

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapur, A.P. Accredited by NAAC with "A" Grade, An ISO 9001 - 2015 Certified Institution

1:1:3

List of courses offered across all programs during last five years

AY 2021-22

-	Section 1	reconvenience d		Value and value	Year of offerin
200	Program	Program name	Course code	Course name	the course
No	code	A North CET	20CA54101	Mathematics ←	2021-22
1	2	British State	20CA54101	Engineering Chemistry	2021-22
2	2	Bern Arter Harry	20CA51101	Communicative English	2021-22
3	- 2		20CA03101	Engineering Graphics & Design	2021-22
4	2		and the second s	Basic Civil & Mechanical Engineering	2021-22
5	2	The second secon	20CA03102 20CA52102	Communicative English Lab 7	2021-22
- 6	2	The state of the s	Control of the Contro	Engineering Chemistry Lab	2021-22
7	2	With State Control	20CA51102	Engineering and iT Workshop	2021-22
- 8	. 2	211,001,011	20CA03102	Mathematics - II	2021-22
9	2	B.Tech EEE	20CA54201		2021-22
10	2	B.Tech EEE	20CA55101	Engineering Physics Electrical Circuits - I	2021-22
11	2	B.Tech.EEE	20CA02201	Electronic Devices and Circuits	2021-22
12	2	B.Tech EEE	20CA04301	Problem Solving with Programming in C	2021-22
13		B.Tech EEE	20CA05101	Problem Schring With Programming in C	2021-22
14	2	B.Tech EEE	20CA55102	Engineering Physics Lab Problem Solving with Programming in C Sab	2021-22
15	2	B.Tech EEE	20CA05102	Electrical Electronics Engineering Workshop	2021-22
. 16		B. Tech EEE	20CA02202	Environmental Science (Mandatory course-I)	2021-22
17	2	B. Tech EEE	20CA51201		2021-22
18	2	6.Tech EEE	20CA54301	Mathematics - III	2021-22
19	2	B.Tech EEE	20CA02301	Electrical Circuits - II	2021-22
20	2	B. Tech EEE	20CA02302	Electrical Machines - I (DC Machines and transformers	2021-22
21	2	B.Tech EEE	20CA02303	Electromagnetic Fields	2021-22
- 22		B.Tech EEE	20CA04201	Digital Electronics and Logic Design	2021-22
23	2	B.Tech EEE	20CA02304	Electrical Circuits – I Lab	2021-22
24		B. Tech EEE	20CA04304	Electronic Devices and Circuits Lab	2021-22
25		B. Tech EEE	20CA02305	Electrical Machines – I Lab	2021-22
26	7	B.Tech EEE	20CA02306	Skill Chiented Course-I	2021-22
27		B.Tech EEE	20CA53201	Universal Human Values and Ethics Mandatory course - II	2021-22
28		B.Tech EEE	19CA54401	Mathematics - IV	2021-72
25		B.Tech EEE	20CA02401	Control Systems	2021-22
30		B.Tech EEE	20CA02402	Power System + I	2021-22
3:		8.Tech EEE	20CAD2403	Electrical Machines - II	2021-22
33		8.Tech EEE	20CA04406	Analog and Digital IC Applications	2021-22
3		B.Tech EEE	20CA02404	Electrical Circuits - II Lab	2021-22
3	_	B.Tech EEE	19CA02405	Electrical Machines – il Lab	2021-22
3		B. Tech EEE	20CA52401	Advanced Communicative English Lab	2021-22
3		B.Tech EEE	20CAD2406	Skill oriented course - II	2021-22
3		B.Tech EEE	19CA04510	Linear & Digital Electronics	2021-22
3		B. Tech EEE	19CA04504	Microprocessors and Microcontrollers	2021-22
3		B. Tech EEE	19CA02501	Power Systems - II	2021-22
	0 2	B. Tech EEE	19CA02502	Power Electronics	
-	1 2	B.Tech EEL	19CA02505	Modern Control Theory	2021-22
	2 2	B Tech EEE	19CA05403	Java Programming	
_	3 2	B.Tech SEE	19CA04511	Microprocessors & Microcontrollers Lab	2021-22
1	4 2	B.Tech EEE	19CA02503	Electrical Machines - II Lab	2021-22
-	5 2	B.Tech EEE	19CA02504	Power Electronics Lab	2021-27
-	16 2	B.Tech EEE	19CA02505	Socially Relevant Project II	2021-2
_	7 2	B.Tech EEE	19CA05505	At Tools, Techniques and Applications	2021-22
_		B. Tech EEE	19CA02601	Electrical Measurements and Instrumentation	2021-2
-		B. Tech EEE	19CA02602	Power System Analysis	2021-2
-	19 2	B.Tech EEE	19CA05201	Python Programming	2021-2
	50 2	B.Tech Set	19GA99601	Managerial Economics and Financial Analysis	2021-7
_	51 7	B.TockERE	196452603	Coll Stylle	2021-2
1 5	52 2	B, I sell Eti	19CA02603	Fower System Analysis Lab	2021-2

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-	7 1	3.Tech EEE 1	19CA02604	Electrical Measurements and Instrumentation Lab	2021-22
-	2	Bill Ball man	19CA05404	OOPs Through Java Programming Lab	2021-22
_	2	Direct Sec.	19CA02605	Socially Relevant Project III	2021-22
-	2		17CA02701	Power System Operation and Control	2021-22
-	2		17CA02702	Utilization of Electrical Energy	2021-22
	2	B.Tech EEE	17CA02705	Flexible Alternating Current Transmission Systems	2021-22
	2		17CA02713	PLC and Automation Laboratory	2021-22
	2	B. Tech EEE	17CA02714	Power System Computer Aided Design Laboratory	2021-22
	2	- March 2010 - Cont.	17CA02715	Technical Seminar A) Master Class Using Matlab (VAC-II)	2021-22
	2	William Hann	17CA57711		2021-22
	2		17CA02717	Wind Energy	2021-22
	2	The second secon	17CA02718	Solar Energy Basics Electrical Utilities Fundamentals Future	2021-22
	2	20.14201.000	17CA02719	Wireless Communication for Energy Body	2021-22
	2	Dillery eas	17CA02720	Advance in UHV Transmission & Distribution	2021-22
	2	B.Tech EEE	17CA02721	Introduction to Smart Grid	2021-22
	2	B.Tech EEE	17CA02722	Power System Protection and Switch Gear	2021-22
	2	B.Tech EEE	17CA02723	Electric Power System	2021-22
	2	B.Tech EEE	17CA02724	HVDC & FACTS	2021-22
	2	B. Tech EEE	17CA02801	Advanced Control Systems	2021-22
	2	B.Tech EEE	17CA02804	Comprehensive Online Examination	2021-22
	2	B.Tech EEE	17CA02806	Project Work	2021-22
	2	B. Tech EEE	17CA02807	Mathematics I	2021-22
	3	B.Tech MECH	20CA54101	Engineering Physics	2021-22
	3	B.Tech MECH	20CA55103	Communicative English	2021-22
1	3	B.Tech MECH	20CA52101	Essential Electrical and Electronic Engineering	2021-22
9	3	B.Tech MECH	20CA02101	C Programming Language	2021-22
3	3	B.Tech MECH	20CA05101 20CA52102	Communicative English Lab	2021-22
1	3	B. Tech MECH	20CA55102	Engineering Physics Lab	2021-22
2	3	B.Tech MECH	20CA05102	C Programming Lab	2021-22
3	3	8.Tech MECH	20CA54201	Mathematics II	2021-22
4	3	8.Tech MECH	20CA51101	Engineering Chemistry	2021-22
5	3	B.Tech MECH	20CA03201	Engineering Graphics	2021-22
6	3	B. Tech MECH	20CA03202	Engineering Mechanics	2021-22
7	3	B.Tech MECH	20CA03203	Material Science and Engineering	2021-22
8	3	8.Tech MECH B.Tech MECH	20CA03102	Eneg. Workshop	2021-22
9	3	B. Tech MECH	20CA51102	Engineering Chemistry Lab	2021-22
0	3	B. Tech MECH	20CA02205	Essential Electrical and Electronic Engineering Lab	2021-22
1	3	B.Tech MECH	20CA53201	Universal Human Values and Ethics (MC-I)	2021-22
12	3	B.Tech MECH	20CA54301	Mathematics III	2021-22
93	3	8.Tech MECH	20CA03301	Kinematics of Machinery	2021-22
94	3	B.Tech MECH	20CA03302	Strength of Materials	2021-22
35		B.Tech MECH	20CA03303	Manufacturing Processes	2021-22
96	3	8.Tech MECH	20CA03304	Thermodynamics	2021-22
97	3	B. Tech MECH	20CA03305	Material Science and Engineering Lab	2021-22
98	3	B.Tech MECH	20CA03306	Strength of Materials Lab	2021-22
99	3	B. Tech MECH	20CA03307	Manufacturing Processes Lab	2021-22
00	3	B. Tech MECH	SC-I	Sull Oriented Course	2021-22
02	3	B. Tech MECH	20CA51201	Environmental Science (MC-II)	2021-22
.03	3	B.Tech MECH	20CA54402	Probability and Statistics	2021-22
04	3	B.Tech MECH	20CA03401	Dynamics of Machinery	2021-22
105	3	B.Tech MECH	20CA03402	Machine Tools	2021-27
105	3	B.Tech MECH	20CA03403	Thermal Engineering	2021-2
107		8.Tech MECH	Z0CA03404	Machine Drawing	2021-2
108	_	B.Tech MECH	20CA52401	Advanced English Communication Leb	2021-2
109		B. Tech M&CH	20CA03405	Machine Tools Lab	2021-2
110	100	B.Tech MECH	20CA03406	Thermal Engineering Lab	2021-2
111	-	8.Tech MECH	SC-II	Skill Oriented Course	2021-2
112	-	B.Tech MECH	19CA03501	Applied Thermodynamics	2021-2
113		B.Tech MECH	19CA03502	Manufacturing Technology	2021-2
114	-	B.Tech MECH	19CA03503	Fluid Mechanics and Hydraulic Machinery	2021-2
115		8.Tech MECH		Design of Machine Elements-I	2021-2
110	-	B. Tech MECH		Industrial Engineering and Management	2021-2
11		B.Tech MECH	The second secon	Applied Thermodynary Colombia Applie	2021-2
-687		8.Tech MECH		Applied Thermodynamy Constitution FA	2021-7

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	-	D Took MECH	19CA03512	Fluid Mechanics and Hydraulic Machinery Lab	2021-22
_	3	B.Tech MECH B.Tech MECH	19CA03513	Sprigity Relevant Project II	2021-22
_	3	B.Tech MECH	19CA03601	Design of Machine Elements-II	2021-22
_	3	B.Tech MECH	19CA03602	Heat Transfer	2021-22
-	3	B.Tech MECH	19CA03603	CAD/CAM	2021-22
_	3	B.Tech MECH	19CA03607	Total Quality Management	2021-22
	3	B.Tech MECH	19CA52601	Soft Skills	2021-22
	3	B.Tech MECH	19CA53601	Managerial Economics and Financial Analysis	2021-22
7	3	B.Tech MECH	19CA03608	Heat Transfer Lab	2021-22
9	3	B. Tech MECH	19CA03609	CAD/CAM Lab	2021-22
_	3	B.Tech MECH	19CA03610	Socially Relevant Project III 7	2021-22
0	3	8.Tech MECH	17CA03701	Metrology and Measurements Computer Aided Design/Computer Aided Manufacturing	2021-22
2	3	B.Tech MECH	17CA03702	Computer Alded Design/Computer Alded India	2021-22
3	3	B.Tech MECH	17CA03706	Energy Management	2021-22
4	3	8.Tech MECH	17CA03707	Design for Manufacture (MOOC-I)	2021-22
15	3	B.Tech MECH	17CA03710	Advanced Production Technology (MOOC-II)	2021-22
36	3	B.Tech MECH	17CA03713	CAM Laboratory	2021-22
37	3	B.Tech MECH	17CA03714	Metrology and Measurements Laboratory	2021-22
38	3	B. Tech MECH	17CA03715	Technical Seminar	2021-22
39	3	3.Tech MECH	17CA57708	CATIA VS (Value Added Course - II)	2021-22
40	3	B.Tech MECH	17CA03801	Automobile Engineering	2021-22
41	3	B Tech MECH	17CA03804	Total Quality Management	2021-22
42	3	8.Tech MECH	17CA03806	Comprehensive Examination	2021-22
43	3	B. Tech MECH	17CA03807	Project Work	2021-22
44	4	B.Tech ECE	20CA54101	Mathematics -	2021-22
45	4	B.Tech ECE	20CA51101	Engineering Chemistry	2021-22
46	4	B.Tech ECE	20CA52101	Communicative English	2021-22
47	4	B.Tech ECE	20CA03101	Engineering Graphics & Design	2021-22
148	4	B, Tech ECE	20CA03102	Basic Civil & Mechanical Engineering	2021-22
149	4	B. Tech ECE	20CA52102	Continunicative English Lab	2021-22
150	4	B.Tech ECE	20CA51102	Engineering Chemistry Lab	2021-22
151	4	B.Tech ECE	20CA03102	Engineering Workshop	2021-22
152	4	B.Tech ECE	20CA54201	Mathematics II	2021-22
153	4	B.Tech ECE	20CASS101	Engineering Physics	2021-22
154	4	B. Tech ECE	20CA02203	Network Analysis Problem Solving with Programming in *C*	2021-22
155	- 4	B.Tech ECE	20CA05101	Problem Solving wan Programme Control	2021-22
156	4	B.Tech ECE	20CA04201	Digital Electronics & Logic Design	2021-22
157	4	8.Tech ECE	20CA02204	Network Analysis Lab	2021-22
158	4	B.Tech ECE	20CAS5102	Engineering Physics Lab Problem Solving with Programming in 'C' Lab' -	2021-22
159	4	B.Tech ECE	20CA05102	Problem Sciving Wild Programming	2021-22
160	4	B.Tech ECE	20CA54301	Mathematics III	2021-22
161	4	8.Tech ECE	20CA04301	Electronic Devices & Circuits	2021-22
162	4	B.Tech ECE	20CA04302	Random Signals & Systems	2021-22
163	4	B. Tech ECE	20CA04303	Analog Communications Principles of Electrical Engineering	2021-22
164	4	B.Tech ECE	20CA02307	Electronic Devices & CircultsLab	2021-22
165	- 4	B. Tech ECE	20CA04304	Electronic Devices & Circulation	2021-22
166	4	B. Tech ECE	20CA04305	Analog Communications Lab Basic Simulation & Electrical Engineering Lab	2021-22
167	4	8.Tech ECE	20CA04306	Basic Simulation & Executes Engineering	2021-22
168	- 4	B.Tech ECE	20CA54401	Mathematics-IV	2021-22
159	- 4	B. Tech ECE	20CA04401	Analog Electronic Circuits	2021-2
170		B.Tech ECE	20CA04402	Digital Communications Electromagnetic & Transmission Lines	2021-2
171	4	B.Tech ECE			2021-2
172	_	B.Tech ECE	20CA02401	Control Systems Advance Communicative English Lab	2021-2
173		B.Tech ECE	20CA52401	Analog Electronic Circuits Lab	2021-2
174		B.Tech ECE	20CA04404	Analog Electronic Circuits Calo Digital Communications Lab	2021-2
175		8.Tech ECE	20CA04405	Destal Communications can	2021-2
176	_	B. Tech ECI		Antennas & Wave Propagation	2021-7
177		B.Tech ECI		Analog & Digital Communications	2021-7
178		8.Tech ECI	19CA04503	Integrated Circuits & Applications Microprocessors & Microcontrollers	2021-7
179	_	B. Tech ECI	19CAD4504	Microprocessors & Interded to the Control of the Co	2021-
180		8 Tech EC	E 19CA04506	Digital System Design	2021-
181	-	8.Tech EC	19CA04508	Introduction to MEMS.	2021-
187		B. Tech EC	E 19CA04509	Analog & Digital Communications Lab	2021-
187		B.Tech EC	The second secon	Integrated Circuits & Copyright	2021-
18	-	8.Tech EC		Microprocessors & Microcongrellars	2021-
4.00	5 4	B.Tech EC		Socially Relevant Provider	

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		5.7×-1.000	19CAD4501	Microwave & Optical Communication	2021-22
	4	Wilden wee	19CA05604	Internet of Things (IoT)	2021-22
	4	granden seed	19CA05505	Al Yook, Techniques and Applications	2021-22
	4	0,760,000	19CA04502	VLSI Design	2021-22
_	4		19CA52601	Code Skills	2021-22
	4	B.Tech ECE B.Tech ECE	19CA53601	Managerial Economics and Financial Analysis	2021-22
-	4	B. Tech ECE	19CA05511	At Tools, Techniques and Applications Lab	2021-22
	4	B. Tech ECE	19CA04606	Microwave & Optical Communication Lath	2021-22
	4	B.Tech ECE	19CA04607	Socially Relevant Projects	2021-22
-	4	B.Tech ECE	17CA04701	Embedded System	2021-22
_	4	B.Tech ECE	17CA04702	Optical Communications	2021-22
-	4	B.Tech ECE	17CA04703	Radar Systems & Navigational Aids	2021-22
	4	B. Tech ECE	17CA04708	RF integrated Circuits (MOOC-I)	2021-22
	4	B.Tech ECE	17CA04708	RF integrated Circuits (MOOC-II)	2021-22
1	4	B.Tech ECE	17CA04711	Advanced 3G & 4G Wireless Communication (MOOC-III)	2021-22
1	4	B.Tech ECE	17CA04713	Microwave & Optical Communications Lab	2021-22
2	4	B. Tech ECE	17CA03715	Technical Seminar	2021-22
3	4	B.Tech ECE	17CA04714	VLSI & Embedded systems lab	2021-22
4	4	B.Tech ECE	17CA57704	Value Added Course - II	2021-22
5	4	B. Tech ECE	17CA04801	Digital Image Processing	2021-22
6	4	B. Tech ECE	17CA04802	Wineless Sensor Networks And Architecture	2021-22
7	4	B.Tech ECE	17CA04806	Comprehensive Online Exam	2021-22
8	4	B.Tech ECE	17CA04807	Main Project Work	2021-22
9	5	B.Tech CSE	20CA54101	Mathematics-I	2021-22
-	5	B.Tech CSE	20CA55103	Engineering Physics	2021-22
0	5	B. Tech CSE	20CAS2101	Communicative English	2021-22
2	5	B.Tech CSE	20CA05101	C Programming Language	2021-22
13	5	B.Tech CSE	20CA02101	Essential Electrical and Electronics Engineering	2021-22
4	5	B.Tech CSE	20CA52102	Communicative English - Lab. /	2021-22
15	5	B.Tech CSE	20CA55102	Engineering Physics - Lab	2021-22
16	- 5	B. Tech CSE	20CA05102	C Programming Lab	2021-22
7	5	8.Tech CSE	20CA54201	Mathematics-II	2021-22
18	5	B. Tech CSE	20CA51101	Engineering Chemistry	2021-22
19	5	B. Tech CSE	20CA03102	Basic Civil and Mechanical Engineering	2021-22
20	5	B. Tech CSE	20CA03101	Engineering Graphics	2021-22
21	5	B. Tech CSE	20CA05201	Java Programming Language	2021-22
22	5	B. Tech CSE	20CA05202	Java Programming LAB	2021-22
23	5	B.Tech CSE	20CA51102	Engineering Chemistry LAB	2021-22
24	5	B.Tech CSE	20CA05203	IT Workshop LAB	2021-22
25	5	B.Tech CSE	20CA51Z01	Environmental Science	2021-22
26	5	B.Tech CSE	20CA05301	Discrete Mathematics	2021-22
227	5	B.Tech CSE	20CAD5302	Software Engineering	2021-22
28	5	B.Tech CSE	20CA05303	Data Structures	2021-22
129	5	B,Tech CSE	20CA04201	Digital Logic Design	2021-22
230	5	B.Tech CSE	20CA05304	Database Management Systems	2021-22
231	5	B. Tech CSE	20CA05305	Data Structures LAB	2021-22
232	5	B.Tech CSE	20CA05306	Database Management Systems LAB	2021-22
233	5	B.Tech CSE	20CA05307	Software Engineering LAB	2021-22
234	5	B, Tech CSE	20CA05308	C. Java Skills in User Interface	2021-22
235	5	B.Tech CSE	20CA53301	Universal Human Values and Ethics	2021-22
236	5	B.Tech CSE	20CA05401	Python Programming	2021-2
237	5	B. Tech CSE	20CA54402	Probability and Statistics	2021-2
238	5	B.Tech CSE	20CA05402	Computer Organization	2021-2
239		B.Tech CSE	20CA05403	Operating Systems	2021-2
240	_	B.Tech CSE	20CA05404	Theory of Computation	2021-2
241	_	B.Tech CSE	20CA52403	Advanced Communicative English Lab	2021-2
242		B.Tech CSE	20CA05406	Python Programming LAS	2021-2
243		8.Tech CSE	20CA05407	Operating Systems LAB	2021-2
244	-	B.Tech CSE	20CA05408	Mobile Application Development	2021-2
245		B Tech CSE	20CA05408	Internship 2 Months	2021-2
246	-	B.Tech CSE	19CA05502	Design and Analysis of Algorithms	2021-2
247	_	B.Tech CSE	19CA05503	Database Management Systems Operating Systems and ENG	2021-2
-	_	B. Tech CSE	and the same of th	Operating Systems 13 MA ENGL	2021-2
248	-	B. Tech CSE		Operating Systems 2 MA ENG.	2021-7
249	_	B. Tech CSE		Embedded Systems	
250	7 3	B.Tech CSE		Database Month ment Systems Leb (6) DIRECTOR	acces !

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		B.Tech CSE	19CA05510	Operating Systems Lab	2021-22
-	5	B. Tech CSE	19CA05511	Socially Relevant Projects-II	2021-22
_	5	B.Tech CSE	19CA05601	Compiler Design	2021-22
_	5	B. Tech CSE	19CA05602	Advanced Python Programming	2021-22
-	5	B. Tech CSE	19CA05603	Cryptography and Network Security	2021-22
-	5	B. Tech CSE	19CA05607	Machine Learning	2021-22
	5	B.Tech CSE	19CA52601	Soft Skills	2021-22
-	5	B. Tech CSE	19CA53601	Managerial Economics and Financial Analysis	2021-22
	5	B. Tech CSE	19CA05608	Advanced Python Programming & Cryptography & Network Security Lab	2021-22
-	5	B. Tech CSE	19CA05609	Compiler Design Lab	2021-22
-	5	B.Tech CSE	19CA05610	Socially Relevant Project-III	2021-22
_	5	B.Tech CSE	17CA05701	Big Data	2021-22
-	5	8. Tech CSE	17CA05702	Mobile Application Development.	2021-22
	5	B.Tech CSE	17CA05703	Cyber Security	2021-22
	3	B.Tech CSE	17CA05707	E-Commerce (MOOC-I)	2021-22
	5	8.Tech CSE	17CA05711	Intrusion Detection Systems (MOOC-II)	2021-22
	5	8.Tech CSE	17CA05713	Big Data Laboratory	2021-22
	5	B. Tech CSE	17CA05714	Mobile Application Development Laboratory	2021-22
_	5	B.Tech CSE	17CA05715	Technical Seminar	2021-22
-	5	3.Tech CSE	17CA57707	Six Sigma(Value Added Course -II)	2021-22
	5	B.Tech CSE	17CA05801	Software Project Management	2021-22
	5	B. Tech CSE	17CA05802	Cloud Computing	2021-22
-	5	B.Tech CSE	17CA05806	Comprehensive Examination	2021-22
-	5	H. Tech CSE	17CA05808	Main Project	2021-22
-	EO	MBA	20CE00101	Management & Organisational Behaviour	2021-22
-	£0	MBA -	20CE00102	Managerial Economics	2021-22
7	E0 E0	MBA	20CE00103	Accounting for Managers	2021-22
8	E0	MBA	2DCE00104	Business Research Methods	2021-22
9	E0 E0	MBA	20CE00105	Business Communication	2021-22
0	E0	MBA	20CE00106	Business Statistics	2021-72
1	E0 E0	MBA	20CE00107	Information Technology	2021-22
2	EO.	MBA	20CE00108	Business Communication Lab - 1	2021-22
3		MBA	20CE00109	Information Technology Lab	2021-22
4	E0	MBA	20CE00201	Human Resource Management	2021-22
5	EO	MBA	20CE00202	Financial Management	2021-22
6	E0	MSA	20CE00203	Marketing Management	2021-22
17	EO	MBA	20CE00204	Operations Research	2021-22
18	EC		20CE00205	Business Environment	2021-22
19	EO	MBA MBA	200000206	Operations Management	2021-22
90	E0	MBA	20CE00207	Management Information Systems	2021-22
91	E0	MBA	20CE00208	Business Analytics Lab	2021-22
92	E.0		20CE00209	Business Communication Lab -II	2021-22
93	EO	MBA	20CE00301	Entrepreneurship Development	2021-22
94	EO	MBA	200000311	Services Marketing	2021-22
95	EO	MBA	20CE00313	Product and brand Management	2021-22
96	EO	MBA	20CE00321	Security Analysis & Portfolio Management	2021-22
97	ED	MBA	20CE00322	Financial institutions and Markets	2021-22
98	EO	MBA	20CE00331	Performance Management	2021-22
99	E0	MBA	20CE00334	Employee Empowerment	2021-22
00	60	MBA	20CE00302	Business Simulation Lab II	2021-22
101	60	MBA	20CE00401	Strategic Management	2021-22
902	£0	MBA	20CE00401	International Business Management	2021-22
103	EO	MBA	The second secon	1 well Aspects of Business	2021-22
304	ED	MBA	20CE00403	Project - It Viva-Voce & Report Presentation & Submission	2021-22
305		MBA	20CE00404	Advertisement and Sales Promotion Management	2021-27
306	EO	MBA	20CE00414	Financial Derivatives	
307	EO	MBA	20CE00424	Jetarnational Human Resource Management	2021-2
308		MBA	20CE00432	Mathematical Foundations of Computer Science	2021-2
309		MCA	20CF00101	Data structures	2021-2
310		MCA	20CF00102	Computer Organization and architecture	2021-2
311	-	MCA	20CF00103	Operating Systems	2021-2
312		MCA	20CF00104	Operating Systems	2021-2
31		MCA	20CF00105	Pythan Programma LMGI.	2021-2
314	_	MCA	20CF00106	Python Proportion	2021-2
31		MCA	20CF00107	Data structures Through C++ baby	2021-7
31	-	MCA	20CF00108	Office Automation Lab Chip Colawada Romanuamus Engin	2021-2
	4.0	MCA	20CF00109	Chpfulawada Romanumma Engin	- 44

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				A A I CONTRACT FURTHERS	2021-22
	FO PO		20CF00201	Object Oriented Programming through Java	2021-22
	FO	111011	20CF00202	Artificial Intelligence	2021-22
	FO	04140-5	20CF00203	Software Engineering	2021-22
	FO	110-00-1	20CF00204	Object Oriented Analysis and Design	2021-22
	F0	MCA	20CF00205	Data Mining	2021-22
	FO	MCA	20CF00208 20CF00211	Database Management Systems Lab	2021-22
-	FO	MCA MCA	20CF00212	Object Oriented Programming through Java Lab	2021-22
	F0		20CF00213	Artificial Intelligence using R Lab	2021-22
_	FO	MCA	20CF00301	Full Stack Technologies	2021-22
-	FO	MCA	20CF00302	Machine Learning	2021-22
-	F0	MCA	20CF00303	Mobile Application Development	2021-22
-	F0	MCA	20CF00304	Fundamentals of Data Science	2021-22
-	F0 F0	MCA	20CF00307	Software Testing	2021-22
-	FO FO	MCA	20CF00309	Internet of Things	2021-22
-	FO	MCA	20CF00311	Full Stack Technologies Lab	2021-22
-	FO	MCA	20CF00312	Machine Learning Lab	2021-22
	F0 F0	MCA	20CF00313	Mobile Application Development Lab	2021-22
-		MCA	20CF00401	Main Project	2021-22
_	FO FO	MCA	20CF00402	MOCCH	2021-22
1	FO FO	MCA	20CF00403	Seminar	2021-22
3	D83	M.Tech (PE&D)	21CD02101	Advanced Power Semiconductor Devices	2021-22
9	D83	M.Tech (PE&D)	21CD02102	Machine Modeling and Analysis	2021-22
0	D83	M.Tech (PE&D)	210002102	Machine Modeling and Analysis	2021-22
1	D83	M.Tech (PE&D)	21CD02103	Solid-State DC Drives	2021-22
2	D83	M.Tech (PE&D)	Z1C002104	Applications of Power Electronics to Power Systems	2021-22
3	D83	M.Tech (PE&D)	210002107	Advanced Digital Signal Processing	2021-22
5	D83	M.Tech (PE&D)	210002109	Solid State Lighting and Control	2021-22
6	D83	M.Tech (PE&D)	21CD02111	MODE Course *	2021-22
7	D83	M.Tech (PE&D)	21CD02114	Power Electronics and Simulation Lab	2021-22
8	D83	M.Tech (PE&D)	210002201	Advanced Power Convertars	2021-22
9	D83	M.Tech (PE&D)	21CD02202	Power Quality	2021-22
0	083	M.Tech (PE&D)	21CD02203	Advanced Drives & Control	2021-22
1	083	M.Tech (PE&D)	210002204	Renewable Energy Conversion Systems	2021-22
52	D83	M.Tech (PE&D)	21CD02207	HVDC & EHVAC Transmission Systems	2021-22
53	D83	M.Tech (PE&D)	21CD02209	Energy Efficient Electrical Systems	2021-22
54	D83	M.Tech (PE&D)	210053301	Research Methodology	2021-22
55	D83	M.Tech (PE&D)	21CD02304	Technical Seminar 1	2021-22
56	D83	M.Tech (PE&D)	21CD02305	Project work - Phase I	2021-22
57	083	M. Yech (PE&D)	21CD02401	Technical Seminar II /	2021-22
58	D83	M.Tech (PE&D)	210002402	Project work - Phase II	2021-22
59	004	M.Tech (CAD/CAN	A) 21CD54101	Computational Methods	2021-22
60	004	M. Tech (CAD/CAN	d) 21CD03101	Advanced Finite Element Methods	2021-22
61	004	M.Tech (CAD/CAN	d) 21CD03102	Computer Integrated Manufacturing	2021-22
62	D04	M.Tech (CAD/CAN	M) 21CD03103	Regid Prototyping	2021-22
663	004	M.Tech (CAD/CA)	M) 21CD03105	Computer Aided Process & Planning	2021-22
364	D04	M.Tech (CAD/CA)	M) 21CD03107	Materials Technology	2021-22
365	004	M.Tech (CAD/CA)	M) 21CD03111-	MDOC Coorse	2021-22
366	D04	M.Tech (CAD/CAI	M) 21CD03110	Modeling and Analysis Lab Advanced Optimization Techniques	2021-22
357		M. Tech (CAD/CA)	M) 21CD03201	Industrial Robotics and Expert systems	2021-22
368	-	M.Tech (CAD/CA)	M) 21CD03202	CNC Technology & programming	2021-22
369	-	M.Tech (CAD/CA		Composite Materials	2021-22
370		M. Tech (CAD/CA		Special Manufacturing Process	2021-22
371		M.Tech (CAD/CA	M) 21C003206	Global integrated Manufacturing	2021-22
372	D04	M.Tech (CAD/CA	M) 21CD03209	Research Methodology	2021-22
373	D04	M.Tech (CAD/CA	M) 21CD53201	CAD/CAM Lab	2021-22
374	D04	McTech (CAD/CA	M) 21C003211	Seminar - I	2021-2
375	D04	M.Tech (CAD/CA	(M) 21CD03302	Project work - Phase I	2021-2
376	D04	M.Tech (CAD/CA	M) 21CD03303	Seminar - II	2021-2
377		M.Tech (CAD/CA	M) 21CD03401	Dynlert work - Phaself - 110	2021-2
378	8 004		M) 21CD03402	Project work - Phase H LNG	2021-2
375	D57	M. Tech (VLSI&S		CMOS Analog Copyrigh	2021-2
380	0 057	M.Tech (VLSI&	SO) 21CD04102	CLACK DIMEN STOCKED	2021-2
38		M.Tech (VL5/8:		lines from bothering	2021-2
38	2 D57	M.Tech (VLSI8:		the same but a character of the language of Romanium Con-	through the State of
	3 057	M.Tech (VLSI8:	SD) 21CD04107	AUTONOMOUS (AUTONOMOUS	

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Section Sect				A SECOND PORTON OF THE PARTY OF	The second Austriana and Applications	2021-22
Section Sect	84	D57	M.Tech (VLSI&SD)		CPLD and FPGA Architectures and Applications	2021-22
DS7	_			21CD04111		2021-22
2021-22 2057 M.Tech (VLSIRSD) 21CD04203 CMCS Mixed Signal Design 2021-22 2058 2057 M.Tech (VLSIRSD) 21CD04204 Embedded System Design 2021-22 2057 M.Tech (VLSIRSD) 21CD04204 Embedded System Design 2021-22 2057 M.Tech (VLSIRSD) 21CD04206 Embedded System Design 2021-22 2057 M.Tech (VLSIRSD) 21CD04206 Semicanductor Memory Design and Testing 2021-22 2057 M.Tech (VLSIRSD) 21CD04206 Semicanductor Memory Design and Testing 2021-22 2057 M.Tech (VLSIRSD) 21CD04201 Research Methodology 2021-22 2058 2057 M.Tech (VLSIRSD) 21CD04201 Research Methodology 2021-22 2058 2057 M.Tech (VLSIRSD) 21CD04201 Research Methodology 2021-22 2058 2057 M.Tech (VLSIRSD) 21CD04201 Technical Seminar 2021-23 2057 2057 M.Tech (VLSIRSD) 21CD04201 Technical Seminar 2021-23 2057 2057 M.Tech (VLSIRSD) 21CD04201 Technical Seminar 2021-23 2057 2057 M.Tech (VLSIRSD) 21CD04401 Technical Seminar 2021-23 2057 2057 M.Tech (VLSIRSD) 21CD04402 Project Work - Place II 2021-23 2057	_		M.Tech (VLSI&SD)		Digital System Design Lab	2021-22
Section Sect	_			21CD04201		2021-22
March Marc		100000000000000000000000000000000000000	M.Tech (VLSI8/SD)			2021-22
DS7				21CD04203	CMOS Mixed Signal Design	2021-22
D57			M.Tech (VLSI&SD)	21CD04204	Embedded System Design	2021-22
1992 D57	Charles and the Control of the Contr			21CD04206	Semiconductor Memory Design and Testing	2021-22
193 D57 M.Tech (VLSI8SD) 21CD04501 Research Methodology 2021-22 194 D57 M.Tech (VLSI8SD) 21CD04201 VLSI System Design Lab 2021-23 195 D57 M.Tech (VLSI8SD) 21CD04301 Technical Seminar 2021-23 195 D57 M.Tech (VLSI8SD) 21CD04302 Project Work - Priset 2021-23 195 D57 M.Tech (VLSI8SD) 21CD04401 Technical Seminar 2021-23 197 D57 M.Tech (VLSI8SD) 21CD04402 Project Work - Priset 2021-23 197 D58 M.Tech (CSE) 21CD05101 Advanced Data Structures and Algorithms 2021-23 199 D58 M.Tech (CSE) 21CD05101 Advanced Data Structures and Algorithms 2021-24 190 D58 M.Tech (CSE) 21CD05102 Endamentals of Data Science 2021-24 190 D58 M.Tech (CSE) 21CD05103 Advanced Operating System 2021-24 190 D58 M.Tech (CSE) 21CD05104 Advanced Operating System 2021-24 190 D58 M.Tech (CSE) 21CD05105 Software Engineering 2021-24 190 D58 M.Tech (CSE) 21CD05105 Software Engineering 2021-24 190 D58 M.Tech (CSE) 21CD05105 Machine Learning 2021-24 190 D58 M.Tech (CSE) 21CD05101 Machine Learning 2021-24 190 D58 M.Tech (CSE) 21CD05101 Advanced Data Structures and Algorithms lab 2021-24 190 D58 M.Tech (CSE) 21CD05202 Big Data Analytics 2021-24 190 D58 M.Tech (CSE) 21CD05202 Big Data Analytics 2021-24 190 D58 M.Tech (CSE) 21CD05204 Mobile Application Development 2021-24 190 D58 M.Tech (CSE) 21CD05205 Design Patterns 2021-24 190 D58 M.Tech (CSE) 21CD05206 Design Patterns 2021-24 190 D58 M.Tech (CSE) 21CD05207 Pattern Recognition 2021-24 190 D58 M.Tech	_		M.Tech (VLSI&SD)	210004210	Hardware & Software Design or embedded systems	2021-22
1994 057			M.Tech (VLSI&SD)	21CD045201	Research Methodology	2021-22
DS7			M.Tech (VLSI85D)	21CD04211	VLSI System Design Lab	2021-22
1976 D57 M. Tech (VLSI&SD) 21CDD4302 Project Work - Phase 2021-21 2021-22 2021-2					Technical Seminar 1	2021-22
1997 D57 M.Tech (VLSI&SD) 21CD04401 Technical Seminar II 2021-23	-		M.Tech (VLSI&SD)	21CD04302	Project Work - Priese I. T	2021-22
DSF					Technical Seminar II	2021-22
DS8	-			210004402	Project Work - Phase II	2021-22
Mode					Advanced Data Structures and Algorithms	2021-22
D58 M.Tech (CSE) 21CD0S103 Computer Organization & Architecture 2021-2		100000000000000000000000000000000000000	The second secon	The state of the s	Fundamentals of Data Science	2021-22
402 058 M.Tech (CSE) 21CD05104 Advanced Operating System 2021-2		The second second second		The second secon	Computer Organization & Architecture	2021-22
Machine Learning 2021-2			The second secon	21CD05104	Advanced Operating System	2021-22
404 D58 M.Tech (CSE) 21CD05110 Machine Learning 2021-2	and the second	The second second	The second secon	210005105	Software Engineering	The second secon
Modes March CSE 21 CD05113 MODEs March CSE 21 CD05114 Advanced Data Structures and Algorithms lab 2021-2	Contract of the last				Machine Learning	2021-22
Advanced Data Structures and Algorithms 1ab 2021-2	-				MODES	2021-22
Advanced Python Programming 2021-2	ACCRECATE VALUE OF		The second secon	21CD05114	Advanced Data Structures and Algorithms lab	2021-22
408 058 M.Tech (CSE) 21CD05202 Big Data Analytics 2021-2 409 058 M.Tech (CSE) 21CD05203 Internet of Things 2021-3 410 058 M.Tech (CSE) 21CD05204 Mobile Application Development 2021-3 411 058 M.Tech (CSE) 21CD05205 Design Patterns 2021-3 412 058 M.Tech (CSE) 21CD05206 Human Computer Interaction 2021-3 413 058 M.Tech (CSE) 21CD05207 Pattern Recognition 2021-3 414 058 M.Tech (CSE) 21CD05208 Cyber Security 2021-3 415 058 M.Tech (CSE) 21CD05209 R Programming 2021-3 416 058 M.Tech (CSE) 21CD05210 Computer Vision 2021-3 417 058 M.Tech (CSE) 21CD05211 Cloud Computing 2021-3 418 058 M.Tech (CSE) 21CD05212 Advanced Databases 2021-3 419 058 M.Tech (CSE)			The second secon	21CD05201	Advanced Python Programming	2021-22
409 D58 M.Tech (CSE) 21CD05203 Internet of Things 2021-2					Big Data Analytics	The second secon
409 D58	10.0				Internet of Things	The second secon
A11 D58 M.Tech (CSE) 21CD05205 Design Patterns 2021-1	-			The second district of the second	Mobile Application Development	The second secon
411 D58	7.74			The state of the s		The second secon
413 D58 M.Tech (CSE) 21CD05207 Pattern Recognition 2021-			The second secon	A STATE OF THE PARTY OF THE PAR	Human Computer Interaction ?	The second secon
413 DSB M.Tech (CSE) 21CD05208 Cyber Security 2021- 414 DSB M.Tech (CSE) 21CD05209 R Programming 2021- 415 DSB M.Tech (CSE) 21CD05210 Computer Vision 2021- 416 DSB M.Tech (CSE) 21CD05211 Cloud Computing 2021- 417 DSB M.Tech (CSE) 21CD05211 Cloud Computing 2021- 418 DSB M.Tech (CSE) 21CD05212 Advanced Databases 2021- 419 DSB M.Tech (CSE) 21CD05201 Research Methodology 2021- 420 DSB M.Tech (CSE) 21CD05213 Map Reduce Programming Lab 2021- 421 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 422 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 423 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 424 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 425 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 426 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 427 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 428 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 427 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 428 DSB M.Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 428 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 429 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 420 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 420 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 420 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 420 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 421 DSB M.Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 422 DSB M.Tech (CSE) 21CD05302 PROJECT WORK- PHASE - 1 2021- 422 DSB M.Tech (CSE) 21CD05302 PROJECT WORK- PHASE - 1 2021- 423 DSB M.Tech (CSE) 21CD05302 PROJECT WORK- PHASE - 1 2021- 424 DSB M.Tech (CSE) 21CD05302 PROJECT WORK- PHASE - 1 2	-	The second second		The second second second		
415 D58 M.Tech (CSE) 21CD05209 R Programming 2021-	and the latest terminal to the			The second district and the second district in the second district i		The second second second second
415 D58 M.Tech (CSE) 21CDO5210 Computer Vision 2021- 416 D58 M.Tech (CSE) 21CDO5211 Cloud Computing 2021- 417 D58 M.Tech (CSE) 21CDO5212 Advanced Databases 2021- 418 D58 M.Tech (CSE) 21CDO5212 Advanced Databases 2021- 419 D58 M.Tech (CSE) 21CDO5201 Research Methodology 2021- 420 D58 M.Tech (CSE) 21CDO5213 Map Reduce Programming Lab 2021- 421 D58 M.Tech (CSE) 21CDO5301 Technical Seminar - 1 2021- 422 D58 M.Tech (CSE) 21CDO5302 Project Work- PHASE - 1 2021- 423 D58 M.Tech (CSE) 21CDO5301 Technical Seminar - 1 2021- 424 D58 M.Tech (CSE) 21CDO5301 Technical Seminar - 1 2021- 425 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 426 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 427 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 428 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 429 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 420 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 420 D58 M.Tech (CSE) 21CDO5401 Technical Seminar - 1 2021- 2	-			The second secon		The second secon
416 D58 M. Tech (CSE) 21CD05211 Cloud Computing 2021-	_			The state of the s		
417 D58 M. Tech (CSE) 21CD05212 Advanced Databases 2021- 418 D58 M.Tech (CSE) 21CD05201 Research Methodology 2021- 419 D58 M.Tech (CSE) 21CD05213 Map Reduce Programming Lab 2021- 420 D58 M.Tech (CSE) 21CD05301 Technical Seminar - I 2021- 421 D58 M.Tech (CSE) 21CD05302 Project Work- PHASE - I 2021- 422 D58 M.Tech (CSE) 21CD05401 Technical Seminar - II 2021-		and the second second		The second secon		The state of the s
418 DS8 M. Tech (CSE) 21CD05201 Research Methodology 2021- 419 DS8 M. Tech (CSE) 21CD05213 Map Reduce Programming Lab 2021- 420 DS8 M. Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 421 DS8 M. Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 422 DS8 M. Tech (CSE) 21CD05302 Project Work- PHASE - 1 2021- 422 DS8 M. Tech (CSE) 21CD05401 Technical Seminar - II 2021-	CARGO CONTRACTOR OF THE PARTY O	and the second second		The second secon		The second secon
419 DSS M. Fech (CSF) 21CD05213 Map Reduce Programming Lab 2021- 420 DSS M. Tech (CSE) 21CD05301 Technical Seminar - 1 2021- 421 DSS M. Tech (CSE) 21CD05302 Project Work - PHASE - 1 2021- 422 DSS M. Tech (CSE) 21CD05302 Project Work - PHASE - 1 2021- 423 DSS M. Tech (CSE) 21CD05401 Technical Seminar - 11 2021-	Name and Address of the Owner, where			The second secon		
421 058 M.Tech (CSE) 21C005301 Technical Seminar -1 2021- 422 058 M.Tech (CSE) 21C005302 Project Work- PHASE -1 2021- 422 058 M.Tech (CSE) 21C005302 Project Work- PHASE -1 2021-	Annual Control of the		The second secon	The second secon		
421 058 M.Tech (CSE) 21C00S302 Project Work- PHASE-1 2021- 422 058 M.Tech (CSE) 21C00S401 Technical Seminar - II 2021-	420			Committee of the Commit	Technical Seminar - I	
422 U36 MLTCH (USS) 21CDQS401 Technical Seminar - II 2001.	421			The second secon	Project Works PHASE - 1	
423 DSB M.Tech (CSE) [21CD05401 [1807HIGH 1]	422		The second secon	The second second second second	Tachnical Seminar - II	
430 DS8 M.Tech (CSE) 21CD05402 Project Work- PHASE - ID	423	D58	A STATE OF THE PARTY OF THE PAR	The second secon	Project Work- PHASE = ID	2021-2



