
CO4	2.82	2.33	1.29	1.65	2.69										2.16
CO5	1.88	2.96	1.35	2.72	2.33										2.25
PO Attainment	2.36	2.43	1.73	2.06	2.65	-	-	-	2.95	-	1.93	-	2.22	1.35	2.27


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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

**L/T/P/C
.3/0/0/3**

BUSINESS ECONOMICS AND FINANCIAL ANALYSIS (D3HSBF)

COURSE OBJECTIVES

1. To learn the basic business type of the organization.
2. To acquire the knowledge and impact of the economy on business firms.
3. To analyze the business from the financial perspective.
4. To know the financial position of the company.
5. To predict the future of business

COURSE OUTCOMES

1. Analyze the total structure of the business and able to identify and classify the Different types of business entities.
2. Asses the demand and supply analyses with the help of various measures and types of Elasticity of demand.
3. Infer the knowledge about production and cost analysis for product and services.
4. Interpret the fundamental concepts related to financial accounting.
5. Predict the financial position by analyzing the financial statement of the company Through various ratios.

UNIT I: Introduction to Business and Economics

Business: Define Business, characteristics of business, Types of Business Entities, Limited Liability Companies, Sources of Capital for a Company..

Economics: Significance of Economics, Micro and Macro Economic Concepts, and Importance of National Income, Business Cycle, Features and Phases of Business Cycle. Nature and Scope of Business Economics, Role of Business Economist,

UNIT II: Demand Analysis

Elasticity of Demand: Elasticity, Types of Elasticity, Law of Demand, Measurement and Significance of Elasticity of Demand, Factors affecting Elasticity of Demand, Elasticity of Demand in decision making, Demand Forecasting: Steps in Demand Forecasting, Methods of Demand Forecasting.

UNIT III: Production, Cost, Market Structures & Pricing

Production Analysis: production function, Law of returns to scale, Internal and External Economies of Scale. **Cost analysis:** Cost concepts, Types of Costs. Break-even Analysis (BEA). **Pricing:** Types of Pricing, product life cycle, GST (Goods & service Tax). **Market Structures-** Types of competition, Features of Perfect competition, Monopoly and Monopolistic Competition, oligopoly.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: BUSINESS ECONOMICS & FINANCIAL ANALYSIS

Subject Code: D3HSBP

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.87	1.32													1.80
CO2	2.02	2.03						1.19	1.20	2.54	1.12		2.45	2.68	2.03
CO3	1.89	2.19	2.34				1.54								1.90
CO4	1.43	2.03	1.45	1.33											1.56
CO5	1.22	2.98	1.79	2.24											2.06
PO Attainment	1.69	2.11	1.86	1.70	-	-	1.54	1.19	1.20	2.54	1.12	-	2.45	2.68	1.87


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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

L/T/P/C
3/0/0/3

COMPUTER ORGANIZATION AND ARCHITECTURE (D3ESCOA)

COURSE OBJECTIVES

To impart knowledge on

1. To understand the basic structure and operation of a digital computer.
2. To learn the design of arithmetic unit.
3. To understand the basics of processing unit and control signals.
4. To study the pipelining architecture and its issues.
5. To study the hierarchical memory system.
6. To study the interfaces for I/O devices.

COURSE OUTCOMES

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

CO1: Work with the instruction set of given architecture

CO2: Design the processing unit and trace the execution sequence of an instruction.

CO3: Design a pipeline for consistent execution of instructions with minimum hazards

CO4: Analyze memory hierarchy and its impact on computer cost/performance

CO5: Design I/O circuits with suitable interfaces.

UNIT I:

BASIC STRUCTURE OF COMPUTERS

Functional units - Basic operational concepts - Performance - Instructions and instruction sequencing - Addressing modes - Arithmetic: Design of fast adders - Multiplication of unsigned and signed numbers - Fast Multiplication - Integer division - Floating point numbers and operations.

UNIT II:

BASIC PROCESSING UNIT


Fundamental concepts - Instruction Execution - Hardware Components - Instruction Fetch and Execution Steps - Control Signals - Hardwired control - CISC Styles Processors.

UNIT III:

PIPELINING

Basic concepts - Pipeline organization and issues - Data dependencies - Memory and branch delays - Performance evaluation - Pipelining in CISC processors.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **COMPUTER ORGANIZATION AND ARCHITECTURE**

Subject Code: **D3ESCOA**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	2.35	1.35									2.05			2.35	2.17
CO2	2.25	1.47											2.74	2.35	1.86
CO3	1.75	2.25	2.35	1.58											1.98
CO4	1.43	2.85	1.95	1.74											1.99
CO5	1.26	2.54	1.75	2.45											2.00
PO Attainment	1.81	2.09	2.02	1.92	-	-	-	-	-	*	2.05	*	2.74	2.35	2.00


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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

L/T/P/C

3/0/0/3

DATA STRUCTURES (D63PC1)

COURSE OBJECTIVES

To impart knowledge on

1. To study the design and applications of linear ADTs such as List, Stack and Queue.
2. To understand the various non-linear data structures like binary tree, binary search tree, AVL, Splay and B-tree.
3. To study the design and applications of various Heap Structures
4. To learn the various indexing techniques to avoid collision.
5. To understand the graph ADT and its applications.

COURSE OUTCOMES

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

CO1: Implement the various linear data structures using arrays and pointers

CO2: Implement the different non-linear data structures

CO3: Develop the various heap structures.

CO4: Work with searching and hashing techniques.

CO5: Apply traversal algorithms in graph.

UNIT I:

LINEAR DATA STRUCTURES

Abstract Data Type (ADT) – List – Array and linked List Implementation – Doubly Linked List- Circularly Linked List – Applications– Stack: Model – Array and linked List Implementation – Applications- Queue: Model – Array and linked List Implementation – Applications.

UNIT II:

NON-LINEAR DATA STRUCTURES – TREES I

Trees – Implementation- Tree traversal with application- Binary trees – Implementation- Expression tree – Threaded binary trees – Binary Search Tree – Applications of trees – AVL trees- Generic Programming.

UNIT III:

NON-LINEAR DATA STRUCTURES – TREES II

Splay trees –Red Black Trees- B-tree – Priority queue –Model – Implementation- Binary heap – Min heap – d-heap-Leftist heap –Skew heap- Applications of Priority Queues.

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: DATA STRUCTURES

Subject Code: D63PC1

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	2.00	1.65									1.35		2.02	2.98	2.00
CO2	2.95	2.97													2.96
CO3	1.35	2.45	2.97	1.37				2.96							2.22
CO4	1.65	2.75	1.35	1.76											1.88
CO5	1.25	2.90	1.46	2.45											2.02
PO Attainment	1.84	2.54	1.93	1.86	-	-	-	2.96	-	-	1.35	-	2.02	2.98	2.21


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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

L/T/P/C
3/0/0/3

OBJECT ORIENTED PROGRAMMING THROUGH JAVA (D63PC2)

COURSE OBJECTIVES

To impart knowledge on

- To comprehend the art of programming and in particular the structure and meaning of basic Java programs
- To study exception handling and generic classes and methods in Java
- To enable the students to understand the concepts of Stream and Files
- To enable the students to create GUI applications and perform event handling functionalities

COURSE OUTCOME

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

- Develop new classes that inculcates pure object oriented concepts
- Create classes that can handle any generic data type and handles exceptions
- Create application program using Streams and File concept
- Build application programs with Graphical User Interface (GUI)
- Design multithreaded programs in java.

UNIT I:

OBJECT ORIENTED PROGRAMMING CONCEPTS


Class Fundamentals - Using predefined classes - Defining own class - Object reference - Constructors - Access control - Modifiers - Methods - Dealing with Static Members and Methods - Method Overloading - Abstract Class - Interfaces - Importing Packages - Understanding Class Path - Implementing Packages - Java Doc Comments - Inheritance - Polymorphism - Object - Cosmic Super Class - Reflection - Object Cloning - Nested Class - Inner Class - Anonymous Classes

UNIT II:

EXCEPTION/ERROR HANDLING AND GENERICS

Garbage Collection - Finalize () Method - Exceptions & Errors - Types of Exception - Control Flow In Exceptions - Use of try - catch - finally - throw - throws in Exception Handling - In-built and User Defined Exceptions - Checked and Un Checked Exceptions - Defining Generic Class - Generic Methods - Restrictions and Limitations - Inheritance Rules for Generic Types - Wild Card Types - Reflection and Generics - Collection Framework - Collection Types - Map/List/Set Implementations - Array List / Linked List / Hash Set Collection Classes-Lambda Expressions - Method references functional interfaces- Optional class.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24



Subject Name: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Subject Code: D63PC2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.35	1.20											1.91		1.82
CO2	2.75	2.95											2.02	2.61	2.85
CO3	1.50	2.25	2.25	1.25				2.25							1.90
CO4	1.25	2.75	2.00	1.25											1.81
CO5	2.00	2.35	1.70	2.35											2.10
PO Attainment	1.77	2.30	1.98	1.62	-	-	-	2.25	-	-	1.91	-	2.02	2.61	2.40


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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

L/T/P/C
0/0/2/1

DATA STRUCTURES LAB (D63PC3)

COURSE OBJECTIVES

To impart knowledge on

1. To study the design and applications of linear ADTs such as List, Stack and Queue.
2. To understand the various non-linear data structures like binary tree, binary search tree, AVL, Splay and B-tree.
3. To study the design and applications of various Heap Structures
4. To learn the various indexing techniques to avoid collision.
5. To understand the graph ADT and its applications.

COURSE OUTCOMES

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

CO1: Implement the various linear data structures using arrays and pointers

CO2: Implement the different non-linear data structures

CO3: Develop the various heap structures.

CO4: Work with searching and hashing techniques.


CO5: Apply traversal algorithms in graph.