DIRECTOR

Candalawada Ramenumma Engineering College (AUTONOMOUS)

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AY 2020-2021.

-	rogram code	Program name	Course code	Course name	Year of offering the course
7	2	B.Tech EEE	120,124,400,000	Mathematics -I	2020-21
2	2	B. Tech EEE	20CAS1101	Engineering Chemistry	2020-21 2020-21
3	1	8.Tech tEt	20CA52101	Communicative English	2020-21
4	1	B.Tech EEE	20CA03301	Engineering Graphics & Design	2020-21
5	2	B. Tech EEE	20CA03102	Basic Civil & Mechanical Engineering	2020-21
6	2	B. Tech EEE	20CA52102	Communicative English Lab	2020-21
7	2	B.Tech EEE	20CA5110Z	Engineering Chemistry Lab	2020-21
8	2	B.Tech EEE	20CA03302	Engineering and IT Workshop	2020-21
9	2	B.Tech EEE	20CA54201	Mathematics - II	2020-21
10	2	B. Tech EEE	20CA55101	Engineering Physics	2020-21
11	2	B.Tech EEE	20CA02201	Electrical Circuits - I	2020-21
12	2	8.Tech EEE	20CA04301	Electronic Devices and Circuits	2020-21
13	2	8.Tech EEE	20CA05101	Problem Solving with Programming in C	2020-21
14	2	5.Tech EEE	20CA55102	Engineering Physics Lab	2020-21
15		B.Tech EEE	20CA05102	Problem Solving with Programming in C Lab	2020-21
16		B. Tech EEE	28CA02202	Electrical Electronics Engineering Workshop	2020-21
17		B.Tech EEE	20CA51201	Environmental Science	2020-21
18		B.Tech EEE	19CA54301	Methematics-III	The state of the s
		B.Tech EEE	19CA02301	Electrical Circuits #	2020-21
19		B.Tech EEE	19CA04301	Electronic Devices and Circuits	2020-21
20		B.Tech EEE	19CA02302	Engineering Electromagnetics	2020-21
21		B. Tech EEE	19CA02303	Electrical Machines - I	2020-21
22		5.Tech EEE	19CA05301	Data Structures	2020-21
23		A STATE OF THE PARTY OF THE PAR	19CA56301	Essence of Indian Traditional Knowledge	2020-21
24		B.Tech ETE	19CA02304	Electrical Circuits and Simulation Lab	2020-21
75		B.Tech EEE	190404304	Electronic Devices and Circuits Lab	2020-21
21		B. Tech EIS	19CA54401	Mathematics-IV	2020-21
27		B.Tech EEE	19CA52401	Communicative English II	2020-21
. 21		B.Tech EEE		Control Systems	2020-21
. 25	-	B.Tech EEE	19CA02401	Life Sciences for Engineers	2020-21
3		B.Tech EEE	19CA58301	Generation and Transmission	2020-21
- 3		B.Tech EEE	19CA02402	Electrical Machines - II	2020-21
3		B.Tech Eff.	19CA02403	The state of the s	2020-21
-3	1 2	8.Tech EEE	19CA02404	Control Systems Lab	2020-21
3		B.Tech EEE	19CA02405	Electrical Mathines - I	2020-21
_3	5 2	B.Tech EEE	19CA52402	Communicative English II	2020-21
3	6 2	B.Tech EEE	19CA02406	Socially Relevant Project	2020-21
3	7 2	B. Tach EEE	17CA02501	Control Systems	2020-21
3	8 2	B.Tech EEE	17CA02502	Power Electronics	2020-21
3	9 2	5.Tech EEE	17CA02503	Transmission and Distribution Systems	2020-21
. 4	0 2	B.Tech EEE	17CA04511	Digital Circuits and Systems	2020-21
- 4	1 2	B.Tech EEE	17CA02504	AC Machines – II	2020-21
- 4	2 2	It Tech EEE	17CA02508	Power Quality	2020-21
_	3 2	B.Tech EEE	17CA02509	Control Systems and Simulation Laboratory	2020-21
_	14 1	D. Yech EEE	17CA02510	AC Machines Laboratory	2020-21
_	5 2	B.Tech EIE	17CA52501	Soft Skills Lab. (7	2020-21
_	16 2	B. Tech EEE	17CA02601	Power System Analysis	2020-21
_	17 2	B.Tech LEE	17CA02602	Solid State Electric Motor Drives	2020-21
_	18 2	8 Yech EEE	17CAU4604		2020-21
_	19 2	B. Tech EEE	17CA02503	Power System Protection	The second secon
_	50 1	B.Tech EEE	17CA02506	The state of the s	2020-21
_	51 2	B.Tech EEE	17CA052601	Soft Skife-H	2020-21
	52 2	B. Tech EEE	17CA02610	Power Electronics and Simulation Lab	2020-21
_	ALC TO	8.Tech EEE	17CA04610	A A A STATE OF A STATE	2020-21
		B.Tech EEE	17CA02611	Mini Project (2020-21
_		B.Tech EEE	17CA02701	The state of the s	2020-21
_		B.Tech Eff.	17CA02702	Littization of Electrical Energy	2020-21
_	56 2	B.Tech EEE	17CA02705	The state of the s	2020-21
_		8.Tech EEE	17CA02713	PLC and Automation Laboratory	2020-21
_	58 2	8. Tech EEE	17CAU2714	the same and the district Tables to the	2020-21
_	59 2	B.Tech EEE	17CA02715		2020-21
_	60 2	_	17CA57711	Maria and the state of the stat	2020-21
_	61 2	B.Tech EEE	17CA02717		2020-21
	62 2	B.Tech EEE		Soint Fourtey Mail	2020-21
	63 2	B.Tech EEE	17CA02718	Electrical Up and undamentals Futage	2020-21
	64 2	B.Tech EEE	17CA02715	Bitting obited todaysting to the	2020-21
	65 2	B.Tech EEE	17CA02728	The second secon	2020-21
	66 2	B.Tech EEE	17CA0272	Leaf Califfred Dailling 194	DIRECTOR 2020-21
	67 2	B.Tech EEE	17CA0272	Introductions of the control of the	Lucius 2000 Kollege
	68 2	B.Tech EEE	17CA0272		2020-21
_	69 2	B.Tech EEE	17CA0272	# TIRipati * 3	(AUTONOMOUS) 2020-21

3	2	8 Tech EEE	17CA02801	IVDC & FACTS	2020-21
		B.Tech EEE		Project Part-6	2020-21
	2	B.Tech MECH		Mathematics I	2020-21
-	3		The second secon	Engineering Physics	2020-21
1	3	B.Tech MECH	20CA52101	Communicative English	2020-21
1	3	B,Tech MECH	20CA02101	Essential Electrical and Electronic Engineering	2020-21
5	1	B.Tech MECH	CONTRACTOR OF THE PARTY OF THE	C Programming Language	2020-21
5	3	B.Tech MECH	20CA05101	Communicative English Lati.	2020-21
7	3	B.Tech MECH	20CA52102		2020-21
8	1	B.Tech MECH	20CA55102	Engineering Physics Lab	2020-21
9	1	B,Tech MECH	20CA05102	C Programming Lab	2020-21
)	3	B.Tech MECH	20CA54201	Mathematics II	2020-21
	3	B.Tech MECH	20CA51101	Engineering Chemistry	2020-21
2	3	B.Tech MECH	20CA03201	Engineering Graphics	2020-21
3	3	8.Tech MECH	20CA03202	Engineering Mechanics	
-			20CA03203	Material Science and Engineering	2020-21
4	3	B.Tech MECH		Engs. Workshop	2020-21
5	3	B.Tech MECH	20CA03102	Engineering Chemistry Lab	2020-21
6	1	B.Tech MECH	20CA51102	Essential Electrical and Electronic Engineering Lab	2020-21
7	3	B.Tech MECH	2DCA02205	Essential Electrical and Electronic Engineering Cars	2020-21
8	3	B.Tech MECH	20CA53201	Universal Human Values and Ethics (MC-I)	2020-21
9	3	B.Tech MECH	19CAS4301	Mathematics III	2020-21
_	3	B.Tech MECH	19CA58301	Life Sciences for Engineers	
0		B. Tech MECH	19CA53303	Design Thinking 7	2020-21
1	3		19CA03301	Engineering Medianics	2020-21
2	3	B. Tech MECH	A STATE OF THE PARTY OF THE PAR	Strength of Materials	2020-21
3	3	8.Tech MECH	19CA03302		2020-21
4	3	B.Tech MECH	19CA03303	Manufacturing Processes	2020-21
5	1	B.Tech MECH	19CA56301	Essence of Indian Traditional Knowledge	2020-21
6	3	8.Tech MECH	19CA03304	Strength of Meterials Lab	
7	3	8.Tech MECH	19CA03305	Manufacturing Processes Life	2020-21
~-		B.Tech MECH	19CA54401	Mathematics IV	2020-21
U .	3	The second secon	19CA52401	Communicative English W	2020-21
19	1	B.Tech MECH	The second second second second	Thermodynamics	2020-21
10	3	B.Tech MECH	19CA03401		2020-21
11	3	8, Tech MECH	19CA03402	Kinematics and Theory of Machines	2020-21
12	1	8.Tech MECH	19CA05405	Al Tools, Tachniques and Applications (2)	2020-21
03	3	8.Tech MECH	19CA03403	Metrology and Measurements	
04	3	B.Tech MECH	19CA03404	Computer Aided Machine Drawing	2020-21
_		B.Tech MECH	19CA5240Z	Communicative English & Lab 3	2020-21
05	3	The second secon	19CA05406	At Yook, Techniques and Applications Lab	2020-21
00	3	B.Tech MECH	The second secon	Metrology and Measurements Lab	2020-21
07	3	B.Tech MECH	19CA03405	Wathordes and treasparenteers each	2020-21
08	3	B.Tech MECH	19CA03406	Socially Relevant Project is	2020-21
09	3	8 Tech MEON	17CA03501	Machine Tools	2020-21
10	1	S.Tech MECH	17CA0350Z	Dynamics of Machinery	2020-21
11	3	B.Tech MECH	17CA03503	Machine Design-I	
	3	B. Tech MECH	17CA03504	Thermal Engineering-II	2020-21
17		B.Tech MECH	17CA03305	Fluid Mechanics and Hydraulic Machines	2020-21
13	3	The second secon	17CA03509	Power Plant Engineering	2020-21
14	3	B.Tech MECH	- Committee of the Comm	Machine Tools Laboratory	2020-21
15	3	B.Tech MECH	17CA03510	Machine 1008 Laboratory	2020-21
16	3	B.Tech MECH	17CA03511	Fluid Mechanics and Hydraulic Machines Laboratory	2020-21
17	3	B.Tech MECH	17CAS2501	Soft Skills Lab	2020-21
18	3	B. Tech MECH	17CA03601	Finite Element Methods	
_		B.Tech MECH	17CA03602	Machine Design-II	2020-21
19	3	The second secon		Heat Transfer	2020-21
120	3	B,Tech MECH	17CA03603	Metal forming Process	2020-21
121	1	B.Tech MECH	17CA03604	Michael Intitude of Course	2020-21
22	3	B.Tech MECH	17CA03607	Modern Manufacturing Methods	2020-21
123	- 5	B,Tech MECH	17CA052601		2020-21
124	3	8.Tech MECH	17CA03610		2020-21
23	3	B. Tech MECH	17CA03611	Heat Transfer Laboratory	
_	3	B.Tech MECH	17CA03612	- Property and the second seco	2020-21
126			17CA03701	The state of the s	2020-21
127	3	B.Tech MECH		And the state of the second state of the secon	2020-21
128	3	B.Tech MECH	17CA03702	The state of the s	2020-21
129	3	8.Tech MECH	17CA03706	Energy Management	2020-21
130	3	8.Tech MECH	17CA03707	Conign for Manufacture (MOOC-I)	2920-21
131	3	B.Tech MECH	17CA03710	Advanced Production Technology (MODC-13)	2020-21
-	3	B.Tech MECH	17CA03713	CAM Laboratory	
132			17CA03714	The state of the s	2020-21
133	3	B.Tech MECH	-		2020-21
134	- 3	B. Tech MECH	17CA03715	The state of the s	2020-21
135	3	8 Tech MECH	17CA57708	CATIA VS (VANE ASSESSMENTS - IN-E)	2020-21
136	3	B.Tech MECH	17CA03801	Automobile Engineer	2020-21
137	- 1	B.Tech MECH	17CA03804	Total Quality Meningment Comprehensing Samigation Project Work Multiple Manual Comprehension Mathematica 45	DIRECTOHOZO-ZI
138		B.Tech MECH	17CA03806	Comprehensive Samipation	DIRECTORDER I
			17CA03807	Project Work and AUTONA TOPIN delegande l	Insurance Employering College
	3	B.Tech MECH B.Tech ECE	20CA5410	Mathematics -C CMCIIr 13	
139	4			The second secon	(AU 10 HB M 2020-21

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			NOC402101 F	premunicative English	2020-21
	4	B.Tech ECE	2007403101 6	ngingering Graphics & Design	2020-21
	4	B.Tech ECE B.Tech ECE	20CA03102 0	asic Civil & Mechanical Engineering	2020-21
	4	B. Tech ECE	20CA52102	ommunicative English Lalt //	2020-21
-	4	B.Tech ECE	20CA51102	ngineering Chemistry Lab	2020-21
5	4	B.Tech ECE		Ingineering Workshop	2020-21
8	4	B.Tech ECE	20CA54201	Mathematics II	2020-21
9	4	S.Tech ECE		Ingineering Physics	2020-21
0	4	B. Tech ECE	20CA02208	Network Analysis	2020-21
1	4	B.Tech BCE	Contraction of the Contraction o	Problem Solving with Programming in 'C'	2020-21
2	4	B.Tech ECE		Digital Electronics & Logic Design	2020-21
53	4	8.Tech ECE	46-46-36 10 10 10 10 10 10 10 10 10 10 10 10 10	Network Analysis Lirb	2020-21
54	A	B.Tech ECE	20CA55102	Problem Solving with Programming in 12 Lob	2020-21
55	4	B.Tech ECE	the state of the s		2020-21
56	4	B.Tech ECE	-	Mathematics III	2020-21
57	4	8.Tech ECE		Life Sciences for Engineers	2020-21
58	4	B.Tech ECE		Electronic Devices & Circuits	2020-21
59	-4	B.Tech (CE	Married Co. Co.	Random Signals & Systems	2020-21
60	4	B. Tech ECE	19CA04303	Digital Electronics & Logic Design	2020-21
61	4	B.Tech ICE	19CA02305	Network Analysis and Transmission Lines	2020-21
62	4	B.Tech ECE	19CA56301	Essence of Indian Traditional Knowledge	2020-21
63	4	B. Tech ECE	19CA04304	Electronic Devices & Circuits Lab	2020-21
64	4	B, Tech ECE	19CA04305	Basic Simulation Lab W	2020-21
65	4	B. Tech ECE	19CA54401	Mathematics-IV	2020-21
66	4	B.Tech ECE	19CA52401	Communicative English II	2020-21
157	4	B.Tech ECE	39CA04401	Electromagnetic Theory	2020-21
168	4	B. Tech ECE	19CAD4402	Analog Electronic Circuits	2020-21
169	4	B.Tech ECE	19CA53303	Design Thinking (f	2020-21
170	4	B.Tech ECE	19CA02401	Control Systems	2020-21
171	4	B.Tech ECE	19CA04403	Digital Electronics & Logic Design Lab	2020-21
172	4.	B.Tech ECE	19CA04404	Analog Electronic Circuits Lab	2020-21
173	4	8 Tech ECE	19CA52402	Communicative English It Lab /	2020-21
174	4	B.Teth ECE	19CA04405	Socially Relevant Project	2020-21
175	- 6	B.Tech ECE	17CA04501	Digital Communication Systems	2029-21
176	4	B.Tech ICE	17CA04502	Digital System Design	2020-21
177	4	Ø.Tech ECE	17CA04503	Antennas & Wave Propagation	2020-21
178	4	B.Tech ECE	17CA04504	Electronic Measurements and Instrumentation	2020-21
179	- 4	B.Tech ECE	17CAD5403	Computer Organization	2020-21
180	4	B. Tech ECE	17CA04505	Artificial focural Networks and Fuzzy Logic	2020-21
181	-4	B.Tech ECE	17CA52501	Soft Skills Lah	2020-21
182	4	B.Yech ECE	17CA04509	Linear & Digital IC Applications Lab	2020-21
183	- 4	B.Tech ECE	17CAD4510	Digital Communication lab	2020-21
184	4	B. Tech ECE	17CA04601	Digital Signal Processing	2020-21
185	4	B. Yech ECE	17CA04602	VLSI System Design	2020-21
186	- 4	B.Tech ECE	17CA04603	Microwave Engineering	2020-71
187	4	B.Tech ECE	17CA04604	Microprocessors& Microcontrollera	2020-21
188	4	8.Tech ECE	17CA04605		2020-23
189	4	B.Tech ECE	17CA052601	Soft Skills-II	2020-21
190	4	B.Tech ECE	17CA04609	to a distance of the later I will	2020-21
191	- 4	B.Tech ECE	17CA04610		2020-21
192	4	8.Tech ECE	17CA04613		2020-21
193	4	3-Tech ECE	17CA04701	Embedded System	2020-21
194	4	B.Tech ECE	17CA04702	Optical Communications	2020-21
195	4	B.Tech ECE	17CA04703	Radar Systems & Navigational Aids	2020-21
196	4	B. Tech ECE	17CA04708	RF Integrated Circuits (MOOC-I)	2020-21
197	4	B. Tech ECE	17CA04708	RF Integrated Circuits (MOOC-I)	2020-21
196	4	B.Tech ECE	17CA04711	Advanced 3G & 4G Wireless Communication (MOOC-II)	2020-21
199	4	B.Tech ECE	17CA04713	Microwave & Optical Communications Lab	2020-21
200	4	B.Tech ECE	17CA03715	Technical Seminar	2020-21
201	4	B. Tech ECE	17CA04714	VLSI & Embedded systems lab	2020-21
202	4	B.Tech ECE	17CA57704	Value Abred Course-11	7020-21
203		B.Tech ECE	17CA04801	Dental Image Processing	2020-21
_	-	B.Tech ECE	17CA04802	Wireless Sensor Networks And Architecture	2020-21
204		8.Tech ECE	17CA04808	Comprehender Online Facts, a se a	
205		B.Tech EOI	17CA04807	Main Project Work	
206		B.Tech ECE	20CA5410		
207		B.Tech ECE	20CA5510	3 Engineering Physics. Charles wad thomas	mmmn tupimmerjen Antinga
208		B.Tech ECE	20CA5210		
209		8.Tech ECE	20CA0510	1 C Programming ampured IT C NO Sec. 15 (AU)	2000
210		B.Tech ECE	20CA0210	The state of the s	2020-21 2020-21
211	-	B.Tech ECE	20CA5210	2 Communicative Engraph - Lab	The state of the s
212	5	B. Tech ECE	20CA5510	100	2020-21

4	5	B. Tech ECE	20CA05102	C Programming Life /	2020-21
5	5	8.Tech ECI	20CA54201	Mathematics-0	2020-21
5	5	B.Tech ECE	20CAS1101	Engineering Charristry	2020-21
7	5	B.Tech ECE	20CA03102	Basic Civil and Mechanical Engineering	2020-21
18	5	B.Tech ECE	20CAU3101	Engineering Graphics	2020-21
9	5	B.Tech ECE	20CA05201	Java Programming Language	2020-21
0	5	8 Tech ECE	20CA05202	Java Programming LAB	2020-21
1	5	B. Tech ECE	20CA51102	Engineering Chemistry LAB	2020-21
2	5	8 Tech ECE	20CA05203	IT Workshop LAB	2020-21
3	5	B.Tech ECE	20CAS1201	Environmental Science	2020-21
4	5	B.Tech CSE	19CA54302	Numerical Methods	2020-21
5	5	B.Tech CSE	19CA05301	Data Structures	2020-21
6		B.Tech CSE	19CA05302	Discrete Mathematics	2020-21
_	5	B.Tech CSE	19CA04305	Digital Logic Design	2020-21
73	3		19CA05303	Software Engineering	2020-21
8	5	B.Tech CSE	The second secon	Design Thinking & Product Innovation	2020-21
19	5	8.Tech CSE	19CA53301	Essence of Indian Traditional Knowledge	2020-21
10	5	B.Tech CSE	19CA56301		2020-21
11	S	B.Tech CSE	19CA05304	Data Structures Lab	2020-21
12	5	B.Tech CSE	19CA05305	Software Engineering Lab	2020-21
13	5	B.Tech CSE	19CA53307	Design Thinking & Product Innovation Lab	2020-21
14	5	B. Tech CSE	19CA52401	Communicative English-II	2020-21
35	5	8. Tech CSE	19CA05401	Computer Organization	2020-21
36	5	B.Tech CSE	19CA05402	Formul Languages and Automata Theory	
17	5	B.Tech CSE	19CA06403	Object Oriented Programming through Java	2020-21
18	- 5	B.Tech CSE	19CA58301	Ufe Science for Engineers	2020-21
39	5	B.Tech CSt	19CA03103	Boxic Civil and Mechanical Engineering	2020-21
10	5	B.Tech CSE	19CA52402	Communicative English-II Lab	2020-21
	5	B. Tech CSE	19CA05404	Object Oriented Programming through Java Lab	2020-21
42	5	8. Tech CSE	19CA03205	Basic Civil and Mechanical Engineering Lab	2020-21
		The second secon	19CA05407	Socially Relevant Project-I	2020-21
43	5	B. Tech CSE	17CA05501	Operating Systems	2020-21
44	- 5	B.Tech CSE	And in column 2 is not been a party of the Column 2 is not been a	Computer Networks	2020-21
45	5	B.Tech CSE	17CA05502	And the state of t	2020-21
46	5	B.Tech CSE	17CA05503	Compiler Design	2020-21
47	5	B. Fesh CSE	17CA05504	Object Oriented Analysis and Design	2020-21
48	- 5	B.Tech CSE	17CA05505	Data Warehousing and Data Mining	2020-21
49	5	B.Tech CSE	17CA05507	Software Testing Methodologies	2020-21
50	. 5	B. Tech CSE	17CA05509	Object Oriented Analysis and Design Laboratory	2020-21
51	5	B. Tech CSE	17CA05510	Data Mining Laboratory	
52	- 5	B.Tech CSE	17CA05506	Design Patterns	2020-21
53	5	B.Yech CSE	17CA52501	Soft Skills Lab	2020-21
54	5	B.Tech CSE	17CA05601	Artificial Intelligence	2020-21
255	5	B.Tech CSE	170405602	Web Programming	2020-21
	5	B.Tech CSE	17CA05603	Advanced Python Programming	2020-21
56	5	B. Tech CSE	17CA05604	Information Security	2020-21
57			17CA05606	Distributed Systems	2020-21
58	5	B.Tech CSE		Soft Skills-II	2020-21
59	- 5	B.Tech.CSE	The second secon		2020-21
160	5	B.Tech CSE	17CA05611	Web Programming Laboratory	2020-21
61	5	B.Tech CSE	17CA05612	Advanced Python Programming Laboratory	2020-21
67	- 5	B. Tech CSE	17CA05613	Mini Project	2020-21
163	5	B. Tech CSE	17CA05701	Big Data	2020-21
164	5	B.Tech CSE	17CA05702	Mobile Application Development	The state of the s
165	5	B. Tech CSE	17CA05703	Cyber Security	2020-21
166	5	B.Tech CSE	17CA05707	E-Commerce (MOOC-I)	2020-21
167	5	B.Tech CSE	17CA05711	Intrusion Detection Systems (MOOC-II)	2020-21
168	5	B.Tech CSE	17CA05713	Big Data Laboratory	2020-21
269	5	B.Tech CSE	17CA05714	Mobile Application Development Laboratory	2020-21
COOPS -	5	B.Tech CSE	17CA05715	Technical Seminar	2020-21
270		B.Tech CSE	17CA57707	Six Sigma(Value Added Course HI)	2020-21
271	5	The second secon	17CA05801	Software Project Management	2020-21
272	5	B.Tech CSE	The second secon	Goud Computing	2020-21
273	3	B.Tech CSE	17CA05802	Comprehensive Examination	2020-21
274	5.	B.Tech CSE	17CA05805		2020-21
275	5	B.Tech CSE	17CA05808	Main Project	2020-21
276	60	MBA	20CE00101	Management & Organisationellish august	2020-21
277	EO	MBA	200200102	Management Corromers Daniel For	2020-21
278	EO	MBA	20CE00103	Sectionizing for real reservances	2020-21
270	ED	MBA	200600104		
280	E0:	MBA	20CE00105	Business Communication	The state of the s
281	EO	MBA	20CE00106	Chadelayadda Kamananin	
282	EÓ	MBA	20CE00107	THE RESERVE TO STATE OF THE PARTY OF THE PAR	(10US) 2020-21
4004	60	MBA	20CE00108	Business Compreh wition Lab -1 /S/ TIRUS	2020 22
		WEN.	-200200100	The state of the s	2020-21
283	ED	MBA	20CE00109	Unformation Decreases Lab	AMERICA.

	PN.	MBA	20CE00202	Inancial Management	2020-21
-	60	10.00		Marketing Management	2020-21
	EO EO	771.0011	20CE00204	Operations Research	2020-21
	60	MBA	20CE00205	Business Environment	2020-21
	60	MBA	20CE00206	Operations Management	2020-21
-		MBA	20CE00207	Management information Systems	A STATE OF THE PARTY OF THE PAR
-	10	MBA	200100208	Business Analytics Lab	2020-21
-	60	MBA	20CE00209	Business Communication Lab -II7	2020-21
-		MBA	20CE00301	Entrepreneurship Development	2020-21
-	E0	MBA	20CE00311	Services Marketing	2020-21
-	EO		200600313	Product and brand Management	2020-21
	03	MBA	THE RESERVE THE PERSON NAMED IN COLUMN	Security Analysis & Portfolio Management	2020-21
	£0	MBA	20CE00321	Financial Institutions and Markets	2020-21
	E0	MBA	20CE00322	Performance Management	2020-21
	60	MBA	20CE00331	Performance availagement	2020-21
N	£0	M8A	20CE00334	Employee Empowerment	2020-21
	£0	MEA	20CE00302	Business Simulation Lab II	2020-21
	E0 .	MBA	200600401	Strategic Management	2020-21
1	ED 03	MBA	20CE00402	International Business Management	2020-21
4	60	MRA	20CE00403	Legal Aspects of Business	2020-21
	10	MBA	200000404	Project +8 Viva-Voce & Report Presentation & Submission	2020-21
-	EO	MBA	20CED0414	Advertisement and Sales Promotion Management	2020-21
5	-	MBA	20CE00424	Financial Derivatives	
7	60	MBA	200100432	International Human Resource Management	2020-21
8	EO		20CF00101	Mathematical Foundations of Computer Science	2020-21
9	FO.	MCA	20CF00102	Data structures	2026-21
0	FO	MCA	The second secon	Computer Organization and architecture	2020-21
1	10	MCA	20CF00103		2020-21
2	FO	MCA	20CF00104	Operating Systems Computer Networks	2020-21
3	90	MCA	20CF00105		2020-21
4	10	MCA	20CF00106	Pythun Programming	2020-21
5	FO	MCA	20CF00107	Data structures Through C++ Lab	2020-21
6	FG	MCA.	20CF00108	Python Programming Lab 9	2020-21
7	F0	MCA	20CF00109	Office Automation Lab	2020-21
18	FD	MCA	20CF00201	Database Management Systems	2020-21
14	FD.	MCA	20CF00202	Object Oriented Programming through Jove	2020-21
_	FO:	MCA	200100203	Artificial intelligence	The second secon
20		MCA	20CF00204	Software Engineering	2020-21
21	F0		20CF00205	Object Oriented Analysis and Design	2020-21
22	FO.	MCA		Data Mining	2020-21
23	PD.	MCA	200F00208	Dutabase Management Systems Lab	2020-21
24	F0	MCA	20CF00211	Object Oriented Programming through lave Lab	2020-21
25	FO	MCA	20CF00212	Artificial intelligence using # Lob	2020-21
26	FO	MCA	20CF00213		2020-21
27	FQ.	MCA	20CF00301	Full Stack Technologies	2020-21
28	FD	MCA	20CF00302	Machine Learning	2020-21
29	FD	MCA	20CF00303	Mobile Application Development	2020-21
30	FO	MCA	20CF00304	Fundamentals of Data Science	2020-21
31	FO	MCA	20CF00307	Software Testing	2020-21
-	FO	MCA	20CF00309	Internet of Things	1,700 / 1,100
32		MCA	20CF00311	Full Stack Technologies Lab	2020-21
33	10		20CF00312	Machine Learning Lab	2020-21
34	FD	MCA	The second second second second second	Mobile Application Development Lab	2020-21
335	70	MCA	20CF00313	Main Project	2020-21
36	FO	MCA	20CF00401	MODE Recondition of User Experience Design	2020-21
137	FO.	MCA	20CF00402		2020-21
338	FD	MCA	20CF00403	Seminar	2020-21
339	D04	M.Tech (CAD/CAM)	170054103	Computational Methods	2020-21
340	D04	M.Tech (CAD/CAM)	17CD03101	Advanced Finite Element Methods	2020-21
341	E04	M.Tech (CAD/CAM)	17CD03100	Computer Integrated Manufacturing	
_	004	M.Tech [CAD/CAM]		Advances in Manufacturing Technology	2020-21
342				The state of the s	2020-21
343	004	M.Tech (CAD/CAM)		The state of the s	2020-21
344	004	M. Tech (CAD/CAM)		The second secon	2020-21
345	004	M.Tech (CAD/CAM)		The state of the s	2020-21
346	004	M.Tech (CAD/CAM)		The state of the s	2020-21
347		M.Yech (CAD/CAM)		Industrial Robotics and Expert systems	2020-21
348	1200	M. Tech (CAD/CAM)		CNC Technology & programming	2020-21
349		M.Tech (CAD/CAM)		Mechatronics Applications designate cturing	- A F - A F
350	-	M.Tech (CAD/CAM)	-	PE-III Special Alaquitamoning Processo	2020-21
		M.Tech (CAD/CAM)	-	se avirsione reperated Manufactures	2020-21
351	-	M.Tech (CAD/CAM)	-	CAR MANAGED 1991	2020-21
357				Research Starhodglogy TO DIREC	TOR 2020-21
353		M. Tech (CAD/CAM)		THE PARTY OF THE P	na Luginoring 2020-21
354	-	M. Tech (CAD/CAM)			2020-23
355	004	M.Tech (CAD/CAM)	17CD0330	THE PARTY OF THE P	2020-21