LIST OF EXERCISES

- 1 Lists and its applications
- 2 Stacks and its applications
- 3 Queues and its applications
- 4 Binary Search tree
- 5 Set ADT
- 6 AVL tree
- 7 Splay tree
- 8 Red black tree
- 9 Binary Heap
- 10 Leftist heap
- 11 Graph traversal and spanning tree
- 12 Hashing

TEXT BOOK

1. Mark Allen Weiss, "Data Structures and Algorithm Analysis in C", Pearson Education Asia, Second edition, 2012.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24



Subject Name: DATA STRUCTURES LAB

Subject Code: D63PC3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.70	1.45			2						1.50		2.75	2.50	1.98
CO2	2.45	2.20			2										2.33
CO3	1.60	2.95	2.60	1.50	2-2										2.16
CO4	1.07	2.65	1.60	2.00	1-7	2.75									2.01
CO5	1.64	2.75	1.45	2.07	1-7										1.98
PO Attainment	1.69	2.40	1.88	1.86	1-9	2.75	-	-	-	-	1.50	-	2.75	2.50	2.09

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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

L/T/P/C
0/0/3/1.5

OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (D63PC4)

COURSE OBJECTIVES

To impart knowledge on

- To Effectively use the Java SDK environment to create, debug and run simple Java programs
- To understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc
- Understand how to create graphical interfaces
- Use Multithreading and Generics in java programs

COURSE OUTCOME

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

- Construct Java Programs using Fundamental Programming Structures
- Create classes that conform to the Interface
- Build Java Programs that use Graphical User Interface (GUI) with IO Streams
- Plan novel ways of using Generics and Multithreaded programming in Java


PRACTICAL EXPERIMENTS

1. Basic Java programs.
2. Programs using Interfaces.
3. Programs using Packages.
4. Programs using Function overloading.
5. Programs using Inheritance.
6. Programs using Files and IO streams.
7. Programs using Exception handling mechanism.
8. Programs using Generics.
9. Programs using AWT.
10. Programs using Swing.
11. Programs using JDBC.
12. Programs using Multi threading

TEXT BOOK

1. Cay S. Horstmann, Gary Cornell, "Core Java: Volume I – Fundamentals", Prentice Hall, Tenth Edition, 2015.
2. Cay S. Horstmann, Gary Cornell, "Core Java: Volume II – Fundamentals", Prentice Hall, Tenth Edition, 2016


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **OBJECT ORIENTED PROGRAMMING LAB**

Subject Code: **D63PC4**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment in
CO1	1.25	1.95									1.60		2.60	2.70	2.02
CO2	2.50	2.96													2.73
CO3	1.60	2.45	2.65	1.75	2.80				2.65						2.32
CO4	2.00	2.50	1.50	1.54	2.35										1.98
CO5	1.50	2.80	1.80	2.80	2.00										2.18
PO Attainment	1.77	2.53	1.98	2.03	2.38	-	-	-	2.65	-	1.60	-	2.60	2.70	2.24

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INFORMATION TECHNOLOGY

B.Tech III SEMESTER

L/T/P/C

0/0/2/1

IT ESSENTIALS LAB (D3ESITE)

COURSE OBJECTIVES

To impart knowledge on

- To learn Markup languages and style sheets for web design
- To get familiarized with JavaScript
- To demonstrate the usage of blogs
- To understand the working of databases


COURSE OUTCOME


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

- Design web page using Markup languages and cascading style sheets
- Design a web page using JavaScript
- Develop a blog using word press
- Create a database and visualize it

PRACTICAL EXPERIMENTS

1. Implement basic tags in HTML5
2. Implement form validation using HTML5
3. Create a webpage with image, audio and video in HTML5
4. Implement form validation using CSS
5. Develop a web page using CSS
6. Implement basic JavaScript programs
7. Implement functions and event handling in JavaScript
8. Implement form validation using JavaScript
9. Create a blog using word press
10. Develop a database application using MS Access and visualize using QLIK


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: IT ESSENTIALS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.63	1.29			1.29										1.75
CO2	2.25	2.14			2.14						1.62		2.14	2.08	2.20
CO3	1.15	2.91	2.28	1.94	1.91			1.52							1.96
CO4	1.98	2.54	1.34	1.32	2.54										1.80
CO5	1.24	2.24	1.47	2.51	2.24										1.87
PO Attainment	1.65	2.22	1.70	1.92	2.22	-	-	1.52	-	-	1.62	-	2.14	2.08	1.91

Subject Code: D3ESITE


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INFORMATION TECHNOLOGY

B.Tech IV SEMESTER

L/T/P/C

3/0/0/3

WEB TECHNOLOGIES (D64PC6)

COURSE OBJECTIVES

To impart knowledge on

- To understand and practice HTML, CSS and Javascript
- To understand and practice Server-side JS Framework
- To work with Express, a Node.js web application framework
- To understand the concepts of TypeScript and practice Client-side JS Framework.
- To work with built-in services and to create our own customized Services

COURSE OUTCOME

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

- Create an interactive Website
- Acquire knowledge about Server-side JS framework
- Implement Express middleware.
- Familiarize with Typescript
- Explore Angular features and create component based web pages using them

UNIT I:

HTML5, CSS AND JAVASCRIPT

Learning HTML - Make it Prettier with CSS - Loading background images into HTML elements - Organizing your files - Learning JavaScript - Variables - Controlling HTML and CSS - Organizing your JavaScript code.

UNIT II:

INTRODUCTION TO NODE.JS

Understanding Node.js - Installing Node.js - Working with Node Packages - Creating a Node.js Application - Writing Data to the Console - Understanding the Node.js Event Model - Working with JSON - Processing URLs - Processing Query Strings and Form Parameters - Understanding Request, Response, and Server Objects - Implementing HTTP Clients and Servers in Node.js - Implementing HTTPS Servers and Clients

UNIT III:

EXPRESS IN NODE.JS

Getting Started with Express - Configuring Routes - Using Requests Objects - Using Response Objects - Setting Headers Setting the Status Sending Response Implementing a Template Engine - Understanding Middleware - Using the query Middleware - Serving Static Files - Handling POST Body Data Sending and Receiving Cookies - Implementing Sessions - Applying Basic HTTP Authentication - Implementing Session Authentication - Creating Custom Middleware

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **WEB TECHNOLOGIES**

Subject Code: **D64PC6**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.54	1.90									1.20		2.95	2.20	1.96
CO2	2.85	2.65													2.75
CO3	1.50	2.30	2.35	2.00											2.04
CO4	1.90	2.40	1.75	1.80											1.96
CO5	1.80	2.50	2.80	2.45											2.39
PO Attainment	1.92	2.35	2.30	2.08	-	-	-	-	-	-	1.20	-	2.95	2.20	2.22


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INFORMATION TECHNOLOGY

B.Tech IV SEMESTER

L/T/P/C
3/0/0/3

OPERATING SYSTEMS (D64PC7)

COURSE OBJECTIVES

- To gain insight knowledge on performance and working of an operating system.

COURSE OUTCOMES

The student will be able to

- Able to understand the basic overview of operating systems and system calls
- Ability to solve synchronization problem with Two-Process solution, Peterson's solutions and apply the concepts of minimization of turnaround time, waiting time and response time to find CPU scheduling Problems
- Apply the page replacement algorithms to identify the page fault in the given string.
- Able to distinguish between file access methods and allocation methods.
- Ability to apply Bankers Algorithm to avoid deadlocks and change access controls to protect files.

UNIT I

OVERVIEW

Introduction-Operating system objectives, User view, System view, Operating system definition, Computer System Architecture, OS Structure, OS Operations, Process Management, Memory Management, Storage Management, Computing Environments. Operating System services, User and OS Interface, System Calls, Types of System Calls, System Programs, Operating System Design and Implementation.

UNIT II

CPU SCHEDULING

Concepts-The Process, Process State, Process Control Block, Threads, Process Scheduling-Scheduling Queues, Schedulers, Context Switch, Operations on Processes, Inter-process communication-ordinary pipes and named pipes, message queues.

Process Scheduling: Basic concepts, Scheduling Criteria, Scheduling algorithms, Multiple-Processor Scheduling, Real-Time Scheduling, Thread scheduling. Process Synchronization, Background, The Critical Section Problem, Peterson's solution, Synchronization Hardware, Semaphores, Classic Problems of Synchronization, Monitors.

UNIT III

MEMORY MANAGEMENT

Memory Management Strategies- Background, Swapping, Contiguous Memory Allocation, Segmentation, Paging, Structure of Page Table. **Virtual Memory**


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **OPERATING SYSTEMS**

Subject Code : **D64PC7**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	2.20	1.50									1.60		2.80	1.40	1.90
CO2	2.40	2.90													2.65
CO3	1.50	2.30	2.30	1.45					2.40						1.99
CO4	2.45	2.20	2.75	1.80											2.30
CO5	1.90	2.65	1.80	2.40											2.19
PO Attainment	2.09	2.31	2.28	1.88	-	-	-	-	2.40	-	1.60	-	2.80	1.40	2.21

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INFORMATION TECHNOLOGY

B.Tech IV SEMESTER

L/T/PC
3/0/0/3

DATABASE MANAGEMENT SYSTEMS (D64PC8)

COURSE OBJECTIVES

To impart knowledge on

- To correlate the role of database management systems in information technology applications within organization
- To sketch basic database concepts, including the structure and operation of the relational data model
- To articulate the use of contemporary logical design methods and tools for databases
- To understand the relationship between Transaction Processing and Databases
- To study query processing and optimization

COURSE OUTCOME

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

- Explore the basic concepts of Database system and design database for enterprise applications using Entity Relationship Diagrams
- Analyze the consequence of calculus in designing relational model and create database using query languages with constraints and security
- Normalize databases to reduce cost due to redundancy constraints
- Assess different types of scheduling and recovery techniques for concurrent transactions
- Validate the query evaluation plan and optimize to reduce computational complexity

UNIT I


DATABASE FUNDAMENTALS


Purpose of Database Systems – View of Data - Database System Architecture – Database Users and Administrators – Data Models – Structure of Network Model – Structure of Hierarchical Model – Entity Relationship Model – Constraints - Entity Sets – Attributes – Keys - E-R Diagrams - Design Issues - Extended E-R Features - Introduction of Relational Model – E-R Reduction to Relational Schemas.

UNIT II

RELATIONAL DATABASE MODEL

Structure of Relational Databases – Schema Diagrams – Relational Query Languages - Relational Algebra – Queries in SQL – Set Operations – Aggregate Operations – Joins – Views – Integrity Constraints – Authorization – Advanced SQL – Functions and Procedures – Triggers – Assertion – Embedded SQL – Dynamic SQL.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: DATABASE MANAGEMENT SYSTEMS

Subject Code: D64PC8

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.60	1.30									1.70		2.60	2.90	2.02
CO2	2.20	2.60													2.40
CO3	2.00	2.80	2.60	1.45											2.21
CO4	1.60	2.60	1.75	1.50											1.86
CO5	1.40	2.85	1.50	2.75											2.13
PO Attainment	1.76	2.43	1.95	1.90	-	-	-	-	-	-	1.70	-	2.60	2.90	2.12

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INFORMATION TECHNOLOGY

B.Tech IV SEMESTER

L/T/P/C
3/1/0/4

DESIGN AND ANALYSIS OF ALGORITHMS (D64PC9)

COURSE OBJECTIVES

- To analyze performance of algorithms.
- To choose the appropriate data structure and algorithm design method for a specified application.
- To understand how the choice of data structures and algorithm design methods impacts the performance of programs.
- To solve problems using algorithm design methods such as the greedy method, divide and conquer, dynamic programming, backtracking and branch and bound.
- To understand the differences between tractable and intractable problems.
- To introduce P and NP classes.

COURSE OUTCOMES

- Able to analyze the performance of the algorithm in terms of time and space & apply the concept of divide & conquer method on various examples.
- Able to find out the solution for the given example problems by using Backtracking & apply the concept of graph problems on various examples.
- Able to solve the problems with Greedy method for the given example problems.
- Able to solve optimization problems using Dynamic Programming.
- Able to solve the given example problems using Branch & Bound and design the deterministic & nondeterministic algorithms and categorize them as a Np-hard and Np-complete problems accordingly.

UNIT I


INTRODUCTION


Introduction: Algorithm definition, Algorithm specification, Performance analysis.
Divide and conquer- General method, applications - Binary search, Merge sort, Quick sort, Strassen's Matrix Multiplication.

UNIT II

DISJOINT SET OPERATIONS

Disjoint set operations, union and find algorithms, AND/OR graphs, Graph Traversals, Connected Components and Spanning trees, Bi-connected components Backtracking- General method, applications- The 4-queen problem, The 8-queen problem, sum of subsets problem, graph coloring, Hamiltonian cycles.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **DESIGN AND ANALYSIS OF ALGORITHMS**

Subject Code: **D64PC9**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.20	1.35									1.60		2.75	2.40	1.86
CO2	2.30	2.75													2.53
CO3	1.45	2.90	2.60	1.65			2.45		2.60						2.28
CO4	2.00	2.30	1.75	1.50											1.89
CO5	1.65	2.50	1.65	2.90											2.18
PO Attainment	1.72	2.36	2.00	2.02	-	-	2.45	-	2.60	-	1.60	-	2.75	2.40	2.14

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INFORMATION TECHNOLOGY

B.Tech IV SEMESTER

L/T/P/C

0/0/2/1

OPERATING SYSTEMS LAB (D64PC10)

COURSE OBJECTIVES

- To write shell scripts to solve problems.
- To implement some standard Linux utilities such as ls,cp etc using system calls.
- To understand the operating System functionalities


COURSE OUTCOMES


- Ability to understand the Linux environment
- Ability to perform the file management and multiple tasks using shell scripts in Linux Environment.
- Able to implement various Scheduling algorithms.
- Able to detect and solve deadlocks.

PRACTICAL EXPERIMENTS

LINUX

1. Write a shell script that accepts a file name, starting and ending line numbers as arguments and displays all the lines between the given line numbers.
2. Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.
3. Write a shell script that displays a list of all the files in the current directory to which the user has read, write and execute permissions.
4. Write a shell script that receives any number of file names as arguments checks if every argument supplied is a file or a directory and reports accordingly. Whenever the argument is a file, the number of lines on it is also reported.
5. Write a shell script that accepts a list of file names as its arguments, counts and reports the occurrence of each word that is present in the first argument file on other argument files.
6. Write a shell script to list all of the directory files in a directory.
7. Write a shell script to find factorial of a given integer.
8. Write an awk script to count the number of lines in a file that do not contain vowels.
9. Write an awk script to find the number of characters, words and lines in a file.
10. Implement in C the following Linux commands using System calls a) cat b) mv


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: OPERATING SYSTEMS LAB

Subject Code: D64PC10

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.30	1.50									1.45		2.30	2.75	1.86
CO2	2.90	1.75													2.33
CO3	1.80	2.95	2.60	1.75	1.50			2.65							2.21
CO4	1.45	2.50	1.70	1.60	2.60										1.97
CO5	1.40	2.50	1.60	2.95	2.65										2.22
PO Attainment	1.77	2.24	1.97	2.10	2.25	-	-	2.65	-	-	1.45	-	2.30	2.75	2.12

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INFORMATION TECHNOLOGY

B.Tech IV SEMESTER

L/T/P/C
0/0/3/1.5

DATABASE MANAGEMENT SYSTEMS LAB (D64PC11)

COURSE OBJECTIVES

To impart knowledge on

- To persuade different issues involved in the design and implementation of a database system for real time applications
- To speculate sophisticated queries to extract information from the large datasets available
- To schematize several database projects related to an information technology problem based on given requirements

COURSE OUTCOME


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

- Populate and query a database using SQL DML/DDL commands
- Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS
- Programming PL/SQL including stored procedures, stored functions, cursors, packages
- Design and build a GUI application using any programming language as front end

PRACTICAL EXPERIMENTS

1. Database Design using ER Diagram and Apply Normalization
2. Data Definition Language Commands
3. Data Manipulation Language Commands
4. Data Control Language, Nested Queries
5. Set operators and Join Queries
6. Views and Indexes
7. PL/SQL – Triggers
8. PL/SQL – Functions
9. PL/SQL – Procedures
10. OORDBMS
11. Front end Tools
12. Form / Menu Design / Report
13. OLTP concepts


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: DATABASE MANAGEMENT SYSTEM LAB

Subject Code: : D64PC11

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.60	1.45									1.60		2.75	2.80	2.04
CO2	2.45	2.60													2.53
CO3	1.50	2.30	2.75	1.60	2.30										2.09
CO4	2.40	2.60	1.60	2.00	2.60										2.24
CO5	1.60	2.90	1.80	2.45	2.80										2.31
PO Attainment	1.91	2.37	2.05	2.02	2.57	-	-	-	-	-	1.60	-	2.75	2.80	2.24

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INFORMATION TECHNOLOGY

B.Tech. IV SEMESTER

L/T/P/C
0/0/3/1.5

WEB TECHNOLOGIES LAB (D64PC12)

COURSE OBJECTIVES

To impart knowledge on

- To understand and work with HTML, CSS and Javascript
- To understand and practice Server-side JS Framework
- To work with Express, a Node.js web application framework
- To understand the concepts of TypeScript and practice Client-side JS Framework.
- To work with built-in services and to create our own customized Services


COURSE OUTCOME


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

- Create an interactive Webpage
- Build a Webpage and use Node.js as Server Side JS framework.
- Create component based web pages using Angular

PRACTICAL EXPERIMENTS

1. Create an interactive Personal Webpage
2. Build a simple command line tool using Node.js which allows us to make a request to an API and store the data in a text file
3. Perform CRUD operations with security mechanisms
4. Write custom middleware to handle errors
5. Move routing logic into a separate file using the express router
6. Serving JSON with Express.js.
7. Use built-in Angular directives to show and hide elements and display lists of data.
8. Create Angular components and use one-way data binding for read-only data.
9. Add editable fields to update a model with two-way data binding.
10. Bind component methods to user events, like keystrokes and clicks and Format data with pipes.
11. Create a shared service and Use routing to navigate among different views and their components.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: WEB TECHNOLOGIES LAB

Subject Code: D64PC12

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.63	1.29			1.29						1.62		2.14	2.08	1.75
CO2	2.25	2.14			2.14										2.20
CO3	1.15	2.91	2.28	1.94	2.91			1.52							1.96
CO4	1.98	2.54	1.34	1.32	2.54										1.80
CO5	1.24	2.24	1.47	2.51	2.24										1.87
PO Attainment	1.65	2.22	1.70	1.92	2.22	-	-	1.52	-	-	1.62	-	2.14	2.08	1.91

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SOFTWARE ENGINEERING - C65PC1

B. Tech. V Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. To understanding of software process models such as waterfall and evolutionary models.
2. To understanding of software requirements and SRS document.
3. To understanding of different software architectural styles.
4. To understanding of software testing approaches such as unit testing and integration testing
5. To understanding on quality control and how to ensure good quality software.

Course Outcomes:


1. An ability to identify and apply suitable process patterns and process models accordingly.
2. Able to identify requirements, apply requirements engineering process and design system models.
3. Designing Architecture to acquire knowledge of building an application and use of UML diagrams.
4. Able to test software by applying various testing strategies and product metrics to measure the product.
5. Assessing risk factors by formulating risk management and to assess the quality of software.


UNIT I

Introduction to Software Engineering: The evolving role of software, Changing Nature of Software, legacy software, Software myths.

A Generic view of process: Software engineering- A layered technology, a process framework, The Capability Maturity Model Integration (CMMI), Process patterns, process assessment, personal and team process models.