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					2020-21
		M.Tech (CAD/CAM)	The second secon	Seminar	2020-21
	004	M.Tech (CAD/CAM)	ALCOHOL: NO.	Project work Phase 8	2020-21
		M.Tech (VLSI&SD)	17CD04101	Structural Digital System Design	2020-21
	057	M.Tech (VLSI&SD)	THE RESERVE OF THE PERSON NAMED IN	CMOS Analog IC Design	2020-21
	D57	M.Tech (VLSI&SD)	17CD04103	CMOS Digital IC Design	2020-21
2	057	M. Tech (VLSI&SD) M. Tech (VLSI&SD)	17CD04104 17CD04106	Hardware Description Languages Professional Elective-I(Low Power VLSI Design)	2020-21
3	D57		17CD04109		2020-21
14	057	M.Tech (VLSI&SD)	10/200	Professional Elective-II(Embedded System Design)	2020-21
95	057	M.Tech (VLSI&SD)	170004111	Digital System Design Lab	2020-21
96	097	M.Tech (VLSI&SD)	17(3)64203	CPLD and FPGA Architecture Applications	2020-21
67	D57	M.Tech (VLSI&SD)	1701004202	Testing & Testability	2020-21
68	057	M.Tech (VLSI&SO)	17CD04203	CMOS Mixed Signal Design	2020-21
59	057	M.Tech (VLSI&SD)	17CD04204	Algorithms for VESI Design Automation	2020-21
70	D57	M.Tech (VLSI&SD)	17CD04205	Professional Elective-III(Internet of Things)	2020-21
71	D57	M.Tech (VLSI&SD)	170004208	Professional Elective-IV(RF1C Design)	2020-21
-	057	M.Tech (VLSI&SD)	170004211	Mixed signal Lab	2020-21
72	D57	M.Tech (VLSI&SD)	1.70005301	Research Methodology	2020-21
174	057	M.Tech (VLSI&SD)	170004302	MOOC Course I (Development of Real Time Systems)	2020-21
_	057	M.Tech (VLSI&SD)	17CDG43G4	Teaching Assignment	2020-21
175		M.Tech (VLSI&SD)	170004305	Project Work - Phase I	
376	D57	M.Tech (VLSI&SD)	17CD04401	Technical Seminar	2020-21
377	057	M.Tech (VLSI&SD)	170004305	Project Work Phase-II	2020-21
378	057	M.Tech (CSE)	17CD05101	Advanced Data Structures and Algorithms	2020-21
379	058	M.Tech (CSE)	170005102	Fundamentals of Data Science	2020-21
380	D58	M.Tech (CSE)	170005103	Computer Organization & Architecture	2020-21
381	O58	M, Tech (CSE)	170005104	Advanced Operating System	2020-21
382	D58	M. Tech (CSE)	17CD05105	Bootserional Election ((Software Engineering)	2020-21
383	058	M.Tech (CSE)	17CD05109	Professional Elective-II(Data Mining and Knowledge Discovery)	2020-21
384	DSB	M.Tech (CSE)	17CD05113	Advanced Data Structures and Algorithms Lab	2020-21
386	D58	M.Tech (CSE)	170005201	Object Oriented Analysis & Design	2020-21
387	058	M.Tech (CSE)	17CD05202	Big Oata Analytics	2020-21
388	D58	M.Tech (CSE)	17CD05203	internet of Things	2020-21
389	D58	M.Tech (CSR)	170005204	Mobile Application Development	2020-21
390	D58	M.Tech (CSE)	17CD05206	Professional Elective-IS(Human Computer Interaction)	2020-21
391	D58	M.Tech (CSE)	170005211	Professional Elective-IV(Cloud Computing)	2020-21
392	058	M.Tech (CSE)	170005213	Map Reduce Programming Lab	2020-21
393	D58	M. Tech (CSE)	17CD53301	Research Methodology	2020-21
394	D58	M.Tech (CSE)	170005303	MOOC Course[Distributed Systems]	2020-21
395	058	M.Tech (CSE)	170005304	Teaching Assignment	2020-21
396	D58	M.Tech (CSE)	17CD05305	Project work Phase I	2020-21
397	D58	M.Tech (CSE)	170005401	Seminar	2020-21
398	058	M.Tech (CSE)	17CD05402	Project work – Phase II	2020-21
399	D83	M.Tech (PE&D)	17CD02101	Advanced Power Semiconductor Devices	2020-21
400	083	M.Tech (PE&C)	17CD02102	Machine Modeling and Analysis	2020-21
401	083	M.Tech (PE&D)	17CD02103	Solid-State DC Drives	2020-21
402	D83	M.Tech (PE&D)	17CD02104	Applications of Power Electronics to Power Systems	2020-21
403	083	M.Tech (PE&D)	17CD02107	Professional Elective-I(Advanced Digital Signal Processing)	2020-21
404	D83	M.Tech (PE&D)	17CD02105		2020-21
405	083	M.Tech (PE&D)	17CD0211	Power Electronics and Simulation Lab	2020-21
406	083	M.Tech (PE&D)	17CD0220		2020-21
407	D83	M.Tech (PE&O)	17CD02200	Power Quality	2020-21
408	D83	M.Tech (PE&D)	17CD0220	Advanced Drives & Coetrol	2020-21
409	083	M.Tech (PE&D)	17CD0220	Renewable Energy Conversion Systems	
410	0337	M.Tech (PE&D)	17CD0220	Professional Elective-III(HVDC & EHVAC Transmission Systems)	2020-23
		M.Tech (PE&O)	17CD0220	Professional Elective-IV(Engergy Efficient Electrical Systems)	2020-21
411	D83	M. Tech (PE&D)	17000221	A Principle of the Control of the Co	2020-21
412			17CD5330	The state of the s	2020-21
413		M.Tech (PE&D)	17CD0230	The second of th	2020-21
414		M.Tech (PESD)	and the same of th		2020-21
415		M.Tech (PERO)	17CD0230		7020-21
415		M. Terch (PE&D)	17CD0240		2020-21
417	D83	M. Tech (PE&D)	17CD0240	2 Project work SPRase II	2020-21

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Chadelawede Rumananum Engineering College (AUTONOMOUS) TIRUPATI

	Program code	Program name	Course code	Course name	Year of offering the
Wa-		11-42-1-1-1-1-1			2019-2020
	02	B.Tech EEE B.Tech EEE	19CA54101 19CA51101	Mathematics - I Engineering Chemistry	2019-2020
-	02	B.Tech IIII	19CA03101	Engineering Craphics & Design	2019-2020
-	02	8.7ech EEE	19CA03103	Basic Civil & Mechanical Engineering	2019-2020
	02	B.Tech EEE	19CA51103	Environmental Science	2019-2020
ā	02	B.Tech EEE	19CA51102	Engineering Chemistry Lab	2019-2020 2019-2020
	02	B.Tech EIE	19CA51104	Busic Civil & Mechanical Engineering Busic Electrical Engineering Workshop	2019-2020
	02	B.Tach (EE	19CA62101		2019-2020
	62	B.Tech EEE	19CA54201	Muthematics - II	0.0000000000000000000000000000000000000
0	95	B.Tech EEE	19CA55103	Applied Physics	2019-2020
1	02	B. Tech EEE	19CA02201	Electrical Circuits - I	2019-2020
1	02	B.Tech EEE	19CA32101	Communicative English-15	2019-2020
1	02	8.Tech EEE	19CA05101	Problem Solving & Programming	2019-2020
4	- 02	B.Tech EFF	19CA56201	Constitution of India	2019-2020
5	.02	B.Tech.Eff.	19CA55104	Applied Physics Lab	2019-2020
6	02	B.Tech EEE	19CA02202	Electrical Circuits - 11.4b	2019-2020
_	02	B.Tech EEE	19CA05102	Problem Solving & Programming Lab	2019-2020
7		100000000000000000000000000000000000000	19CA03102	Basic Engineering Workshop	2019-2020
8	- 02	8.Tech EEE	19CA52102		2019-2020
9_	0.2	B.Tech EEE	21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Communicative English - ILah	
0	03	B.Tech MECH	19CA54101	Mathematics I	2019-2020
1	03	B.Tech MECH	19CA55103	Applied Physics	2019-2020
2	03	B.Tech MECH	19CA05101	Problem Solving and Programming	2019-2020
3	01	B.Tech MECH	19CA52101	Communicative English I	2019-2020
4	03	8. Tech MICH	19CA51103	Environmental Science	2019-2020
rs.	03	5.Tech MECH	19CA03102	Basic Engineering Workshop	2019-2020
16	03	8.Tech MECH	19CA55104	Applied Physics Lab	2019-2020
'n	03	B.Tech MECH	19CA05102	Profilem Solving and Programming Lab	2019-2020
	09	B. Tech MECH	19CA52102	Communicative English I Lab	2019-2020
8_			19CA34201	The state of the s	2019-2020
29	(8	B.Tech MECH	- Washington	Mathematics II	2019-2020
10	03	B.Tech MECH	19CA51101	Engineering Chemistry	-
1	03	B.Tech MCCH	19CA03301	Engineering Graphics	2019-2020
2	01	B.Tech MEDH	19CA05101	Problem Solving and Programming	2019-2020
83	03	B.Tech MED4	19CA03202	Material Science and Engineering	2019-2020
14	03	5.Tech MECH	19CA56201	Constitution of India	2019-2020
is	- 03	5.Tech MECH	19CA51102	Engineering Chamistry Lab	2019-2020
36	- 03	B.Tech MECH	19CA05102	Problem Solving & Programming Lub	2019-2020
-	03	B.Tech MECH	19CA03203	Material Science and Engineering Lab	2019-2020
37	03	B.Tech MECH	19CA03204	Mechanical Engineering Workshop	2019-2020
38		- Comment to the comment		Mathematics I	2019-2020
10	04	B.Tech ECE	19CA54101		-
40	04	8. Tech ECE	19CA55103	Applied Physics	3019-2020
41.	0.4	B. Teich ECE	19CA05101	Problem Solving and Programming	2019-2020
42	04	B. Tech ECE	19CA52101	Communicative English I	2019-2020
43	- 04	8. Tech ECE	19CA51103	Environmental Science	2019-2020
44	04	B. Tech ECE	19CA03102	Basic Engineering Workshop	2019-2020
45	04	B.Tech ECE	19CA55104	Applied Physics Lub	2019-2020
4E	04	B.Tech ECE	19CA05102	Problem Solving and Programming Lab	2019-2020
47	14	B.Tech DCE	19CA52102	Communicative English 11 ab 7	2019-2020
_	D0	B.Tech ECE	19CA54201	Mathematics II	2019-2020
48.	-			Engineering Chemistry	2019-2020
45	DA	H. Tach ECE	19CA51101		2019-2020
50	04	B.Tech ECE	19CA02203	Principles of Electrical Engineering	11 11 11 11 11 11 11
51	04	B. Tech ECE	19CA03103	Basic Civil & Mechanical Engineering	2019-2020
52	04	B. Tech ECE	19CA03101	Engineering Cogniticals (Dept.)	2019-2020
53	Q4	B. Yech ECE	19CA56201	Constitution DIRECTOR	2019-2000
54	04	B. Tech ECE	19CA04201	Electronicy's Communication Deproprie Works September Engineer	ring Sual acgo
55	04	B.Tech ECE	19CA51102	The state of the s	2019-2020
	OM.	B.Tech ECE	19CA02204	Principles of Electric Child Schooling Lab TIRUPATI	2019-2020
55	04	B.Tech ECE	19CA03206	Basil Elev & Mechanical Engineering Job	2019-2020
- T-	500	W.THERTELS.	1703003200	Property of the Control of the Contr	

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T	05	B.Tech CSE	19CA51101	Engineering Cosmissoy	019-2020
	05	8.7ech CSE	19CA05101	Problem Solving and Programming	019-2020
-	05	B.Tech CSE	19CA03101	Engineering Graphics and Design	019-2020
1	05	B.Tech CSE	19CA51103	Ell Al LOUMER VER SCHELOR	1919-2020
-	05	8.Tech CSE	19CA03102	Easte Engineering workshop	2019-2025
	05	B. Tech CSE	19CA5110Z	Engineering Chambistry Coo	2019-2020
+	05	B.Tech CSE	19CA05102	Problem solving and Programming case	2019-2020
+	05	B.Tech CSS	19CA02101	Essential Electrical and electronics engineering	2019-2020
	05	8. Tech CSE	19CA54202	Propability and statistics	2019-2020
	05	8.Tech CSI	19CA55103	Applied Physics	2019-2020
	05	B.Tech CSE	19CA05201	Pythun Programmen	2019-2020
	05	8,Tech CSE	19CA52101	Communicative English -1 19	2019-2020
	as	B. Tech CSE	19CA56201	Constitution of India	-
	05	B-Yesh CSE	19CA02102	Essential Electrical and Electronic Engineering Lab	2019-2020
	05	B.Tech CSE	19CAS5104	Applied Physics Lab	2019-2000
	05	B.Tech CSE	19CA05202	Python Programming Lab	2019-2020
	05	B. Tech CSE	19CA52102	Communicative English -1 Lab	2019-2020
-	66	B.Tech CSE	19CA05203	Computer Science and Engineering Workshop	2019-2020
+	E0 .	MSA	17CE00101	Management & Organisational Behaviour	2019-2020
	81	MBA	17CE00102	Managerial Economics	2019-2020
+	to:	MIA	17CE00107	Accounting for Managers	2019-2020
	60	MBA	17CE00104	Business Statistics	2019-2020
+	60	MSA	17CE00105	Business Communication	2019-2020
+	60	MIA	17CE00106	Business Research Methods - I	2014-2020
2	ED.	MBA	17CE00107	Information Technology for Managers	2019-2020
3	EO	MBA	17CE00108	Business Comunication Lab+19	2019-2020
4	E0 .	MBA	17CE00109	information Technology Lab	7019-2020
5	E0	MBA	17CE00201	Human Resource Management	2019-2020
8	10	MBA	17CH00202	Financial Management	2019-2020
7	EO:	MBA	17CE00303	Marketing Management	2019-2026
8	10	MIIA	17CE00204	Operations Research	2019-2020
9	to	MBA	17CE00205	Business Environment	2019-2020
NO.	* ED	MBA	17CE00206	Operations Management	2019-2020
11	60	MBA	17CE00297	Management Information Systems	2019-2020
12	60	MBA	17CE00298	Business Analytics Lab	2019-2020
73		MBA	17CE00299	Henries Communication Lab-II.	2019-2020
14	E0 E0	MBA	12CE00301	Estrepeneurolig Development 7	2019-2020
95	E0	MSA	17CE00302	Business Research Methods - 2	2019-2020
16	00	MBA	17CE00303	Business Simulation Laboratory	2019-2020
97	69	MSA	17CE00401	Strategic Management	2010-2020
98		MBA	17CE00402	International Business Management	2019-2020
99	E0 03	MBA	170500403	Legal Aspects of Business	2019-2020
100	60	1/84	17CE00404	Project Viva Voce & Report Submission	2019-2020
101	80	B.Tech EEE	17CA54301	Mathematics -[1]	2019-2020
1002	02	B.Tech EEE	17CA02301	DC Machiner	2019-2020
103	02	5. Tech EEE	17CA02302	Electrical Circuits-II	2019-2020
104	02	B.Tech EEE	17CA02303	Electrical Measurements and Instrumentation	2019-2020
105	02	B.Tech EEE	17CA04301	Electronic Devices and Circuits	2019-2020
106	02	B. Tech EEE	17EA02304	Electromagnetic Field Theory	2019-2020
107	02		17CA56301	Mandatory Course(Human Values and Professional Ethics)	2019-2020
108	02	B.Tech EEE	17CA02305	Electrical Occurs and Simulation Laboratory	2019-2020
109	02		17CAG4305	Electronic Devices and Circuits Laboratory	2019-2020
110	02	U.Tech EEE	-	Power Cuneration Systems	2019-2020
111	- 02	8. Tech EEE	17CA02401	DIRECTOR	2019-2020
117	02	B.Tech EEE	17CA02402	Diese and Digital Integrated Circus Phodule words Recommended Ingine	2019-2020 ng Lollogo
311	00	II.Tach EEE	17CA04407		2019-2020
114	02	8.Tech EEE	17CA53501	The state of the s	2019-2020
	02	8.Tuch Etc.	17CA54401	Stathematics -IV Apalog (Defrienc Curcuit) TIRUPATI	The state of the s

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17	02	8 Tech III	17CA02403	DC Machines Laboratory	2019-2020
8	02	8.Tech EEE	17CA02404	Electrical Measurements and Instrumentation Laboratory	2019-2020
	01	9.Tech MEDI	17CA54301	Mathematics-III	2019-2025
0	08	8.Tech MED4	17CA03301	Thermodynamics	2019-2029
	09	B.Toch MECH	17CA03302	fingineering Machanics	2019-2020
2	03	8.Tech MECH	17CA03303	Manafacturing Technology	2015-2020
3	03	B.Tech MECH	17CA53301	Managertal Economies and Financial Analysis	1019-2020
4	03	B.Tech MBCH	17CA03304	Engineering Drawing for Mechanical Engineers	2019-2020
5	Q3	8 Tech MIDH	17CA03305	Computer Aided Drafting Laboratory	2019-2020
6	03	B.Tech MECH	17CA03306	Manufacturing Technology Laboratory	2019-2020
27	03	B.Tech MtCH	17CA36301	Mandatory Course	2019-2020
78	03	II. Tech MECH	17CA54302	Probability and Statistics	2019-2020
29	03	B.Tech MECH	17CA02405	Basic Electrical And Electronic Technology	2019-2000
10	43	B.Tech MECH	17CA03401	Mechanics of Solids	2019-2020
11	08	8.Tech MECH	17CA03402	Thomal Engineering-L	2019-2020
12	68	B.Tech MEOH	17CA03403	Machine Drawing	2019-2020
13	03	B.Tech MECH	17CA03404	Kinematics of Machinery	2019-2020
94	03	B.Tech MECH	17CA03405	Mechanics of Solids Laboratory	2019-2020
35	03	8 Tech MECH	17CA03406	Thermal Engineering Laboratory	2019-2020
36	03	8 Tech MECH	17CA57408	Value added Course-I(HVAC Duct Design)	2019-2020
37	-04	B Tech ECE	17CA54302	Complex analysis and Partial Differential equations	2019-2020
38	66	B Tech ECE	17CA04301	Electronic Devices & Counts	2019-2020
19	04	B.Tech BCE	17CA04362	Switching Theory and Logic Design	2019-2020
40	04	B.Tach &CE	17CA04303	Probability Theory & Stockastic Processes	2019-2020
41	04	B. Tech ECE	17CA04304	Signals and Systems	2019-2020
42	04	B. Tech ECE	17CA02306	Basic Electrical Technology	2019-2020
43	Od	B.Tech ECE	17CA04305	Electronic Devices and Circuits Laboratory	2019-2020
44	04	B.Tech ECE	17CA02307	Electrical Technology and Simulation Laboratory	2019-2020
	84	B.Tech ECC	17CA56301	Mandatory Course	2019-2020
45	04	8.Tech ECE	17CA04401	Electronic Circuit Analysis	2019-2020
46	04	B. Tech ECE	17CA04402	Analog Communications	2019-2020
42	Q4	B.Tech ECE	17CA04403	Linear IC Application	2019-2020
148	O4	B. Tech ECE	17CA02501	Control Systems	2019-2020
148	.04	8 Tech ECE	17CA94494	Electromagnetic Theory & Transmission Lines	2019-2020
150	04	B.Yech ECE	17CA53301	Managerial Economics and Financial Analysis	2019-2020
151	04	9.Tech ECE	17CA04405	Electronic Circuit Analysis Lob	3019-2020
157	.04	B.Tech ECE	17CA04406	Azalog Communications Lab	2019-2020
153	04	B. Yesh ECE	17CAS7406	Value Added Course(Microsoft Certified Engineer)	2019-2020
154	05	B.Tech CSE	17CA54302	Probability and Statistics	2019-2020
155	05	B. Tech CSE	17CA04306	Digital Logic Design	2019-2020
156		B.Tech CSE	17CA05301	Discrete Mathematical Structures	2019-2020
157	65	8. Fech CSE	17CA05301	Desilvase Managoment Systems	2019-2020
158	05		17CA02308	Basic Electrical and Electronics Engineering	2019-2020
159	05	B. Tech CSE	17CA53301	Managerial Economics and Financial Analysis	2019-2020
160	05	B.Tech CSE	17CA56301	Mandatory Course	2019-2020
161	05	B. Tech CSE	The second secon	Database Management Systems Laboratory	2019-2020
162	25	B. Tech CSE	17CA05303	Basic Electrical and Electronics Laboratory	2019-2020
163	05	9 Tech CSE	17CA02309	Theory of Computation	2019-2020
164	05	B. Tech CSE	17CA05401	Software Engineering	2019-2020
165	05	8,7ech CSE	17CA95402	Computer Organization	2019-2020
165	05	B.Toch CSE	17CA95403	Sutistics & R	2019-2020
167	05	B. Tech CSE	17CA05404	Days Programming Supplier	2019-2020
168	05	B. Tech CSE	17CA05405	Design and Analysis of Algorithms	2019-2020
189	05	B.Tech-CSE	17CA05406	NIDECTOR	2019-2020
170	05	B.Tech CSE	17CAS7401	Value Settle (1905) Spuige of Labouron C Charletewards Kumunannina Engineer	
171	05	II. Tech CSE	17CA05407	(AUTOHOMOTO)	
172	05	8:Tech CSE	17CA05408	TIGHDATI	2019-2020
173	02	B. Tech EEE	17CA62501	Secret Systems Secret Michigan SMOUS	2019-2020
174	02	B.Tech EEE	17CA02502	Today Ethornia MOUS 6	2019-2020

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75	03	8.Tach EEE	17CA02503	Transmission and Distribution Systems	2019-2020
	02	8.Tech EEE	17CA04511	Digital Circuits and Systems	2019-2020
7	02	8.Tech EEE	12CA02504	AC Machines – II	2019-2020
2	0.5	5. Tech EEE	17CA02508	Professional Elective - I(Power Quality)	2019-2020
9	02	B.Tech SEE	17CA02509	Control Systems and Simulation Laboratory	2019-2020
10	02	B.Tech EEE	17CA02510	AC Machines Laboratory	2019-2020
11	02	B.Tech EEE	17CA52501	Soft Skittle Lab	2019-2020
2	02	B.Tech EEE	17CA02601	Power System Analysis	2019-2020
53	DZ	B.Tech EEE	17CA02602	Solid State Electric Motor Drives	2019-2020
84	02	B. Tech EEE	17CA04604	Micro Processors and Microcontrollers	2019-2020
93	02	8.Tech EEE	17CAB2603	Power System Protection	2019-2020
16	02	B.Tech EEE	17CA02606	Frofessional Elective - II(Energy Audit and Management)	2019-2020
67	62	B.Tech EEE	17CA02610	Power Electronics and Simulation Laboratory	2019-2020
88	02	B.Tech EEE	17CA04610	Microprocessors And Microcontrollers Laboratory	2019-2020
19	63	8.Tech MECH	17CA03501	Machine Tools	2019-2020
90	03	8.Tech MECH	17CA03502	Dynamics of Machinery	2019-2020
91	03	S.Tech MECH	17CA03503	Machine Design-1	2015-2020
92	03	B. Fech MECH	17CA03504	Thurmal Engineering-U	2019-2020
93	93	S.Tech MCD4	17CA03505	Fluid Mechanics and Hydraulic Machines	2019-2020
94	03	8.Tech MECH	17CA03509	Professional Elective - I(Power Plant Engineering)	2019-2020
95	63	8.Tech MECH	17CA63510	Machine Tools Laboratory	2019-2020
96	03	B.Tech MECH	17CA03511	Fluid Mechanics and Hydraelic Machines Laboratory	2019-2620
97	03	B.Tech MECH	17CA32501	Soft skills Lab	2619-2020
98	03	B.Tech MECH	17CA(9601	Finite Element Methods	2019-2020
99	0.1	B.Tach MECH	17CA03602	Machine Design-I	2019-2020
00	-03	B.Tech MCCH	17CA03603	Heat Trienfer	2019-2920
01	03	8. Yech MECH	17CA03604	Metal farming Process	2019-2009
02	03	8.Tech MEDI	17CA03607	Professional Elective - Il(Modern Manufacturing Methods)	2019-2020
03	01	8. Tech MECH	17CA052601	Open Elective(Soft Skills -II)	2019-2020
204	63	8 Tech MECH	17CA03610	CAE Liberatory	2019-2020
195	63	B.Tech MECH	17CA03611	Heat Transfer Laboratory	2019-2020
106	03	B.Tech MECH	17CA03612	Mini Project	2019-2020
207	04	3.Tech ECE	17CA04501	Digital Communication systems	2019-2020
773	04	8.Tech ICI	17CA04502	Digital System Design	2019-2020
208	04	B. Tech ECE	17CA04503	Agreeman & Wave Propagation	2019-2020
209	04	B Tech ECE	17CA04504	Electronic Measurements and Instrumentation	2019-2020
220	04	B.Tech ECE	17CA05403	Computer Organization	2019-2020
211	- 04	B.Tech ECE	17CA04506	Professional Elective - I(Artificial Nerual Networks and Fuzzy Logic)	2019-2020
23.7	04	B.Tech ECE	17CA94509	Lissar & Digital IC Applications	2019-2020
213	04	B.Tech III	17CA94510	Digital Communication lab	2019-2020
214	04	B.Fech ECE	17CA52501	Sof Skills Lab	2019-2020
215		B. Tech ECE	17CA04601	Digital Signal Processing	2019-2020
216	04	B.Tech ECE	17CA04602	VLSI System Design	2019-2020
217		B. Tech ECE	17CA04603	Microwave Engineering	2019-2020
218	04	-	17CA04604	Microprocessors & Microcontrollers	2019-2020
219	04	B. Tech ECE		Professional Elective - Il(Satellite Communication)	2019-2028
220	04	B Tath ECE	17CA04605	Opes Elective - I(Soft Shifts-II)	2019-2020
221	04	B.Tech ECE	17CA052601	Digital Signal Processing lab	2019-2020
222	04	B.Tech. (CIL	17CA04609	Microprocessors & Microcontrollers Lab	2019-2020
223	- 04	B.Tech CCE	17CA04610	Nisi Project (2019-2020
224	04	B. Tech ECE	17CA04611	Operating Systems	2019-2020
225	05	B. Tech CSE	17CA05501		2019-2020
226	05	B. Tech CSE	17CA05502	T Y CY I	100000000000000000000000000000000000000
227	05	B. Tech CSE	17CA05503	Compiler Design Object Oriented Analysis and Design	2019-2020
228	95	B.Tech CSE	17CA05504		2019-2020
229	05	B.Tech CSE	17CA04511	Professional Profe	2019-2020
230	25	B.Tech USE	17CA05507	Processoral Processoral Control of the Control of t	1201920Mega
4	05	B.Tech CSE	17CA05509	Otjact Orange Australia Design Laborate (AUTONOMOUS)	2019-2020

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1	05	B. Tech CSE	17CA52503	Sell Strife Lab	2019-2020
	25	B.Tech CSE	17CA05601	Scrivery Testing Methodologies	2019-2020
5	09	B.Tech CSE	17CA05602	Web Programming	2019-2620
6	- 05	II. Tech CSE	17CA05603	Data Warehousing and Data Mining.	2019-2020
1	05	B. Tech CSE	17CA05604	Design Pattorns	2019-2020
8	05	B.Tech CSE	17CA05606	Professional Elective - II(Distributed Systems)	2019-2020
9	05	B.Tech CSE	17CA052681	Opes Elective - (Soft Skills-II)	2019-2020
0	05	B. Fech CSE	17CA05609	Software Testing Methodologies Laboratory -	2019-2020
5	05	B. Tech CSE	17CA05610	Digital Signal Processing lab	2019-2020
2	05	8 Tech CSI	17CA05611	Microprocessors & Microcostrollers Lab	2019-2020
3	02	B.Tech EEE	15A02701	Electrical Distribution Systems	2019-2020
16	02	8.Tech EEE	15A04603	Digital Signal Processing	The second second
15	02	B. Tech EEE	15A02702	Power System Operation and Control	2019-2020
16	02	8.Tech EEE	15A02703	Utilization of Electrical Energy	1000000
17	02	B.Tech EEE	15A02705	CBCC-8(Switched Mode Power Converters)	2019-2020
18	02	B.Tech EEE	15A02707	CBCC-B(Smart Grid)	2019-2020
tri	02	B.Tech EEE	15A04505	Digital Signal Processing Laboratory	2019-2020
50	02	B.Tech EEE	15A02710	Power Systems & Simulation Laboratory	2019-2026
51	02	5 Tech EEE	15A02802	MODCS - II/Power System Dynamics and Control	2619-2029
52	02	B.Tech EEE	15A02804	MOOCS - SI(HVDC Transmission)	2019-2020
53	02	B.Tech EEE	15A02806	Comprehensive Viva Voce	2019-2020
54	02	B.Tech EEE	15A02807	Technical Seminal	2019-2029
58	02	B.Tech EEE	15A02808	Project Work	2019-2020
56	03	B.Tech MECH	15A52601	Management Science	2019-2020
57	03	B. Tech MECH	15A03701	Automobile Engineering	2019-2020
58	03	8.Tech MECH	15A03702	CADICAM	2019-2020
59	03	B.Tech MECH	15A03703	Morrology and Measurements	2019-2020
100	03	B.Tech MCCH	15A03704	CBCC-It(Refrigeration and Air Conditioning)	2019-2020
	03	B,Tech MECH	15A03707	CBCC-B(Computational Fluid Dynamics)	2619-2020
251	09	B.Tech MECH	15A03710	CAD/ CAM Laboratory	2019-2020
162	03	B. Tech MECH	15A03711	Metrology and Measurements Laboratory	2019-2020
57		B.Tech MECH	15A03708	MODCS-It/Computational Fluid Dynamics	2019-2020
264	03	B.Tech MECH	15A03804	NOOCS -(It Power Plant Engineering)	2019-2020
ler.		B.Tech MECH	15A03807	Comprehensive VIVII VIIII VIIII	2019-2020
266	03	B.Tech MECH	15A03808	Technical Seminar	2019-2020
267	03	8. Tech MECH	15A03809	Piglett work -	2019-2020
268	03	B.Tech ECE	15A04701	Optical Fiber Communication	2019-2020
269	04	B. Tech ECE	15A04702	Embedded Systems	2019-2020
170	04		15A04703	Microsove Engineering	2019-2020
271	04	8 Tech ECE	15A04704	Data Communications and Networking	2619-2020
272	64	B.Tech ECE	15A04705	CBCC-t(Radar Systems)	2019-2020
273	04	B.Tech ECE	15A04708	CBCC-It(Digital Image Proceeding)	2019-2020
274	04	B.Tech ECE	15A04711	Microwave and Optical Communication Laboratory	2019-2029
275	04	8 Tech ECE	15A04712	VLSI & Embedded Systems Laboratory	2019-2020
276	- 04	B.Tech ECE	15A04802	MOOCS-IP(Low Power VLS) Circuits & Systems)	3919-3020
277	.04	B.Tech ECE	15A04804	MDOCS-II (I/OW Integrated Circuits)	2019-2020
278	04	B. Tech ECE	15A04805	Comprehensive Viva Vice	2019-2020
279	04	B. Tech ECE	15A04806	AND THE PROPERTY OF THE PROPER	2019-2020
280	04	8.Tech ECE	15A04807	Technical Seninar	2019-2020
281	04	B.Tech ECE	15A52601	Project Work	2019-2020
282	06	B.Yech CSE	15A05701	Management Science	2019-2020
283	05	B.Tech CSE	15A05702	Grid & Claud Comprising	2019-2020
284	05	B.Tech CSE		Information Security	2019-2020
285	05	B. Tech CSE	15A05703	Masie Application Development	2019, 2020
285	05	8. Tech CSE	15A05704	CBCC-4(Software Architecture) DIRECTO	2619-2020
287	05	B.Tech CSE	15A05707	CRCC-Injectives Charles Charles Remananting 1	nijaneering College
288	05	B,Tech CSE	15A05710	IAUTUNUMU	2019-2020
289	.05	B.Tech CSE	15A05711	Mobile application Development Development TRUPAT	
	05	B.Tech CSE	15A05802	AUTONOMOUS	Transactor.

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91	05	B.Tech CSE	15A05804	MODCS BY Building Large Scale Software Systems	2019-2020
12	05	8.Tech CSE	15A05807	Comprehensive Viva-Voce	2019-2020
13-	05	8.Tech CSE	15A05808	Technical Seminar	2019-2020
4	86	B.Teich CSE	15A05809	Project Work	2019-2020
5	ÉÜ	MBA	17000301	Entrepreneurship Development	2019-2020
6	E0	MBA	17CE00302	Business Research Methods II	2019-2020
17.	EO	MBA	17CE00311	Services Marketing Performance Management	2019-2020
18	E0	MBA MBA	17CE00331 17CE00322	Financial Institutions, Markets and Services	2019-2020
10	EU	MBA	17CE00332	Ruman Resource Development	2019-2020
01	EO	MBA	17CE00321	Security Analysis & Portfolio Management	2019-2020
02	EG	MBA	170000333	Organisational Development	2019-2020
03	E0:	MBA	17CED0334	Retail Management	2019-2020
)4	E0:	MBA	17CE00334	Employee Engagement and Emplowerment	2019-2020
05	60	ASM	170500312	Internet Marketing	2019-2020
16	60	MBA	1.7CE00303	Business Simulation Laboratory II	2019-2020
17	60	MBA	17CE00401	Strategic Management	2019-2020
18	60	MBA	17CE00402 17CE00403	International Business Management Legal Aspects of Business	2019-2020
39	ED ED	MBA	17CE00411	International Marketing	2019-2020
10	ED	MBA	17CE00431	Knowledge Management	2019-2020
12	ED	MBA	17CE00424	Financial Derivatives	2019-2020
11	ED	MBA	17CE00432	International Human Resource Management	2019-2020
14	EO	MBA	17CE00414	Advertisement and Sales Promotion Management	2019-2020
15	EO	MBA	17CE00404	Project Work	2019-2020
16	FD	MCA	17CF00301	Database Management Systems	2019-2020
17	FO	MCA.	17CF00302	Computer Networks	2019-2020
18	10	MCA.	17CF00303	Linux Programming	2019-2020
19	F0	MCA.	17CF00304	Software Engineering	2019-2020
20	FQ:	MCA.	17CF00305	Java Programming	2019-2020
21	FQ.	MCA	17CF00306 17CF00307	Database Management Systems Lab Linux Programming Lab	2019-2020
22	FO FO	MCA.	17CF00308	Java Programming Lab	2019-2020
23	FO	MCA.	17CF00401	Object Oriented Analysis and Design	2019-2020
25	FØ	MCA	17CF00402	Web Technologies	2019-2020
26	FÖ	MCA	17CF00403	Data Warehousing and Mining	2019-2020
27	FD	MCA	17CF00405	Information Security (Elective - I)	2019-2020
28	FD	MCA	17CF0040E	Distributed Systems (Elective - II)	2019-2020
29	FD	MCA	17CF00410	Object Oriented Analysis and Design Lab	2019-2020
30	FO	MCA	170700411	With Technologies Lab	2019-2020
11	FD	MCA	17CF00412	Data Warehousing and Mining Lab	2019-2020
32	D04	M. Tech (CAD/CAM)	17CD54101	Computational Methods	2019-2020
53	D04	M.Tech (CAD/CAM)	17CD03101	Advanced finite Element Methods	2019-2020
34	D04	M.Tech (CAD/CAM) M.Tech (CAD/CAM)	17CD03102 17CD03103	Computer Integrated Manufacturing Advances in Manufacturing Technology	2019-2020
36	004	M.Tech (CAD/CAM)	17CD03105	PE-I (Computer Aided Process Planning)	2019-2020
37	004	M.Tech (CAD/CAM)	170003108	PE II (Rapid Prototyping)	2019-2020
38	004	M.Tech (CAD/CAM)	170003110	Modelling And CNC Lab	2019-2020
39	D04	M.Tech (CAD/CAM)	170003201	Advanced Optimization Techniques	2019-2020
40	100	M.Tech (CAD/CAM)	17CD01202	Industrial Robotics and Expert systems	2019-2020
41	004	M.Tech (CAD/CAM)	170003203	CNC Technology & programming	2019-2020
42	004	M.Tech (CAD/CAM)	170003204	Mechanionics Applications in Manufacturing	2619-2020
43	004	M.Tech (CAD/CAM)	17CD03208 17CD03209	PE-IN(Special Manufacturing Process) PE-IN(Global Integrated Manufacturing)	2019-2020
45	D04	M.Tech (CAD/CAM) M.Tech (CAD/CAM)	170003209	CAD/CAM Lisb	2019-2020
45	D04	M.Tech (CAD/CAM)	170051301	Research Methodology	2019-2020
47	004	M.Tech (CAD/CAM)	170003301	MODE Course(Design for Manufacturing)	2019-2020
48	004	M.Tech [CAD/CAM]	170003304	Teaching Assignment	2019-2020
49	D04	M.Tech [CAD/CAM]	170003305	Project work - Phase I	2019-2020
50	D04	M.Tech [CAD/CAM]	170003401	Semicur	2019-2020
51	D04	M.Tech (CAD/CAM)	170003451	Project work - Phase II	2019-2020
52	D57	M.Tech (VLSI&SD)	170304101	Structural Digital System Design	2019-2020
53	D57	M.Tech (VLS(&SD)	17CD04102	CMOS Analog IC Design CMOS Digital IC Design	2019-2020
54	057	M.Tech (VLSI&SD) M.Tech (VLSI&SD)	17CD04103	Hardware Description Languages	2019-2020
55	D67		17CD04104	Transmit Description Lamparges	0.000
156	067	M.Tech (VLSI&SD)	17CD04109	Professional Elective-KLow Power VLSI Design)	2019-2020
67	067	M.Tech (VLSIBSD)	175001100	Professional Elective-II(Embedded System Design) DIRECTOR	2019-2020
58	057	M.Tech (VLSI&SD)	13CD04111	Digital System Design Lab Chadalawada Ranconamura Engine	2013-2028 con
359	057	M.Tech (VLSI&SD)	12CD04201	The state of the s	2019-2020
560	057	M. Tech (VLSI&SD)	130304202	Testing & Testastro	2019-2020
200	057	M.Tech (VLSI&SD)	17CD04203	CMOS Miked Signal Design C. TIRUPATI	2019-2020
351		M.Tech (VLS/&SD)	17CD04204	Algorithms By VLSI Design Automatica	2019-2020

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		TAXA OF PERSON	170004205	Professional Elective-III(Internet of Things)	2019-2020
ið.	057	M.Tech (VLSI85D)	170004208	Professional Elective-IV(RF IC Design)	2019-2029
64	057	M.Tech (VLSI&5D)	17CD04211	Mixed signal Lafo	2019-2029
55	057	M.Tech (VLSI&SD)	17CD05301	Research Methodology	2019-2009
16	057	M.Tech (VLSI&50)		MOOC Course 1 (Development of Real Time Systems)	2019-2029
F7.	057	M.Tech (VLS:&SD)	17CD04302	Teaching Assignment	2019-2029
SR .	057	M.Tech (VISIESD)	170004804	Project Work - Phase I	2019-2020
69	057	M.Tech (VLSI&SD)	17CD04305	Technical Seminar	2019-2020
70	057	M. Tech (VLSIRSO)	170004401	Project Work Phase-II	2019-2020
71	D57	M.Tech (VLSI&SD)	17CD04305	Advanced Data Structures and Algorithms	2019-2020
72	D58	M.Tech (CSE)	170005101	Fundamentals of Data Science	2019-2028
73	D58	M.Tech (CSE)	17CD05107	Computer Organization & Architecture	2019-2020
74	D58	M.Tech (CSE)	170005103		2019-2020
75	D58	M. Tech (CSE)	170005104	Advanced Operating System Professional Elective (Software Engineering)	2019-2020
76	058	M.Tech (CSE)	170005105	Professional Elective-(Software Engineering) Professional Elective-(Deta Mining and Knowledge Discovery)	2019-2020
177	D58	M.Tech (CSE)	17CD05309	Professional Elective-Ituaca mining and elections (a)	2019-2020
78	D56	M.Tech (CSE)	\$7CD05113	Advanced Data Structures and Algorithms Lab	2019-2020
179.	D56	M.Tech (CSE)	170005201	Object Driented Analysis & Design	2019-2020
80	058	M.Tech (CSE)	170005202	fig Data Analytics	2019-2020
183	058	M. Yech (CSE)	170005208	Internet of Things	2019-2020
82	058	M.Tech (CSE)	170005204	Mobile Application Development	2019-2020
183	058	M.Tech (CSE)	17CD05206	Professional Elective-Highuman Computer Interaction)	2019-2020
184	D58	M.Tach (CSE)	17CD05211	Professional Elective-N(Cloud Computing)	2019-2020
185	DSB	M.Tech (CSE)	170005213	Map Reduce Programming Lab:	2019-2020
386	058	M.Tech (L3E)	170053301	Research Methodology	2019-2020
387	058	M. Tech (CSE)	17CD05303	MOOC Course(Distributed Systems)	2019-2020
1515	058	M. Tech (CSE)	170006304	Teaching Assignment	2019-2020
189	056	M. Tech (CSE)	170005305	Project work - Phase I	2019-2020
390	058	M.Tech (CSE)	170005401	Seminar	2019-2020
393.	D58	M,Tech (CSE)	170005407	Project work - Phase II	2019-2020
192	063	M.Tech (PEBD)	17CD92191	Advanced Power Semiconductor Devices	2019-2020
393	083	M. Tech (PERO)	17CD02102	Machine Modeling and Analysis	12019-2020
394	083	M.Tech (PEB/D)	17CD02103	Solid-State DC Drives	2019-2020
395	083	M.Tech (PE&D)	17CD02104	Applications of Power Electronics to Power Systems	2019-2020
326	D83	M.Tech (PE&D)	17CD02107	Professional Elective-EAdvanced Digital Signal Processing)	2019-2020
397	083	M. Tech (PE&D)	17CD01109	Professional Elective-B(Solid State Lighting and Control)	2019-2020
396	D63	M. Yach (PEBD)	17CD02111	Power Electronics and Simulation Lish	2619-2028
399	063	M.Tech (PEB-0)	17(1302201	Advanced Power Convertors	2019-2020
400	(80	M.Tach (PE&D)	170002202	Power Quality	The second secon
401	083	M.Tech (PE&D)	17CD02203	Advanced Drives & Control	2019-2020
40Z	D83	M. Tech (PE&D)	17CD02204	Passwable Energy Conversion Systems	2019-2020
4	083	M.Tech (PE&D)	17CD02207	Professional Elective-DICHVDC & EHVAC Transmission Systems)	2019-2020
403	083	M. Tach (PE60)	17CD02209	Professional Elective-IV(Engergy Efficient Electrical Systems)	2019-2020
404		M. Tech (PE&D)	17CD02211	Electrical Drives and Simulation Lab	2019-2020
405	063	M. Tech (PERO)	17CD53301	Research Methodology	2019-2020
406	D83	M.Tech (PE&D)	1702002702	MOOC Coarsi(industrial Automation and Corrupt) 4	2019-2020
407	083	M. Tech (PE&D)	17CD02304	Teaching Assignment	2019-2020
408	081	M.Tech (PE&D)	17CD02305	Project work - Phase I	2019-2020
409	083	A STATE OF THE PARTY OF THE PAR	17CD02401	Sening	2019-2020
410	D83	M.Tech (PE&O) M.Tech (PE&O)	17CD02402	Project work - Plane II	2019-2020