Prescriptive Process models: The waterfall model, incremental process models, evolutionary process models.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **SOFTWARE ENGINEERING**

Subject Code: **C65PC1**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainme nt
CO1	2.41	1.35									1.85		2.63	2.65	2.18
CO2	1.45	1.36													1.41
CO3	2.47	2.53	2.74	1.63											2.34
CO4	1.48	2.56	1.49	1.26											1.70
CO5	2.14	2.69	1.47	2.35											2.16
PO Attainment	1.99	2.10	1.90	1.75	-	-	-	-	-	-	1.85	-	2.63	2.65	1.96


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PYTHON PROGRAMMING - C65PC2

B. Tech. V Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. To understand the fundamentals of Python Programming concepts and its applications
2. To improve problem solving skills using control structures and lists.
3. To understand the basics of object- oriented concepts using python.
4. Apply string handling to solve real-time problems.
5. Design and implement programs using functions.

Course Outcomes:

1. Understand and comprehend the basics of python programming.
2. Express different conditional and decision making statements used to develop python applications.
3. Learn and implement various data structures provided by python library including string, list, dictionary and its operations etc
4. Define and demonstrate the use of the built-in functions and better usage of string methods in the development of python programming.
5. Develop real-world applications by using various object oriented programming concepts.

UNIT I

INTRODUCTION TO PYTHON Introduction to Python: Python Identifiers, Keywords, Data types in python: built-in data types, bool data type, sequences, sets. Input and Output statements, Operators: arithmetic operators, assignment operators, comparison operators, logical operators, identity operators, membership operators, bitwise operators.

UNIT II

CONTROL STRUCTURES Conditional Control structures: Conditional blocks using if statement, if-else statement, else if statement, Range function. Loops: for loops, Nested for loop, while loop, pass, continue, break statements.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: PYTHON PROGRAMMING

Subject Code: C65PC2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.09	1.09													1.74
CO2	2.63	2.94									1.91		2.02	2.61	2.79
CO3	1.31	2.07	2.21	1.08				2.14							1.76
CO4	1.07	2.64	1.94	1.06											1.68
CO5	1.98	2.31	1.59	2.27											2.04
PO Attainment	1.62	2.21	1.91	1.47	-	-	-	2.14	-	-	1.91	-	2.02	2.61	2.00

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COMPILER DESIGN- C65PC3

B. Tech. V Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. To understand the various phases in the design of a compiler.
2. To understand the design of top-down and bottom-up parsers.
3. To understand syntax directed translation schemes.
4. To introduce lex and yacc tools.
5. To learn to develop algorithms to generate code for a target machine.

Course Outcomes:

1. Ability to design, develops, and implements a compiler for any language.
2. Able to use lex and yacc tools for developing a scanner and a parser.
3. Able to design and implement LL and LR parsers.
4. Able to design algorithms to perform code optimization in order to improve the performance of a program in terms of space and time complexity.
5. Ability to design algorithms to generate machine code

UNIT - I


Introduction: Language Processors, the structure of a compiler, the science of building a compiler, programming language basics.

Lexical Analysis: The Role of the Lexical Analyzer, Input Buffering, Recognition of Tokens, The Lexical-Analyzer Generator Lex, Finite Automata, From Regular Expressions to Automata, Design of a Lexical-Analyzer Generator, Optimization of DFA-Based Pattern Matchers.

UNIT - II

Syntax Analysis: Introduction, Context-Free Grammars, Writing a Grammar, Top-Down Parsing, Bottom-Up Parsing, Introduction to LR Parsing: Simple LR, More Powerful LR Parsers, Using Ambiguous Grammars, Parser Generators.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: **COMPIER DESIGN**

Subject Code: **C6SPC3**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	2.45	1.45									1.70		2.40	2.90	2.18
CO2	2.45	2.50													2.48
CO3	2.60	1.60	2.50	1.30											2.00
CO4	1.65	1.80	1.90	1.70											1.76
CO5	1.96	2.60	2.70	2.60											2.47
PO Attainment	2.22	1.99	2.37	1.87	-	-	-	-	-	-	1.70	-	2.40	2.90	2.18


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COMPUTER NETWORKS - C65PC4

B. Tech. V Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. To introduce the fundamental various types of computer networks.
2. To demonstrate the TCP/IP and OSI models with merits and demerits.
3. To explore the various layers of OSI Model.
4. To introduce UDP and TCP Models.

Course Outcomes:

1. Able to understand and explore the basics of data communication.
2. Able to understand data link layer with transmission error to provide a well defined interface to the network layer.
3. Classify the routing protocols and analyzes how to assign the IP addresses for a given network.
4. Able to understand to perform end to end services in the transport layer.
5. Ability to access the global information about services on the Internet.


UNIT – I


Introduction: Data Communications, Networks, The Internet, Protocols and Standards, Layered Tasks, The OSI model, Layers in the OSI Model, TCP/IP, Addressing, **Physical layer:** Transmission modes, Multiplexing, Transmission Media, Switching - Circuit Switched Networks, Datagram Networks, Virtual Circuit Networks.

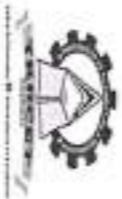
UNIT – II

Data link layer: Introduction, Error Detection and Correction, Framing, Flow and Error Control, Noiseless Channels, Noisy Channels, HDLC, Point to Point Protocols.

Multiple Access: Random Access, ALOHA, CSMA, CSMA/CD, CSMA/CA, Controlled access, Channelization.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: COMPUTER NETWORKS

Subject Code: C6SPC4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainme nt
CO1	1.70	1.40									1.50		2.20	2.40	1.84
CO2	2.60	2.60													2.60
CO3	2.50	2.20	2.30	1.60											2.15
CO4	1.75	2.50	1.60	1.50											1.84
CO5	1.45	2.75	1.75	2.50											2.11
PO Attainment	2.00	2.29	1.88	1.87	-	-	-	-	-	-	1.50	-	2.20	2.40	2.11

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OBJECT ORIENTED ANALYSIS AND DESIGN - C65PC5

B. Tech. V Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. Concisely define the following key terms: class, object, state, behavior, object class, class diagram, object diagram, operation, encapsulation, constructor operation, query operation, update operation, scope operation, association, association role, multiplicity, association class, abstract class, concrete class, class-scope attribute, abstract operation, method, polymorphism, overriding, multiple classification, aggregation, and composition.
2. State the advantages of object-oriented modeling vis-à-vis structured approaches.
3. Model a real-world application by using a UML class diagram.
4. Recognize when to use generalization, aggregation, and composition relationships.
5. Specify different types of business rules in a class diagram.

Course Outcomes:

Graduate can able to take up the case studies and model it in different views with respect user requirement such as use case, logical, component and deployment and etc, and preparation of document of the project for the unified Library application.

UNIT- I

Introduction to UML: Importance of modelling, principles of modelling, object oriented modelling, conceptual model of the UML, Architecture, Software Development Life Cycle.

UNIT- II

Basic Structural Modelling: Classes, Relationships, common Mechanisms, and diagrams. Advanced Structural Modelling: Advanced classes, advanced relationships, Interfaces, Types and Roles, Packages. Class & Object Diagrams: Terms, concepts, modelling techniques for Class & Object Diagrams.

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: OBJECT ORIENTED ANALYSIS AND DESIGN

Subject Code: C65PC5

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.60	1.50									1.76		2.75	2.40	2.00
CO2	2.15	2.30													2.23
CO3	1.29	2.50	2.65	1.75											2.05
CO4	2.45	2.90	1.95	2.00											2.33
CO5	2.30	2.60	1.55	1.60											2.01
PO Attainment	1.96	2.36	2.05	1.78	-	-	-	-	-	-	1.76	-	2.75	2.40	2.12


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OBJECT ORIENTED ANALYSIS AND DESIGN LAB - C65PC7

B. Tech. V Semester

L/T/P/C
0/0/3/1.5

Course Objectives:

1. Able to identify the requirements specification for an intended software system.
2. Demonstrate how to draw the UML diagrams for the given specification.
3. Illustrate to map the design properly to code.

Course Outcomes:


Upon completion of this course, the students will be able to:

1. Perform Object Oriented analysis and design for a given problem specification.
2. Identify and map basic software requirements in UML mapping.
3. Improve the software quality using design patterns and to explain the rationale behind applying specific design.

A) Students have to draw the following diagrams using UML for an ATM system whose description is given below. UML diagrams to be developed are:

- Use Case Diagram.
- Class Diagram.
- Sequence Diagram.
- Collaboration Diagram.
- State Diagram
- Activity Diagram.
- Component Diagram
- Deployment Diagram.
- Test Design.
- Description for an ATM System


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: OBJECT ORIENTED ANALYSIS AND DESIGN LAB

Subject Code: C65PC7

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.95	1.54									1.02			2.98	1.98
CO2	2.85	2.95											2.42	2.98	2.90
CO3	1.12	2.17	2.84	1.16	1.23			2.94							1.91
CO4	1.54	2.14	1.02	1.66	2.14										1.70
CO5	1.14	2.84	1.19	2.36	2.25										1.96
PO Attainment	1.72	2.33	1.68	1.73	1.87	-	-	2.94	-	-	1.02	-	2.42	2.98	2.09


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PYTHON PROGRAMMING LAB - C65PC8

B. Tech. V Semester

L/T/P/C

0/0/3/1.5

Course Objectives:

To Write and execute the programs based on operators, functions, simple data structures, basic packages using python programming constructs.

Course Outcomes:


After completion of course the students will able to

1. Implement the fundamental programming elements: operators, statements, conditional and control flow statements.
2. Use predefined functions and build functions.
3. Use python modules and implement data structure to solve various computing problems.