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3.1 List of courses offered across all programs during last five years

-		***************************************	Course code	Course name	Year of offering the course
	Program code	Program name	17CA52101	Functional English	2018-2019
1	2	B.Tech EFE	17CAS4101	Mathematics-I	2018-2019
1	2	B. Tech EEE	17CA05101	Computer Programming	2018-2019
-	2	B. Tech EEE	17CA55101	Engineering Physics	2018-2019
-	2	B.Tech EEE	17CA03101	Engineering Drawing	2018-2019
1	2	The second secon	17CA52102	English Language and Communication Skills Lab	2018-2019
1	2	B.Tech EEE	17CA55102	Engineering Physics Lab	2018-2019
	2	B. Tech EEE	17CA05102	Computer Programming Lab	2018-2019
1	2	8.Tech EEE	17CA50101	Foundation of Yoga (Audit Course)	2018-2019
	2	B.Tech EEE	17CA52201	English for Professional Communication	2018-2019
	2	B.Tech EEE	17CA54201	Mathematics -II	2018-2019
-	2	B.Tech EEE	17CA51101	Engineering Chemistry	2018-2019
	2	B. Tech EEE	17CAS1103	Environmental Studies	2018-2019
	2	8.Tech EEE	17CA02201	Electrical Circuits-I	2018-2019
	2	B.Tech EEE	17CA03203	Engineering & I.T. Workshop	2018-2019
	2	B.Tech EEE	The state of the s	Engineering Chemistry Laboratory	2018-2019
	2	B.Tech EEE	17CA51103	Electrical Circuits Laboratory	2018-2019
	2	R Tech EEE	17CA02202	Clinical Psychology(Audit Course)	2018-2019
1	2	B Tech Eff	17CA50201	Functional English	2018-2019
1	3	B. Tech MECH	17CA52101	Mathematics-I	2018-2019
)	3	B. Tech MECH	17CA54101	Computer Programming	2018-2019
	3	8.Tech MECH	17CA05101	Engineering Chamistry	2018-2019
2	3	B.Tech MECH	17CA51101	Environmental Studies	2018-2019
3	3	B. Tech MECH	17CA51102	English Language and Communication Skills Lab	2018-2019
4	3	B.Tech MECH	17CA52102	Engineering Chemistry Lab	2018-2019
5	3	8.Tech MECH	17CA51103	Computer Programming Lab	2018-2019
6	3	8.Tech MECH	17CA05102	Foundation of Yoga (Audit Course)	2018-2019
7	3	B.Tech MECH	17CA50101	English for Professional Communication	2018-2019
8	3	B.Tech MECH	17CA52201		2018-2019
9	3	B.Tech MECH	17CA54201	Mathematics -II	2018-2019
0	3	B.Tech MECH	17CA55101	Engineering Physics	2018-2019
1	3	8.Tech MECH	17CA03101	Engineering Drawing	2018-2019
2	3	B.Tech MECH	17CA03202	Material Science and Engineering	2018-2019
13	3	B. Tech MECH	17CA03203	Engineering & LT. Workshop	2018-2019
14	3	B.Tech MECH	17CA55107	Engineering Physics Laboratory	2018-2019
15	3	B.Tech MECH	17CA03204	Material Science and Engineering Laboratory	2018-2019
16	3	B.Tech MECH	17CA50201	Clinical Psychology(Audit Course)	2018-2019
37	4	B.Tech ECE	17CA52101	Functional English	2018-2019
108	4	B.Tech ECE	17CA54101	Mathematics-I	2018-2019
39	4	B. Tech ECE	17CA05101	Computer Programming	2018-2019
40	4	B.Tech ECE	17CA51101	Engineering Chemistry	2018-2019
	4	B.Tech ECE	17CA51102	Environmental Studies	The state of the s
41	4	B.Tech ECE	17CA52102	English Language and Communication Skills Lab	2018-2019
42	4	B.Tech ECE	12CAS3103	Engineering Chemistry Lab	2018-2019
43	4	B. Tech ECE	17CA05102	Computer Programming Lab	2018-2019
44		B. Tech (CE	17CAS0101	Foundation of Yoga (Audit Course)	2016-2019
45	4	B.Tech ECE	17CA52201	English for Professional Communication	2018-2019
46	4	B.Tech ECE	17CA54201	Mathematics -II	2018-2019
47	4	B. Tech ECE	17CA5510L	Engineering Physics	2018-2019
48.	4		17CA03101	Engineering Drawing	2018-2019
49	4	B.Tech ECE	17CA02203	Network Analysis	2018-2019
50	4	8.Tech ECE	17CA03203	Engineering & L.T. Workshop	2018-2019
51	4	B.Tech ECE	17CA55102	Engineering Physics Laboratory	2018-2019
52.	4	B.Tech ECE	The second secon	Network Analysis Laboratory	2018-2019
53	4	B. Tech ECE	17CA02204	Clinical Psychology(Audit Course)	2018-2019
54	4	B. Tech ECE	17CA50201	Functional English	2018-2019
55	5	B.Tech CSE	17CA52101	Mathematics-I	2018-2019
56	5	B.Tech CSE	17CA54101	Committee Programming	2018-2019
57.	5	B. Tech CSE	17CA05101	Engineering Bhyons	
58	5	B.Tech CSE	17CA55103	E 11 CO (CE CO)	2018-2019
59	5	B.Tech CSE	17CA03101	English (Juniuspe and Communication Skills Lab	2018-2019
60	5	B.Tech CSE	17CA52102	English Cardinate and profinancement state can	2018-2019
61	-5	B. Tech CSE	17CA55102	Vigingering Physics Lab	OR 2018-2019 .
62	5	B. Tech CSE	17CA05102	Computer Programming Life (a) DIRECT	2018-2019
63	5	B.Tech CSE	17CA50101	Foundality of Your (Added Chandle Purpose	Inglingoring Cyllene
64	5	B.Tech CSE	17CA52201	Harman and the contract of the	7US) 2018-2019
65	5	B. Tech CSE	17CAS4201	Traditioning	
66	5	B.Tech CSE	17CA51101	Carlo Language	
Name and		B. Tech CSE	17CA51102	Environmental Studies	2018-2019
67	2	B.Tech CSE	17CA05201	Data Structypies #	2018-2019

	5	8.Tech CSE 1	7CA03201		018-2019
-	5		7CA05202	Python Programming & Engineering Chemistry Laboratory	018-2019
-	5		7CA05203	Data Structures Laboratory	018-2019
-	5		17CA50201	Flatful Ladelining discourse control	2018-2019
	EO		17CE00101	Infanagement & Organisational deliamos:	2018-2019
	EO		170000102	Managerial (Constitute	2018-2019
	E0		17CE00101	Accounting for interrugers	2018-2019
	EO	MBA	17CE00104	Business Statistics	2018-2019
	EO	MBA	17CE00105	BUSHIES CONTROLICATION	Contract Contract
	10		17CE00106	BUSINESS MENIALCIS MESTIGOS - 1	2018-2019
	EO EO		17CE00107	Industrial of the state of the	2018-2019
_	E0 E0		17CE00108	Business Comunication Cao	2018-2019
	EO	141011	17CE00109	Information recimology can	2018-2019
		11100.1	17CE00201	Human Resource Management	2018-2019
	EO	MBA	17CE00202	Financial Management	2018-2019
1	60		17CE00203	Marketing Management	2018-2019
	EO	MBA	THE RESERVE OF THE PARTY OF THE	Operations Research	2018-2019
5	EO.	MBA	17CE00204	Business Environment	2018-2019
6	EO	MBA	17CE00205	Operations Management	2018-2019
7	EO	MBA	17CE00206	Management Information Systems	2018-2019
8	EÜ	MBA	17CE00207	Management information systems	2018-2019
2	E0	MBA	17CE00208	Business Analytics Lab	2018-2019
0	£0	MBA	17CE00209	Business Communication Lab-II	2018-2019
1	FO	MCA	17CF54101	Probability and Statistics	2018-2019
2	FO	MCA.	17CF52101	Technical Communication Skills	And the second s
3	F0	MCA	17CF53101	Accounting and Financial Management	2018-2019
-	60	MCA	17CF00101	Mathematical Foundations of Computer Science	2018-2019
4		MCA	17CF00102	Introduction to Problem Solving and Programming	2018-2019
5	FD	MCA	170/52102	English Language Communication Skills Lab	2018-2019
6	FO		17CF00103	Computer Programming Lab	2018-2019
7	FO	MCA	A STATE OF THE PARTY OF T	IT Workshop 4	2018-2019
18	10	MCA	17CF00104	Organization Structure and Human Resource Managemen	2018-2019
99	F0	MCA	17CF53201	Data Structures	2018-2019
100	10	MCA	17CF00201	A STATE OF THE PARTY OF THE PAR	2018-2019
101	FD	MCA	17CF00202	Computer Organization	2018-2019
102	FO	MCA	17CF00203	Operating Systems	2018-2019
103	FO	MCA	17CF00204	Object Oriented Programming Through C++	2018-2019
104	F0	MCA	17CF52201	Advanced Communication Skills Lab	AMERICAN PROPERTY.
105	FO	MCA	17CF00205	Data Structures through C++ Lab	2018-2019
-	47.30	MCA	17CF00206	Python Programming Lating	2018-2019
106	FO.	M.Tech (VLSI&SO)	17CD04101	Structural Digital System Design	2018-2019
107	057		17CDG4102	CMOS Analog IC Design	2018-2019
208	057	M.Tech (VLSI&SD)	17CD04103	CMOS Digital IC Design	2018-2019
109	057	M.Tech (VLSI&SD)	A STATE OF THE PARTY OF THE PAR	Hardware Description Languages	2018-2019
130	057	M.Tech (VLSI&SD)	17CD04104	That own it is being spirit as the property of	2010 2010
111	057	M.Tech (VLSI&SD)	170004106	Professional Elective-I(Low Power VLSI Design)	2018-2019
112	057	M.Tech (VLSI&SD)	17CD04109	Professional Elective-II(Embedded System Design)	2018-2019
153	057	M.Tech (VLSI&SD)	17CD04111	Digital System Design Lab	2018-2019
114	057	M.Tech (VLSI&SD)	17CD04201	CPLD and FPGA Architecture Applications	A STATE OF THE PARTY OF THE PAR
41000	057	M.Tech (VLSI&SD)	170004202	Testing & Testablity	2018-2019
115		M.Tech (VLSI&SD)	17CD04203	CMOS Mixed Signal Design	2018-2019
116	057	M.Tech (VLSI&SD)	17CD04204	Algorithms for VLSI Design Automation	2018-2019
117	057	The second secon	170004205	Professional Elective Ill(Internet of Things)	2018-2019
118	057	M. Tech (VLSIBSD)	170004208	Professional Elective-FV(RF IC Design)	2018-2019
119	p5?	M.Tech (VLSI&SD)	The second secon	Mixed signal Lab	2018-2019
120	D57	M.Tech (VLSI&SD)	17CD04211	Advanced Power Semiconductor Devices	2018-2019
321	083	M.Tech (PESD)	17CD02101	Machine Modeling and Analysis	2018-2019
122	D83	M.Tech (PE&D)	17CD02102	Solid-State DC Drives	2018-2019
123	D83	M.Tech (PE&D)	17CD02103	Applications of Power Electronics to Power Systems	2018-2019
124	D83	M.Tech (PE&D)	17CD02104	Applications of Power Electronics to Power Systems	(5-315)
125	D83	M.Tech (PESD)	17CD02107	Professional Elective-9(Advanced Digital Signal Processing)	2018-2019
126	D83	M.Tech (PEBD)	17CD02109	Professional Elective-II(Solid State Lighting and Control)	2018-2019
_		M.Tech (PE&D)	17CD02111	Power Electronics and Simulation Lab	2018-2019
127		M. Tech (PE&D)	17CD02201	Advanced Power Convertors	2018-2019
128	063	The second secon	17CD02202	Proper Cighty to	
129	083	M. Tech (PE&D)	A CONTRACTOR OF THE PARTY OF TH	Marie Sthole	2018-2019
130		M.Tech (PE&D)	17CD02203	Andrea Cobin Engray Colored on Systems DIREC	CHC18-2019
131	083	M.Tech (PE&D)	17CD02204	Pyressional Elective III A Charles William Welling	Conjournies College
132	083	M.Tech (PE&D)	\$7CD02207	AUTONOA	10µS)
		M.Tech (PE&D)	17CD02209	Indessinal EletinGryv Later Efficient Electrical Biblio	2018-2019
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5	D04	M. Tech (CAD/CAM)	17CD54101	Teamputational inflations	018-2019
6	004	M. Tech (CAD/CAM)	17CD03101	Proprietable Commence and Comme	2018-2019
	004	M.Tech (CAD/CAM)	17CD03102	Competer integrates management	2018-2019
	004	M.Tech (CAD/CAM)	17CD03103	Ladvances in wanting records	2018-2019
9	004	M.Tech (CAD/CAM)	17CD03105	PE-I (Lumpute) Prote Protect P	2018-2019
	D04	M. Tech (CAD/CAM)	170009108	LE-id-rahed suppositional	2018-2019
1	004	M.Tech (CAD/CAM)	17CD03110	responding with the case	
2.	004	M.Tech (CAD/CAM)	17CD03201	possinces operation recommend	2018-2019
1	004	M.Tech (CAD/CAM)	17CD03202	STREET THE COURSE OF STREET	2018-2019
L	004	M.Tech (CAD/CAM)	17CD03203	Pure Permissing & programming	2018-2019
5	004	M.Tech (CAD/CAM)	17CD03204	Michiga Chines habbureacture in the property of	2018-2019
6	D04	M.Tech (CAD/CAM)	170003206	PE-III(Special Manufacturing Process)	2018-2019
7	D04	M.Tech (CAD/CAM)	170003209	PE-IV(Global Integrated Manufacturing)	2018-2019
8	004	M.Tech (CAD/CAM)	17CD03211	CAD/CAM Lab	2018-2019
_	D58	M.Tech (CSE)	17CD05101	Advanced Data Structures and Algorithms	2018-2019
9	A DESCRIPTION OF THE PERSON OF	The state of the s	17CD05102	Fundamentals of Data Science	2018-2019
0	058	M.Tech (CSE)	17CD05103	Computer Organization & Architecture	2018-2019
1	058	M.Tech (CSE)	The second secon	Advanced Operating System	2018-2019
2	058	M.Tech (CSE)	17CD05104	Professional Elective-I/Software Engineering	2018-2019
3	D58	M. Tech (CSE)	170005105	Professional Elective-II Data Mining and Knowledge Discovery	2018-2019
4	058	M.Tech (CSE)	170005109	Professional Elective-III Data Waining and Orderedge Consovery)	2018-2019
5	058	M. Tech (CSE)	17CD05113	Advanced Data Structures and Algorithms Lab	2018-2019
6	Q5B	M.Tech (CSE)	17CD05201	Object Oriented Analysis & Design	2018-2019
7	D58	M.Tech (CSE)	17CD05202	Big Data Analytics	CONTRACTOR OF THE PROPERTY OF
8	058	M.Tech (CSE)	17CD05203	internet of Things	2018-2019
19	D58	M.Tech (CSE)	17CD05204	Mobile Application Development	2018-2019
0	D58	M. Tech (CSE)	170005206	Professional Elective-III(Human Computer Interaction)	2018-2019
0	058	M. Tech (CSE)	170005211	Professional Elective-IV(Cloud Computing)	2018-2019
_	058	M.Tech (CSE)	17CD05213	Map Reduce Programming Lab	2018-2019
52.			17CA54301	Mathematics -III	2018-2019
E.	02	B.Tech EEE	The second secon	DC Machines	2018-2019
54	0.5	B.Tech EEE	17CA02301	Electrical Circuits-II	2018-2019
55.	02	B.Tech EEE	17CA02302	Electrical Measurements and Instrumentation	2018-2019
56	02	B.Tech EEE	17CA02303		2018-2019
57	02	B.Tech EEE	17CA04301	Electronic Devices and Circuits	2018-2019
68	05	B.Tech EEE	17CA02304	Electromagnetic Field Theory	
69	02	B. Tech EEE	17CA56301	Mandatory Course(Human Values and Professional Ethics	2010-2019
70	02	B.Tech Ett	17CA02305	Electrical Circuits and Simulation Laboratory	2018-2019
71	02	B.Tech EEE	17CA04305	Electronic Devices and Circuits Laboratory	2018-2019
72	02	B.Tech EEE	17CA02401	Power Generation Systems	2018-2019
73	62	B.Tech EEE	17CA02402	AC Machines - I	2018-2019
		B.Tech EEE	17CA04407	Linear and Digital Integrated Circuits	2018-2019
74	62	B.Tech EEE	17CA53501	Business Economics and Financial Analysis	2018-2019
75	02	A STATE OF THE PARTY OF THE PAR	17CA54401	Mathematics -IV	2018-2019
76	02	B.Tech EEE	- Contract C	Analog Electronic Circuits	2018-2019
27	02	8.Tech EEE	17CA04408	Value Added Course -1 (Matisb) #	2018-2019
78	02	B.Tech EEE	17CA57401		2018-2019
179	02	B.Tech EEE	17CA02403	DC Machines Laboratory	
180	02	B.Tech EEE	17CA02464	Electrical Measurements and Instrumentation Laboratory	2018-2019
81	03	8.Tech MECH	17CA54301	Mathematics-III	
82	03	B.Tech MECH	17CA03301	Thermodynamics	2018-2019
183	03	B.Tech MECH	17CA03307	Engineering Mechanics	2018-2019
84	03	B.Tech MECH	17CA03303	Manufacturing Technology	2018-2019
_	03	B.Tech MECH	17CA53301	Managerial Economics and Financial Analysis	2018-2019
185		B. Tech MECH	17CA03304	Engineering Drawing for Mechanical Engineers	2018-2019
186	03		17CA03305	Computer Aided Drulting Laboratory	2018-2019
187	03	8.Tech MECH		Manufacturing Technology Laboratory	2018-2019
188	03	8.Tech MECH	17CA03306	Mandatory Course(Human Values and Professional Ethic	
189	03	B.Tech MECH	17CA56301		2018-2019
190	03	B.Tech MECH	17CA54302	Probability and Statistics	2018-2019
191	03	B.Tech MECH	17CAD2405	Basic Electrical And Electronic Technology	2018-2019
192	03	B.Tech MECH	17CA03401	Mechanics of Solids	The state of the s
193	03	B.Tech MECH	17CA03402	Thermal Engineering-I	2018-2019
194	03	B.Tech MECH	17CA03403	Machine Drawing	2018-2019
195	03	B. Tech MECH	17CA03404	Kinematics of Machinery	The second district of
190	03	8.Tech MECH	17CA03405	Mechanics of Solids Laboratory	2018-2019
CONTRACTOR OF STREET		B.Tech MECH	17CA03406	Thermal Engineering Laboratory	2018-2019
197	03	The secretary and the second s	17CA57408		2018-2019
198	03	B.Tech MECH	THE RESERVE OF THE PARTY OF THE	Complex partie and Darrial Datherential Equations	2019
199	.04	B.Tech ECE	17CA54302	Electropic Deyces & Circuit Hodah wada Snemmonine	1018@60606np College
200	04	B.Tech ECE	17CAG4301	Distribute Devices in Contract	MANUE 2019
201	04	B.Tech ECE	17CA04302	Switching Vieury and Logic Design (AUTONO	2018-2019
202	04	B.Tech ECE	17CA04303	Probability Theory & Stochastic Photos TIRUP	A 2018-2019 2018-2019
203	04	B. Tech ECE	17CAD4304	Indian preside Alexander Indian	
204	04	B.Tech ECE	17CA02306	Basic Electrical Technological (1)	2018-2019
		B.Tech ECE	17CA04305	Electronic Devices and Circuits Labbradory	2018-2019

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06	04	B.Tech ECE	17CA02307	Designation of the Commercial Com	2018-2019
2	04	B.Tech ECE	17CA56301	managery con serious record	2018-2019
8	04	B.Tech ECE	17CA04401	Electronic Carolin Printing	2018-2019
10	04	B.Tech ECE	17CA04402	product communications	2018-2019
1	04	B. Tech ECE	17CA04403	Litter to reportation	2018-2019
	04	B.Tech ECE	17CA02501	Control agazeria	2018-2019
	04	B. Tech ECE	17CA04404	TERESTRAINING TO THE TERESTREET AND A CONTROL OF THE PERSON OF THE PERSO	2018-2019
	04	R.Tech ECE	17CA53301	THE STREET WELL CONTROL OF THE PROPERTY OF THE PARTY OF T	2018-2019
	04	B.Tech ECE	17CAD4405	ERECTORIC CITEDITY OF STATE AND ASSESSMENT	2018-2019
	04	B.Tech ECE	17CA04406	perand communications are	2018-2019
6	04	B.Tech ECE	17CAS7406		2018-2019
7	05	B. Tech CSE	17CA54302	Proceeding and Sections	2018-2019
8	05	B. Tech CSE	17CA04306	Digital Logic Design Discrete Mathematical Structures	2018-2019
9	05	8. Tech CSE	17CA05301		2018-2019
0	0.5	8.Tech CSE	17CA05307	Database Management Systems	2018-2019
1	05	B.Tech CSE	17CA02308	Basic Electrical and Electronics Engineering	2018-2019
2	05	B.Tech CSE	17CA53301	Managerial Economics and Financial Analysis	2018-2019
3	05	B.Tech CSE	17CA56301	Manuacuty Courseling and Thomas	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
6	05	B. Tech CSE	17CA05303	Database Management Systems Laboratory	2018-2019
5	05	8.Tech CSE	17CA02309	Basic Electrical and Electronics Laboratory	2018-2019
6	05	B.Tech CSE	17CA05401	Theory of Computation	2018-2019
7	05	B.Tech CSE	17CA05402	Software Engineering	2018-2019
8	05	B. Tech CSE	17CA05403	Computer Organization	2018-2019
9	05	B.Tech CSE	17CA05404	Statistics & R	2018-2019
80	05	B.Tech CSE	17CA05405	Java Programming	2018-2019
13	05	B.Tech CSE	17CA05406	Design and Analysis of Algorithms	2018-2019
12	05	B.Tech CSE	17CA57401	Value Added Course -\(\){Matlab}	2018-2019
13	05	B. Tech CSE	1.7CA05407	Statistics & R Laboratory	2018-2019
34	05	B. Tech CSE	17CA05408	Java Programming Laboratory	2018-2019
35	02	B. Tech EEE	15A02501	Electrical Measurements	2018-2019
36	02	B. Tech EEE	15A04509	Linear & Digital IC Applications	2018-2019
17	02	B.Tech EEE	15A02502	Electrical Power Transmission Systems	2018-2019
38	02	B.Tech EEE	15A02503	Power Electronics	2018-2019
39	02	B.Tech EEE	15A02504	Electrical Machines - III	2018-2019
40	02	B.Tech EEE	15A04510	MOOCS -I Digital Circuits and Systems	2018-2019
_	02	B.Tech EEE	35A02505	MOGCS 4 Networks Signals and Systems	2018-2019
41		B. Tech EEE	15A02506	Electrical Machines Laboratory - II	2018-2019
42	02		15A02507	Electrical Measurements Laboratory	2018-2019
43	02	B. Tech EEE	15A99501	Audit course – Social Values & Ethics	2018-2019
44	02	8.Tech EEE	- Contract C	Management Science	2018-2019
45	02	B.Tech EEE	15A52601	Power Semiconductor Drives	2018-2019
46	02	B.Tech EEE	15A02601	Power System Protection	2018-2019
47	02	B.Tech FEE	15A02602	Microprocessors & Microcontrollers	2018-2019
48	02	B. Tech EEE	15A04601	Power System Analysis	2018-2019
49	02	B. Tech EEE	15A02603	CBCC -I(Naural Networks and Fuzzy Logic)	2018-2019
50	02	B. Tech EEE	15A02604	Microprocessors & Microcontrollers Laboratory	2018-2019
51	02	B. Tech EEE	15A04607	The state of the s	2018-2019
52	0.2	B. Tech EEE	15A02607	Power Electronics & Simulation Laboratory	
53	02	8.Tech ffff	15A52602	Advanced English Language Communication Skills (AELCS)	2018-2019
154	02	8.Tech EEE	15A02608	Comprehensive Driline Examination - II	2018-2019
55	03	B.Tech MECH	15A01510	Fluid Mechanics and Hydraulic Machines	2018-2019
56	03	B.Tech MECH	15A03501	Thermal Engineering - II	The state of the s
57	03	B, Tech MECH	15A03502	Dynamics of Machinery	2018-2019
58	03	8.Tech MECH	15A03503	Machine Tools	2018-2019
259	03	8.Tech MECH	15A03504	Design of Machine Members - I	2018-2019
060	03	8.Tech MECH	15A03506	MODES -I(Mane Technology)	2018-2019
261	03	B.Tech MECH	15A01511	Fluid Mechanics and Hydraulic Machines Laboratory	2018-2019
162	03	B.Tech MECH	15A03508	Machine Tools Laboratory	2018-2019
263	03	B.Tech MECH	15A99501	Audit course - Social Values & Ethics	2018-2019
164	03	8.Tech MECH	15A03601	Operations Research	2018-2019
265	03	B.Tech MECH	15A03602	Design of Machine Members – II	2018-2019
266	03	B.Tech MECH	15A03603	Heat Transfer	2018-2019
167	03	8. Tech MECH	15A03604	Finite Element Method	2018-2019
and the latest designation of the latest des		B.Tech MECH	15A03605	Metal forming Process	2018-2019
268	03		The second secon	CBCC-I(Non Conventional Source of Energy)	2018-2019
269	03	B.Tech MECH	15A03606	The second secon	2018-2019
270	03	B.Tech MECH	15A03609	Computer Aided Engineering Jaboraton DIRECTO	2018-2019
271	03	B.Tech MECH	15A03610	The state of the s	5.8 TANK M. TANK 144
272	03	8.Tech MECH	15A52602	Advanced English Language Waveler Station Seein (AFF): Compart awards in Commission - II (AUTONOMOU) Consulty Decreasing Commission - III (AUTONOMOU)	William College
273	03	B.Tech MECH	15A03611	The state of the s	2018-2019
274	04	B.Tech ECE	15A04511		2018-2019
275	04	B. Tech ECI	15A04501	anterpris and wave richtigateur.	
	64	B.Tech ECE	15A04502	(Salphi Communication Systems	2018-2019

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17	04	8.Tech ECE	15A04503	Linear integrated Circuit and Taylor	018-2019
8	04	B.Tech ECE	15A04504	Trigging Skietgrit engage.	1018-2019
9.	04	B.Tech ECE	15A04506	Michigan Institute of Asset On Security	018-2019
0	64	B. Tech ECE	15A04507	SIL Applications Empirement	018-2019
1	04	B. Tech ECE	15A04508	O Sprai Communication i o spraint a constituti i	2018-2019
2:	.04	B. Tech ECE	15A99501	White course - secul values of course	2018-2019
3.	04	8. Tech ECE	15A52301	International and accommendation of the property of the property of	2018-2019
14	0.4	B. Tech ECE	15A04601	Intrict Operations of residuous accounts and a	2018-2019
35	04	B.Tech ECE	15A04602	Electronic areas correctly and	2018-2019
36	04	B.Tech ECE	15A04603	Digital Stockson	2018-2019
17	04	B. Tech ECE	15A04604	TACH Design	2018-2019
88	-04	B. Tech ECE	15A04605	Indian distance of the second	2018-2019
89	- 04	B.Tech ECE	15A04607 15A04608	Digital Signal Processing Laboratory	2018-2019
90	94	B. Tech ECE	The state of the s	English addition to receive the control of the cont	2018-2019
91	04	B.Tech ECE	15A52602	Comprehensive Online Examination-II	2018-2019
92	04	B.Tech ECE	15A04609	Operating Systems	2018-2019
93	05	B.Tech CSE	15A05501	Computer Networks	2018-2019
94	05	B.Tech CSE	15A05507		2018-2019
95	05	B.Tech CSE	15A05503	Principles of Programming Languages	2018-2019
96	05	B. Tech CSE	15A05504	Principles of Frogramming on Bouleau	2018-2019
97	05	B. Tech CSE	15A05505	Software resum	2018-2019
99	05	8.Tech CSE	15A05507	Object Orlented Analysis and Design & Software Testing Li	The second second
99	05	B.Tech CSE	15A05509		2018-2019
00	05	8.Tech CSE	15A0S510	Operating Systems Laboratory Social Values & Ethics (Audit Course)	2018-2019
01	05	B.Tech CSE	15A99501	The state of the s	2018-2019
02	05	B.Tech CSE	15A05601	Compiler Design	2038-2019
03	05	B. Tech CSE	15A05602	Data Warehousing & Mining	2018-2019
104	05	B. Tech CSE	15A05603	Design Patterns	2018-2019
05	05	B. Tech CSE	15A05604	Design and Analysis of Algorithms	2018-2019
106	05	B.Tech CSE	15A05605	Web and twinnet Technologies	2018-2019
107	05	B.Tech CSE	15A05606	CBCC-I(Optimization Techniques)	2018-2019
808	05	B. Tech CSE	15A05609	Web and Internet Technologies Laboratory	2018-2019
109	65	B.Tech CSE	15A05610	Data Warehousing & Mining Laboratory	The second secon
310	05	B. Tech CSE	15A52602	Advanced English Language Communication Skills(AELCS)	2018-2019
111	05	B. Tech CSE	15A05611	Comprehensive Online Examination-II	Contract Con
312	02	B. Tech EEE	15A02701	Electrical Distribution Systems	2018-2019
113	.02	B. Tech EEE	15A04603	Digital Signal Processing	2018-2019
314	-02	B.Tech EEE	15A02702	Power System Operation and Control	2018-2019
315	02	B.Tech EEE	15A02703	Utilization of Electrical Energy	2018-2019
314	62	B. Tech Eff	15A02706	CBCC-II(Energy Auditing and Demad Side Management)	2018-2019
327	.02	B.Tech EEE	15A02707	CBCC-III(Smart Grid)	2018-2019
318	02	B.Tech EEE	15A04608	Digital Signal Processing Laboratory	2018-2019
339	02	B.Tech EEE	15A02710	Power Systems & Simulation Laboratory	2018-2019
320	02	B. Tech EEE	15A02802	MOOCS - II(Power System Dynamics and Control)	2018-2019
321	02	B.Tech EEE	15402804	MOOCS - III(HVDC Transmission)	2018-2019
322	02	B.Tech EEE	15A02806	Comprehensive Viva Voce	2018-2019
323	02	B.Tech EEE	15A02807	Technical Seminar	2018-2019
324	02	B. Tech EEE	15A07808	Project Wark	2018-2019
325	03	B.Tech MECH	15A52601	Management Science	2018-2019
326	:03	B.Tech MECH	15A03701	Automobile Engineering	2018-2019
327	03	8.Tech MECH	15A03702	CAD/CAM	2018-2019
328	03	8.Tech MECH	15A03703	Metrology and Measurements	2018-2019
329	03	8.Tech MECH	15A03704	CBCC-H(Refrigeration and Air Conditioning)	2018-2019
330	03	B.Tech MECH	15A03707	CBCC-HI(Computatinal Fluid Dynamics)	2018-2019
331	03	B.Tech MECH	15A03710	CAD/ CAM Laboratory	2018-2019
337	03	B. Tech MECH	15A03711	Metrology and Measurements Laboratory	2018-2019
333	03	B.Tech MECH	15A03803	MOOCS-II(Composite Materials)	2018-2019
334	03	B.Tech MECH	15A03804	MOGCS -(II)(Power Plant Engineering)	2018-2019
335	03	B.Tech MECH	15A03807	Comprehensive Viva Voce	2018-2019
336	03	B.Tech MECH	15A03808	Technical Seminar	2018-2019
Action 1979	03	B.Tech MECH	15A03809	Project work	2018-2019
337		B Tech ECE	15A04701	Optical Fiber Communication	2018-2019
338	04	The second secon	15A04702	Embedded Systems	2018-2019
339	04	8 Tech ECE	15A04703	Microwave Engineering	2018-2019
340	- 04	B Tech ECE	The state of the s	Fretz Communications and Nathanskins	2018-2019
341	04	B.Tech ECE	15A04704	CBCC-II(Radar Systems) DIRECT	OM8-2019
342	04	B. Tech ECE	15A04705	CBCC-II(Digital Image Processing Iownder Kumenamung	2018-2019
343	04	B. Tech ECE	15A04708	CBCC-Hi(Digital Image Processed Inwards Kumenamina Microwave and Optical Communication Laboratory VI 9 Torin Miles Sancton Laboratory	2018-2019 College
No. of Lot	04	B. Tech ECE	15A04711	VLS a Tarth Miles As Short Laboratory Tables	2018-2019
344				The St. of Participant of the St. Participant of the St. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	ATTACABLE VALUE OF THE PARTY OF
344 345 346	04	B.Tech ECE B.Tech ECE	15A04712 15A04802	VLS A Torm Miller Systems Laboratory MOSC Sur (Low Power M. S. Circuits & Systems)	2018-2019

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8	04	B.Tech ECE 1	5A04805	Comprehensive Viva Voce	2018-2019
9	04	Britisher Con-	SA04806	Technical Seminar	2018-2019
0	04	40, 130-11 (6, 65)	5A04807	Project Work	2018-2019
1	05		5A52601	Management Science	2018-2019
2	05		5A05701	Grid & Cloud Computing	2018-2019
3	05		5A05702	Information Security	2018-2019
4	05		I5A05703	Mobile Application Development	2018-2019
55	05	B.Tech.CSE	ISA05704	CBCC-II(Software Architecture)	2018-2019
56	05	B.Tech CSE	15A05707	CBCC-III(Software Project Management)	2018-2019
57	05	B.Tech CSE	15A05710	Grid & Cloud Computing Laboratory	2018-2019
58	05	B.Tech CSE	ISA05711	Mobile Application Development Laboratory	2018-2019
59	05	B. Tech CSE	15A05802	MOOCS-II(Mobile Computing)	2018-2019
60	05		15A05B04	MODCS-III(Building Large Scale Software Systems)	2018-2019
61	05		15A05807	Comprehensive Viva-Voce	2018-2019
62	05		15A0580B	Technical Seminar	THE RESERVE OF THE PARTY OF THE
	05	The second secon	15A05809	Project Work	2018-2019
63	E0 03	The second secon	17CE00301	Entrepreneurship Development	2018-2019
64		711007	17CE00302	Business Research Methods II	2018-2019
65	EO	MBA	17CE00311	Services Marketing	2018-2019
56	60	The second secon	17CE00331	Performance Management	2018-2019
67	60		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	Financial Institutions, Markets and Services	2018-2019
168	E.0	MBA	17CE00322 17CE00332	Human Resource Development	2018-2019
169	£0	MBA	COMPANY OF THE PARTY OF T	Security Analysis & Portfolio Management	2018-2019
70	E0 .	MBA	17CE00321	Organisational Development	2018-2019
371	60	MBA	17CE00333	Retail Management	2018-2019
172	EÜ	MBA	17CE00314	Employee Engagement and Empowerment	2018-2019
373	ED.	MBA	17CE00334		2018-2019
374	£0	MBA	17CE00317	Internet Marketing	2018-2019
375	EO	MBA	17CE00303	Business Simulation Laboratory II	2018-2019
176	E0 .	MBA	17CE00401	Strategic Management	2018-2019
377	60	MBA	17CE00402	International Business Management	2018-2019
178	EO	MBA	17CE00403	Legal Aspects of Business	The state of the s
379	10	MBA	17CE00411	International Marketing	2018-2019
380	EO	MBA	17CE00431	Knowledge Management	2018-2019
381	EO	MBA	17CE00424	Financial Derivatives	2018-2019
and the latest designation of the latest des	EO	MBA	17CE00432	International Human Resource Management	2018-2019
382	EO	MBA	17CE00414	Advertisement and Sales Promotion Management	2018-2019
383		MBA	17CE00404	Project Work	2018-2019
384	EO	MCA	17CF00301	Database Management Systems	2018-2019
385	FO.	***************************************	17CF00302	Computer Networks	2018-2019
186	FO.	MCA	The second secon	Linux Programming	2018-2019
387	F0	MCA	17CF00303	Software Engineering	2018-2019
388	FD	MCA	17CF00304	Java Programming	2018-2019
285	FO.	MCA	17CF00305	Database Management Systems Lab	2018-2019
390	10	MCA	17CF00306	Unix Programming Lab	2018-2019
391	F0	MCA	17CF00307		2018-2019
392	FG	MCA	17CF0030B	Java Programming Lab	2018-2019
191	FD	NCA	17CF00401	Object Oriented Analysis and Design	2018-2019
394	FD.	MCA	17CF00402	Web Technologies	2018-2019
395	FO	MCA	17CF00403	Data Warehousing and Mining	2018-2019
196	FO	MCA	17CF00405	Information Security (Elective -1)	2018-2019
397	FO	MCA	17CF00408	Distributed Systems (Elective – II)	2018-2019
398	FO	MCA	17CF00410	Object Oriented Analysis and Design Lab	The second secon
399	FO	MCA	17CF00411	Web Technologies Leb	2018-2019
400	FO	MCA	17CF00412	Data Warehousing and Mining Lab	2018-2019
-	D57	M.Tech (VLSI&SD)	170005301	Research Methodology	2018-2019
401		M.Tech (VLSI&50)	17CD04302	MOOC Course I (Development of New Time Systems)	2018-2019
402	DSF	M.Tech (VLSI&SD)	17CD04304	Teaching Assignment	2018-2019
403	057	M. Tech (VLSI&SD)	17CD04305	Project Work Phase I	2018-2019
404	057	The second secon	17CD04401	Technical Seminar	2018-2019
405	D57	M. Tech (VLSI&SD)	170004305	Project Work Phase-II	2018-2019
406	057	M.Tech (VLSI&SD)	The state of the s	Research Methodology	2018-2019
407	D83	M.Tech (PE&D)	170053301	MODC Course(Industrial Automation and Control)	2018-2019
408	D83	M.Tech (PE&D)	17CD02302	Teaching Assignment	2018-2019
409	063	M.Tech (PE&D)	17CD02304		2018-2019
410	D83	M. Tech (PE&D)	17CD02305	Project work - Phase I	2018-2019
411	D83	M.Tech (PE&O)	17CD02401	Seminar Project work - Phase II	
412	D83	M.Tech (PERD)	170002402	F 1 SQUAR SHOT IN	2018-2019
413	D58	M.Tech (CSE)	170053301	Research Methodology	CONTRACTOR
414	058	M.Tech (CSE)	17CD05303	MODE Course(Distributed Systems)	2018-2019
415	D58	M.Tech (CSE)	17CD05304	Topalmic Astronomic DIRECTOR	2018-2019
-	D58	M.Tech (CSE)	17CD05305	Michigan Work - Phase	2018-2019
414			17CD05401	Springer Chair Awards Romanamento Engin	
417	DSE	66 Tech (CSE)	17CD05402 /	Project work - Phuse H (AUTONOMOUS)	2018-2019

				Research Methodology	2018-2019
419	004	M. Tech (CAD/CAM)	17CD53301		2018-2019
120	004	M.Tech (CAD/CAM)	17CD03301	MOOC Course(Design for Manufacturing)	2018-2019
420		The second secon	17CD03304	Teaching Assignment	The second division in
421	D04	M.Tech (CAD/CAM)		Project work - Phase I	2018-2019
422	D04	M.Tech (CAD/CAM)	The second secon	- Contract of the Contract of	2018-2019
420 421 422 423	004	M.Tech (CAD/CAM)	17CD03401	Seminar	2018-2019
46.0	200	A Took (CASACACAA)	17CD03402	Project work - Phase II	10030



DIRECTOR

Chadalawada Ramunamma Engineering College (AUTONOMOUS) TIRUPATI

AV 2017:	

de Frogram name	Course code	Course nerve	Year of affering the court
B.Tech EEE	17CA52101	functional English	2017-2018
II. Tech EEE	17CA54101	Mahematica-I	2017-2018
B.Tech EEE	17CA05301	Computer Programming Engineering Physics	2017-2018
B.Tech EEE	17CASS101	Engineering Drawing	2017-2018
8.Tech SEE	17CAG9101 17CAG2102	English Language and Communication Skills Lab	2017-2018
B Tech EEE	17CAS5102	Engineering Physics Lab	2017-2018
		Computer Programming Lish	2017-2018
The second secon		Foundation of Yoga (Audit Course)	2017-2018
	17CA52201		2017-2018
	17CA54201	Mathematics II	2017-2018
	17CA51101		2017-2018
B. Tech EEE	17CA5110Z		2017-2018
B. Tech EEE	17CA02361		2017-2018
# Tech EEE	THE RESERVE OF THE PARTY OF THE	Engineering & LT Workshop	2017-2018
#. Tech EEE		Engineering Charactery Laboratory	2017-2018
			2017-2018
	A CALL PROPERTY AND ADDRESS OF THE PARTY AND A		2017-2018
The second secon			2017-3018
	- A Contract of the Contract o		2017-2018
- Carlo Carl	And the state of t		2017-201B
			2017-201B
The second secon	The state of the s	English Language and Communication Skills Lab	2017-2018
	- Control of the second	Engineering Chemistry Lab	2017-2018
Early Digmontoning formatter		Competer Programming Lab	1017-2018
		Fouritistion of Yoga (Audit Course)	2057-2018
	17CA57301	English for Professional Communication	2017-2018
	17CA54201	Mathematics III	2017-2018 2017-2018
B. Tech MITCH	17CA95101	Engineering Physics	2017-2018
2,000,000,000,000	17CA03101	Engineering Drawing	2017-2018
8 Tech MECH	17CM59203	Material Science and Engineering	2017-2018
B.Tech MCO1	17CA03203	Engineering B.L. Workship	2017-2018
8-Tech MECH	17CASS303	Engineering Physics Estimatory	2017-2018
8 Tech MICH	17CA03204	Material Science and Engineering Laboratory	2017-2018
#.Tech MECH	17CAS0201		2017-2018
5, Tech CCE	17CAS2101		2017-2018
8 Tech ECT	17CA54101		2017-2018
B Tech ECE			2017-2018
B.Tech ECI	The state of the s		2017-2018
		Environmental students	2017-2018
		English Language and Communication Services	2017-2018
		Commenter Programments (4)	2017-2018
		Empirical of York (April Course)	2017-2018
	The second secon	Feetish for Professional Communication	2017-2018
			2017-2018
The second secon	AND ADDRESS OF THE PARTY OF THE	- VALUE OF THE PARTY OF THE PAR	2017-2018
The second secon	The second secon	The Control of the Co	2017-2018
			2017-2018
	Control of the Contro		2017-2018
			3017-2018
			2013-2018
			2017-2018
The second secon	AND AND AND ADDRESS OF THE PARTY OF THE PART		2017-2018
			2017-2018
The second second second second		Computer Programming	2017-2018
	The state of the s		2017-2018
		Engineering Drawing	2017-2018
and such a first supplement		English Language and Communication Skills Lati	2017-2018
The second secon	The second secon	Engineering Physics Life	2017-2018
The second secon		Consputer Programming Lab	2017-2018 3017-2018
8.Tech CM	17CA50101	Foundation of Yoga (Audit Course)	2017-2018
	17CA52301	English for Professional Continuoscotion	2017-2018
	17CA54101	Mathematics -II	2017-2018
	170003101	Engineering Chemistry	2017-2018
	17CA51102	Environmental Studies	2017-2018
B.Tech CS€	17CA05701	Data Structures	2917-2018
8 Tech CSE	17CA03201	Engineering & LT Workshop	2017-2018
8.Yech CSE	17CAD5202		2017-2018
8 Yech CSE	37CA05203		2017-2018
B. Tech CSE	1/CA50081	Cancel Psychology/Addit Collise	2017-2018
MBA	170000101	Management & Organisational benefitsur	2017-2018
MBA	170100100		2017-2018
MBA	17CE00003		2017-2018
MEA	170E00104		2012-2018
MBA	170800105	L.	RECTOR 2017-2018
MEA	17CE00106	Business Research Newscore - Character awards D	2017-2018
) MBA	170500107	Indicination Technology of Managers	antitioning Language Total Polisions
MBA	170500108	Euriness Comfort of San California (All	FONOMOUS) 2017-2018
D. MBA	17CE00109 17CE00201	Human Resistre Management	TIRUPATI 2017-2018
10101010101	B. Tech EEE B. Tech MECH B. Tech ECE B. Tech CCE B.	B. Tech EEE 17CAS0101 B. Tech EEE 17CAS0103 B. Tech MECH 17CAS0103	STIGNT DEST STEASONO

				Productive and the second	2017-2018
	60	MBA	170500202	Principal Recognition	2017-2018
-	60	MBA	170100203	The source of the second	2017-2018
	80	MBA	170100204	Operations reposed:	2017-2018
-	60	MBA	170(00305	BASITETS CASC STREETS.	2017-2018
-	60	MSA	170000200	Operations Management	2017-2018
1	ED:	MBA	17000007	Management information Systems	2017-2018
	60	MBA	17000008	Business Analytics Lab	2017-2018
Т	100	MBA	170500209	Business Communication Lab-II	2017-2018
Т	FD	MCA.	17CF54101	Probability and Statistics	
Г	10	MCA	17CF52101	Technical Communication Skills	2017-2018
Т	10	MCA	17CF53101	Accounting and Financial Management	2017-2018
Т	FG	MCA	17CF00101	Mathematical Foundations of Computer Science	2017-2018
т	FO-	MCA	170F00102	Introduction to Problem Solving and Programming	2017-2018
т	10	MCA	17CF52102	English Language Communication Skills Lab	2017-2018
+	10	MCA	120700103	Computer Programming Lab	2017-2018
+	10	MCA	120700104	of Workshop	2017-2018
t	FD	MCA	120F53201	Driganitation Structure and Human Resource Management	2017-2018
۰	10	MCA	170700201	Data Structures	2017-2018
+	10	MCA	170/00702	Computer Organization	2017-2018
÷	10	MCA	170F00203	Operating Systems	2017-2018
٠				Object Oriented Programming Through Con	2017-2018
	FO	MCA	170F00Q04	Advanced Communication Skills Lab	2017-2018
+	FD	MCA	170F52201		2017-2016
1	60	MCA	17CHQ0201	Ours Structures through C++ Lab	2017-2018
1	10	MCA	170700204	Python Programming Lab	2017-2018
I	057	M.Tech (VLSI&SD)	17CD04101	Structural Digital System Design	- EARLY STATE OF THE PARTY OF T
T	067	M.Tech (VLSI&SD)	17CD04102	CMOS Analog IC Design	2017-2018
T	057	M.Tech (VISI850)	17CD04103	CMOS Digital IC Design	2017-2018
Ť	057	M.Tech (VLSI&SD)	170004104	Hardware Description Languages	2017-2018
+	7007	100000000000000000000000000000000000000	170004106	Mail 1995 Brook of the Wallington and Union	2017-2018
1	057	M.Tech (VLS18/00)	4500,000	Professoral Elective-li Low Power VLSI Dissign)	emictions)
+	3350	1100 Y 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10	170008109		2017-2018
1	057	M.Tech (VLSI&SD)	1000 CONTO 1000 CO	Professional Elective-II(Embedded System Design)	(CERTAIN PROPERTY)
+	057	M.Tech (VLSI&SD)	120000111	Digital System Design Lab	2017-2018
+	057	M.Tech (VLSI&SD)	170004201	CPLD and FPGA Architecture Applications	2017-2018
	057	M.Tech (VLSI&SD)	170004202	Testing & Yestability	2017-2018
1		The second secon	170004203	CMOS Mixed Signal Design	2017-2018
1	063	M.Tech (VLSI&SD)	# NOVEMBER OF THE PROPERTY OF		2017-2018
1	357	M,Tech (VLSI&SD)	17CD04204	Algorithms for VLSI Design Automation	2017-2018
	257	M.Tech (VLSIESD)	17CD04205	Professional Elective-III(Internet of Things)	2017-2018
4	057	M.Tech (VLSI&SD)	17CD0A208	Professional Elective-IV(RF IC Design)	2017-2018
	180	M.Tech (VL9850)	17CD04211	Mixed signal Lab	
	D83	M.Yoth (PE&D)	17CD02101	Advanced Power Semiconductor Devices	2017-2018
8	089	M. Tech (PE&D)	17CD02102	Machine Modeling and Analysis	2017-2018
1	089	M.Tech (PERD)	17CB02103	Solid-State DC Drives	2017-2018
1	089	M. Toch (PESD)	170002104	Applications of Power Electronics to Power Systems	2017-2018
1	049	M.Tech (PESD)	17CD62167	Professional Elective & Advanced Digital Signal Processing	2017-2018
_	083	M.Toch (PESD)	(7CD02109	Professional Elective-B(Solid State Lighting and Control)	2017-2018
4			170002111	Power Electronics and Sinutation Lab	2017-2018
Ц	088	M.Tech (PESD)	- Company of the Comp	Advanced Power Converters	2017-2018
4	084	M.Tech (PE&D)	170002201	The state of the s	2017-2018
	083	M. Tech (PEBO)	170002202	Power Quality	2017-1018
)	0.63	M.Tech (PEBD)	17CD02203	Advanced Drives & Control	2017-2018
	088	M.Tech (PE&O)	17CD02204	Renewable Energy Conversion Systems	
	063	M.Tach (PESO)	17CD02207	Professoral Electro-ERHVDC & EHVAC Transmission Systems)	2017-2018
П	263	M.3ech (PESO)	170002209	Professional Electrics-CylEngergy Efficient Electrical Systems)	2017-2018
1	083	. M.Tech (PESO)	17CD02211	Electrical Orives and Simulation Lab	2017-2018
H	004	M. Tech (CAD/DAV)	170054101	Computational Methods	2037-2018
-	404	Committee of the commit	170000101	Advanced Finite Dement Methods	2017-2018
	D04	M. Tech (CAD/ CAM)	170003102	Computer Integrated Manufacturing	2017-2018
-4	004	M. Tech (CAD/CAM)		Advances in Manufacturing Technology	2017-2018
	008	M.Tech (CAD/CAM)	170003103	And the Control of th	2017-2018
4	D04	M. Tech (CAD/CAM)	170003105	PE ((Computer Aided Process Flenning)	2017-2018
4	004	M.Tera (CAD/CAM)	170003108	PE INFlagic Prototyping)	
	004	M. Tech (CAD/CAM)	170003110	Modeling And CNC Lab	2017-2018
	004	M.Texh (DAD/CAM)	170001201	Advanced Optimization Techniques	2017-2018
	2004	M.Tesh (DAD/CAM)	170001202	Industrial Robotics and Expert systems	2017-2018
đ	204	M. Tech (CAD/CAM)	170001203	CNC Technology & programming	2017/2018
Ħ	004	M.Tech (CAD/CAM)	170003204	Mechatronics Applications in Manufacturing	2017-2018
	004	M.Tech (CAD/CAM)	170003294	PE-II(Special Menufacturing Process)	2017-2018
H	004	MiTech (CAD/CAM)	12CD03204	PC-Ps[Sichal Integrated Manufacturing)	2017-2018
	004	The second secon	17CD03211	CAD/CAM Lab	2017-2018
		M:Tech (CAD/CAM)		Advanced Data Structures and Algorithms	2017-2018
	-058	M.Tech CSE	17CD05101		2017-2018
	CSA	M.Tech.CSE	17CD05102	Rundamentals of Data Science	2017-2018
3	C56	McTech CSE	17CD05103	Computer Organization & Architecture	2017-2018
	088	M. Tech CSE	17CD05104	Advanced Operating System	
1	DS8	M. Tech CSE	17CD06106	Professional Dective-(Software Engineering)	2017-2018
	DBH	M. Tech CSE	170005109	Professional Elective-IEData Mining and Engwiedge Discovery)	2017-2018
	Disa	M.Tech CSE	170005133	Advanced Data Structures and Algorithms Lab	2017-2018
	DSB	M.Tech CSE	17CD05201	Object Oriented Analysis BiDesign	2017-2018
ì	DSB	M.Tech CSE	170005202	Big Data Analytics	2017-2018
	Dta	M.Tech CSE	17CD05203	Interest of Diograph	2017-2018
_		The second secon		Mable Application Development	2017-2018
1	058	M.Tech CSE	170005204		2017-2018
Ь.	058	M.Tech CSE	170005306	Professional Becove 4(Human Computer Interaction)	
1	E158	M.Tech CSE	170005311	Map Reduced Company Company Chedelpoweds To Chedelpowed To Ch	TAKEN NOON
	1353	M.Tech CSE	170005213	Map Reduce Top (all test Class) As Chedelinwoods Hamenoroma Lag	2017-2019
	02	#,Tech EEE	15A54501	Mathematical - (In-	7017-2018 0071-008
	02	B, Tech EEE	15A02301	Electron No. 200 - II (AUTONOMOUS	1011-1016-billage
1	N/A			Excrate No res -1	

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	00	B.Tech fill	13400303	Control bystams Engineering	017-2018 017-2018
$^{-}$	02	B.Tech EEE	18404301	Electronic Devices & Carours	017-2018
	62	B.Tech Ett	15A05201	Dica Structures	217 2018
_	02	B. Tech EEE	15AG2305	Electric circuits participation (allocation)	017-2018
	02	B,Tech EEE	15A04005	Electronic Devices & Circles Cacoretry	017-2018
	0.2	B, Tesh EEE	15A54402	Mathematics = 77	017-2018
	0.2	B. Fech EEE	15A32301	Managerial Economics and Francis Company	017-2018
	02	B.Tech EEE	(5A02491	Exercised Machiners - II	017-2018
	92	B.Tech EEE	15AC0400	Cartesia Hower Generaling Systems	017-2018
	02	B.Tech EEE	15A02403	Cattleting and Cattle	017-2018
	03	B Tech EEE	15404409	Analog Electronic Corcurs	017-2018
	50	9.Tech EEE	15A02404	Electrical Maderials Caporatory - 1	017-2018
	02	8.Tech EEE	15A02406	(Camin systems a continuos recoveres)	017-2018
П	02	8.Tech titt	15A02406	Carpetenne Own Comment	917-2018
	03	B.Tech MECH	10A54301	Managaranca - III	013-2018
	03	6.Tech MECH	15A52301	Manageral Economics & Princips Arteryon	017-2018
	03	6.Tech MECH	15A01308	DMBCHMINES 17 00935	017-2018
Г	03	B. Tech MECH	15A03301	Engineering browning resources to Grants	017-2018
г	08	B.Tech MECH	15A03302	Engineering sociation	017-2018
۲	- 05	B.Tech MECH	15A03303		017-2018
F	03	8.Tech MECH	15A01309	Mey Tallick of System Line	1017-2018
t	.03	B.Tech MECH	15A93304	Company April Litting List	A STATE OF THE PARTY OF THE PAR
Н	03	8.Tech MECH	15A54401	Proposition and Sastace	1017-2018
+	03	8.Tech MED1	15489001		2017-2018
+	03	9.Tech MEDI	15A03421	Martine Orderic	2017-2018
+	98	B.Tech MEDI	15A09482	Kinerodita of Madesia	1013-2018
+	43	B. Teich MECH	15A03403	Theretal Copposition - 1	2017-2018
+	08	B.Teich MECH	15A03404	Manufacturing Technology	2017-2018
۲	05	B.Tech MECH	15403405	Thermal Copinacing Laboratory	2017-2018
٠	03	B. Tech MECH	15AEHOE	Manufacturing Technology Laboratory	2017-2018
1			15A2H07	Companiessive Online Examination-I	2017-2018
+	04	B.Tech MECH	15A54301	Mathematics.ill	2017-2018
1	04	#.Tech ECE	15A54301	Electronic Davices and Corpina	2017-2018
1	04	6.Tech ECE	15A04302	Switching Theory and Logic Design	1017-2018
1	04	B.Tech ECE	A STATE OF THE PARTY OF THE PAR	Signals and Systems	2017-2018
1	04	B. Tack ECE	15A043E3	Probability Theory are Stochastic Processes	2017-2018
L	- 04	b. Tech ECE	15A04364	Electrical Technology	2017-2016
L	04	B.Tech ECE	15A0230E	Electronic Devices and Circuits Laboratory	2017-2018
Ш	- 04	B.Tech ECE	15A04005	Decreal Technology and Basic Simulation Laboratory	2017-2018
L	Dž	III. Tech ECE	15A02007		2017-2018
Ι	.04	8.Tech ECE	15854402	Mathematics-IV	2017-2018
Τ	04	5.7 ach ECE	15A04401	Electronic Circuit Analysis	2017-2018
Т	.04	6.Tech-ECE	15AD4402	Assing Communication Bystems	1017-2018
Т	- 104	B.Tech ECE	15AD4423	Electromagnetic Theory and Transmission Lines	2017-2018
T	04	B.Tech ECE	15A05201	Data Stratiums	2017-2018
T	04	B.Tech ECE	15A02303	Curard Systems Engineering	2017-2008
T	04	B.Tech ECE	15A04404	Electronic Circuit Analysis Laboratory	2017-2018
Ť	04	9.Tech ECE	15A04405	Arolog Communication Systems Laboratory	2017-201B
Ť	04	8.Tech ECE	15A04406	Comprehensive Online Examination-1	The state of the s
1	05	B. Tech CSE	15A54331	Mathematics III	2017-2018
1	05	fi. Tech CSE	15A05331	Database Management Systems	2017-2018
+	65	B.Tech CSE	15A05302	Discrete Mathematics	2017-2018
+	85	fi.Tech CSE	15A98301	Basic Electrical and Electronics Engineering	2017-2018
+	05	II. Tech CSE	15A04306	Cigari Lagio Design	2017-2018
1	05	B. Tech CSE	15452301	Managerial Economics and Financial Analysis	2017-2018
	05	8.Tech CSE	15A05303	Detailable Management Systems Laboratory	2017-2018
4	05	8.Tech CSE	15499302	Basic Districts and Deprends Laboratory	2017-2018
4			15A54401	Probability and Statishiss	2017-2018
4	05	B. Tech CSE B. Tech CSE	15A05401	Schwirt Engineering	2017-2018
4	05		13A05401	Consider Organization	2017-2018
4	05	B. Tech CSE	15A04407	Managerossiss & Hiertwing	2017-2018
4	05	B. Tech CSE		Closed Created Programming using Java	2017-1018
4	05	fl. Tech CSE	15A08403	Formal Languages and Automate Theory	2017-2018
	65	III. Teich CSE	15A05404	Microprocestors & interfacing Laboratory	2017-2018
	05	B.Tech CSE	15/04408		2017-2018
	05	B.Tech CSE	16A05405	Jave Programming Laboratory	2017-2018
	05	8.Tech CSE	15405406	Comprehensive Online Examination-I	2017-2018
	02	8.Fach EEE	15402501	Dedical Messurmeris	2017-2018
	02	B.Tech titt	15A04509	Linear & Digital ID Applications	2017-2018
Ü	0.2	B.Tech Eff	15A02902	Electrical Power Transmission Systems	2017-2018
	02	B,Tech EEE	15A09563	Power Electronics	2017-2018
	02	B.Tech EEE	15A02504	Electrical Machines - III	2017-2018
ï	92	B.Tech EEE	15804510	MODES 4 Digital Circuits and Systems	2017-2028
7	02	B.Tech EEE	15A02505	MODOS 4 Networks Signals and Systems	2017-2018
1	02	B.Tech EEE	15402506	Decision Machines Laboratory – II	
,	02	B.Tech EEE	15A22507	Electrical Measurements Laboratory	2017-2018
0	02	B Tech Life	15A99501	Audit course - Social Values & Edition	2017-2018
-	02	B Tech EEE	15A53801	Mahagement Science	2017-2018
1		The second secon	15A02801	Power Seminanductor Drives	2017-2028
1	02	B.Tech [III			2017-2018
3	02	9. Tech EEE	15A00602	DITLUTOR	2017-2018
4	- 02	B.Tech EEE	15A04601		
5	02	B.Tech EEE	15A00503	Power System Analysis CRCC - Weight Speed Lymp Legic) (ALLTONICAN DESCRIPTION OF THE PROPERTY	1917 2016 pa
6	DE	B.Tech EEE	15A02604	CECC 4(Neural Spewer to and Lycry Legic) (AUTONOMOUS) Microprocegating Microbiologica Languages	2017-2018
7	0.2	B.Tech EEE	15A34807 15A00837	Pour Secrete La STOTE CONTROL TIRUPATI	2017-2018
8	0.2	B.Tech EEE		Animate Charles and an Constitution of the (ADLCD) Laboratory (Audit Course)	

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00 03 03	B.Tech MICH			
D3	SECONDA MARKET	15A01510	Fluid Mocharics and Hydraulic Machines	2017-2018 2017-2018
	9. Tech MICH	15400501	Thermal Engineering - II	2017-2018
09	S.Tech MtCH	15A03502	Dynamics of Machinery Machine Tools	2017-2018
09.	8. Tech MECH	15A03503 15A03504	Design of Machine Members - I	2017-2018
Q8	B. Tech MECH B. Tech MECH	15403506	MODES (Ithana Technology)	2017-2018
	B.Tech MECH	15401511	Fluid Mechanics and Hydraulic Machines Laboratory	2017-2018
03	B.Tech MECH	15AC2508	Machine Tools Laboratory	2017-2018
03	8.Tech MECH	15499501	Audit course - Social Values & Elfers	2017-2018
0.3	8-Tech MECH	15A03901	Operations Research	2017-2018
1 03	8.Tech MECH	15A03602	Clesign of Mactine Members - II	2017-2018
2 03	9.Tech MECH	15AE0803	Heat Transfer	2017-2018
9 93	B. Tech MECH	15A03604	First Demant Method	2017-2018
4 01	B.Tech MECH	15A03605	Metal forming Process CBCC-I(Non Conventional Source of Energy)	2017-2018
5 93	B. Tech MECH	15A03606	Hear Transfer Laboratory	2017-2018
6 03	E.Tech MECH	15403609	Computer Acted Disgressing Loboratory	2017-2018
7 03	B.Tech MECH	15403010	Advenced English Language Consequences Sallo (AELCS) Laboratory (Audit Colone)	2017-2018
a 03	S.Tech MECH	15A52602	Comprehensive Online Examination—II	2017-2018
9 03	8.Tech MICH	15A33911	Complete Organization	2017-2018
0 04	6.Tech CCE	15A04511 15A04501	Antennas and Wave Propagation	2017-2018
1 04	B.Tech CCE	15A04582	Digral Communication Systems	2017-2018
2 04	B. Tech ECE	15A04563	Liteair Megrated Circuits and Applications	2017-2018
9 04	B. Tech ECE B. Tech ECE	15A(A504	Digital System Delign	2017-2018
9 96	8.Tech ECE	15AQ4506	MODES (MEMS & Management)	2017-2018
	8.Tech ECE	15A04907	IC Applications Coheratory 2	2017-2018
6 04 7 04	B.Tech ECE	15A34508	Digital Constructions Systems Laboratory	2017-2018
8 D4	8.Tech ECE	15A88901	Audi chirae - Social Values & Ethica	2017-2018
9 04	E. Tech ECE	15A52301	Managerial Economics and Financial Analysis	2017-2018
0 04	B. Tech ECE	15A04601	Microprocesses & Microcontrollers	2017-2018
1 04	B. Tech ECE	15A04822	Glectrone Mossumments and Instrumentation	2017-2018
12 04	B. Tech ECE	15A04683	Digital Signal Processing	2017-2018 2017-2018
8 04	B. Tech ECE	15A04504	VLS: Design	2017-2018 2017-2018
4 04	II. Tech ECE	15004603	CBCC-(Matlab Programming)	2017-2018
04	B.Tech ECE	15AQ400T	Microprocessors & Microcontrollers Littlerstory	2017-2018
86 04	B.Tech CCL	15A04608	Digital Signal Processing Laboratory	1017-2018
87 04	8.Tech ECE	15A52800	Advanced English Language Communicatio (AELCE) Laboratory (Audit Giurse)	2017-2018
98 04	8-Tech ECE	15A04809	Comprehensive Online Examination-II	2017-2018
88 (35	B Tech CSE	15A(8501	Operating Systems Computer Networks	2017-2018
80 (IS	B Tech CSE	15405502	Object Oriented Analysis and Diesign	2017-2018
11 05	8 Tech CSE	15A05500 15A05504	Precise of Pregramming Languages	2017-2018
12 05	9.Tech CSE 9.Tech CSE	15A05606	Software Testing	2017-2016
10 05	B.Tech CSE	15A05507	MODICS-69 Programming)	2017-2018
95 05	B.Tech CSt	15A05509	Object Oriented Analysis and Design & Software Testing Laboratory	2017-2018
26 (5	8. Tech CSE	15A09610	Operating Systems Laboratory	2017-2018
97 05	B. Tach CSE	15A99901	Social Values & Ethics (Autit Course)	2017-2018
198 (75	III Tech CSE	15A09901	Consiler Design	2017-2018
199 05	B. Tech CSE	75A06802	Data Warencooking & Mining	2017-2018
100 05	B-Tech CSE	15A06600	Design Paterns	2017-2018
01 CS	B. Tech CSE	15405864	Design and Analysis of Rigothims	2017-2018
102 CS	B.Tech CSE	15A05606	View and Immunit Technologies	2017-2018
100 05	II. Yech CSE	25A05606	GBCC-(Optimization Techniques)	2017-2018
104 05	E. Tech CSE	15A05608	Wet and Improve Technologies Laboratory	2017-2018
105 05	B.Tech CSE	T5A95610	Date Warehousing & Minary Laboratory	
06 05	8 Tech CSE	15A52902	Advanced English Language Communication Skills(AELCS) Laboratory) (Audit Course)	2017-2018
	B. Tech-CSE	15A05811	Convetensive Orina Exprenden-II	2017-2018
907 05	B.Tech EEE	15402701	Electrical Distribution Systems	2017-2018
109 02	B.Tech EEE	15A048E3	Chighel Signal Processing	2017-2018
100 02	B.Tech EEE	15A027102	Power Bysteric Operation and Coranal	2017-2018
111 02	B.Tech EEE	15A02T03	Utilization of Electrical Emergy	2017-2018
112 52	9.Tech EEE	15A02706	CBCC-BEnergy Auditing and Demod Side Management)	2017-2018
113 02	#.Fach EEE	15A02707	CHCC-REServert Grief)	2017-2018
514 02	8.Tach EEE	15A34909	Cigital Signal Processing Laboratory	2017-2018
515 02	8. Tech EEE	15A82710	Power Systems & Simulation Laboratory	2017-2018
916 02	B.Tech EEE	15A02902	MCDCS - 80 ciner System Dynamics and Control)	3073-3079
217 01	B.Teck EEE	15402804	MODES - REWIDE Transmission)	2017-2018
118 02	B.Tech SEE	15A00800	Comprehensive Viva Voce	2017-2018
119 02	B.Tech EEE	15A02807	Technical Service	2017-2018
120 02	B.Tech EEE	15A02666	Project Work	2017-2018
121 00	B.Tech MECH	15A60601	Maragamani Sciento	2017-2018
122 00	9.Tech MECH	15A03701	Automobile Engineering	2017-2018
129 03	9.Tech MECH	15A03702	CADICAM MASSAGE	2017-2018
304 DX	B.Tech MECH	15A03703	Memplogy and Measurements	2017-2018
S25 DY	R, Tech MECH	15A03704	CECC Interruption and Air Conditioning)	2017-3018
176 03	B. Yech MECH	15A01707	CADY CAM Laboratory DIRECTO	
327 09	3. Tech NECH	15803710	CAD/CAM Interest Chadalana Chadalana	2017-2018
128 09	B.Tech MEDI	15A00311	Merotop and Measurement Lateratory Chandello acado Sussaniani Ca MOOCS - (Composite Material)	Windows Wellens
339 09	B. Tech MEDI	15A03803	MOOCS-HICOMONING MICROSING (AUTONOMOL)	SI 2017-2018
330 05	6 Tech MECH 6 Tech MECH	15A03804 15A03807	Campaning Waller THRUPATI	2017-2018
331 05 332 05	B. Yesh MECH	(15A/33808	Technical Survey AUTONOMOUS	2017-2018

33	03	B.Tech MED1	15403809	Project work	2017-2018
14	04	B.Tech ECE	15A04761	Optical Fisher Communication	2017-2018
11	04	B.Tech ECE	15A(4702	Enstantial Systems	2017-2018
16	04	B.Yech ECE	15A04703	Microwave Engineering	2017-2018
17	04	B.Tech ECE	15A04704	Data Communications and Networking	2017-2018
8	04	B.Tech ECE	15A04785	CBCC-0(Radar Systems)	2017-2018
10	04	B.Tech ECE	15A04788	CBCC-III(Digital Image Processing)	2017-2018
40	04	8.Tech CCE	15AQ4711	Microwave and Optical Continuation Laboratory	2017-2018
41	04	B.Tech ECE	15/04712	VLSI & Evided Systems Laboratory	2017-2018
42	04	B.Tech ECE	15A04802	MDDCS-II*(Low Fewer VLSI (Brouts & Systems)	2017-2018
41	04	B Tech SCI	15A04804	MODOS 48 * (RF integrated Directle)	2017-2018
44	04	B.Tech ECE	15A04605	Comprehensive Vive Vace	2037-2018
45	04	B.Tech ECE	15A04806	Technical Senintr	2017-2018
48	04	B.Tech ECE	15A04807	Project Work	2017-2018
167	05	H. Tech CSE	15A52601	Moregement Science	2017-2018
48	05	B.Tech CSI	15A05701	Graf & Cloud Computing	2017-2018
and other lands	Oti	B.Tech CSE	15A05702	y formation Security	2017-2018
49			15A05700	Moode Application Developmen	2017-2018
50	(0)	B, Tech CSE	The second secon	CBCC-8[Software Architecturiii]	2017-2018
125	05	8.Tech CSE	15A05704	CBCC-III(Software Project Management)	2017-2018
52	05	B. Tech CSE	15A05707	The state of the s	2017-2018
53	05	B. Tech CSE	15A06710	Grid & Daud Computing Laboratory	2017-2018
54	Q5	B. Tech CSE	15A05711	Mobile Agglication Development Laboratory	2017-2018
155	65	B.Tech CSE	15A05802	MOOCS-4 Moisle Computing F	2017-2018
54	- 05	B. Tech CSE	15A05804	MODES-Bill Building Large Scale Software Systems)	2017-2018
57	05	B.Tech CSE	15A0S807	Comprehensive Viva-Visce	COLUMN TOWNS TO SERVICE TO SERVIC
58	05	# Tech CSE	15A05808	Estivate Service	2017-2018
159	05	B. Tech CSE	15A05808	Project Virgini	
160	FD	MCA	15F05901	tava Programming	2017-2018
161	FD	MCA	15405302	Computer Networks	2017-2018
162	10	MCA	15705303	Design and Analysis of Algorithms	2017-2018
955	FQ.	MCA:	15/05304	Software Engineering	2017-2018
164	FQ	MCA	15705305	Operating Systems	2017-2018
365	10	MCA	15F05306	Algorithm Analysis Lab	2017-2018
366	10	MCA	15F05307	Operating Systems Lab	2017-2018
		MCA	19993308	Java Programming Latt.	2017-2018
367	PO:		19705401	Web Technologies and Scripting Languages	2017-2018
368	FD	MCA	15705402	Linux Programming	2017-2018
369	10	MCA	15F05403	Software Festing Methodologies	2017-2018
330	FD	MCA	The second secon	Elective +1 / ORCS(Management Information System)	2017-2018
371	FD	MCA	15F05404	Elective - (ILOperations Research)	2017-2018
572	FD	MCA	15F05408	Linus Programming Lab	3017-2018
573	FÜ	MCA	15F05412	Web Technologies Lab.	2017-2018
574	F0	MCA	15F05413	The state of the s	1017-2018
376	FQ	MCA	15F05414	Software Testing Lab	3017-2018
376	\$Q	MCA	19705501	Cloud Cornsucing	2037-2018
177	FB.	MCA	15605502	Data Warehousing & Mining	2017-2018
378	fg	MCA	15805503	Object Oriented Analysis and Design	2017-2018
379	10	MCA	15005504	Elective — II JMOOCI (Introduction to Sig Data by Harvard Univerity)	2017-2018
CBE	FD.	MCA	15F05504	introduction to Big Data by Harword Unit via eda	
381	FD	MCA	15F05905	Introduction to aniemes of things	2017-2018
362	FD.	MÇA	15F05506	Human Configurer Interaction by California Univ.via conservera	2017-201E
363	FD	MCA	15F05507	Virsal Design by Harward Only via with:	2017-2018
394	FÜ	MCA	15/95508	Gig Data Analytics by IIT Madras, Chiennal	2017-2018
385	10	MCA	15805309	Computer Maintonances	2017-2018
306	10	MCA	35#05510	Web Performance Optimization	2017-2018
382	FO	MCA	15995311	Introduction to Haddog and Magreduce	2017-2018
368	FO	MCA	19/95512	Introduction to Reverse Engineering Software	2017-2018
385		MCA	15(95513	Elective - W(Web Services)	2017-2018
Later and the	10	MCA	15F05513	Web Services	2017-2018
390	10		19809514	Distributed Databases	2017-2008
383	10	MCA.		Distributed Computing	2017-2018
380	10	MCA	15405515	Makira Agailication Development	2017-2018
393	FD.	MCA	13106516	Object Oriented Analysis and Design Lisb	2017-2018
394	10	MCA	LSF06537	The state of the s	2017-2018
395	FD	MCA	11/05518	Cloud Computing Lab	2017-2018
390	FID	MCA	15F05519	Data Warehousing & Mining Lab	2017-2018
397	60	MCA	15F05901	Project Seminar	2017-2018
338	70	MCA	15/05602	Chinertation / Project Work	Solv, Solia



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CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(Autonomous

Chadalawada nagar, Renigunta Road, Tirupathi-517502

COMMUNICATIVE ENGLISH

Course code	Category Hou		ours/week		Credits	Maximum Marks			
20CA52101	Foundation	L	T	P	C	CIA	SEE	TOTAL	
		3		-	3	30	70	100	
Contact Classes:46	Tutorial Classes: Nil		Practical Classes: Nil		Total Classes:46				

OBJECTIVES:

The course should enable the students to:

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers
- Focus on appropriate reading strategies for comprehension of various production authentic materials
- III. Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
- V. Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

UNIT-I Lesson: On the Conduct of Life: William Hazlitt Classes:10

Listening: Identifying the topic, the context and specific pieces of information in listening to

short audio texts and answering a series of questions.

Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others.

Reading: Skimming to get the main idea of a text; scanning to look for specific pleces of information.

Reading for Writing: Beginnings and endings of paragraphs - introducing the hopic, summarizing the main idea and/or providing a transition to the next paragraph.

Grammar and Vocabulary: Content words and function words; word forms: beats, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

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- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- > Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- > Form sentences using proper grammatical structures and correct would forms

UNIT-II Lesson: The Brook: Alfred Tennyson Classes:10

Listening: Answering a series of questions about main idea and supporting a last after listening to audio texts.

Speaking: Discussion in pairs/small groups on specific topics followed by short structured talks. **Reading:** Identifying sequence of ideas; recognizing verbal techniques that he ideas in a paragraph together.

Writing: Paragraph writing (specific topics) using suitable cohesive device mechanics of writing - punctuation, capital letters.

Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transcribe signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

- comprehend short talks on general topics
- participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- understand the use of cohesive devices for better reading comprehent
- write well structured paragraphs on specific topics
- > identify basic errors of grammar/ usage and make necessary correction in short texts

UNIT-III	Lesson: The Death Trap: Saki	Classes:10

Listening: Listening for global comprehension and summarizing what is listened as

Speaking: Discussing specific topics in pairs or small groups and reporting war is discussed

Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension.

Writing: Summarizing - identifying main idea/s and rephrasing what is read; too lifting redundancies and repetitions.

Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes,

Learning Outcomes

At the end of the module, the learners will be able to

- comprehend short talks and summarize the content with chiraly and property
- participate in informal discussions and report what is discussed
- infer meanings of unfamiliar words using contextual clues

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>	write summaries	based on glo	bal comprehension	n of reading/listening
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×	use correct tense forms, appropriate structures and a range of reporti-	the in
	speech and writing	

UNIT-IV	Lesson: Innovation: Muhammad Yunus	Classes:08
Listening: Makin video; listening w	g predictions while listening to conversations/ transactional	mes without
Speaking: Role p	lays for practice of conversational English in academic cont- for and giving information/directions.	formal and
Reading: Studyin	g the use of graphic elements in texts to convey information ationships, communicate processes or display complicated a	uil 46
	riting: Official Letters/Report Writing	
	ocabulary: Quantifying expressions - adjectives and adver- oice - Active & Passive Voice	semparing

Learning Outcomes

UNIT-V

At the end of the module, the learners will be able to

- infer and predict about content of spoken discourse
- understand verbal and non-verbal features of communication and has formal/informal conversations
- interpret graphic elements used in academic texts
- produce a coherent paragraph interpreting a figure/graph/chart/table
- use language appropriate for description and interpretation of graphs aments

Lesson: Politics and the English Language: George

Orwell	
Listening: Identifying key terms, understanding concepts and answer as a	elevant
questions that test comprehension.	
Speaking: Formal oral presentations on topics from academic contexts - will	use of PPT
slides.	
Reading: Reading for comprehension.	
Writing: Writing structured essays on specific topics using suitable claims a	to Hochees
Grammar and Vocabulary: Editing short texts -identifying and correcting	errors in
grammar and usage (articles, prepositions, tenses, subject verb agreement)	

Learning Outcomes

At the end of the module, the learners will be able to

- take notes while listening to a talk/lecture and make use of the make.
- make formal oral presentations using effective strategies
- comprehend, discuss and respond to academic texts orally and in an
- produce a well-organized essay with adequate support and detail

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CHADALAWADA RAMANAMMA ENGINEERING OLLEGE

(Autonomous)

COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE & SYLLABI (RED)

(w.e.f Academic Year 2020-21)

Communicative	English Lab
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Course	Category	Hours/w	eek	Cred	its		Attalogue	0.00
20CA52102	Foundation	L	T	P	C	CIA	SEL	TOTAL
		-	-	3	1.5	30	71	100

OBJECTIVES:

The course should enable the :

- > students will be exposed to a variety of self instructional, learner than diversity in the sage
- ➤ students will learn better pronunciation through stress, intonation
- students will be trained to use language effectively to face interview sions, public speaking
- > students will be initiated into greater use of the computer in resource account writing, format making etc

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- 10. Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

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III B. Tech - II Semester: Common for All Branches

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FRESHMAN ENGINEERING

SOFT SKILLS-II SYLLABUS

Course Code	Category	Hou	rs/Wee	k	Credits	Maxin	num Mar	ks
19CA52601	Foundation	L	T	P	C	CIA	SEE	Total
		3 1 -		3	30	70	100	
Contact Classes:45	Tutorial Classe	Tutorial Classes: 15 Practical Classes: Nil Total Cla						0
 To enable the 	employability skills the e students collectively students to meet comm	in organ	ization	al skil	ls.	Interviev	vs.	
UNIT – I	VERBAL ABIL	A 201 Page 11 20				ILLS	C	lasses:09
Grammar:- usage (Comparison, Conjur	erbal and Non-Verbal al, Aural, Writing and of Articles, Preposition action, Simple, Comp	Reading on, Verb	g o, Tens	es, Ac	lverbs, If-Co	nditionals	. Adiectiv	ves. Degrees o
Communication - Or Grammar:- usage of Comparison, Conjur Common Errors in E Word Power: - Syns UNIT- II COMPREHENSIO Writing, E-mail Writ SVAR (Accent):Pho	al, Aural, Writing and of Articles, Preposition nction, Simple, Compinglish. onyms, Antonyms, Aft EMPLOYABIL NS:-Listening Comping and Essay Writing metics, Inflections, Str	Reading on, Verb sound & fixes, On ATY Sharehension ess and	g p, Tens Comp ne word CILLS on, Res	es, Acolex, /	lverbs, If-Con Active & Pas itutions and Is Comprehensi	nditionals sive voic dioms &	Phrases. Cl	ves, Degrees of ted Speech an lasses:09
Communication - Or Grammar:- usage of Comparison, Conjur Common Errors in E Word Power: - Synd UNIT- II COMPREHENSIO Writing, E-mail Writ SVAR (Accent):Pho GROUP ACTIVITI	al, Aural, Writing and of Articles, Preposition nction, Simple, Compinglish. onyms, Antonyms, Aft EMPLOYABIL NS:-Listening Comping and Essay Writing metics, Inflections, Str IES: Just-A-Minute (J.	Reading on, Verb sound & fixes, On ATY Sharehension ess and	g p, Tens Comp ne word CILLS on, Res	es, Acolex, /	lverbs, If-Con Active & Pas itutions and Is Comprehensi	nditionals sive voic dioms &	Phrases. Cl	ves, Degrees of ted Speech an lasses:09
Communication - Or Grammar:- usage of Comparison, Conjur Common Errors in E Word Power: - Syns UNIT- II COMPREHENSIO Writing, E-mail Writ SVAR (Accent):Pho	al, Aural, Writing and of Articles, Preposition nction, Simple, Compinglish. onyms, Antonyms, Aft EMPLOYABIL NS:-Listening Comping and Essay Writing metics, Inflections, Str	Reading on, Verb sound & fixes, On ATY Sharehension ess and	g p, Tens Comp ne word CILLS on, Res	es, Acolex, /	lverbs, If-Con Active & Pas itutions and Is Comprehensi	nditionals sive voic dioms &	Phrases. Clannical Re	ves, Degrees of ted Speech an lasses:09
Communication - Or Grammar:- usage of Comparison, Conjur Common Errors in E Word Power: - Synd UNIT- II COMPREHENSIO Writing, E-mail Writ SVAR (Accent):Pho GROUP ACTIVITI UNIT - III Number System(HCI	al, Aural, Writing and of Articles, Preposition nction, Simple, Compinglish. onyms, Antonyms, Aft EMPLOYABIL NS:-Listening Comping and Essay Writing metics, Inflections, Str IES: Just-A-Minute (J.	Reading on, Verb bound & fixes, On ATY SI rehension ess and AM), De	p, Tens Comp ne work KILLS on, Res Intonat ebate, C	es, Acolex, Acolex, Acolex, Acolex, Acolex, Acoler, Ac	lverbs, If-Con Active & Pas itutions and Is Comprehens Discussion an	nditionals sive voic dioms & l ion, Tecl	Phrases. Clannical Re	ves, Degrees of ted Speech an lasses:09 eports, Resum
Communication - Or Grammar:- usage of Comparison, Conjur Common Errors in E Word Power: - Synd UNIT- II COMPREHENSIO Writing, E-mail Writ SVAR (Accent):Pho GROUP ACTIVITI UNIT - III Number System(HCI	al, Aural, Writing and of Articles, Preposition nction, Simple, Compinglish. onyms, Antonyms, Aft EMPLOYABIL NS:-Listening Comping and Essay Writing netics, Inflections, Str IES: Just-A-Minute (J. Arithmetic III F&LCM), Averages, P	Reading on, Verb bound & fixes, On ATY SI rehension ess and AM), De	p, Tens Comp ne work KILLS on, Res Intonat ebate, C	es, Acolex, Acolex, Acolex, Acolex, Acolex, Acoler, Ac	lverbs, If-Con Active & Pas itutions and Is Comprehens Discussion an	nditionals sive voic dioms & l ion, Tecl d Intervie	Phrases. Clanical Research Skills Clanterest, Prosecution Clane	ves, Degrees of ted Speech an lasses:09 eports, Resum
Communication - Or Grammar:- usage of Comparison, Conjur Common Errors in E Word Power: - Syne UNIT- II COMPREHENSIO Writing, E-mail Writ SVAR (Accent):Pho GROUP ACTIVITI UNIT - III Number System(HCI Ages, Profit & Loss, UNIT - IV	al, Aural, Writing and of Articles, Preposition nction, Simple, Compinglish. onyms, Antonyms, Aft EMPLOYABIL NS:-Listening Comping and Essay Writing metics, Inflections, Str (ES: Just-A-Minute (J. Arithmetic III F&LCM), Averages, P. Probability, Permutat	Reading on, Verlacound & fixes, On ATY SI rehension & AM), De recentação de C	p, Tens c Comp ne word CILLS on, Res Intonate ebate, Complina	es, Acolex, Adolex, Ad	lverbs, If-Con Active & Pas itutions and Is Comprehensi Discussion an Interest & Con Logarithms	nditionals sive voic dioms & ion, Tecl d Intervie	Phrases. CI CI CI CI	ves, Degrees of ted Speech and lasses:09 eports, Resum oblems on asses:10

Text Books:

Arrangement, Puzzles.

al Effective Technical Communication, Tata McGraw-Hill Publishing 1. Rizvi M. 2006.

Critical Reasoning - Syllogism, Statements & Assumptions, Statements & Arguments, Data sufficiency, Seating

2. R.S Agrarwal, Quantinary Aptitude for Competitive Examinations, S. Charle Pt. 3. R.S.Agrarwal, Verbal and Non Verbal Reasoning, S.Chand Publications.

References:

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF MECHANICAL ENGINEERING

AI TOOLS, TECHNIQUES AND APPLICATIONS

II B.TECH II SEM N	4E							
Course Code	Category	Но	ours / V	Veek	Credits	М	aximum	Marks
19CA05405	Elective	L.	Т	P	C	CIA SEE		Total
1902/03403	Liective	3			3	30	70	100
Contact Classes: 45	Tutorial Classes: Nil	Prae	etical C	lasses:	Nil	Total	Classes	: 45

OBJECTIVES:

The course should enable the students to:

- Study the concepts of artificial intelligence in problem solving.
- II. Explore the methods of agents and reasoning patterns.
- Introduce the concepts of knowledge representation and learning.
- IV. Analyze and solve statistical learning methods using AI techniques.

UNIT-I INTRODUCTION

Classes: 08

Classes: 10

The Al problems, what is an Al technique, the levels of the model, the underlying assumption, problems; Problem spaces and search: Defining the problem as a state space search, production systems, problem characteristics and production system characteristics; Problem-solving: Uninformed search strategies; Informed search strategies: Heuristic search strategies, local search algorithms and optimization problems, backtracking search for CSP.

UNIT-H KNOWLEDGE AND REASONING

Logical agents, knowledge-based agents, the wumpus world and propositional logic, reasoning patterns in propositional logic and agents based on propositional logic; First-order logic: Syntax and semantic of first-order logic, knowledge engineering in first-order logic; Inference in first-order logic: Propositional vs first-order inference, unification and lifting, forward chaining, backward chaining, resolution.

UNIT-III KNOWLEDGE REPRESENTATION

Classes: 08

Categories and objects, actions, situations and events, mental events and mental objects: The internet shopping world, truth maintenance systems.

Uncertain knowledge and reasoning: Uncertainty, acting under uncertainty, basic probability notation, the axioms of probability, inference using full joint distributions, independence, Baye's rule and its

UNIT-IV LEARNING

Classes: 10

Learning from observations, forms of learning, Inductive learning: Learning decision trees, ensemble learning; Why learning works: Computational learning theory.

UNIT-V STATISTICAL LEARNING METHODS

Classes: 09

Knowledge in learning: A logical formulation of learning, knowledge in learning; Neural networks; Fuzzy logic systems: Introduction, crisp sets, fuzzy sets, some fuzzy terminology, fuzzy logic control, sugeno style of fuzzy inference processing, fuzzy hedges, a cut threshold.

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Tolliege Structure & Syllabi recommended by UG-B. Tech - BOS from A Vac2020 27 AUTONOMOUS 5 of 36

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- Walden InfoTech Software.
- 5. Orel
- 6. Young India Films

References:

- 1. Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- 3. Skillful Level 2 Reading & Writing Student's Book Pack (B1) Macmillan Educational.
- 4. Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- 5. A Textbook of English Phonetics for Indian Students by T.Balasubramanyam

Web Links

- www.esl-lab.com
- www.englishmedialab.com
- · www.englishinteractive.net

Course Outcomes

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

CO1: Remember and understand the different aspects of the English language proficiency with emphasis on LSRW skills

CO2: Apply communication skills through various language learning activities

CO3: Analyze the English speech sounds, stress, rhythm, intonation and syllable division for better listening and speaking comprehension.

CO4: Evaluate and exhibit acceptable etiquette essential in social and professional settings.

CO5: Create awareness on mother tongue influence and neutralize it in order to improve fluency in spoken English.

ENGINEERING WORKSHOP

Semester: Common t	o all	-						
Course Code	Category	H	ours/	Week	Credits	Maxi	mum N	larks
20CA03103	Core	L	Т	P	С	CIA	SEE	Tot al
200,403,403	Core	-		3	1.5	30	70	100
Contact Classes:-	Tutorial Clas	ses: Nil		Practica	d Classes: 51	Tota	l Classe	s: 51

OBJECTIVES:

Identify and use of tools, types of joints in carpentry, fitting, tin smithy welding and foundry operations.

Any 10 of the following experiments has to be performed

CARPENTRY	
Expt. 1	Preparation of dove tail joint as per given taper angle.
Expt.2	Preparation of lap joint as per given dimensions.
Expt. 3	Preparation of Cross Lap joint as per given taper angle.
FITTING	
Expt. 4	Make a square fit for given sizes.
Expt. 5	Make a V Joint for given dimensions.
Expt. 6	Make a half round fit for given dimensions.
TIN SMITHY	
Expt. 7	Prepare the development of a surface and make a rectangular tray.
Expt. 8	Prepare the development of a surface and make a round tin.
FOUNDRY	
Expt. 9	Prepare a single Piece pattern.
Expt. 10	Premara a Solit pattern
WELDING	-6
Expt. 1	Preparation of V butt joint DIRL Communication
Exp 32 -	Preparation of V butt joint DIRECTOR Preparation of Lap joint Chadalawada Restangament (agine AutoNOMOUS)

AUTONOMOUS)

ng Callege

Preparation of T fillet joint

	C PROGRA	MM	ING	LAB				
B.Tech I Year II Sem	ester	Tesone	eccanin-	110000010				
Course Code	Category	Но	urs/W	eek	Credits	Max	imum !	Marks
20CA05102	Foundation	L	T	P	C	CIA	SEE	Total
20GA03102	roundation	0	0	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	P	ractie	al Cla	sses: 48	Tota	al Class	es:48

COURSE OBJECTIVES:

- Learn C Programming language.
- 2. To make the student solve problems, implement algorithms using C language.
- 3. To write diversified solutions using C language.

LIST OF PROGRAMS

Week-I

Write C program to

- a) Print the size of all data types.
- b) Find the Sum of three numbers
- c) Exchange (swap) of two numbers by using third variable.
- d) Exchange (swap) of two numbers without using third variable.

Week - 2

- Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
- b) Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
- c) Write a C program to swap two numbers using bitwise operators.

Week - 3

- a) Write a C program to find whether the given integer is odd or even.
- b) Write a C program to find the Maximum of three numbers.
- c) Write a C program to print 'hello world' without using semicolon.
- d) Write a C program to find whether the given number is odd or even using bitwise operator.
- e) Write a C program to find the maximum of two numbers using Conditional operator.
- f) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, /, %)

Week-4

- a) Write a C program to generate the required multiplication table.
- b) Write a C program to find the Factorial of a given integer.
- c) Write a C program to compute x power of n (xⁿ) without using built in functions.
- d) Write a C program to check whether the given integer is prime or not.
- e) Write a C program to find GCD

Week - 5

- a) Write a C program to find the sum of the digits of an integer.
- b) Write a C program to find whether the given integer is a Palindrome or not,
- c) Write a C program to generate Fibonacci numbers in the given range.

Week-6

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a) Write a C program to print the following pattern. 22 333 b) Print multiplication tables up to the given table. e) Write a C program to print series of prime numbers in the given range. Week - 7 a) Write a C program to check whether the given integer is strong number or not. b) Write a C program to evaluate the sum of the following series up to 'n' terms $e^x = 1 + x + x^2/2! + x^3/3! + x^4/4! + \dots$ Week - 8 a) Compute the maximum, minimum and average of N numbers. b) Write a C program to find the sum of positive and negative numbers in a given set(Array) of numbers. c) Write a program to implement linear search technique d) Write a C program to read two matrices and find i) Sum. ii) Product and display the result in the matrix form. Week -9 a) Write a C program to read a matrix and perform the following operations i) Find the sum of Diagonal Elements of a matrix. ii) Print Transpose of a matrix. iii) Print sum of even and odd numbers in a given matrix. Week-10 a) Write a C program to read two strings and perform the following operations without using built-in string library functions. i) String length determination. ii) Compare Two Strings. iii) Concatenate Two Strings. iv) String reversing v) Determining whether a string is a palindrome or not b) Write a C program to accept a line of characters and print the number of Vowels, Consonants, blank spaces, digits and special characters. c) Write a C program to read a set of strings and sort them in alphabetical order. Week -11 a) Write a C program to illustrate the following types of functions i) Function with no arguments and no return values ii) Function with arguments and no return value iii) Function without arguments and with return value iv) Function with arguments and with return value Week - 12 a) Write a C program to exchange two numbers using pointers. b) Write a program to print the elements of an array in reverse order using pointers. Week - 13 a) Write a C program to express a four digit number in words. For example 1346 should be written as one thousand five hundred and forty six c) Coloniate the exeatest common divisor using recursion for two numbers as specified by the second colonial co TIRUPATI



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

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COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE & SYLLABI (R20)

(w.e.f Academic Year 2020-21)

C Programming Lab

I B. Tech - I Semester : Common for All Branches

Course Code	Category	Но	urs/W	/eek	Credit	Max	imum !	Marks
752000000000000000000000000000000000000	253000000000000000000000000000000000000	L T P		P	C	CIA SEE		Total
20CA05102	Foundation	-	_	3	1.5	30		100
ontact Classes: Nil	Tutorial Classes: Nil	Pra	ctical	Class	es: 45	Total	Classe	s:45

Objectives:

- Learn C Programming language.
- To make the student solve problems, implement algorithms using C language.
- · To write diversified solutions using C language.

LIST OF PROGRAMS

Week-I

Write C program to

- a) Print the size of all data types.
- b) Find the Sum of three numbers
- c) Exchange (swap) of two numbers by using third variable.
- d) Exchange (swap) of two numbers without using third variable.

Week - 2

- a) Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
- b) Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
- c) Write a C program to swap two numbers using bitwise operators.

Week - 3

- a) Write a C program to find whether the given integer is odd or even.
- b) Write a C program to find the Maximum of three numbers.
- c) Write a C program to print 'hello world' without using semicolon.
- d) Write a C program to find whether the given number is odd or even using bitwise operator.
- e) Write a C program to find the maximum of two numbers using Conditional operator.
- f) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, /, %)

Week -4

a) Write a C program to generate the required multiplication table.

b) Write a C program to find the Factorial of a given integer.

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INDUSTRIAL ENGINEERING & MANAGEMENT (PROFESSIONAL ELECTIVE -I)

III B.Tech I Semeste	er: ME				0.			
Course Code	Category	Hou	rs/We	ek	Credits	Ma	ximum	Marks
19CA03507	Core	L	T	P	C	CI A	SE E	Total
		3	-		3	30	70	100
Contact Classes: 54	Tutorial Classes: Nil	Pra	etical	Clas	ses: Nil	Tota	l Classe	s: 54

Course prerequisites : Basic knowledge on engineering mathematics OBJECTIVES:

- To create awareness to learn principles, concepts, functions of management and also to design organizational structures.
- 2. To gain knowledge on plant location, layouts and analyze concepts of network techniques.
- 3. To familiarize the students regarding work study and work sampling
- 4. To train with materials and marketing management concepts in organizational context.
- 5. To get awareness on Human Resource Management and its functions

UNIT-I Management and Organization

Classes:11

Concepts of Management and Organization – Functions of Management – Evolution of Management Thought: Taylor's Scientific Management, Fayol's Principles of Management - Systems Approach to Management. Basic concepts related to Organization - Departmentation and Decentralization, Types of organization, Line organization, Line and staff organization, functional organization, Committee organization, matrix organization and their merits and demerits

UNIT-II Plant Location & Project Management

Classes:11

Plant location, definition, factors affecting the plant location, comparison of rural and urban sitesmethods for selection of plant. Plant Layout – definition, objectives, types of production, types of plant layout. PERT & CPM Project management, network modeling-probabilistic model, various types of activity-times estimation programme evaluation review techniques- Critical Pathprobability of completing the project, deterministic model, critical path method -critical path calculation.

UNIT-III | Work Study

Classes:10

WORK STUDY: Definition, objectives, Method study - definition, objectives, steps involvedvarious types of associated charts-difference between micro-motion and memo-motion studies. Work measurement- definition, time study, steps involved-equipment, different methods of performance rating- allowances, standard time calculation. Work Sampling - definition, steps involved, standard time calculations, differences with time study- Applications. Predetermined motion time study - Method time measurement (MTM), introduction to ergonomics.

UNIT-IV | Materials Management

Classes:11

MATERIALS MANAGEMENT: Objectives, Inventory – functions, types, associated costs, inventory classification techniques. Stores Management and Stores Records. Purchase management, duties of purchase manager, associated forms. Marketing, selling, marketing mix, product life wells.

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UNIT-V Human Resource Management

Classes:11

HUMAN RESOURCE MANAGEMENT: Functions of HRM, Job Evaluation, different types of evaluation methods. Job description, Merit Rating- difference with job evaluation, different methods of merit ratings, wage incentives, different types of wage incentive schemes.

Text Books:

- 1. O.P. Khanna, Industrial Engineering and Management., DhanpatRai, 2018, 17th ed.
- Stoner, Freeman, Gilbert, Management, Pearson Edu., 2007, 6th Ed.
- 3. Pannerselvam, Production and Operations Management. PHI, 2010.
- 4. Armine, Manufacturing Organization and Management. Pearson, 2009.

ReferenceBooks:

- 1. Ralph M Barnes, Motion and Time Studies. John Wiley and Sons, 2007.
- Chase, Jacobs, Aquilano, Operations Management. TMH, 2007, 10th Ed.
- 3. L.S. Srinath, PERT/CPM. East-West Press, 2005.

Course Outcomes:

- Discuss the principles and functions of management & decide the competitive strategy that works best for the organization. (L3)
- Understand the importance of plant locations and develop effective project management techniques. (L2)
- Understand the concept of work study, method study and types of associated charts, the work measurement, work sampling and their steps. (L2)
- Learn the concepts of material management and apply the knowledge of inventory management and marketing strategies in work setting (L3).
- 5. Discuss the importance of various sub systems of HRM. (L3)

CO-PO Mapping:

COLOURS .	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COL	3	-			-	-	*	-	3	3	-	3		
CO2	3	3		3	-	-	7			-	3			2
CO3	3	3	-	3			1121	2	100	2	- 12	3		
CO4	3	3		-		1	4		3	3	3	3	2	
CO5	-			3.4	*			1	3	3			-	-



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DESIGN FOR MANUFACTURE (MOOC Course-II)

Course	Code	Category		lour: Weel		Credits		Maxin Mar		
TODESVE			L	T	P	C	CIA	SEE	Total	
17CA0	3707	Elective	Elective 3 3 3						100	
Contact C		Tutorial Classes: Nil	Practical Classes: Nil					Total Classes: 51		
UNIT-I	Introduc	tion						10		
introductio manufactu design.	n: Desig rability –	n philosophy - step basic principles of d	s in lesign	Designing f	gn pr or eco	ocess - Ge onomical pr	neral D oduction	esign r	ules for tivity in	
UNIT-II								10		
Selection material s selection c	election -	ials for design - De - Material selection	velop	men	ts in onship	Material te with proc	chnolog ess sele	y – cri ction –	teria for process	
UNIT-III	Machin	ning Process						11		
tolerance a	and surfac	s machining processes be roughness – Design with suitable examp	i for i	nach	ining.	Ease - Red	esigning	g of cor	nponents	
for machingarts. UNIT-IV Appraisal considerat	Metal of vario	s machining processes ce roughness – Design with suitable examp Casting ous casting processes casting – casting tole sign rules for sand cas	s, sel	nach	ining, al des	Ease - Red	endatio	g of corns for r	nponents nachined	
for maching parts. UNIT-IV Appraisal considerat	Metal of various for oduct de	ce roughness – Design with suitable examp Casting ous casting processes casting – casting tole sign rules for sand cas	s, sel	nach	ining, al des	Ease - Red	endatio	g of corns for r	nponents nachined design n casting	
tolerance a for machin parts. UNIT-IV Appraisal considerat design – p UNIT-V Metal Join general de weld joint Text Book	Metal of various of various for of various for or oduct de ming: Appendix Julian design guides – design guides – design guides – design ks:	ce roughness – Design with suitable examp Casting ous casting processes casting – casting tole sign rules for sand cast oining praisal of various we delines – pre and posi- n of brazed joints.	s, sel rance sting.	ectio s – t	n of use of cesses t of w	casting pro	ocess, - on simu	g of comms for many series of well-	nponents nachined design n casting	
tolerance a for machin parts. UNIT-IV Appraisal considerat design – p UNIT-V Metal Join general de weld joint Text Bool 1. Design 2. ASM F 3. Product India, Nev	Metal of various for design guides design guides design w Delhi, 2	ce roughness – Design with suitable examp Casting ous casting processes casting – casting tole sign rules for sand cast oining praisal of various we delines – pre and pose of brazed joints. ufacture / John Cober C, Vol.20. and Manufacturing	s, sel rance sting.	ectio s - t	n of use of cesses t of w	casting pro solidification, Factors in yelds – effects	ocess, - on simu design	general ation is	d design n casting dments - tresses in	
tolerance a for machin parts. UNIT-IV Appraisal considerat design – p UNIT-V Metal Join general de weld joint Text Bool 1. Design 2. ASM F 3. Produc India, Nev Reference	Metal of various for design guides – design ks: for Manual Bandbook et design w Delhi, 2 e Books:	ce roughness – Design with suitable example ous casting processes casting – casting tole sign rules for sand casting – casting tole sign rules for sand casting – pre and posterior of brazed joints. ufacture / John Cobert, Vol.20. and Manufacturing 2003.	s, sel rance sting.	proc men	n of use of weekses tof we hitale	casting prospering casting prospering prospering prospering prospering casting casting prospering casting prospering casting prospering casting prospering casting cas	design the design appears of the design appe	g of comms for many services of well-sermal services of the se	design casting	
tolerance a for machin parts. UNIT-IV Appraisal considerat design – p UNIT-V Metal Join general de weld joint Text Bool 1. Design 2. ASM F 3. Product India, Nev Reference 1. Engin McGraw 2. Design	Metal of variorions for or oduct de Metal Juning: Appesign guides – design ks: for Manual Metal Juning: Appesign guides – design guides – design ks: for Manual Metal Juning: Appesign guides – design guides – design ks: for Manual Metal Juning: Appesign guides – design guides – desig	casting Casting Casting Casting Casting Casting processes Casting – casting tole sign rules for sand cast coining praisal of various we delines – pre and pose of brazed joints. Casting – casting tole coining praisal of various we delines – pre and pose of brazed joints. Casting – casting tole coining praisal of various we delines – pre and pose of brazed joints. Casting – A Material Casting – Casting processes Casting – Casting tole casting – Ca	s, sellerance sting.	processors K Cl	n of use of wessess tof we hitale	casting prosident casting castin	design the design that I have been design that I have	general ation in of well- ermal strentice orge E.	design casting dments - tresses in Deiter	
tolerance a for machin parts. UNIT-IV Appraisal considerat design – p UNIT-V Metal Join general de weld joint Text Bool 1. Design 2. ASM F 3. Product India, Nev Reference 1. Engin McGraw 2. Design	Metal of various for duct design guides — design guides — design w Delhi, 2 e Books: lecering D Hill Intl., and Market design guides of the manual design w Delhi, 2 e Books:	casting Cas	s, sellerance sting.	processors K Cl	n of use of wessess tof we hitale	casting prosident casting castin	design the design that I have been design to be a large been design to be a la	general ation in of well- ermal strentice orge E.	design casting dments - tresses in Deiter	

Advanced PRODUCTION TECHNOLOGY (MOOC-II)

Course	Code	Category		Iour: Weel		Credits		Maxin Mar			
17CA0	3710		L	T	P	C	CIA	SEE	Total		
Irea	3/10	Elective	*	•		3	30	70	100		
Contact (lasses:	Tutorial Classes:	Pr	actic	al Cl	asses: Nil	To	Total Classes:			
UNIT-I	Metal c	asting									
nould an	d ceramic	esses: Sand casting she c mould castings- in sh casting – squeeze of	vestn	ent o	castin	g – vacuun	n castin	g – pe	Barres		
UNIT-II	Welding	g Processes									
	Metal of chip	Cutting formation-Geometry		35 U	G	and the second		35 6.4.			
cutting po machining		ol life – selection of nics.	cuttir	ig to	ol ma	terials and	cutting	fluids -			
UNIT-IV	Advan	ced Machining Proces	sses								
		machining – electro ing – micromachining					on bear	m mach	nining -		
UNIT-V	Process	ing of Powders, Cerar	nics	and F	Plastic	s					
	– forming	ction, sintering of por g and shaping of glas plastics.						Section 1			
1. Apply 2. Veler: 3. Apply structure, v 4. Unday	knowledge stand various knowledge wking, for and the va	At the end of course st a of advanced casting to his welding processes.(I e of basic methodology orces involved in single priors inconventional methodology machining processes	chniq 2) of mo point anufa	ues.(letal cr and r acturin	L3) utting nultip	and to educa	te the stu	TIRUPAT	Ingineeric (1995) the		

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

INTERNET OF THINGS (IOT)

VI Semester ECE			-					
Course Code	Category	Ho	urs / V	Veek	Credits	Ma	ximum	Marks
		L	T	P	C	CIA	SEE	Tota
19CA05604	Core	3	0	0	3	30	70	100
Contact Classes: 48	Tutorial Classes: Nil	P	ractica	al Clas	ses: Nil	Tota	l Classe	s: 48

OBJECTIVES:

The course should enable the students to:

- Introduce the fundamental concepts of IoT and physical computing.
- Expose the student to a variety of embedded boards and IoT Platforms.
- Create a basic understanding of the communication protocols in IoT communications.
- Familiarize the student with application program interfaces for IoT.

5. Enable students to create simple IoT applications.

Classes: 09 UNIT-I

Overview of IoT: The Internet of Things: An Overview, The Flavour of the Internet of Things, The "Internet" of "Things", The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things? Design Principles for Connected Devices: Calm and Ambient Technology, Privacy, Web Thinking for Connected Devices, Affordances. Prototyping: Sketching, Familiarity, Costs Vs Ease of Prototyping, Prototypes and Production, Open source Vs Close source, Tapping into the community.

Classes: 10 UNIT-II

Embedded Devices: Electronics, Embedded Computing Basics, Arduino, Raspberry Pi, Mobile phones and tablets, Plug Computing: Always-on Internet of Things.

Classes: 10 UNIT-III

Communication in the IoT: Internet Communications: An Overview, IP Addresses, MAC Addresses, TCP and UDP Ports, Application Layer Protocols Prototyping Online Components: Getting Started with an API, Writing a New API, Real-Time Reactions, Other Protocols Protocol.

Classes: 10 UNIT-IV

Business Models: A short history of business models, The business model canvas, Who is the business model for, Models, Funding an Internet of Things startup, Lean Startups. Manufacturing: What are you producing, Designing kits, Designing printed circuit boards.

Classes: 09 UNIT- V

Manufacturing continued: Manufacturing printed circuit boards, Mass-producing the case and other fixtures, Certification, Costs, Scaling up software. Ethics: Characterizing the Internet of Things, Privacy, Control, Environment, Solutions.

Text Books:

- 1. Internet of Things A Hands-on Approach, Arshdeep Bahga and Vijay Madisetti, Universities Press, 2015, ISBN: 9788173719547 R16 B.TECH ECM.
- 2. Getting Started with Raspberry Pi, Matt Richardson & Shawn Wallace, O'Reilly (SPD), 2014, ISBN: 9789350239759.

Web References:

- https://www.arduino.cc/
- https://www.raspberrypi.org/

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

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CO1: Choose the sensor and actuators for an IoT application.

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- CO2: Select protocols for a specific IoT application.
 CO3: Unifice the cloud platform and APIs for IoT applications.
 CO4: Experiment with embedded boards for creating IoT prototypes.
 CO5: De 32), a solution for a given IoT application.

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ADVANCE COMMUNICATIVE ENGLISH LABORATORY

Course	Category	Hours/we	eek	Cree	lits	Max	imum M	arks
20CA52401			T	P	C	CIA	SEE	TOTAL
20001102701	Toundation		1	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Cla	sses: Nil	Pr	actical	Classes:54		Total Cla	isses:54

OBJECTIVES:

The course should enable the students to:

- The course allows the students to use multi-media instruction for language development
- 2. To improve the students' fluency in English and enable them to listen the English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and Professional contexts.
- 3. Further, they would be required to communicate their ideas relevantly and coherently in writing and placing MNCs.

List of Topics

- 1. Syllables, stress & Intonation
- Listening Skills
- Report writing
- 4. Book review
- 5. Film review
- 6. Grooming
- Non-verbal skills(Body Language)
- 8. Power Point Presentation(Ppt)
- Group Discussion II
- 10. Time management
- Stress management
- Problem solving & Decision Making
- 13. Corporate Etiquettes
- 14. SWOT Analysis
- 15. Interview Skills II

Minimum Requirements for SOFT SKILLS Lab:

Soft Skills Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- 2. Round Tables with movable chairs
- Audio-visual aids
- 4. LCD Projector
- Public Address system
- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed 2/8 GHZ Suplan
- 7. T. V, a digital stereo & Camcorder

8. Headphones of High quality Suggested Set are:

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mous) Course Structure & Syllabi recommended by UG-B.Tech - BOS from AY: 2021-22



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

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COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE & SYLLABI (R20)

(w.e.f Academic Year 2020-21)

II- Semester : CSE	II WORKS	но	P L	АВ				
Course Code	Category		lour Wee	-	Credit		Maximu	ım Marks
20CA05203	Foundation	L	T	P	C	CIA	SEE	Total
20CA03203	Foundation	-	-	3		30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 45			Total Classes: 45			

Objectives:

- Introduce the internal parts of a computer, peripherals, I/O ports, connecting cables
- Teach basic command line interface commands on Linux
- Teach the usage of Internet for productivity and self paced life long learning
- Introduce Compression, Multimedia and Antivirus tools
- Introduce Office Tools such as Word processors, Spreadsheets and Presentation tools.

LIST OF EXPERIMENTS

WEEK -1

Learn about Computer: Identify the internal parts of a computer, and its peripherals. Represent the same in the form of diagrams including Block diagram of a computer. Write specifications for each part of a computer including peripherals and specification of Desktop computer. Submit it in the form of a report.

WEEK -2

Assembling a Computer: Disassemble and assemble the PC back to working condition. Students should be able to trouble shoot the computer and identify working and non-working parts. Student should identify the problem correctly by various methods.

WEEK-3

Operating System installation: Installing an Operating System such as Linux on Computer hardware. Operating system features: Students should record the various features that are supported by the operating system(s) installed. They have to submit a report on it. Students should be able to access CD/DVD drives, write CD/DVDs, access pen drives, print files, etc. Students should install new application software and record the installation process.

WEEK-4

Productivity tools

MS WORD: Students should be able to create documents using the word processor tool. Some of the tasks that are to be performed are inserting and deleting the characters, words and lines, Alignment of the lines, Inserting header and Footer, changing the font, changing the colour, including images and tables in the word file, making page setup, copy and paste block of text, images, tables, linking the images which are present in other directory, formatting paragraphs, spell checking, etc.

WEEK-5

Productivity tools

MS POWER POINT: creating, opening, saving and running the presentations, selecting the style for slides, formatting the slides with different fonts, colours, creating charts and tables, inserting and deleting text, graphics and animations, bulleting and numbering, hyperlinking, running the slide show, setting the timing for slide show.

WEEK-6

Productivity tools

MS-EXCEL: Students should be able to create, open, save the application documents and format



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Module	Session	Contents
Introduction	1	CATIA as a CAD software:- Concept of Parametric Modeling, Feature Based Modeling, User Interface, Mouse operations, File types and Management, drawing profiles. Major user industries of Catia. Why Catia is preferred?
	2	Sketcher: Profile toolbar, operation (corner, chamfer, delimitations, transformations, project 3D element), constriants, types of constraints, workbench.
Sketcher	3	Sketcher:- sketch tools, tools(Sketch sloving status, sketch analysis, output feature), visulization toolbar, user selection filter.
	4	Modeling of Machined component, Material Addition and Removal (Pad, Pocket, Shaft, Groove), Sketch and Positioned Sketch, Types of Fillets, Types of Chamfer, Types of Hole.
Modelling of Machined Component (Part Modelling)	5	Modeling of Machined component - 2. Pattern (Rectangular, Circular, User), Thread/Tap, Datum Features (Plane, Axes, Points), Simple Draft. Frequently used commands for Machined components in Catia / Creo
	6	Advance Design features :- Axis System, Types of draft, Shell, Stiffener, rib slot, Multi section solid, Removed multi sectionsolid, Apply Material, Measure, Render.
	7	Introduction To Multi body concept:- Copy Paste, Paste special, Insert body, Boolean Operations (Add, remove, Intersect), Transformation (Translation, Mirror, Scaling, Affinity).
	8	Multi body concept:- Standared example, Negative body concept (Boolean Operations)
	9	Advance Features:- Parameters, Formula, Relations, Design Table.
	10	Introduction To Drafting & Detailing Theory:- (types Generative – Interactive), Initial Drafting setting, Sheet Background, Views (ortho, ISO), Dimensions (Types- Generate Dimension & Create Dimension).
AUT MONS	11	Views:- (Aux. Section, Details, Clipping, Birkot, OR View properties, DATUMS & Tolerande, words Remonument Engine (AUTONOMOUS)
TIRIPAN TO	12	Annotations:- GD & T, Symbols, Note, Leaders, Table, Symbols (Machining, Roughness, Welding, Custom), Dress-upToolbar.

Drafting	13	Surfacing Modeling based Plastic Component:- Environment, Tool bars, Surface Creation (Extrude, Revolve, Sphere, Cylinder), Surface Modification, Surface Editing (Trim, Split, Shape Fillet, Close Surface, Thickness).
	14	Surfacing:- Offset(All 3 types), Fill, Blend, Join, healing, Project-Combine.
	15	Advanced Surfacing: Adaptive Sweep, Sweep (ALL), Multi section Surface,
Wire-frame Modeling	16	Wire-frame Modeling:- Point, Line, Planes, Curves, Circle-Conic, STANDARD EXAMPLES. Use of wire frame modeling,
BIW Templates	17	BIW Templates:- What is BIW, Junction, Diabolo, Hole, Mating Flange, Bead, BlendCorner.
	18	Introduction to Assembly:- Types of assembly approach, Types of Constrains and DOF, placement of components in the Assembly, Manipulating Components, BOTTOM UP Approach
Assembly & Mechanism	19	TOP DOWN Approach: Part, Product, Component, Space Analysis, Reuse Pattern, Save management,
	20	Assembly Drafting: Scene (Exploded View), Bill of material, Ballon creation. Graph Tree Reordering.



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	II B	. Tech	(CSE), IV-	SCIENCE AND SEMESTER N PROGRAM	- 202		30.		
	The Committee of					Maximum Marks				
Course Code	Category	Hours / Week	Credits	CIA			SEE	Tota		
SERVICE AND STONE RES		L	T	P		CIE	AAT	TOT	0.71	100
20CA05401	Core	3		12	- 3	25	05	30	70	
Classes: 48	Tutorial: Nil	Pra	ctical	Clas	ses: Nil	Total Classes: 48Hrs			rs .	