List of Programs:

1. Write a python program to print —Hello Worldl.
2. Write a python program to demonstrate different number data types in python.
3. Write a program to perform different Arithmetic Operations on numbers in Python.
4. Write a program to create, concatenate and print a string and accessing sub-string from a given string.
5. Write a python script to print the current date?
6. Write a program to create, append, and remove lists in python.
7. Write a program to demonstrate working with tuples in python
8. Write a program to demonstrate working with dictionaries in python.
9. Write a python program to find largest of three numbers.
10. Write a Python program to convert temperatures to and from Celsius, Fahrenheit.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: PYTHON PROGRAMMING LAB

Subject Code: C65PC8

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.21	1.41								1.68	1.02		2.12	2.68	1.69
CO2	2.85	2.63						2.56							2.74
CO3	1.63	2.96	2.21	1.65	1.52										2.09
CO4	1.32	2.14	1.52	1.58	2.49										1.81
CO5	1.01	2.24	1.32	2.85	2.40										1.96
PO Attainment	1.60	2.28	1.68	2.03	2.14	-	-	2.56	-	1.68	1.02	-	2.12	2.68	2.06

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T K R COLLEGE OF ENGINEERING & TECHNOLOGY
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DEPARTMENT OF INFORMATION TECHNOLOGY –R20

FUNDAMENTALS OF MANAGEMENT

Course code- CHSM2

B. Tech: VI Semester

L/T/P/ C

3/0/0/ 3

COURSE OBJECTIVE:

To understand the Management Concepts, applications of Concepts in Practical aspects of business and development of Managerial Skills.

COURSE OUTCOME:

The students understand the significance of Management in their Profession. The various Management Functions like Planning, Organizing, Staffing, Leading, Motivation and Control aspects are learnt in this course. The students can explore the Management Practices in their domain area.

UNIT – I:

Introduction to Management: Definition, Nature and Scope, Functions, Managerial Roles, Levels of Management, Managerial Skills, Challenges of Management; Evolution of Management- Classical Approach- Scientific and Administrative Management; The Behavioral approach; The Quantitative approach; The Systems Approach; Contingency Approach, IT Approach.

UNIT – II:

Planning and Decision Making: General Framework for Planning - Planning Process, Types of Plans, Management by Objectives; Development of Business Strategy. Decision making and Problem Solving - Programmed and Non Programmed Decisions, Steps in Problem Solving and Decision Making; Bounded Rationality and Influences on Decision Making; Group Problem Solving and Decision Making, Creativity and Innovation in Managerial Work.

UNIT – III:

Organization and HRM: Principles of Organization: Organizational Design & Organizational Structures; Departmentalization, Delegation; Empowerment, Centralization, Decentralization, Recentralization; Organizational Culture; Organizational Climate and Organizational Change. Human Resource Management & Business Strategy: Talent Management, Talent Management Models and Strategic Human Resource Planning; Recruitment and Selection; Training and Development; Performance Appraisal.

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24



Subject Name: FUNDAMENTALS OF MANAGEMENT

Subject Code: CHSM2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.90	1.40						1.45	1.45	2.60	1.12		2.45	2.68	1.88
CO2	2.00	2.40													2.20
CO3	2.00	2.30	2.75	1.65			1.60								2.06
CO4	1.50	2.45	1.80	1.50											1.81
CO5	1.50	2.95	2.00	2.50											2.24
PO Attainment	1.78	2.30	2.18	1.88	-	-	1.60	1.45	1.45	2.60	1.12	-	2.45	2.68	2.04


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WEB TECHNOLOGIES – (C66PC1)

B. Tech. VI Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. To design Static web pages using HTML.
2. To introduce Client Side scripting with JavaScript and AJAX.
3. To introduce PHP language for Server Side Scripting.
4. To introduce XML and XML data with Java
5. To introduce server side programming with Java Servlets and JSP.

Course Outcomes:

1. Able to design a static web page using forms and frames in HTML.
2. Able to validate client side scripting using onClick (), onSubmit(), onChange() events in JavaScript.
3. Able to design a dynamic web page using PHP.
4. Able to construct a validation page which connects to a data base given and able to perform the DML functionalities by using mysqli_connect() ,mysqli_query(), mysqli_fetch_array(), mysqli_close() in PHP.
5. Analyze how to develop a well formed and valid xml document by using DTDs and Schemas which allows the validation of text elements.
6. Able to write server side program by using servlets for given problem and able to develop a connection between both the ends by doGet() and doPost() methods.& Develop JSP applications implementing Session Management and Database Connectivity.

UNIT-I


Introduction to HTML: HTML basic tags, Elements, Attributes, list, table, image, text links, forms, frames, Cascading style sheets, Simple AJAX application.


UNIT-II

Introduction to Java script: Java script language- declaring variables, scope of variables, operators, loops, functions, Java script objects, event handlers (on click, on submit etc.), Document Object Model.

UNIT-III

Introduction to PHP: Declaring variables, data types, arrays, strings, operators, expressions, Arrays, control structures, functions, Reading data from web form controls


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: WEB TECHNOLOGIES

Subject Code: C66PC1

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.65	2.00									1.30		2.90	2.30	2.03
CO2	2.95	2.80													2.88
CO3	1.70	2.60	2.45	2.10											2.21
CO4	2.00	2.60	1.90	1.95											2.11
CO5	2.00	2.70	2.90	2.65											2.56
PO Attainment	2.06	2.54	2.42	2.23	-	-	-	-	-	-	1.30	-	2.90	2.30	2.36


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B. Tech. VI Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. Translate user requirements into the overall architecture and implementation of new systems and manage project and coordinate with the client
2. writing optimized front end code HTML and Java Script
3. Design and implementation of Robust and scalable front end applications.

Course Outcomes:

1. Enumerate the Basic concepts of web & Markup Languages.
2. Develop web Applications using scripting Languages & Frameworks
3. Make use of Express JS and and Node JS Frameworks
4. Illustrate the uses of web services concepts like react js

UNIT I

Hibernate - An Introduction to Hibernate 3 , Integrating and Configuring Hibernate, Building a Simple Application ,The Persistence Life Cycle, An Overview of Mapping, Mapping with Annotations, Creating Mappings with Hibernate XML Files , Using the Session , Searches and Queries, Advanced Queries Using Criteria .

UNIT II

Spring - Springing into Action , Wiring beans, Advanced wiring(3.3,3.4), Building Spring web applications, Hitting the database with Spring and JDBC, Persisting data with object-relational mapping, Creating REST APIs with Spring MVC

UNIT III

Spring Boot - Spring Boot Introduction, Spring-boot basics, Spring MVC, Data Access

UNIT IV

React JS - Introduction to Meet React, <Hello World />: our first component , Data and data flow in React, Rendering and lifecycle methods in React, Working with forms in React, Integrating third-party libraries with React.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: STACK TECHNOLOGIES

Subject Code: C66PE3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.95	1.54									1.02		2.42	2.98	1.98
CO2	2.85	2.95													2.90
CO3	1.12	2.17	2.84	1.16	1.23			2.94							1.91
CO4	1.54	2.14	1.02	1.66	2.14										1.70
CO5	1.14	2.84	1.19	2.36	2.25										1.96
PO Attainment	1.72	2.33	1.68	1.73	1.87	-	-	2.94	-	-	1.02	-	2.42	2.98	2.09


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Course Objective:

Develop an ability to design and implement static and dynamic website, choose best technologies for solving web client/server problems, use appropriate client-side or Server-side applications

Course Outcomes:

Upon successful completion of this course, the students will be able to:

1. Create web pages using HTML and Cascading Styles sheets
2. Create dynamic web pages using JavaScript & Analyze a web page and identify its elements and attributes
3. Build web applications using PHP
4. Understand, analyze and apply the role of languages like HTML, CSS, XML, JavaScript, PHP and protocols in the workings of the web and web applications
5. Create XML documents and XML Schema.
6. Create web based applications using Servlets & JSP and establish a database connectivity using JDBC.

List of Programs:

1. Write a HTML code to design a simple timetable using table tag.
2. Write a HTML code to design a static college website that holds the complete information about the all departments.
3. Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient.
4. Write a JavaScript that calculates the squares and cubes of the numbers from 0 to 10 and outputs HTML text that displays the resulting values in an HTML table format.
5. Write a JavaScript code that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50pt it displays "TEXTSHRINKING" in BLUE color. Then the font size decreases to 5pt.
6. Design an XML document to store information about a student in TKR engineering college affiliated to JNTUH. The information must include USN, Name, and Name of the College, Branch, Year of Joining, and email id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: WEB TECHNOLOGIES LAB

Subject Code: : C66PCS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.09	1.54									1.53		2.32	1.69	1.63
CO2	2.43	2.87													2.65
CO3	1.87	2.86	2.76	1.86	2.64				2.34						2.39
CO4	2.32	2.43	1.79	1.45	2.09										2.02
CO5	1.98	2.56	1.75	2.32	2.53										2.23
PO Attainment	1.94	2.45	2.10	1.88	2.42	-	-	-	2.34	-	1.53	-	2.32	1.69	2.18


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ENGLISH DEPARTMENT

B.Tech III Yr

Course code: CHSE3

L/T/P/C

0 3 2

**ADVANCED ENGLISH COMMUNICATION SKILLS
LAB**

Course Objectives:

- To improve students' fluency in spoken English.
- To enable them to listen to English spoken at normal conversational speed
- To help students develop their vocabulary
- To read and comprehend texts in different contexts
- To communicate their ideas relevantly and coherently in writing
- To make students industry-ready
- To help students acquire behavioral skills for their personal and professional life
- To respond appropriately in different socio-cultural and professional contexts
- To sensitize the importance of Soft Skills and people skills

Course Outcomes:

- Acquire vocabulary and use it contextually
- Listen and speak effectively
- Develop proficiency in academic reading and writing
- Increase possibilities of job prospects
- Communicate confidently in formal and informal contexts
- Develop interpersonal communication skills

UNIT-I

Inter-personal Communication and Building Vocabulary – Starting a Conversation –

Responding Appropriately and Relevantly – Using Appropriate Body Language – Role Play in Different Situations – Synonyms and Antonyms, One-word Substitutes, Prefixes and Suffixes,


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: ADVANCED ENGLISH COMMUNICATION SKILLS LAB										Subject Code: CHSE3					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.30	1.50								1.75	1.40		2.30	2.70	1.83
CO2	2.95	2.70													2.83
CO3	1.80	2.95	2.30	1.70	1.30			2.65							2.12
CO4	1.60	2.30	1.60	1.70	2.49										1.94
CO5	1.30	2.40	1.60	2.85	2.40										2.11
PO Attainment	1.79	2.37	1.83	2.08	2.06	-	-	2.65	-	1.75	1.40	-	2.30	2.70	2.16

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DATA WAREHOUSING AND DATA MINING - C67PCI

B. Tech. VII Semester

L/T/P/C

3/0/0/3

Course Objective:

Study data warehouse principles and its working learn data mining concepts understand association rules mining. Discuss classification algorithms learn how data is grouped using clustering techniques.

Course Outcomes

1. Able to construct a data ware house for a given small scale organization by applying star, snow and flake constellation construction schemas..
2. Ability to perform the preprocessing of data and apply mining techniques on it.
3. Able to Apply the different techniques to generate frequent, closed and maximal itemsets for given transactional database
4. Able to compare Appriori and FP Growth algorithms in terms of complexity analysis.
5. Able to classify the given example dataset based on the given example learning knowledge by using different classification techniques and be able to compare those in terms of complexity.
6. Able to construct the clusters and find out the outliers by using different clustering techniques from the given dataset and be able to identify the differences between various algorithms in terms of complexity.

UNIT – I

Data Warehouse: Introduction to Data warehouse, Difference between operational database systems and data warehouses. Data warehouse Characteristics, Data warehouse Architecture and its Components, Extraction – Transformation – Loading, Logical (Multi – Dimensional), Data Modeling, Schema Design, Star and Snow – Flake Schema, Fact Consultation, Fact Table, Fully Addictive, Semi – Addictive, Non Addictive Measures; OLAP Cube, OLAP Operations, OLAP Server Architecture – ROLAP, MOLAP and HOLAP.

UNIT – II

Introducing to Data Mining : Introduction, What is Data Mining, Definition, KDD, Challenges, Data Mining Tasks, Data Preprocessing, Data Cleaning, Missing data, Dimensionality Reduction, Feature Subset Selection, Discretization and Binaryzation, Data Transformation; Measures of Similarity and Dissimilarity – Basics.

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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: DATA WAREHOUSING AND DATA MINING

Subject Code: C67PC1

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.65	1.50									1.60		2.40	2.80	1.99
CO2	2.50	2.50													2.50
CO3	1.50	2.90	2.80	1.60				2.30							2.22
CO4	1.65	2.40	2.00	1.90											1.99
CO5	1.55	2.30	2.00	2.30											2.04
PO Attainment	1.77	2.32	2.27	1.93	-	-	-	2.30	-	-	1.60	-	2.40	2.80	2.15

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INFORMATION SECURITY - C67PC2

B. Tech. VII Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. Explain the objectives of information security.
2. Explain the importance and application of each of confidentiality, integrity, authentication and availability.
3. Understand various cryptographic algorithms.
4. Understand the basic categories of threats to computers and networks.
5. Describe public-key cryptosystem.
6. Describe the enhancements made to IPv4 by IPSec.
7. Understand Intrusions and intrusion detection.
8. Discuss the fundamental ideas of public-key cryptography.
9. Generate and distribute a PGP key pair and use the PGP package to send an encrypted e-mail message.
10. Discuss Web security and Firewalls.

Course Outcomes:


1. Understand the difference between threats and attacks.
2. Know the KEY Elements and Logical Elements of Networks
3. Able to handle authentication algorithms.
4. Understand the Policies, Guideline and Framework of E-mail and IP Security.
5. Understand the Policies, Guideline and Framework of Web Security

UNIT I

Attacks on Computers and Computer Security: Introduction, The need for security, Security approaches, Principles of security, Types of Security attacks, Security services, Security Mechanisms, A model for Network Security.

Cryptography: Concepts and Techniques: Introduction, plain text and cipher text, substitution techniques, transposition techniques, encryption and decryption, symmetric and asymmetric key cryptography, steganography, key range and key size, possible types of attacks.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: INFORMATION SECURITY

Subject Code: C67PC2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	2.30	1.50									1.59		2.69	2.45	2.11
CO2	2.30	2.40												2.45	2.11
CO3	2.00	1.40	2.65	1.60											1.91
CO4	1.60	2.50	1.60	1.90											1.90
CO5	2.50	2.60	1.80	2.40											2.33
PO Attainment	2.14	2.08	2.02	1.97	-	-	-	-	-	-	1.59	-	2.69	2.45	2.12

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MOBILE ADHOC NETWORKS - C67PE4B

B. Tech. VII Semester

L/T/P/C

3/0/0/3

Course Objective:

This course covers major aspects of ad hoc networks, from design through performance issues to application requirements. It starts with characteristics features, applications of ad hoc networks, modulation techniques and voice coding. It also covers the IEEE 802.11 wireless LAN and Bluetooth standards.

Course Outcomes:

1. Able to gain an understanding of the current topics in MANETs and WSNs, both from an industry and research point of views.
2. Able to understanding of the principles of mobile ad hoc networks (MANETs) and what distinguishes them from infrastructure-based networks.
3. Able to Understand how proactive routing protocols function and their implications on data transmission delay and bandwidth consumption.

UNIT - I

INTRODUCTION: Introduction to ad-hoc networks – definition, characteristics features, applications. Characteristics of wireless channel, ad-hoc mobility models: indoor and outdoormodels.


UNIT - II

MEDIUM ACCESS PROTOCOLS: MAC Protocols: Design issues, goals and classification. Contention based protocols – with reservation, scheduling algorithms, protocols using directional antennas. IEEE standards: 802.11a, 802.11b, 802.11g, 802.15. HIPERLAN.

UNIT - III

NETWORK PROTOCOLS:


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Medbowli, Meerpet, Malapur, Hyderabad, Telangana – 500 097

Phone: 9100377790, email: info@tkrcet.ac.in, web site: www.tkrcet.ac.in



DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: MOBILE ADHOC NETWORKS

Subject Code: C67PE4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.70	1.45									1.50				1.97
CO2	2.40	2.30											2.70	2.50	2.35
CO3	1.70	2.90	2.30	1.50											2.10
CO4	1.40	2.70	1.75	2.00		2.75									2.12
CO5	1.80	2.80	1.30	2.50											2.10
PO Attainment	1.80	2.43	1.78	2.00	-	2.75	-	-	-	-	1.50	-	2.70	2.50	2.13

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TKR College of Engineering & Technology
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Principal

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INTERNET OF THINGS - C67PE5C

B. Tech. VII Semester

L/T/P/C
3/0/0/3

Course Objectives:

1. To introduce the terminology, technology and its applications
2. To introduce the concept of M2M (machine to machine) with necessary protocols
3. To introduce the Python Scripting Language which is used in many IoT devices
4. To introduce the Raspberry PI platform, that is widely used in IoT applications
5. To introduce the implementation of web based services on IoT devices.

Course Outcomes:


At the end of the course, the student should be able to

1. Understand the characteristics, protocols and communication models required for logical design of IoT.
2. Gain knowledge on protocol stacks for IoT and M2M networks and configurations.
3. Write Python Programming using modules, file handling and various Packages.
4. Design the IoT system using Raspberry Pi.
5. Develop web based services on IoT devices.

UNIT I

Introduction to Internet of Things –Definition and Characteristics of IoT, Physical Design of IoT – IoT Protocols, IoT communication models, Iot Communication APIs, IoT enabled Technologies – Wireless Sensor Networks, Cloud Computing, Big data analytics, Communication protocols, Embedded Systems, IoT Levels and Templates, Domain Specific Iots – Home, City, Environment, Energy, Retail, Logistics, Agriculture, Industry, health and Lifestyle.


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: INTERNET OF THINGS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.65	1.50									1.65		2.75	2.80	2.07
CO2	2.40	2.50													2.45
CO3	2.00	2.30	2.75	1.70											2.19
CO4	1.60	2.80	1.80	2.00											2.05
CO5	1.50	2.70	1.60	2.30											2.03
PO Attainment	1.83	2.36	2.05	2.00	-	-	-	-	-	-	1.65	-	2.75	2.80	2.16

Subject Code: C67PES


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Course Objectives

Learn how to build a data warehouse and query it (using open source tools like Pentaho Data Integration and Pentaho Business Analytics), Learn to perform data mining tasks using a data mining toolkit (such as open source WEKA), Understand the data sets and data preprocessing, Demonstrate the working of algorithms for data mining tasks such association rule mining, classification, clustering and regression, Exercise the data mining techniques with varied input values for different parameters.

Course Outcomes

1. Ability to understand the various kinds of tools.
2. Demonstrate the classification clusters and etc. in large data sets.
3. Ability to add mining algorithms as a component to the existing tools
4. Ability to apply mining techniques for realistic data.

1. Build Data Warehouse and Explore WEKA

A. Build a Data Warehouse/Data Mart (using open source tools like Pentaho Data Integration tool, Pentaho Business Analytics; or other data warehouse tools like Microsoft-SSIS, Informatica, Business Objects, etc.).

- Identify source tables and populate sample data
- Design multi-dimensional data models namely Star, snowflake and Fact constellation schemas for any one enterprise (ex. Banking, Insurance, Finance, Healthcare, Manufacturing, Automobile, etc.).
- Write ETL scripts and implement using data warehouse tools
- Perform various OLAP operations such slice, dice, roll up, drill up and pivot
- Explore visualization features of the tool for analysis like identifying trends etc.

B. Explore WEKA Data Mining/Machine Learning Toolkit

- Downloading and/or installation of WEKA data mining toolkit,


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: DATA WAREHOUSING AND DATA MINING LAB

Subject Code: C67PC6

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.07	1.08									1.12		2.92	2.24	1.69
CO2	2.24	2.81													2.53
CO3	1.65	2.07	2.01	1.61	2.14				1.54						1.84
CO4	1.07	2.14	1.52	1.76	2.84										1.87
CO5	1.71	2.07	1.59	2.95	2.81										2.23
PO Attainment	1.55	2.03	1.71	2.11	2.60	-	-	-	1.54	-	1.12	-	2.92	2.24	2.03

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STORAGE AREA NETWORKS - C68PE2B

B. Tech. VIII Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. Understand Storage Area Networks characteristics and components.
2. Describe the challenges associated with data center networking and the need for switch network convergence.
3. Storage Area Networks including storage architectures, logical and physical components of a storage infrastructure, managing and monitoring the data center.
4. Describe the concept of RAID and different RAID levels and their suitability for different application environments.
5. Learn Fibre Channel protocols and how SAN components use them to communicate with each other.