Objectives:

The course should enable the students to:

- 1. To elucidate problem solving through python programming language
- To train in development of solutions using modular concepts
- 3. To teach practical Pythonic solution patterns
- 4. To introduce function-oriented programming paradigm through python

UNIT - I INTRODUCTION TO PYTHON

8Hrs

Introduction to Python: Python- Numbers, Strings, Variables, operators,
expressions, statements, String operations, Math function calls, Input/Output
statements

UNIT - II CONTROL STATEMENTS

10Hrs

Conditional If, while and for loops, User defined Functions, parameters to functions, recursive functions, Turtle Graphics.

UNIT - III DATA STRUCTURES AND IDIOMATIC PROGRAMMING IN PYTHON

10Hrs

Lists, Tuples, Dictionaries, Strings, Files and their libraries. Beautiful Idiomatic approach to solve programming problems.

UNIT - IV PYTHON OBJECT ORIENTED PROGRAMMING Introduction to oops: Concept of class, object and instances, Method. Inheritance. Polymorphism. Data Abstraction. Encapsulation. Oops through Python: Data hiding, Polymorphism, Inheritance, Class and static variables,

Class methods and Static methods, Constructors and Destructors.

UNIT -V EVENT DRIVEN PROGRAMMING

10Hrs

Turtle Bar Chart, Event Driven programming. Key press events, Mouse events, timer events.

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CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(Autonomous)

COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE & SYLLABI (R20)

(w.e.f Academic Year 2020-21)

them as per the requirement. Some of the tasks that may be practiced are Managing the worksheet environment, creating cell data, inserting and deleting cell data, format cells, adjust the cell size.

WEEK-7

Productivity tools

MS-EXCEL: Applying formulas and functions, preparing charts, sorting cells, Pivot table. Students should submit a user manual of the Spreadsheet.

WEEK-8

Networking and Internet

Networking: Students should connect two computers directly using a cable or wireless connectivity and share information. Students should connect two or more computers using switch/hub and share information. Crimpling activity, logical configuration etc. should be done by the student. The entire process has to be documented.

WEEK -9

Networking and Internet

Browsing Internet: Student should access the Internet for Browsing. Students should search the Internet for required information. Students should be able to create e-mail account and send email. They should get acquaintance with applications like Facebook, skype etc.

WEEK-10

Antivirus: Students should download freely available Antivirus software, install it and use it to check for threats to the computer being used. Students should submit information about the features of the antivirus used, installation process, about virus definitions, virus engine etc.

WEEK-11

Cloud based productivity enhancement and collaboration tools:

- Manage event registrations, create quizzes, analyze responses: Google Forms
- Build public sites, internal project hubs:Google Sites
- · Keep track of important events, sharing one's schedule, and create multiple calendars:Google Calendar.

Reference Books:

- 1. Introduction to Computers, Peter Norton, McGraw Hill
- MOS study guide for word, Excel, Powerpoint& Outlook Exams, Joan Lambert, Joyce Cox, PHL
- 3. Introduction to Information Technology, ITL Education Solutions limited, Pearson Education.
- 4. Networking your computers and devices, Rusen, PHI

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II B. Tech (CSE) IV SEM - R20 REGULATIONS

	II B.	Tech	(CSE), IV	SCIENCE AN - SEMESTER GRAMMING	- 202	21-22	55		
Course Code	Catagoni	Hem		Maak	Condito	Maximum Marks			4	
Course Code	Category	Hour	5 /	week	credits		CIA		SEE Tota	Total
205405405		L	T	P	С	DDE	LIE	TOTAL		
20CA05406	PE	-	-	3	2	20	10	30	70	100
Classes: 45 Hrs	Tutorial: Nil	Pr	actio	al C	lasses:		Total	Classes	: 45H	irs

Objectives:

The course should enable the students to:

- To write, test, and debug simple Python programs.
- 2. To implement Python programs with conditionals and loops.
- 3. Use functions for structuring Python programs.
- 4. Represent compound data using Python lists, tuples, dictionaries.
- 5. Read and write data from/to files in Python.
- 6. To implement Python programs with Turtle graphics.

LIST OF EXPERIMENTS

Week -I BASIC PROGRAMS

Write a program:

- To print 'HELLO CREC'
- To Compute All Arithmetic Operators.
- To Swap Two Variables with and without third variable.

BASIC PROGRAMS Week -2

Write a program

- To Generate A Random Number
- 2. To Find The Area Of A Triangle.
- To Calculate Quadratic equation.

Week-3 CONTROL STATEMENTS

- 1. Design a Python script to convert a Binary number to Decimal number and verify if it is a Perfect number.
- Write a program to compute the GCD of two numbers.

CONTROL STATEMENTS Week-4

1. Design a Python Script to determine the Square Root of a given number without using inbuilt functions in Python.

Write a program to find the sum of the digits of a number.

Write a program to find given number is strong number or not

CONTROL STATEMENTS

rite a program to find the maximum of a list of numbers lowed Remananta Engineering College

the a program to find the factorial of given number.

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ite a program to find the whether the given number is prime or not.

II B. Tech (CSE) IV SEM - R20 REGULATIONS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING II B. Tech (CSE), IV- SEMESTER - 2021-22

COURSE: MOBILE APPLICATION DEVELOPMENT LABORATORY

Course Code	Category	Ho	urs / W	Tools	Condito	Maximum Marks				
Course Code	Category	Ho	urs / w	CCK.	Credits		CIA	Š	SEE 70	Total
20CA05408	90	L	T	P	C	DDE	LIE	TOTAL	0.000	
20CA05406	SC	-	*	3	2	20	10	30	70	100
Classes: 45 Hrs.	Tutorial: Nil	P	ractica	Class	es: Nil	1000	Total	Classes: 4	5 Hrs.	

Objectives:

- 1. To understand fundamentals of android operating systems.
- Illustrate the various components, layouts and views in creating android applications
- 3. To understand fundamentals of android programming.

WEEK 1

Installation of Android studio.

WEEK 2

Create "Hello World" Application

- a. Create a new Android Project
- b. Run "Hello World" on the Emulator
- c. On a Physical Device
- d. Greeting the User

WEEK 3

Create Application by Using Widgets

Creating the Application by using the Activity class

- 1. onCreate()
- 2. onStart()
- onResume()
- onPause()
- 5. onStop()
- onDestroy()
- 7. (vii) onRestart()

WEEK 4

Creating the Application by using Text Edit control.

WEEK 5

Creating the Application Choosing Options

- CheckBox
- 2. (ii) RadioButton

WEEK 6

Creating the Application Choosing Options

- 1. RadioGroup
- 2. (ii) Spinner

WEEK 7

Create Application by Using Building Blocks for Android Application Design

Design the Application by using

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1. Linear Layout

II B. Tech (CSE) IV SEM - R20 REGULATIONS

2. (ii) Relative Layout

WEEK 8

Create Application by Using Building Blocks for Android Application Design in Absolute Layout

WEEK 9

Design the Application for Menus and Action Bar

WEEK 10

Design the application to display the Drop-Down List Action Bar.

Text Books:

1. Android Programming by B.M Harwani, Pearson Education, 2013.

Course Outcomes

Upon completion of the course, the students should be able to:

COI	Apply essential Android Programming concepts.
CO2	Develop various Android applications related to layouts & rich uses interactive interfaces
CO3	Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces.
CO4	Develop mobile applications for the Android operating system that use basic and advanced phone features.
CO5	The state of the s



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MOBILE APPLICATION DEVELOPMENT

VII Semester: CSE (Non-FSI) / VIII Semester: CSE (FSI)

Course Code	Category	Ho	irs/W	eek	Credits	M	Maximum Marks		
Course Cour		L	T	P	C	CIA	SEE	Total	
17CA05702	Core	3	*		3	30	70	100	
Contact Classes: 45	Tutorial Classes: Nil	Prac	tical C	lasses:	Nil	Total Cla	sses: 45	*	

Objectives:

- To introduce the Android technology and its application.
- Design & program real working education based mobile application projects.
- Become familiar with common mobile application technologies and platforms; open files, save files, create and program original material, integrate separate files into a mobile application project, create and edit audio sound effects & music.

UNIT-I Introduction to Android:

The Android 4.1 jelly Bean SDK, Understanding the Android Software Stack, installing the Android SDK, Creating Android Virtual Devices, Creating the First Android Project, Using the Text view Control, Using the Android Emulator, The Android Debug Bridge(ADB), Launching Android Applications on a Handset

UNIT-II Basic Widgets

Understanding the Role of Android Application Components, Understanding the Utility of Android API,
Overview of the Android Project Files, Understanding Activities, Role of the Android Manifest File, Creating the
User Interface, Commonly Used Layouts and Controls, Event Handling, Displaying Messages Through Toast,
Creating and Starting an Activity, Using the Edit Text Control, Choosing Options with Checkbox, Choosing
Mutually Exclusive Items Using Radio Buttons

UNIT-III Building Blocks for Android Application Design

Introduction to Layouts, Linear Layout, Relative Layout, Absolute Layout, Using Image View, Frame Layout, Table Layout, Grid Layout, Adapting to Screen orientation. Utilizing Resources and Media Resources, Creating Values Resources, Using Drawable Resources, Switching States with Toggle Buttons, Creating an Images Switcher Application, Scrolling Through Scroll View.

UNIT-IV Using Selection widgets and Debugging:

Using List View, Using the Spinner control, Using the GridView Control, Creating an Image Gallery Using the ViewPager Control, Using the Debugging Tool: Dalvik Debug Monitor Service(DDMS), Debugging Application, Using the Debug Perspective.

UNIT-V Building Menus and Storing Data:

Creating Interface Menus and Action Bars, Menus and Their Types, Creating Menus Through XML, Creating Menus Through Coding, Applying a Context Menu to a List View, Using the Action Bar, Replacing a Menu with the Action Bar, Creating a Tabbed Action Bar, Creating a Drop-Down List Action Bar. Using Databases: Using the SQLiteOpenHelperclasss, Accessing Databases with the ADB, Creating a Data Entry Form.

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Classes: 10

Classes: 10

Classes: 10

Classes: 08

Classes: 07

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

III B.Tech (CSE), V- SEMESTER - 2021-22

COURSE: DATABASE MANAGEMENT SYSTEMS

Course Code: 19CA05503

Course Outcomes (COs)

- CO1 Students will be able to understand database concepts and popular database languages.
- CO2 Students will be able to conceptualize data using different data models.
- CO3 Students will be able to write different types of interactive queries with selected databases.
- CO4 Students can create efficient relational databases for various business applications such as banking, e-commerce, and retail etc.
- CO5 Students can design and develop database applications and database system software components such as transaction, storage and concurrency modules.

UNIT-I INTRODUCTION TO DATABASE SYSTEMS

8Hrs

Introduction-Database System, Purpose of Database Systems, History of Data base Systems, Database Advantages of Database systems Applications, View of Data - Data Abstraction, Instances and Schema, Data Models, Database Languages - DDL, DML, Database Architecture, Database Users and Administrators.

UNIT-II DATA MODELS

10Hrs

Introduction to Data base design, ER diagrams, Beyond ER Design, Entities, Attributes and Entity sets, Relationships and Relationship sets, Additional features of ER Model, Conceptual Design with the ER Model, Conceptual Design for Large enterprises. Relational Model: Introduction to the Relational Model - Integrity Constraints over Relations, Enforcing Integrity constraints, querying relational data, Logical data base Design, Introduction to Views Destroying/ altering Tables and Views.

UNIT-III RELATIONAL ALGEBRA AND CALCULUS

10Hrs

Relational Algebra and Calculus: Relational Algebra - Selection and Projection, Set operations, Renaming, Joins, Division, Examples of Algebra Queries, Relational calculus - Tuple relational Calculus - Domain relational calculus - Expressive Power of Algebra and calculus. Form of Basic SQL Query - Examples of Basic SQL Queries, Introduction to Nested Queries, Correlated Nested Queries, Set - Comparison Operators, Aggregate Operators, NULL values - Comparison using Null values - Logical connectives - AND, OR and NOT - Impact on SQL Constructs, Outer Joins, Disallowing NULL values, Complex Integrity Constraints in SQL Triggers and Active Data bases.

UNIT-IV NORMAL FORMS

10Hrs

Normalization: Purpose of Normalization or schema refinement, concept of functional dependency, normal forms based on functional dependency (1NF, 2NF and 3 NF), Lossless join and dependency preserving decomposition, concept of surrogate key, Boyce-codd normal form(BCNF), Multivalued Dependencies

UNIT-V TRANSACTION AND CONCURRENCY CONTROL

Chadeloweda Komenamon Engineering College (AUTONOMOUS) TIRUPATI Transaction Concept, Transaction State, Implementation of Atomicity and Durability, Concurrent Executions, Serializability, Recoverability, Implementation of Isolation, Testing for Serializability, Concurrency Control - Lock - Based Protocols - Timestamp Based Protocols,

Text Books:

- Abraham Silberschatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGraw-Hill, 4th Edition, 2002.
- 2) Database Management Systems, 3/e, Raghurama Krishnan, Johannes Gehrke, TMH

Reference Books:

- 1) Introduction to Database Systems, 8/e C J Date, PEA.
- 2) Database Management System, 6/e Ramez Elmasri, Shamkant B. Navathe, PEA
- Database Principles Fundamentals of Design Implementation and Management, Corlos Coronel, Steven Morris,

Peter Robb, Cengage Learning.

E-Resources:

- 1) https://nptel.ac.in/courses/106/105/106105175/
- 2) https://www.geeksforgeeks.org/introduction-to-nosql
- 3) http://www.e-booksdirectory.com/details.php?ebook=10166
- 4) http://www.e-booksdirectory.com/details.php?ebook=7400re

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CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS)

IV B.TECH I SEM CSE E-COMMERCE(17CA05707)

Course Outcomes:

CO1: Define and describe the 9 major ecommerce business models.

CO2: Identify the differences and similarities among customers and their perception of value in B2B and B2Ce-commerce.

CO3: Compare and contrast developing a marketing mix in B2B and B2Cecommerce.

CO4: Summarize ways of moving money in e-commerce and related issues.

C05:. Discuss major trends that are impacting both the e-commerce world and society in general..

SYLLABUS

Unit-I	Electronic Commerce	Classes: 12
Consum	ic Commerce: Frame work, anatomy of E-Commerce er applications, E-Commerce organization application er Oriented Electronic commerce: Mercantile Proce	ons.
Unit-II	Electronic Payment Systems	Classes: 12
Payment	ic paymentsystems: DigitalToken-Based, SmartCard systems. ganizational Commerce: EDI, EDI Implementations,	
Unit-III	Inter Organizational Commerce	Classes: 13
Supply cl Corporat	ganizational Commerce: Work Flow, Automation Con hain Management. te Digital Library: Types of Digital Documents, Corp ing and Marketing, Advertising on the Internet, On-	orate Data Warehouses, e-
	Consumer Search	Classes: 11



Filtering, Consumer-Data Interface.

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Unit-V	Multimedia and e-Commerce	Classes: 12
	dia and e-Commerce: Digital Video and e-commerce, Video Conferencing.	Desktop Video Processing,
Text Boo	ks:	
1. Electro	onic Commerce, Pete Loshin/ Ohn Vacca, Fourth Editio	on, FirewallMedia.
2. Electro	onic Commerce, Efraim Turban, Fourth Edition, Pearso	n.



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INTRUSION DETECTION SYSTEMS

Course Code	Category	Hours / Week		Credit	Ma	Maximum Marks		
17CA05711	моос	L T		P	С	CIA SEE Total		
1/CA05/11	MOOC	3		-	3	30	30 70	Total
Contact Classes: 45	Tutorial Classes: Nil	Practical Classes: Nil Total Classes				es: 45		

Objectives:

The course should enable the students to:

- To impart knowledge on application of Intrusion Detection Systems (IDS), Network security monitoring, Network Forensics and Intrusion Prevention system (IPS).
- To develop skills for identifying, resolving, and documenting network crises and activating the response team.

Unit-I INTRODUCTION TO INTRUSIO DETECTION SYSTEMS Classes: 09

Basic Concepts of Security, Introduction to Intrusions, Need of Intrusion Detection, Taxonomy of Intrusion Detection Systems (IDSs), , Audit, Concept and definition, Distributed intrusion detection system.

Password Management-Password protection, Password Selection Strategies.

Unit-II HOST-BASED AND NETWORK-BASED INTRUSION DETECTION Classes: 09

HOST-BASED INTRUSION DETECTION: Host Vulnerability, Security Attacks, Security Services and Security Mechanisms, A Model for Network Security, Standard for Network Security.

NETWORK-BASED INTRUSION DETECTION: Network Vulnerabilities and Attacks – Routing Attacks, IP Attacks, ICMP Attacks, TCP Attacks, DNS Attacks, Denial of Service (DoS) Attacks and Distributed Denial of Service attacks(DDoS).

Unit-III ARCHITECTURE AND IMPLEMENTATION OF IDS Classes: 09

Architecture and Implementation: Centralized - Distributed - Cooperative Intrusion Detection - Tiered architecture

Unit-IV INTRUSION PREVENTION SYSTEM Classes: 09

Intrusion Prevention Over iew, Signatures and Actions: Types, Triggers and actions, Operational Tasks: deploying a configuring IPS devices and applications, Monitoring IPS activities, Securing IPS communications.

Types of Sevention systems: Introduction to Host-based and Network-Based alatousing College (Autonomous)

Types of Sevention systems: Introduction to Host-based and Network-Based alatousing College (Autonomous)

TIRUPATI

CODE: 17CA05711

Unit-V

LEGAL ISSUES AND ORGANIZATIONS STANDARDS

Classes: 09

Legal Issues and Organizations Standards: Law Enforcement / Criminal Prosecutions - Standard of Due Care - Evidentiary Issues, Organizations and Standardizations.

Text Books:

 R. D. Pietro & L. V. Mancini, "Intrusion Detection Systems", Handbook of Advances in Information Security, Springer, 2008

Reference Books:

- Earl Carter, Jonathan Hogue, "Intrusion Prevention Fundamentals," First Edition, Pearson Education, New Delhi, 2002.
- Ali A. Ghorbani, Wei Lu, "Network Intrusion Detection and Prevention: Concepts and Techniques", Springer, 2010.
- Carl Enrolf, Eugene Schultz, Jim Mellander, "Intrusion detection and Prevention", McGraw Hill, 2004
- Richard Bejtlich, "Extrusion Detection: Security Monitoring for Internal Intrusions," First Edition. Pearson Education, New Delhi, 2004.

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BIG DATA LABORATORY

VII Semester: CSE (Non-FSI) / VIII Semester: CSE (FSI)

Course Code	Category	Hou	rs/W	eek	Credits	Maximum		
17CA05713 Cor	Core	L	т	P	c	CIA	SEE	To tal
TICAUSIIS	Core	21	-27	4	2	30	70	10
Contact Classes: 45	Tutorial Classes:Nil	Prac	tical (lasses	Nil	Total Clas	eoc. 45	10

Objectives:

· Learn Working with big data tools

Week 1

1. Implement the following Data structures in Java

a)Linked Lists b) Stacks c) Queues d) Set e) Map

Week 2

2. (i)Perform setting up and Installing Hadoop in its three operating modes:

Standalone,

Pseudo distributed.

Fully distributed.

(ii)Use web based tools to monitor your Hadoop setup

Week 3

3. Implement the following file management tasks in Hadoop:

Adding files and directories

Retrieving files

Deleting files

Hint: A typical Hadoop workflow creates data files (such as log files) elsewhere and copies them into HDFS using one of the above command line utilities.

Week 4

4. Run a basic Word Count Map Reduce program to understand Map Reduce Paradigm.

Week 5

5. Write a Map Reduce program that mines weather data.

Weather sensors collecting data every hour at many locations across the globe gather a large volume of log data, which is a good candidate for analysis with MapReduce, since it is semi structured and record-oriented

Week 6:

6. Implement Matrix Multiplication with Hadoop Map Reduce

Week 7.8:

7. Install & Run Pig then write Pig Latin scripts to sort, group, join, project, filter your data.

Week 9,10:

8. Install and Run Hive then use Hive to create, alter, and drop databases, tables, views, functions, and indexes

Text Books:

Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly

Reference Books:

Hadoop in Action by Chuck Lam, MANNING Publications.

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MOBILE APPLICATION DEVELOPMENT LABORATORY

VII Semester: CSE (Non-FSI) / VIII Semester: CSE (FSI)

Course Code	Category	Hours / Week Credits Maximum Mar				ım Marks		
		L	T	P	C	CIA	SEE	Total
17CA05714	Core	-	1.5	4	2	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 42		42	Total Classes:42			

Objectives:

- To understand fundamentals of android operating systems.
- Illustrate the various components, layouts and views in creating android applications
- To understand fundamentals of android programming.

WEEK 1

Create "Hello World" Application

- 1.1 Create a new Android Project
- 1.2 Run "Hello World" on the Emulator
- 1.3 On a Physical Device
- 1.4 Greeting the User

WEEK 2

2. Create Application by Using Widgets

Creating the Application by using the Activity class

- (i) onCreate()
- (ii) onStart()
- (iii) onResume()
- (iv) onPause()
- (v) onStop()
- (vi) onDestroy()
- (vii) onRestart()

WEEK 3

3. Creating the Application by using Text Edit control.

WEEK 4

- 4. Creating the Application Choosing Options
- (i) CheckBox
- (ii) RadioButton

WEEK 5

5.Creating the Application Choosing Options



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MBA - I YEAR SEMESTER - I

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(AUTONOMOUS)

(Affiliated to JNTUA, Approved by AICTE, New Delhi and Accredited by NAAC 'A' Grade) Tirupati - 517506, Chittoor Dt. Andhra Pradesh.

Management and organization Behaviour



		I MBA I Semester :								
Course Code	Category	Hours/Week			Credits	Maximum Marks				
	Foundation	L	T	P	C	Internal	External	Total		
20CE00101	10000000	4	-	-	4	40	60	100		
Contact classes:50	Tutorial Classes:15	Practica	Practical classes: Nil Total classes:65							

COURSE OBJECTIVE:

To understand the fundamentals of management and behavioral aspects of individual and groups in an organization. This will form foundation to study other functional areas of management. Further, this course provides insight into behavioral issues.

COURSE OUTCOMES: The student is able to

CO1: Examine the Management concepts and functions. [K4]

CO2: Apply the concepts of planning, decision making, and delegation of authority, decentralization and departmentalization in real life situations. [K3]

CO3: Analyze the controlling principles and practices, Ethics and corporate

social responsibility. [K4]

CO4: Discuss the organizational behavior and climate. [K6]

CO5: Evaluate the basic concepts of organizational conflicts and climate. [K5]

SYLLABUS:

UNIT-I: MANAGEMENT

lature, Scope and Importance, Science, Art, Profession, Managerial roles and ctions, Management skills, Evolution of management thought, levels of management, DIRECTOR Chadalowskia Rassamorano Engineering Callege allenges of manage, management Vs. Administration.

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UNIT-II: PLANNING& DECISION MAKING

Nature and Importance of planning, Steps in planning - Types of planning, Planning premises, - Forecasting techniques - Decision making - Significance - Process of Decision making - techniques - MBO.

UNIT-III: ORGANIZING& CONTROLLING

Concept, Nature, Principles, and Types of Organization structures, Departmentalization, Span of management – power - Authority and Responsibility Relationship – Delegation - Centralization and decentralization of Authority.

Control Concepts, Steps, Design of effective control System - Types of Controlling Techniques, Co-ordination types and principles.

UNIT-IV: ORGANISATIONAL BEHAVIOUR AND CULTURE

Organizational Behavior: Definition, Nature, Scope, Importance, Linkages with other social sciences-Organizational climate -Organizational Culture - Implications of OC.

UNIT-V: ORGANISATIONAL CONFLICTS

Goal conflict- Role- Organizational level of conflict - Group level - Conflict Management - Organizational effectiveness - concept - Approaches - Factors - Organizational change, Nature - Factors - Process- Organizational growth & Change Agents- OD- concept, Process and Techniques

Relevant cases and situation analysis is discussed in each unit

REFERENCE BOOKS:

- Koonz, Weihrich and Aryasri: "Principles of Management", Tata McGraw Hill, 2004.
- William, Tripathy: "MGMT (including instructor recourses)", Cengage Learning, NewDelhi, 2013.
- Griffin, Moorhead: "Managing Organizational Behavior", Cengage Learning, NewDelhi, 2013.
- Jerald Greenberg and Robert A Baron: "Behavior in Organizations", PHI Learning PrivateLimited, New Delhi, 2009.
- Mullins, Laurie: "Management and Organizational Behavior", Pearson Education, New Delhi, 2013
- Jennifer M.George and Gareth R. Jones: "Understanding and Managing Organizational Behavior", Pearson Education, NewDelhi, 2009.
- 7. Meenakshi Gupta: "Principles of Management", PHI Private Limited, New Delhi, 2009.
- 8. Anil Bhat, Arya Kumar: "Management", Oxford University, New Delhi, 2008
- Jai B.P.Sinha: "Culture and Organizational Behavior", Sage Publication India Private Limited, New Delhi, 2008.

10 K. Aswathappa: "Organizational Behavior-Text, Cases and Games", Himalaya Publishing
House, New Delhi, 2008,

Pareek Utati: "Understanding Organizational Behavior", Oxford University on Press New

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Course: Managerial Economics (20CE00102)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	1	2	1	1	1	1
CO2	2	1	3	3	2	1	1	2
CO3	3	1	2	2	1	1	2	1
CO4	3	1	1	1	1	1	1	1
CO5	3	2	1	3	1	1	1	1



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(Affiliated to JNTUA, Approved by AICTE, New Delhi and Accredited by NAAC 'A' Grade) Tirupati - 517506, Chittoor Dt. Andhra Pradesh.

Accounting for Managers

		I MBA I Semester :							
Course Code	Category	Hour	s/Week	N THE CO	Credits	Maximu	m Marks		
20CE00103		L T P			C	Internal	External	Total	
		4	-	-	4	40	60	100	
Contact classes:50	Tutorial Classes:15	Practical classes: Nil Total classes:65							

Course Description:

Thiscourseis designed tointroduceandanalyzetheneed.users view, concepts and conventions of Accounting. The course starts with the preparation of

books of Accounts and then discusses preparation of financial statements, their analysis, accounting standards and emerging issues inAccounting field as a branch of study.

COURSE OBJECTIVES:

To prepare, understand, interpret and analyze financial statements with a thorough conceptual understanding. To appreciate and use financial statements as a means of business transparency for stakeholders. To use the analytical techniques and arrive at conclusions from financial information for the purpose of managerial decision making.

COURSE OUTCOMES

CO1: Develop and understand the nature and purpose of financial statements in relationship to decision making and the applicability of Accounting Standards, [K4]

CO2: Enhancing knowledge in preparation of final accounts, Income tax concepts and returns of

203: Appreciate the distinction in preparing accounts for NFP organisations, applying methods of depreciation and inventory valuation [K4]

OS: Evaluation the financial statements key managerial decisions [K5] hodelawada Remanatura Engineering College CO4: Analysing financial statements from stakeholders' point of view[K4]

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GST-[K3]

UNIT - I	Introduction	1. Classes:
		10

Meaning and Definition of Accounting - Need of Accounting for business decisions - Objectives of Preparation of Accounts - Users of Accounting Information - Classification of Accounts -Rules of Debit and Credit - Accounting Concepts and Conventions - Accounting Cycle - Process of Accounting - Journalizing - Posting - Trial Balance - Introduction to Accounting Standards -Accounting Standards Board of India.

UNIT-II Financial Statements

Classes: 10

Preparation and Presentation of Final Accounts - Trading Account - Profit and Loss Account -Balance Sheet- Provisions of Company's Act, 2013 relating to the preparation and presentation of Final Accounts of Companies - Income Taxconcepts - Tax Evasion - Computation of GST [simple problems] - GST Returns

UNIT - III Income and Expenditure

Classes: 10

NFP organisations - Distinction between Capital and Revenue- Capital Expenditure - Revenue Expenditure - Deferred Revenue Expenditure - Capital Receipt and Revenue Receipt-Depreciation: Concept, Reasons, Methods of Depreciation Straight Line, written down, sum of years digits, annuity, machine hour rate - AS-6 - Inventory - Types - Inventory Valuation Methods-AS-2

UNIT - IV Financial Analysis I

Classes: 10

Financial Statement Analysis: Importance, Uses, Horizontal Analysis, Vertical Analysis - Trend Percentages- Ratio Analysis: Importance, Uses - Solvency - Liquidity - Activity - Profitability Ratios.

UNIT - V Financial Analysis II

Classes: 10

Concept of Funds - Uses and Preparation of Cash Flow Statements - Direct and Indirect methods - Uses and Preparation of Funds Flow Statements - Schedule of Changes in Working Capital -Ascertaining Funds from Operations - Managerial decisions

REFERENCES:

- 1. Paresh Shah: "Financial accounting for Management", Oxford University press, New Delhi,
- 2. V.Rajasekharan, R.Lalitha, Financial Accounting & Analysis, 1st Edition, Pearson Education, NewDelhi, 2010
- 3. DhaneshK.Khatri, Financial Accounting & Analysis, Tata McGraw-Hill Publishing Limited, New Delhi, 2014.
- 4. N.Ramachandran, Financial Accounting & Analysis, 4th Edition, Tata McGrawHill Publishing Limited, New Delhi, 2016.
- 5. Maheswarie Maheswari, Financial Accounting, 6th Edition, Vikas Publishing House, 2018.

6. T. Sjaya Kumar, Accounting for Management, Tata McGraw Hill Education Pyt Ltdg New Delhi,

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Tirupati – 517506, Chittoor Dt. Andhra Pradesh.

Business Communication Lab-I

		I MBA I Semester :							
Course Code	Category	Hours/Week		ek	Credits	Maximum Mark			
20CE00108	Foundation	L	T	P	C	Internal	External	Total	
20CE00108		4	-		4	40	60	100	
Contact classes:50	Tutorial Classes:10	Practical classes: Nil Total classes: 55							

Objectives:

The introduction of Business Communication Lab is considered as essential in the I year I semester level. At this stage the students have to develop themselves for their career so that they have to practice listening, speaking, Reading and writing skills in English for interpersonal communication and for their Profession in this globalised era.

Course Outcomes:

CO1: To extract the need and importance of effective communication skills in the social and work related situations. (K4)

CO2:To use phonetics in different business/work related situations. (K3)

CO3:To elevate listening skills and effective communication skills. (K2)

CO4:Thorough application of speaking skills and capable of organising various events. (K3)

CO5:Develop writing and reading skills and equipping managerial skills. (K6)

Unit – I Understanding the need of Communication Skills

Understanding the need of Communication Skillsfor Managers, importance of effective communication through different social/work related situations, Enact role play of verbal and Nonverbal communication, Identifying the communication barriers in theoremization through case studies, identify effective use of body language, paralanguage and spatial communication

Unit – II Phonetics Classes: 10

Phonetics- Introduction to sounds of speech, vowels and consonants, phonetic transcription, orthographic transcription, syllabification, word stress, Innovation, Accent,Rhythm, Oral Skills, Situational Dialogues, Role Plays.

Unit - IIV Classes: 10

Listening with a focus on pronunciation (ear training) : segmental-sounds, stress, calc forms,

discussions, Respectively. (oral comprehension) listening to talks, lectures Desirer sations of College Chodeloweds Removement (AUTONOMOUS)

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Speaking about the future plans, expressing opinions, Telephone conversations, PPT Presentations, Poster Presentations, Public Speaking, Welcome Address (Inviting Dignitaries to department workshops, symposiums and university functions proposing vote of thanks), Interview Skills and Mock Interviews.

Unit - V Writing and Reading exercises Classes: 10

Reading and comprehension of the texts supported by suitable exercises Use of Dictionary, Note making after reading a text, showing the main idea and supporting ideas and the relationships between them -Practice in writing paragraphs, short essays and summaries. Skills Training:- Non-Verbal communication, Decision Making, Goal Setting, Etiquettes and grooming, Stress Management, Time Management, Problem Solving Skills.

Reference Books:

- 1. □ Basic Business Communication Skills for empowering the internet generation, LesikarFlately, Tata McGraw Hill.
- 2. Business Communication for Managers, Penrose, Rasberry and Myers, Cengage.
- 3.□A Text Book of English Phonetics for Indian Students by, T. Balasubramanian, McMillan.

Mode of Evaluation: Assignments, Seminars, Written Examinations.



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Tirupati – 517506, Chittoor Dt. Andhra Pradesh.

ENTREPRENEURSHIP DEVELOPMENT

	II MBA I Semester:											
Course code	Category	Н	ours / Wee	:k	Credits	Maximum Marks						
	T. data	L	T	P	C	Internal	External	Total				
20CE00301	Foundation	4	-		4	40	60	100				
Contact Classes: 50	Tutorial Classes: 15	P	ractical C	lasses - 1	Nil	Tot	al Classes -	65				

COURSE OBJECTIVES:

The main objective of this course is develop entrepreneurial abilities by providing background information about support systems, skill sets, financial and risk covering institutions and other for building an enterprise so that future budding entrepreneurs can make right decisions for starting and running a venture.

COURSE OUTCOMES:

CO1: To equip and develop the learners entrepreneurial skills and qualities essential to undertake business [k3].

CO2: To build the learner's entrepreneurial competencies needed for managing business efficiently and effectively [k6].

CO3: To analyze the business plan for starting a business [K4].

CO4: To formulate and manage a small business [K6]

CO5: To manage and monitor the small business [K5].

UNIT - I: Entrepreneurial Competence:

Entrepreneurship concept Entrepreneurship as a Career – Entrepreneurial Personality -Characteristics of Success of Entrepreneurs – Knowledge and Skills of an Entrepreneur.

UNIT- Entrepreneurist Environment:

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Business Environment Rule of Family and Society - Entrepreneurship Development Training and Other Support Organical Services - Central and State Government Industrial Policies and Regulations.

UNIT- III Business Plan Preparation:

Sources of Product for Business - Prefeasibility Study - Criteria for Selection of Product - Ownership - Capital Budgeting- Project Profile Preparation - Matching Entrepreneur with the Project - Feasibility Report Preparation and Evaluation Criteria.

UNIT- IV: Launching of Small Business:

Finance and Human Resource Mobilisation - Operations Planning - Market and Channel Selection - Growth Strategies - Product Launching - Incubation - Venture capital, Start-ups.

UNIT- V: Management of Small Business:

Monitoring and Evaluation of Business - Business Sickness - Prevention and Rehabilitation of Business Units - Effective Management of small Business - Case Studies.

REFERENCES:

- 1. S.S.Khanka, Entrepreneurial Development, S.Chand and Company Limited, New Delhi, 2016.
- R.D.Hisrich, Entrepreneurship, Tata McGraw Hill, New Delhi, 2018.
- 3. Rajeev Roy, Entrepreneurship, Oxford University Press, 2nd Edition, 2011.

TEXT BOOKS:

- Dr. Vasant Desai, "Small Scale Industries and Entrepreneurship", HPH, 2006.
- 2. Arya Kumar. Entrepreneurship, Pearson, 2012.
- Prasanna Chandra, Projects Planning, Analysis, Selection, Implementation and Reviews, Tata McGraw-Hill, 8 th edition, 2017.

SNO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO.1	3	2	1	1	1	2	1	2
CO.2	2	1	1	1	2	1	1	2
CO.3	1	3	1	3	1	2	1	1
CO.4	1	1	1	1	2	1	2	2
CO.5	1	1	1	1	2	1	2	2



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Tirupati – 517506, Chittoor Dt. Andhra Pradesh.

Legal Aspects of Business

		II MB/	II Sen	ester:				
Course Code	Category	Ho	ours/We	ek	Credits	N	Maximum M	larks
20CE00403	Foundation	L	T	P	C	Internal	External	Total
20CE00403		3	-	-	4	40	60	100
Contact classes:50	Tutorial Classes:15	Practic	al classe	s: Nil		Total cla	sses:65	

COURSE OBJECTIVES:

To sensitize the students as also help they appreciate the overall legal framework within which business activities are carried out. To create awareness in respect of rules and regulations affecting various managerial functions.

COURSE OUTCOMES:

CO1: Analyze the Indian Contract Act. [K4]

CO2: Evaluate Sales of Goods Act and the machinery for redressal of consumer grievances. [K5]

CO3: Elaborate rights and duties of agent and principal, Principal's liability for the acts of agent and the procedure for termination of agency. [K6]

CO4: Examine the rights and duties of partners, dissolution of partnership firm and the formation of company, amendments act in 2013. [K4]

CO5: Explain the kinds of Negotiable Instruments and Goods and Services Act. [K5]

UNIT -I: THE INDIAN CONTRACT ACT, 1872

Nature of the Act - - Essentials of a Valid Contract - Classification of Contracts- Capacity - Free Consent —Performance of a Contract - Discharge of a Contract - Remedies for Breach of a Contract

UNIT -II: SALES OF GOODS ACT, 1930 & CONSUMER PROTECTION ACT, 1986
Distinction between Sales and Agreement to Sell -Conditions and Warranties - Performance of
Contract of Sale - Rights of an Unpaid Seller. Consumer Protection Act, 1986: Consumer RightsMachinery for Redressal of Consumer Grievances - District Consumer Forum - State Level

mmission National Level Commission.

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UNIT -III: CONTRACT OF AGENCY ACT, 1872

Kinds of Agents - Creation of Agency-Rights and Duties of Principal - Rights and Duties of Agent - Principal's Liability for the Acts of the Agent-Liability of Agent - Termination of Agency.

UNIT-IV: INDIAN PARTNERSHIP ACT, 1932

Meaning and Essentials of Partnership Firm -Registration Deed - Tests of Partnership-Rights and Duties of Partners -Dissolution of Partnership.

UNIT -V: COMPANIES ACT 2013 & NEGOTIABLE INSTRUMENTS ACT, 1881

- (i) Nature and Types of Companies Formation of a Company Memorandum of Association-Articles of Association–Kinds of Shares – Company Act amended in 2013 - Duties of Directors-Winding up Procedure.
- (ii) Kinds of Negotiable Instruments and Endorsement- Presentation of a Negotiable Instrument Discharge of a Negotiable Instrument - Goods and Services Tax Act, 2017

Relevant cases have to be discussed in each unit

TEXT BOOKS:

- "Legal Aspects of Business" Ravindra Kumar: Cengage Learning, New Delhi, 2011
- "Business Legislation for Management", Kuchhal M C, DeepaPrakash: Vikas Publishing House, New Delhi, 2012

REFERENCE BOOKS:

- 1. "Legal Aspects of Business", Pathak: Tata McGraw Hill, New Delhi, 2010
- "A Manual of Business Laws", S.N.Maheshwari, S.K.Maheshwari: Himalaya Publishing House, 2013.
 - 3. "Legal Aspects of Business", P.K.Padhi: PHI Learnings, New Delhi, 2013
 - 4. "Business Law", S.S Gulshan: Excel Books, New Delhi, 2012.