Course Outcomes:

1. Identify and describe the functions to build data center networking for switch network.
2. Discuss different types of logical and physical components of a storage infrastructure.
3. Describe the different types of RAID implementations and their benefits.
4. Understand the importance of Fibre Channel protocols and how to communicate with each other.
5. Describe the benefits of the different network storage options for different application environments.
6. Identify single points of failure in a storage infrastructure and list solutions.

UNIT I


Introduction to Information Storage

Information Storage , Data, Types of Data, Big Data, Information, Storage, Evolution of Storage Architecture, Data Center Infrastructure, Core Elements of a Data Center, Key Characteristics of a Data Center, Managing a Data Center

Data Center Environment

Connectivity ,Physical Components of Connectivity, Interface Protocols , Storage, Disk Drive Components , Disk Drive performance, Direct-Attached Storage, DAS Benefits and Limitations Storage Design Based on Application Requirements and Disk Performance ,Disk Native Command Queuing ,Introduction to Flash Drives ,Components and Architecture of Flash Drives, Features of Enterprise Flash Drives, Types of Intelligent Storage Systems


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: STORAGE AREA NETWORKS

Subject Code: C68PE2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.30	1.30									1.50		2.50	2.75	1.87
CO2	2.40	2.90													2.65
CO3	1.80	2.30	2.30	1.80					1.90						2.02
CO4	1.50	2.40	1.60	2.00											1.88
CO5	1.40	2.30	1.80	2.90											2.10
PO Attainment	1.68	2.24	1.90	2.23	-	-	-	-	1.90	-	1.50	-	2.50	2.75	2.10

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SEMANTIC WEB & SOCIAL NETWORKS - C68PE3B

B. Tech. VIII Semester

L/T/P/C

3/0/0/3

Course Objectives:

1. To understand the concept of semantic web and learn knowledge representation using ontology.
2. Implementation of semantic web applications and the architectures of social networking
3. Social network performance analysis.

Course Outcomes:

1. To understand the semantic web, its modeling, and knowledge representation using Ontology language.
2. Demonstrate the semantic web technologies like RDF ontology and others
3. Learn the various semantic web applications
4. Identify the architectures and challenges in building social networks
5. Analyze the performance of social networks using electronic sources.

UNIT I

The Semantic Web

Introduction to Semantic Web, Limitations of current Web The Semantic solution, Development of Semantic Web, Semantic Web Technologies, A Layered Approach

Modeling, Aggregating and Knowledge Representation

Ontology and their role in the Semantic Web, Resource Description Framework – Web

Ontology Language – Modelling and aggregating social network data: State-of-the-art in

network data representation – Ontological representation of social individuals – Ontological

representation of social relationships – Aggregating and reasoning with social network data –

Advanced representations

UNIT II

Describing Web Resources: RDF 23

Introduction , RDF: Data Model, RDF Syntaxes, RDFS: Adding Semantics, RDF Schema:The

Language , RDF and RDF Schema in RDF Schema, An Axiomatic Semantics for RDF and RDF

Schema , A Direct Inference System for RDF and RDFS


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DEPARTMENT OF INFORMATION TECHNOLOGY

2023-24

Subject Name: SEMANTIC WEB & SOCIAL NETWORKS

Subject Code: C68PE3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attainment
CO1	1.50	1.90									1.50		2.90	2.50	2.06
CO2	2.90	2.65													2.78
CO3	1.50	2.30	2.80	2.00											2.15
CO4	2.00	2.45	1.90	1.90											2.06
CO5	1.90	2.50	1.75	2.40											2.14
PO	1.96	2.36	2.15	2.10	-	-	-	-	-	-	1.50	-	2.90	2.50	2.24
Attainment															


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Next Education
Transforming Education

STRICTLY CONFIDENTIAL

Ref No: NE/PL/24-25/APPRENTICE/2871
Date: 12/11/2024

To,
Padakanti Vijay Chary
vijaypadakanti1234@gmail.com
5-1-377/1, RATHALA PAMPU, Korutla, Karimnagar, , Telangana, 505326.
6309266324

Offer Letter for Apprenticeship

Dear Padakanti Vijay Chary,

With reference to the discussion you had with us, we are glad to offer you the position of **Apprentice** under the Apprenticeship program with our organization for a period of **6 Months** starting from 14-Nov-2024 .

You will be working from our office located at **HQ - Banjara Hills** and would be trained on the project/Skills assigned by the organization.


During the period of your association with us for the apprenticeship, you will be paid a monthly stipend of **Rs.15000** /-

Kindly send us a line of confirmation in this regard. We wish you all the very best.

For Next Education India Pvt. Ltd

Daljit Singh Bajwa
Director

Accept and agree:

Signature: 

Date: 13/11/24

Next Education India Private Limited

Reg Office: Sri Nilaya Cyber Space, 1st Floor, East Wing Road No 2, Near
Annapurna Studios, Banjara Hills, Hyderabad, Telangana 500 034
Tel: 1800 200 5556 | CIN: L72200TG2007PTC055933
URL: www.NextEducation.in | Email: info@nexteducation.in



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B. Tech CSE (DS) VIII Semester Major Project - II SECOND REVIEW March - 2024

B.no	Reg No	NAME	TITLE	GUIDE NAME
1	20K91A6724	MANDADI ASHRITHA	EYE DISEASE PREDICTION AND DIAGNOSIS USING MACHINE LEARNING	MR.K.SRINIVAS REDDY
	20K91A6729	NUKALA SAIKIRAN		
	20K91A6735	RAMAVATH SANTHOSH		
	20K91A6722	MAHITHA TEDLA		
	20K91A6751	JADHAV ABHISHEK		
2	20K91A6730	PALAKURI SWAMY	A VISION FOR BETTER HEALTH - 6 IN 1 DISEASE DETECTION	MRS.YASMIN SHABNUM
	20K91A6714	JANGAM SWATHI LAXMI		
	20K91A6707	GARIMELLA MANVITHA		
	20K91A6705	BOMMISHETTI LIKITH		
	20K91A6719	DAVID AARON		
3	20K91A6704	BINGI SAKETH	WEB APPLICATION FOR MENTAL HEALTH USING MACHINE LEARNING	MRS.B.TEJASWINI
	20K91A6709	PRAVALLIKA		
	20K91A6703	AYUSH KAUSHAL		
	21K95A6703	KATRAGADDA ABHITHA		
4	20K91A6721	LAKAVATH PREMCHAND	AIRLINE DATA ANALYTICS USING MACHINE LEARNING	MR.S.RAJA RAJA CHOLAN
	20K91A6750	VATTI ROOPA		
	20K91A6715	K DURGA NIKHIL		
	21K95A6706	AKHIL SAI		
5	21K95A6708	KARTHIK REDDY	MITIGATION OF CROP DISEASE DETECTION	MR.RAJESH BANALA
	20K91A6706	GADDAM NEETHA REDDY		
	20K91A6717	MADHUSUDHAN KUMAR		
	20K91A6749	SUMALINI GOUD		
6	20K91A6740	RAJESH REDDY	PNEUMONIA DETECTION USING DEEP LEARNING	MR.M.AROKIA MUTHU
	20K91A6712	JALIGAMA SHIVA KUMAR		
	20K91A6733	PAVAN KUMAR		
	21K95A6701	ARAVA MANOJ		
7	20K91A6725	MITTA PAVANI	AI CHATBOT FOR UNIVERSITY FAQs USING MACHINE LEARNING	MRS.B.CHANDINI
	20K91A6746	VENUGOPAL REDDY		
	21K956702	ALLIPURAM LAVANYA		
	20K91A6708	NIKHIL REDDY		
8	20K91A6734	PUCHALA ARVIND REDDY	CHRONIC KIDNEY DISEASE DETECTION USING MACHINE LEARNING	MRS.K.KIRANMAYEE
	20K91A6726	MOGULOJU SAI		
	20K91A6731	PANDIRI S LAXMI PRIYA		
	21K95A6704	K SAI RAM		
	20K91A6742	VARALAKSHMI		

9	20K91A6718	SOURABHYA REDDY	ENHANCING BANKING USING MACHINE LEARNING	MR.M.AROKIA MUTHU			
	20K91A6736	RISHIKA REDDY					
	21K95A6705	KOLCHELMA SAIKIRAN					
10	20K91A6710	JAKKULA NAVEEN	SENTIMENT ANALYSIS OF E- COMMERCE PRODUCT REVIEWS	MRS.J.MADHAVI			
	20K91A6720	KORRA KISHAN NAIK					
	20K91A6738	SUNKE SAI SREYA					
	21K95A67610	YENUGULA SANTHOSH					
11	20K91A6711	JALA SRINIDHI	IMPROVING ROAD SAFETY USING MACHINE LEARNING	MRS.M.MAMATHA DEVI			
	20K91A6737	SAI KUMAR GANTA					
	20K91A628	NARLAWAR SRUJAN					
	20K91A6745	ANURAG NANDAN					
12	20K91A6741	VARALA VISHNU VARDHAN REDDY	APP DEVELOPMENT (LEARNING MANAGEMENT SYSTEM)	MRS.S.SAMYUKTHA			
	20K91A6713	JALLA PHANEENDRA					
	20K91A6716	KALURI PRAVEEN					
	20K91A6702	SHIVACHARAN REDDY					
13	20K91A6752	NALLA NIRANJAN REDDY	OCR BASED IMAGE TEXT TO SPEECH CONVERSION	MRS.T.ANUSHA			
	20K91A6732	PARIKAPALLI INDRAJA					
	20K91A6723	MANALA BHARADWAJA					
	21K95A6709	THADA RAJU					
14	21K956707	MADDI SAICHANDAN	WEATHER FORECASTING USING MACHINE LEARNING	MRS.M.SAROJINI RANI			
	20K91A6727	RAFAY MUBASHIR					
	20K91A6739	TASLEEM FATHIMA					
	20K91A6701	AMBADI KARTHIK BIJU					
Project Coordinator				HOD			



Office of Graduate Admissions
Division of Enrollment Management
University of Cincinnati
PO BOX 210091
Cincinnati, OH 45221-0091

Phone: (513) 556-1100
Email: grad.admissions@uc.edu

Dear Mahitha,

Congratulations! We are thrilled to offer you admission to University of Cincinnati's Information Technology, Master of Science program offered through the College of Education, Criminal Justice, and Human Services for Fall 2024.

University of Cincinnati provides the perfect backdrop for your graduate experience offering some of the most recognized academics with the goal to advance your professional career whether you want to be in academia or a Fortune 500 company. You embody what it means to be a Bearcat and we can't wait to see the impact you're sure to make on the world as you begin your graduate studies with us!

To accept or decline this offer of admission, you will need to complete the confirmation form now available on the Checklist tab of your applicant status portal (scroll to the bottom of this page and select "Return to Application Status"). You can also log back in at a later time to complete the form.

The Information Technology, Master of Science program may have additional requirements and deadlines for the acceptance of your offer of admission. Please direct any questions or concerns to your program of study. Please note that this offer of admission is only good for the above stated entry term.

I look forward to your reply and welcoming you to an outstanding graduate student experience at University of Cincinnati.

Sincerely,

A handwritten signature in black ink that reads 'Jack Miner'.

Jack Miner
Vice Provost for Enrollment Management

A handwritten signature in blue ink that reads 'V. Krishna'.

Dr. V. KRISHNA
HEAD OF THE DEPARTMENT
Dept. of CSE (DATA SCIENCE)
TNR College of Engineering & Technology
Meerpet, Hyderabad - 500 097.

A handwritten signature in green ink, appearing to be 'M. ...'.

Principal
TNR College of Engineering & Technology
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Medbowli, Meerpet, Hyderabad-97.



Student Name: Arvind Reddy Puchala
 Student Id: 11806532
 Semester: 2024 Fall
 Tuition: Foreign Non Resident
 Major (Program/Plan): DTSC-MS

January 30, 2024

Dear Arvind Reddy Puchala,

Congratulations! You have been admitted to the Data Science program. The University of North Texas provides an exciting place to pursue your graduate education, and we are committed to your success. At UNT you will find the education and support you need to realize your goals and expand your horizons.

Successful completion of undergraduate degree within departmental parameters.

You are now eligible to register during your upcoming enrollment period. Please visit your student portal at my.unt.edu for important information about enrollment dates, registration and class schedules.

F-1, F-2, and J-1 International students must confirm enrollment requirements based on their visa type, and must complete their immigration document check in with the International Student & Scholar Services office after arrival in the U.S. For questions about enrollment requirements based on your student immigration status, please visit the International Student & Scholar Services website at international.unt.edu.

I look forward to having you as a graduate student at UNT, as you join the excitement of discovering real solutions, creating new opportunities and making a difference in the world. At UNT, we expect you to pursue academic excellence in a rigorous, yet caring environment. The Graduate Student Support Services office provides a wealth of information to facilitate your smooth and successful transition to UNT. Please contact us if you have any questions about making the most of your graduate education.

Sincerely,

Michael Sanders
 Michael Sanders, M.Ed.
 Associate Vice President of Enrollment

Victor Prybutok
 Dr. Victor Prybutok,
 Vice Provost for Graduate Education and
 Dean of the Toulouse Graduate School

Dr. V. KRISHNA
 HEAD OF THE DEPARTMENT
 Dept. of CSE (T.K.R.)
 T.K.R. College of Engineering & Technology
 Meerpet, Hyderabad - 500 097.



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 (AUTONOMOUS)
 Medbowli, Meerpet Hyderabad-97.



UNIVERSITY OF CENTRAL MISSOURI

Mar 26, 2024

Manvitha Garimella
5-6, Lakshmiipuram, Kalagara
Vissannapeta
Nlr District Andhra Pradesh
India 521214

Your Student ID Number: 700773938

Dear Manvitha,

Congratulations! We are pleased to admit you to the M.S. degree program in Data Science and Artificial Intelligence at the University of Central Missouri for the fall 2024 semester. You have been granted regular admission which means you have satisfied the University of Central Missouri's minimum English proficiency requirement. This program will be located at the Missouri Innovation Campus: KAN214F00100001.

Classes begin on August 19, 2024. **A mandatory orientation will be held beginning on August 12, 2024 that you must attend in order to enroll.** You will receive additional emails about orientation, arrival expectations, and other useful information to help you as you plan for your arrival to UCM.

Reminder – Prior to the start of the semester, all final official transcripts (evaluations) that meet GPA requirements, from all college/post-secondary institutions attended must be submitted. Additional testing may be required upon arrival.

Please include your student ID number in all future contact with this office. If you have any questions after reading through the material, please contact us at iss@ucmo.edu or by phone at (660) 543-4092. We wish you well as you begin your journey to the University of Central Missouri.

Heather Fernquist
Designated School Official
University of Central Missouri

Dr. V. KRISHNA
HEAD OF THE DEPARTMENT
Dept. of GSE (DATA SCIENCE)
T.K.R. College of Engineering & Technology
Meerpet, Hyderabad - 500 097.

Equal Education and Employment Opportunity

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SEVIS ID: N0035846079

SURNAME/PRIMARY NAME Narlawar	GIVEN NAME Srujan	Class of Admission <h1 style="font-size: 2em;">F-1</h1> ACADEMIC AND LANGUAGE
PREFERRED NAME Srujan Narlawar	PASSPORT NAME	
COUNTRY OF BIRTH INDIA	COUNTRY OF CITIZENSHIP INDIA	
CITY OF BIRTH Adilabad	DATE OF BIRTH 25 JANUARY 2002	
FORM ISSUE REASON INITIAL ATTENDANCE	ADMISSION NUMBER	

SCHOOL INFORMATION	
SCHOOL NAME New England College New England College - Henniker Campus	SCHOOL ADDRESS 98 Bridge Street, Henniker, NH 03242
SCHOOL OFFICIAL TO CONTACT UPON ARRIVAL Casey Yuscavage International Student Advisor	SCHOOL CODE AND APPROVAL DATE BOS214F00408000 28 MAY 2003

PROGRAM OF STUDY		
EDUCATION LEVEL MASTER'S	MAJOR 1 Data Science, General 30.7001	MAJOR 2 None 00.0000
PROGRAM ENGLISH PROFICIENCY Required	ENGLISH PROFICIENCY NOTES Student is proficient	EARLIEST ADMISSION DATE 27 JULY 2024
START OF CLASSES 26 AUGUST 2024	PROGRAM START/END DATE 26 AUGUST 2024 - 05 MAY 2026	

FINANCIALS	
ESTIMATED AVERAGE COSTS FOR: 12 MONTHS	STUDENT'S FUNDING FOR: 12 MONTHS
Tuition and Fees \$ 12,510	Personal Funds \$ 0
Living Expenses \$ 13,300	Funds From This School \$
Expenses of Dependents (0) \$	Family Funds \$ 36,398
Books, personal, health insurance \$ 3,250	On-Campus Employment \$
TOTAL \$ 29,060	TOTAL \$ 36,398

REMARKS

SCHOOL ATTESTATION

I certify under penalty of perjury that all information provided above was entered before I signed this form and is true and correct. I executed this form in the United States after review and evaluation in the United States by me or other officials of the school of the student's application, transcripts, or other records of courses taken and proof of financial responsibility, which were received at the school prior to the execution of this form. The school has determined that the above named student's qualifications meet all standards for admission to the school and the student will be required to pursue a full program of study as defined by 8 CFR 214.2(f)(6). I am a designated school official of the above named school and am authorized to issue this form.

<input checked="" type="checkbox"/>	DATE ISSUED 30 May 2024	PLACE ISSUED Henniker, NH
SIGNATURE OF: Casey Yuscavage, International Student Advisor		

STUDENT ATTESTATION

I have read and agreed to comply with the terms and conditions of my admission and those of any extension of stay. I certify that all information provided on this form refers specifically to me and is true and correct to the best of my knowledge. I certify that I seek to enter or remain in the United States temporarily, and solely for the purpose of pursuing a full program of study at the school named above. I also authorize the named school to release any information from my records needed by DHS pursuant to 8 CFR 214.3(g) to determine my nonimmigrant status. Parent or guardian, and student, must sign if student is under 18.

<input checked="" type="checkbox"/>	DATE
SIGNATURE OF: Srujan Narlawar	
<input checked="" type="checkbox"/>	DATE
NAME OF PARENT OR GUARDIAN	ADDRESS (city/state or province/country)
SIGNATURE	DATE

ICE Form I-20 (11/30/2025)

DI. V. KRISHNA
HEAD OF THE DEPARTMENT
M.A. in CSE (DATA SCIENCE)
T.R.R. College of Engineering & Technology
Meerpet, Hyderabad - 500 097.

Principal
T.R.R. College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad-97.

SEVIS ID: N0035846079 (F-1)

NAME: Srujan Narlawar

EMPLOYMENT AUTHORIZATIONS

CHANGE OF STATUS/CAP-GAP EXTENSION

AUTHORIZED REDUCED COURSE LOAD

CURRENT SESSION DATES


CURRENT SESSION START DATE


CURRENT SESSION END DATE

TRAVEL ENDORSEMENT

This page, when properly endorsed, may be used for re-entry of the student to attend the same school after a temporary absence from the United States. Each endorsement is valid for one year.

Designated School Official	TITLE	SIGNATURE	DATE ISSUED	PLACE ISSUED
Casey Yuscavage	DSO	X 	5/30/2024	Henniker, NH
		X		
		X		
		X		


Dr. V. KRISHNA
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Medbowli, Meerpet, Hyderabad-97. Page 2 of 3