Course: Legal Aspects of Business (20CE00403)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08
CO1	2	3	1	1	2	2	1	1
CO2	1	2	1	3	1	1	2	2
CO3	3	1	1	2	1	2	1	1
CO4	3	1	2	1	2	1	2	3
CO5	1	2	1	3	2	2	1	1,



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PHTHON PROGRAMMING LAB

Course Code	Category		Hours / Week C			Maximum Marks		
		L	T	P	C	CIA	SEE	Total
20CF00108	core			4	2	40	60	100
Contact Classes; Nil	Tutorial Classes: Nil	il Practical Clas	ses: 45	Total classes:45				

Course Objectives:

- · To train the students in solving computational problems
- To elucidate solving mathematical problems using Python programming language
- Practical understanding of building different types of models and their evaluation

Course Outcomes:

- Design real life situational problems and think creatively about solutions of them.
- Apply a solution clearly and accurately in a program using Python.
- Student will be able to understand the fundamentals of Python programming concepts and its
 applications.
- Students will be able to solve computational problems.

Apply the best features of Python to program real life problems

Week-1	Write a program to demonstrate a) Different numeric data types and b) To perform different Arithmetic Operations on numbers in Python.
Week-2	Write a Python program to find first n prime numbers. Write a Python Program to find the maximum from a list of numbers.
Week-3	Write a Python program to find GCD of two numbers. Write a Python Program to find the square root of a number by Newton's Method
Week-4	Write a Python program to multiply matrices. Write a program to print each line of a file in reverse order.
Week-5	Write a program to convert a list of tuples in a dictionary. Write a Python program to check whether an element exists within a tuple.
Week-6	Write a function dups to find all duplicates in the list. Write a function cumulative product to compute cumulative product of a list of numbers
Week-7	Write a Python script to concatenate following dictionaries to create a new one. Sample Dictionary: dic1={1:10, 2:20} dic2={3:30, 4:40} dic3={5:50,6:60} Write a Python program to replace dictionary values with their average.
Week-8	Write a program to read character data from a text file by using the following read method: read(),read(n),readline(),readlines().
Week-9	Write a program to describe about Instance variable using ATM Machine Class

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	Write a program to describe about Class variable using Robot Class
Week-10	Write a program to access static & instance variable in a class.
	Write a program to demonstrate the user defined & predefined exceptions.
Referen	nces:
• A Pr	actitioner's Guide to Software Test Design, Lee Copeland, 2003



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OFFICE AUTOMATION LAB

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OFIC AUTOMATION LAB

Course Code	Category Hours/Week		k	Credits	Maximum Marks			
	B 1.4	L	T	P	С	CIA	SEE	Total
20CF00109	Foundation	-	*	4	2	40	60	100
Contact Classes: Nil Tutorial Classe		es: Nil		Prac	ctical Classes: 45	Total	Classes	: 45

Course Objectives:

- Learning about the Computer internal components.
- Practice on operating system installation and configuration settings.
- Prepare productivity tools like word processors, spreadsheets, presentations.

Course Outcomes:

- Able to Assemble and dissemble the computer components.
- · Able to prepare power point presentations
- · Able to construct data charts and graphs.
- Able to generate reports.
- Prepare professional documents, perform accounting operations, and prepare professional multimedia presentations...

nultimedia presentations
Learn about computer internal parts & Peripherals.
Assembling & Disassembling a Computer.
Installation of various Operating Systems.
Networking two or more computers and document the process.
Browsing Internet and creating an email account: Studying various web browsers and their features.
Word Processor: Introduction to Word:Creating project Certificate; Abstract features to be covered; Formatting Styles: Inserting table, bullets and numbering, changing text direction, cell alignment, footnote, hyperlink, symbols, spell check, images from files and clipart, drawing toolbar and Word Art, formatting images, textboxes and paragraphs, Page numbers, Header and Footer, Mail merge, Macro.
Spreadsheet-I: Spreadsheet basics, modifying worksheets, formatting cells, formulas and functions.
Spreadsheet-II: Sorting and filtering, charts, renaming and inserting worksheets, hyper linking, count function, sorting, and conditional formatting.
Presentations: creating, opening, saving and running the presentations, Selecting the style for slides, formatting the slides with different fonts, colors, creating charts and tables, inserting and deleting text, graphics and animations, bulleting and numbering, hyperlinking, running the slide show, setting the timing for slide show.

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Optional	Tasks:
Exp- 10	A report on specifications of Laboratory Equipment
Exp-11	A report on different Antivirus softwares and their installation, usage.
Referenc	es:

"MOS study guide for word, Excel, Power point & Outlook Exams", Joan Lambert, Joyce Cox, PHI.



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DATABASE MANAGEMENT SYSTEMS

I– Semester								
Course Code	Category		urs / \	Week	Credits	Maximum Marks		
22244444	want	L	T	P	C	CIA	SEE	Total
20CF00201	Core	3		3	40	60	100	
Contact Classes: 50	Tutorial Classes: Nil	Practical Class		Practical Classes: Nil		Total Classes: 50		

FULL STACK TECHNOLOGYES LAB

Course Code	Category		Hours/Week			Maximum Marks		
20CF00311	Core	L	T	P	C	CIA	SEE	Total
	Cone			3	2	40	60	100
Contact Classes: Nil	Tutorial Classes: N	vit	Practical	Classe	s: 45	Total	Classes	:45

Course Objectives:

From the course the student will Learn

- The core concepts of both the frontend and backend programming course.
- · Get familiar with the latest web development technologies.
- · Learn all about SQL and Mongo databases.

Course Outcomes:

At the end of the course, student will be

- · Able to Identify the Basic Concepts of Web & Markup Languages
- Develop web Applications using Scripting Languages & Frameworks
- Creating & Running Applications using JSP libraries
- Creating Our First Controller Working with and Displaying in Angular Js and Nested Forms with ng-form Working with the Files in React JS and Constructing Elements with Data
- Creating Our First Controller Working with and Displaying an Online fee payment form using JScript and MangoDB

List of Programs

Week-1	Implementation of 'get' and 'post' methods
Week- 2	CSS implementation in colors, boarder padding
Week- 3	CSS implementation button frames tables, navigation bars.
Week- 4	Create registration and login forms with validations using Jscript query.
Week- 5	Iscript to retrieve student information from student database using database connectivity
Week- 6	Angular Js data binding
Week- 7	Angular JS directives and Events
Week- 8	Using angular Js fetching data from MySQL.
Week- 9	Using React Js creating constructs data elements.
Week-10	Using React Js implementations DoM
Week-11	Invoking data using Jscript from Mongo DB
Week-12	Create an Online fee payment form using JScript and MangoDB

Reference Books

Jeffrey C. Jackson, "Web Technologies--A Computer Science Perspective", Pearson Education, 2006
 Robert, W. Sebesta, "Programming the World Wide Web", Fourth Edition, Pearson Education, 2007
 Angular JS: Up and Running Enhanced Productivity with Structured Web Apps By Brad Green,

Shyam Seshadri Publisher: O'Reilly Media

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ARTIFICIAL INTEHIGENCE USING R LAB

Course Code	Category	Hours /		Hours / Week		Maximum Mark		
20CF00213	Com	L	T	P	C	CIA	SEE	Total
	Core	-		4	2	40	60	100
Contact Classes; Nil	Tutorial Classes: Nil	P	ractic	al Cla	sses: 45	Tot	al Classe	s: 45

Course Objectives:

- · Able to Install and use R for simple programming tasks.
- · To Extend the functionality of R by using add-on packages
- · Understand basic idea of how to program in R and its working environment.
- · Understand how to write simple facts using R
- · Extract data from files and other sources and perform various data manipulation tasks on them.

Course Outcomes:

- · Create a software application using the Java programming language.
- · Debug a software application written in the Java programming language.
- Test a software application written in the Java programming language.
- Apply the knowledge of R gained to data Analytics for real life applications

List of Experiments

Week-1

 Write predicates One converts centigrade temperatures to Fahrenheit, the other checks if a temperature is below freezing using R.

Week-2

1. Write a program to solve 8 queens problem using R.

Week-3

- 1. Write a Program to Solve any problem using depth first search using R.
- 2. Write a Program to Solve any problem using best first search using R.

Week-4

1. Write a program to implement factorial, Fibonacci of a given number using R.

Week-5

1. Write a program to solve Robot (traversal) problem using means End Analysis using R.

Week-6

1. Write a program to solve traveling salesman problem using R.

Week-7

1. Write a program to solve water jug problem using R.

Week-8

1. Write a program to solve the Monkey Banana problem using R.

Week-9

1. Write a program to solve 8-puzzle problem using best first search

Web References:

- https://www.dbit.ac.in/cse/svllabus/artificial-intelligence-lab.pdf
- https://www.brcmcet.edu.in/downloads/files/n51c82bcca56b1.pdf

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MACHINE LEARNING LAB

		L	T	P	C	CIA	SEE	Total
20CF00312	core	-		3	2	40	60	100
Contact Classes: Nil	Tutorial Classes: Nil	8	Practi	cal Class	es: 45	Т	otal class	es:45

Course Objectives:

- · Understand the implementation procedures for the machine learning algorithms.
- · Design Java/Python programs for various Learning algorithms.
- Identify and apply Machine Learning algorithms to solve real world problems

Course Outcomes:

- · Implement procedures for the machine learning algorithms
- · Design Python programs for various Learning algorithms
- · Building an Artificial Neural Network for machine learning algorithms
- · Apply appropriate data sets to the Machine Learning algorithms
- · Identify and apply Machine Learning algorithms to solve real world problems

Week-1	Implement and demonstrate the FIND-S algorithm for finding the most specific hypothesis based on a given set of training data samples. Read the training data from a .CSV file
Week-2	For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm to output a description of the set of all hypotheses consistent with the training examples.
Week-3	Write a program to demonstrate the working of the decision tree based ID3 algorithm. Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample
Week-4	Build an Artificial Neural Network by implementing the Back propagation Algorithm and test the same using appropriate data sets
Week-5	Write a program to implement the naïve Bayesian classifier for a sample training data se stored as a .CSV file. Compute the accuracy of the classifier, considering few test datasets.
Week-6	Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task. Built-in Java classes/API can be used to write the program Calculate the accuracy, precision, and recall for your data set.
Week-7	Write a program to construct a Bayesian network considering medical data. Use this model to demonstrate the diagnosis of heart patients using standard Heart Disease Data Set. You can use Java/Python ML library classes/API.
Week-8	Apply EM algorithm to cluster a set of data stored in a .CSV file. Use the same data set for clustering using k-Means algorithm. Compare the results of these two algorithms and comment on the quality of clustering. You can add Java/Python ML library classes/API in the program.
Week-9	Write a program to implement k-Nearest Neighbour algorithm to classify the iris data set. Print both correct and wrong predictions. Java/Python ML library classes can be used for this problem
Week-10	Implement the non-parametric Locally Weighted Regression algorithm in order to fit data points. Select appropriate data set for your experiment and draw graphs
Refere	nces:



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MOBILE APPLICATION DEVELOPMENT LAG

Course Code	Category	Hours/Wee		Hours/Week		Maximum Marks		
20CF00313	Coso	L	T	P	C	CIA	SEE	Total
200,100313	Core	-	-	3	2	40	60	100
Contact Classes: Nil	Tutorial Classes	s: Nil		Practi	cal Classes: 45	Total C	lasses:	45

Course Objectives:

- · To understand fundamentals of android operating systems.
- · Illustrate the various components, layouts and views in creating android applications
- To understand fundamentals of android programming.

Course Outcomes:

- · Create data sharing with different applications and sending and intercepting SMS.
- Develop applications using services and publishing android applications.
- · To demonstrate their skills of using Android software development tools.
- To create Android environment using different interceptions.
- Demonstrate various applications connecting databases.

Setting Up the Development Environment :

1.1 Download/Install the SDK

For in-depth instructions, visit Android Installation Documentation. Otherwise perform the following steps.

- Go to http://developer.android.com/sdk/index.html.
- Unpack to a convenient location Remember the full path to this location, we will refer to it as <android sdk dir> for the rest of the lab.
 - o <android sdk dir> would then be/home/<username>/android dir.
- Add the path to the <android_sdk_dir>/tools directory to your system PATH
 o Windows:
- 1. Right-click My Computer.
- 2. Click Properties.
- 3. Click Advanced tab.
- 4. Click Environment Variables button.
- 5. Double Click Path under System Variables.

Add; <android_sdk_dir>/tools;<android_sdk_dir>/platform-tools to the end of the Variable Values text field.

Navigate to your <android_sdk_dir>/tools directory and type android.
 Add the appropriate components. See step 4 in

http://developer.android.com/sdk/installing.html.

- Test your installation by running adb from the command line. If you did everything right, you should get a long list of help instructions.
- Click the menu Help -> Software Updates.
- Click Available Software tab -> Add Site button.
- Enter https://dl-ssl.google.com/andriod/eclipse into the "Location" field.
- 4. Click OK button.
- Click the checkbox next to Developer Tools.
- Click the Install button.
- 7. Click the Next button.
- Accept the terms, click Finish.
- 9. Restart Eclipse.

1.2 Download/Install the Eclipse Plugin

Week-2

Week-1

· It is recommended that you use Eclipse 3.4 or later

Lab Machines - Fedora Eclipse based on 3.4.2 The version of Eclipse used by the lab machines is missing a vital component and requires adding an additional Eclipse plugin in

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RAPID PROTOTYPING

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Course Code		Category	Category Hours / Week		Week	Credits	Ma	ximum M	larks
21CD03103		Core	Core L T P C		С	CIA SEE TO		Total	
			4		3.53	4	40	60	100
Contact Classes: 64 Tutorial Classes: Nil		F	ractic	al Clas	ses: Nil	Total Classes: 64			
UNIT-I INTRODUCTION TO RAPID PRO				YPINO				Classes	: 14

Introduction: Need for the compression in product development, History of RP system, Survey of applications, Growth of RP industry and classification of RP system. RPT and its role in modern manufacturing mechanical design.

Stereo Lithography System: Principle, Process parameter, Process details, Data preparation, Data files and machine details, Applications.

UNIT-II FUSION DECOMPOSITION MODELING & SOLID GROUND CURING | Classes: 14

Fusion Decomposition Modeling: Principle, process parameter, Path generation, Applications. Solid ground curing: Principle of operation, Machine details, Applications,

UNIT-III Laminated Object Manufacturing & CONCEPTS MODELERS Classes: 12

Laminated Object Manufacturing: Principle of Operation, LOM materials, Process details, Applications.
Concepts Modelers: Principle, Thermal jet printer, Sander's model market, 3-D printer, Genisys Xs printer HP system 5, Object Quadra system.

UNIT-IV LASER ENGINEERING NET SHAPING (LENS)

LASER ENGINEERING NET SHAPING (LENS)

Rapid Tooling: Indirect Rapid tooling- Silicon rubber tooling- Aluminum filled epoxy tooling, Spray metal tooling, Cast kriksite, 3Q keltool, etc, Direct Rapid Tooling Direct. AIM, Quick cast process, Copper polyamide, Rapid Tool, DMILS, Prometal, Sand casting tooling, Laminate tooling soft, Tooling vs. hard tooling.

Software for RP: STL files, Overview of Solid view, magics, imics, magic communication, etc. Internet based software, Collaboration tools.

UNIT-V RAPID MANUFACTURING PROCESS OPTIMIZATION Classes: 14

Factors influencing accuracy, Data preparation error, Part building error, Error in finishing, Influence of build orientation.

Text Books:

- Rapid Prototyping Technology, Kenneth G. Cooper, Marcel Dekker, INC.
- 2. Rapid Manufacturing, Flham D.T & Dinjoy S.S, Verlog London 2001.
- Rapid Prototyping theory & practice, Manufacturing System Engineering Series, Ali K.Kamarani, Springer Verlag.

References:

- 1. Rapid prototyping, Andreas Gebhardt, Hanser Gardener Publications, 2003
- Rapid Prototyping and Engineering applications: A tool box for prototype development, Liou W.Liou, Frank W.Liou, CRC Press, 2007.

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Classes: 14

	DEPARTMEN	TOF	OMP	UTER S	SCIENCE ANI	ENGINEER	ING				
II M.Tech (CSE), II- SEMESTER - 2021-22											
	COUR	SE: H	UMAN	COM	PUTER INTER	RACTION					
Course Code	Category	Hours / Week		Credits		CS					
Course Code	Category	Hot	ns/ w	cek	Credits	CIA	SEE	Total			
21CD05206	PE-III	L	T	P	С	CIA	0.000000	200			
21CD03200	PE-III	4		-	4	40	60	100			
Classes: 60	Tutorial: Nil	Practical Clas			sses: Nil	To	tal Classes: 60				

Objectives:

The course should enable the students to:

- 1. Determine the characteristics of good user interface designs.
- 2. Recognize how a computer system may be modified to include human diversity.
- 3. Develop user interface design tools.
- 4. Investigate the automatic generation of user interface s from high-level specifications.
- 5. Evaluate user interfaces and applications using a variety of methods.

Outcomes:

- 1. Find innovative ways of interacting with computers
- 2. Help the disabled by designing non-traditional ways of interacting
- 3.Use cognitive psychology in the design of devices for interaction

UNIT-I Introduction

10Hrs

Human computer interface: Characteristics of graphics interface, direct manipulation graphical system; web user interface, popularity, characteristic and principles.

UNIT-II Human Computer Interaction

14Hrs

User interface design process: Obstacles, usability, human characteristics in design, human interaction speed, business functions; Requirement analysis, direct ,indirect methods, basic business functions, design standards, system timings; Human consideration in screen design structures of menus, functions of menus, contents of menu, formatting, phrasing the menu, selecting menu choice, navigating menus, graphical menus.

UNIT-III Windows

14Hrs

Characteristics: Components, presentation styles, types, managements, organizations, operations,

Web systems: Device based controls characteristics, screen based controls, operate control, text boxes, selection control, combination control, custom control, presentation control.

UNIT-IV Multimedia

12Hrs

Text for web pages: Effective feedback, guidance and assistance, internationalization, accessibility; Icons, image, multimedia, coloring.

F://CREC-Autopomous/Syllabus/R20/PG/M.Tech/CSE M.TECH (R21) COURSE STRUCTURE.doc



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF MECHANICAL ENGINEERING

DESIGN THINKING

I B. Tech - I	Carlotte Control of the Control of t	Ho	urs/w	door	Credits	1	Anvinous	n Marks
Salar versiones	The state of the s	L	T	P	Credits	CIA	SEE	TOTAL
19CA53303	Foundation	3			3	30	70	101AL
Contact Classes:	act Tutorial Classes: Nil Practical Classes: Nil					Total Classes:51		
UNIT-I	INTRODUCTIO	N TO	DESI	GN TH	INKING			Classes:09
Innovation, F	to Design thinki rame work of des Design Briefing:	ign thin	king,	Non lin	ear process, p	rinciples a	and mind	lset.
UNIT-II	CUSTOMER EX	PERH	ENCE	MAP	PING			Classes:11
Experience m	perience Mappin ap as spring boar	d to inn	ovativ	ve soluti	ions.		ence ma	pping process
UNIT-III I	BRIDGE RESEA	RCH	AND	CONC	EPT DESIGN	V		Classes:10
	ch and concept de user, The Visual							
UNIT-IV	CREATIVITY	IN IDE	A GI	ENERA	TION			Classes:10
base, Design Evidence of the The role of of Troubleshooti	tivity in idea gen heuristics for ide ne value of design design in early st ng common mista	a gener heurist tage ve akes.	ation, tics to ntures	Using ols. s: An e	Design heuris	stics to ge	nerate d	esign concepts
UNIT-V	CORPORATE							Classes:11
culture, Corp	Corporate culture orate forces that on thinking, Four	unden	mine	the de	sign thinking	Four pi	llars of	innovation fo
Text Books: 1. Philip Kosk Introduction to 2. David Ralz 3. An AVA B	y, Robert T. Balm Engineering and man, "History of ook, "Design Thi	ner, Wi l Design Modern	lliam n", 4tl Desi	D. Kear h edition gn", 2n	t, George Wis n, Elsevier, 20 d edition, Lau	e, "Explor	ing Eng	ineering: An
Reference Bo 1. G. Pahl, W. edition, Spring	Beitz, J. Feldhuse	en, KH		, "Engir	neering Design	n: A Syste	matic A	pproach", 3rd



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2. Tom Kelley, Jonathan Littman, "Ten Faces in Innovation", Currency Books, 2006.

CAM LABORATORY

Course Code	Category	Hou	ırs / V	Veek	Credits	Maximus Marks		GREEN .		
120101713		Comme	Const	L	T	P	C	CIA	SEE	Total
17CA03713	Core		-	4	2	30	70	100		
Contact Classes: Nil	Tutorial Classes: Nil	Pr	actica	ıl Clas	ses: 68	Tota	l Classe	s: 68		

List of Experiments
Introduction to CNC Machines and G-Code, M-Codes
CNC part programming for operations like turning, step turning, taper turning.

Trucker, w	CNC part programming for unreading canned c
Expt. 4	CNC program for plane milling operation.

ogram for plane	e drilling o	peration.
	ogram for plan	ogram for plane drilling o

77	Programme Promise											
Expt. 6	Generation models.	of	CNC	part	programming	with	CAM	packages	for	a	given	3D

Expt. 7	Development of APT programming for 2D objects
---------	---

Expt. 8	Programming for	Robot pick and	place and continuous	path.
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Text Books:

Expt. 1

Expt. 2

Expt. 3

- Mikell P. Groover, Emory W. Zimmers , CAD/CAM, 5/e, Pearson Prentice Hall of India, Delhi, 2008
- P. Radhakrishnan, S. Subramanyan & V. Raju, CAD/CAM/CIM, 3/e, New Age International Publishers, 2008

Course Outcomes

At the end of this laboratory the student will be able to:

- Illustrate Manual Part programs using G and M codes and simulate those using CNC lathe and milling programs. (L4)
- Perform machining on CNC machines and fabricate simple machine components on Lathe, Drilling and Milling Machines. (L3)
- 3. Develop part programming for robots. (L4)



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	DESIGN THINKIN	G & I	ROD	UCT IN	NOVATION			
II B. Tech I Semester: C	SE							
Course code	Category	Hours/week		Credits	Maximum Marks			
100 4 52201	Equadation	L	T	P	C	CIA	SEE	TOTAL
19CA53301	Foundation	3	1		3	40	60	100
Contact Classes:45	Tutorial Classes :15	Practical Clas			ses: NIL Total Classes:60			ses:60

Objectives:

The course should enable the students to:

- · To introduce the basics of design thinking.
- To familiarize product design process.
 - · To bring awareness on idea generation.
 - To familiarize the role of design thinking in services design.

Unit-I	INTRODUCTION	Classes:10		
	to design, characteristics of successful product development, product n of opportunities, product planning, Innovation in product development.	development	process,	

Design thinking: Introduction, Principles, the process, Innovation in design thinking, benefits of Design thinking, design thinking and innovation, case studies.

Unit-III IDEA GENERATION Classes:13

Idea generation: Introduction, techniques, Conventional methods, Intuitive methods, Brainstorming, Gallery method, Delphi method, Synaptic, etc. Select ideas from ideation methods, case studies.

Unit-IV METRICS Classes:12

Introduction, size metrics, data structure metrics, information flow metrics, entropy-based measures, metric analysis. Software reliability& Hardware reliability, failures& faults, reliability concepts, reliability models.

Unit-V DESIGN THINKING FOR SERVICE DESIGN Classes:12 Design thinking for service design: How to design a service, Principles of service design, Benefits of service design, Service blueprint, Design strategy, organization, principles for information design, principles of technology for service design.

Text Books:

1. ChristophMeinel and Larry Leifer, "Design Thinking", Springer, 2011

Reference Books:

- 1. AdersRiiseMaehlum, "Extending the TILES Toolkit" from Ideation to Prototyping
- http://www.algarytm.com/it-executives-guide-to-design-thinking:e-book.
- 3. Marc stickdorn and Jacob Schneider, "This is Service Design Thinking", Wiely, 2011.
- 4. and Vietz, "Engineering Design", Springer, 2007.

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DESIGN THINKING LABORATORY & PRODUCT INNOVATION LABORATORY

Course Code	Category	Hours/Week Cre			Credits	Maximum Marks		
19CA53302	W	L	T	P	С	CIA	SEE	Total
	Foundation		2			30 70 100		100
Contact Classes:Nill	Tutorial Classes:Nill	Practical Classes: 42		42	Total Classes:42			

COURSE OBJECTIVES:

- Build mindsets & foundations essential for designers
- Learn about the Human-Centered Design methodology and understand their real-world applications
- Use Design Thinking for problem solving methodology for investigating illdefined problems.
- Undergo several design challenges and work towards the final design challenge

Apply Design Thinking on the following Streams to

- Project Stream 1: Electronics, Robotics, IOT and Sensors
- Project Stream 2: Computer Science and IT Applications
- Project Stream 3: Mechanical and Electrical tools
- Project Stream4: Eco-friendly solutions for waste management, infrastructure, safety, alternative energy sources, Agriculture, Environmental science and other fields of engineering.

TASKS TO BE DONE:

Task 1 : Everyone is a Designer

Understand class objectives & harness the designer mindset

Task 2: The Wallet/Bag Challenge and Podcast

- Gain a quick introduction to the design thinking methodology
- Go through all stages of the methodology through a simple design challenge
- Podcast: Observe, Listen and Engage with the surrounding environment and identify a design challenge.

Task 3: Teams & Problems

- · Start Design Challenge and learn about teams & problems through this
- Foster team collaboration, find inspiration from the environment and learn how to identify problems

Task 4: Empath 2

Continue De Challenge and learn empathy

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- Learn techniques on how to empathize with users
- . Go to the field and interview people in their environments
- Submit Activity Card

Task 5: Ideating

- · Continue Design Challenge and learn how to brainstorm effectively
- Encourage exploration and foster spaces for brainstorming
- Submit Activity Card

Task 6: Prototyping

- · Continue Design Challenge and learn how to create effective prototypes
- Build tangible models and use them as communication tools
- Start giving constructive feedback to classmates and teammates
- · Submit Activity Card

Task 7: Testing

- Finish Design Challenge and iterate prototypes and ideas through user feedback
- · Evolve ideas and prototypes through user feedback and constructive criticism
- Get peer feedback on individual and group performance
- · Submit Activity Card

Task 8:

Final Report Submission and Presentation

REFERENCES:

- Tom Kelly, The Art of Innovation: Lessons in Creativity From IDEO, America's Leading Design Firm (Profile Books, 2002)
- Tim Brown, Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation (HarperBusiness, 2009)
- Jeanne Liedtka, Randy Salzman, and Daisy Azer, Design Thinking for the Greater Good: Innovation in the Social Sector (Columbia Business School Publishing, 2017)



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COMMUNICATIVE ENGLISH II

II B.Tech II Semester: Common to all branches Course code Category Hours/week Credits Maximum Marks TOTAL 19CA52401 T CIA SEE Foundation L C 100 2 30 70 Total Classes:46 Tutorial Classes: Nil Practical Classes: Nil Contact Classes:46

OBJECTIVES:

The course should enable the students to:

- Help improve speaking skills through participation in activities
- II. Impart effective strategies for good writing and demonstrate the same in summarizing, writing well useful information
- III. Provide knowledge of presentations structures and vocabulary and encourage their appropriate use in speech and writing

UNIT-I Classes:10

- 1. Features of Communication and Forms of Communication
- 2. Non-Verbal Communication and Types of Non-verbal Communication
- 3. Barriers to Communication and Remedies

Learning Outcomes

At the end of the module, the learners will be able to

- > Become effective technical communicators.
- Sensitive use of non-verbal language suitable to different situations in professional life.
- Understand how to overcome the barriers in Communication process.

UNIT-II Classes:10

- 4. Self Introduction-about you
- English for Etiquette- Greetings-Introducing a person-Congratulating-Complimenting-
- 6. English for Etiquette Requesting-Accepting/Declining an invitation-Expressing Gratitude.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- Ask and answer general questions on familiar topics and introduce oneself/others
- > Form sentences using proper grammatical structures and correct word forms

UNIT-III Classes:10

- 7. Effective usage of Modal Auxiliaries in framing Coversations.
- 8. Dialogue building-Formal conversation-Semi formal-Informal Conversation.
- Asking/Giving directions-Asking some for directions-Giving directions

Learning Outcomes

At the end of the module, the learners will be able to

- comprehend short talks on general topics
- participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- > understand the use of cohesive devices for better conversation

UNIT-IV Classes:08

- 10. Writing Stories from outline-Developing the hints-How to write stories from the outline given.
- 11. Less writing-Informal letter-Formal letter (Business and order)-Official letter.
- 12. Arract Writing-Book Review-Film Review

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Learning Outcomes

At the end of the module, the learners will be able to

- infer meanings of unfamiliar words using contextual clues
- write summaries based on global comprehension of reading/listening texts
- Use appropriate format for writing memos and produce a coherent paragraph for notice

use language appropriate for description elements

UNIT-V

Classes:08

- Designing a Resume-Guidelines for a better presentations-Purpose of the Resume-Designing and formatting your Resume with covering letter- Difference between CV & Resume
- 14. Welcome Speech and Vote of Thanks-Charesteristics of Welcome Speech-Some common welcome quotes-How to write Vote of thanks-The order of speech for vote of thanks.
- 15. Report Writing- Types of Reports-Project Report

Learning Outcomes

At the end of the module, the learners will be able to

- make formal oral presentations using effective strategies
- write his/her winning Resume
- produce a well-organized speech

Text Books:

- Advanced Skills for Communication in English: Book I by V.JEYA SANTHI Dr.R.SELVAM M.A., M.Phil., Ph.D. - December 2015 with 200 Reads, Publisher: 978-81-2343-101-7, Publisher: New Century Book House
- 2. Effective Technical Communication, M Ashraf Rizvi, Tata Mc.Graw-Hill Pub,company Ltd

Reference Books:

- Business Etiquette: A Guide For The Indian Professional (English, Paperback, Shital Kakkar Mehra) Publisher: HarperCollins Publishers India Genre: Business & Economics ISBN: 9789350291085, 9350291088
- Resume: The Secrets to Writing a Resume that is guaranteed to Get You the Job (Resume Writing, CV, Interview, Career Planning, Cover Letter, Negotiating Book 1) Kindle Edition Publisher: Lifestyle Initiative, Inc. (23 June 2016)
- How to Write and Give a Speech: A Practical Guide for Anyone Who Has to Make Every Word Count 3rd Edition, Kindle Edition Publisher: St. Martin's Griffin; 3 edition (4 March 2014)

Web References:

Speaking

https://www.talkenglish.com/

BBC Learning English - Pronunciation tips

Merriam-Webster - Perfect pronunciation Exercises

All Skills

https://www.englishclub.com/

http://www.world-english.org/

http://learnenglish.britishcouncil.org/

Outcomes:

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

- Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English
- Become effective technical communicators.

Analyze discourse markers to speak clearly on a specific topic in informal discussions.
 And reate a coherent paragraph writing

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COMMUNICATIVE ENGLISH II LABORATORY II B. Tech - II Semester : Common for all branches Hours/week Course code Category Credits Maximum Marks 19CA52402 Foundation L C CIA SEE TOTAL 3 30 70 100 Tutorial Classes: Nil. Practical Classes:45 Total Classes:45 Contact Classes: Nil

OBJECTIVES:

The course should enable the students to:

- 1. The course allows the students to use multi-media instruction for language development
- To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen the English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and Professional contexts.
- Further, they would be required to communicate their ideas relevantly and coherently in writing and placing MNCs.

placing MNC	S.	
UNIT-I	COMMUNICATIVE COMPETENCE	Classes:09
 Syllables Stress & Inton Listening Com 	ations uprehension, Listening to the News and Understand	
UNIT-II	WRITING SKILLS	Classes:09
Precise Writing Resume Prepar E-mail Writing	ration	
UNIT-III	PRESENTATION SKILLS	Classes:12
 Oral presentati Power point pr Poster presenta 	resentation	117
UNIT-IV	GETTING READY FOR JOB	Classes:09
 SWOT Analy Group Discus Interview ski 	ssions	
UNIT-V	INTERPERSONAL SKILLS	Classes:06

- 1. Time Management
- Problem Solving & Decision Making
- 3. Etiquettes-Telephonic Etiquettes

Minimum Requirements for SOFT SKILLS Lab:

Soft Skills Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- 1. Spacious room with appropriate acoustics.
- 2. Round Tables with movable chairs
- Audio-visual aids
- 4. LCD Projector
- Public Address system
- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed 2.8 GHZ
- 7. T. V. a digital stereo & Camcorder
- 8. Headphones of High quality



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Suggested Software:

- 1. Walden Info tech: Advanced English Communication Skills Lab
- 2. K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)
- Train2success.com

References:

- 1. Objective English for Competitive Exams, Hari Mohana Prasad, 4th edition, Tata Mc Graw Hill.
- Technical Communication by Meenakshi Raman & Sangeeta Sharma, O U Press 3rdEdn. 2015.
- Essay Writing for Exams, Audrone Raskauskiene, Irena Ragaisience & Ramute Zemaitience, OUP, 2016
- Soft Skills for Everyone, Butterfield Jeff, Cengage Publications, 2011.
- Management Shapers Series by Universities Press (India) Pvt. Ltd., Himayatnagar, Hyderabad 2008.
- Campus to Corporate, Gangadhar Joshi, Sage Publications, 2015
- Communicative English, E Suresh Kumar & P. Sreehari, Orient Black swan, 2009.
- English for Success in Competitive Exams, Philip Sunil Solomon OUP, 2015

Outcomes:

- 1. Accomplishment of sound vocabulary and its proper use contextually
- Flair in Writing and felicity in written expression.
- 3. Enhanced job prospects and Effective Speaking Abilities



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OBJECT ORIENTED PROGRAMMING THROUGH JAVA LABORATORY

II B.Tech(CSE), II Semester

Course Code	Category	Ho	Hours / Week		Credits	Maximum Marks		
100105101	102	L	T	P	C	CIA	SEE	Total
19CA05404	Core	2			1	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Class		ses: 42	Total Classes: 42			

Course Objectives:

The course will enable the students to:

- · Learn to use object orientation to solve problems and use java language to implement them
- To experiment with the syntax and semantics of java language and gain experience with java programming

Week-1 Installation and Practice

1.Preparing and practice — Installation of Java software, study of any Integrated development environment, sample programs on Java. Learn to compile, debug and execute Java programs.

Week-2 Basic Programs

- 1. Write a Java program to solve Quadratic equation.
- 2. Write a Java program to generate Fibonacci series
 - a. Using Iterative procedure
 - b. Using Recursive procedure

Week-3 Matrices, Overloading

- 1. Write a Java program to multiply two Matrices.
- 2. Write a Java program on Method overloading

Week-4 Method Overriding, Constructor overloading

- 1. Write a Java program on Method overriding.
- 2. Write a Java program on Constructor overloading

Week-5 Number and String Palindrome, abstract class

- 1. Write a Java program that checks whether given number is Palindrome or not.
- Write a Java program that checks whether given string is Palindrome or not.
- 3. Write a Java program to create a super class called Figure that receives the dimensions of two dimensional objects. It also defines a method called area that computes the area of an object. The program derives two subclasses from Figure. The first is Rectangle and second is Triangle. Each of the sub classes override area() so that it returns the area of a rectangle and triangle respectively.

Week-6 Sorting Names, Dynamic method dispatch

- 1. Write a Java program to sort a list of names in ascending order.
- 2. Write a Java program that performs Dynamic method dispatch.

Week-7 Inheritance, Interface

- 1. Write Java program(s) on use of inheritance, preventing inheritance using final
- 2. Write Java program(s) on ways of implementing interface

Week-8 Exception Handling

- 1. Write Java Program(s) which uses the exception handling features of the language, creates exceptions and handles them properly.
 - a). Uses the predefined exceptions.

b). Create own exceptions.

Week-9 Creating threads, Command Line Arguments

1. Write a Java Program on creating multiple threads

a) Using extending thread class.

Sing implementing runnable interface

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2. Write a Java Program that demonstrate Command Line Arguments Week-10 Applets 1. Write a Java Program to develop an Applet that demonstrate a simple message. 2. Write a Java Program to pass parameters to an Applet Week-11 Multithreading 1. Develop an applet for waving a Flag using Applets and Threads. 2. Write a Java program that creates three threads. First thread displays "Good Morning" every one second, the second thread displays "Hello" every two seconds and the third thread displays "Welcome" every three seconds. Week-12 Files, Keyboard Events 1. Write a Java program to find and replace pattern in a given file. 2. Write a Java program to handle keyboard events. AWT Controls, Layout Managers Week-13 1. Write a Java Program to create the following a). AWT Button b). AWT checkbox e). Scrollbar 2. Write Java Programs to demonstrate Layout Managers

Week-14

Caluculator

Design a simple calculator which performs all arithmetic operations. The interface should look like the calculator application of the operating system. Handle the exceptions if any

Reference Books:

- 1P. J. Deitel, H. M. Deitel, "Java for Programmers", Pearson Education, PHI, 4th Edition, 2007.
- 2.P. Radha Krishna, "Object Oriented Programming through Java" Universities Press, 2nd Edition, 2007
- 3 Bruce Eckel, "Thinking in Java", Pearson Education, 4th Edition, 2006.
- 4 Sachin Malhotra, Saurabh Chaudhary, "Programming in Java", Oxford University Press, 5th Edition.

Web References:

- 1.www.niecdelhi.ac.in
- 2.https://www.linkedin.com/in/achin-jain-85061412
- 3.www.ranklinfotech.com

Course Outcomes:

- Ability to use an IDE to develop, run and test Java Programs
- · Ability to solve the problems using object oriented approach and develop solutions which are robust
- · Ability to develop portable programs which work in all environments



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ADVANCED PYTHON PROGRAMMING LABORATORY

VI- Semester: CSE

Course Code	Category		lour Wee	200	Credits	М	aximum	Marks
	1987/2007	L	T	P	C	CIA	SEE	Total
17CA05612	Core	-	-	3	2	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Pra	ctica	l Cla	sses: 45	Total (Classes:	45

Objectives:

The course should enable the students to:

- · To write, test, and debug simple Python programs.
- · To implement Python programs with conditionals and loops.
- · Use functions for structuring Python programs.
- Represent compound data using Python lists, tuples, dictionaries.
- · Read and write data from/to files in Python.
- · Use GUI programming, To implement Python programs with package.

LIST OF EXPERIMENTS

Week-I

BASICS

- · Write a python script to display a simple message
- Write a python script to perform basic arithmetic operations on two values which are accepted from the user.
- · Exponentiation (power of a number)
- · Find the maximum of a list of numbers

Week-2

CONTROL FLOW

- · Write a python script to calculate the factorial of a given number.
- · Write a python script to calculate sum of individual digits of a given number.
- · Write a python script to display the prime number series up to the given N Value.

Week-3

CONTROL FLOW

- Write a python script to find the largest number among three numbers and display them in ascending order using if-else construct.
- Write a python script to display Fibonacci sequence of numbers using while loop, for loop and dowhile loop constructs.

Week-4

FUNCTIONS

- Write a python script to find GCD of two numbers using recursive and non recursive Functions.
- Write a python script to convert the following using functions: (i) Fahrenheit to Celsius Temperature. (ii) Celsius to Fahrenheit temperature.

Week-5

STRINGS

Write a python script to demonstrate string methods.

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- · Write a python Program for Creation of String.
- Write a Python Program to Update entire String.

Week -6

LIST

- Write a python script to create a list and add n number of user-defined values to the list and display the same on to the console screen.
- Write a python script to perform the following operations on Lists: (i) Matrix Addition. (ii)
 Matrix Multiplication.

Week -7

LIST

- Write a python script to search a key element in the given list of elements.
- Write a python script to arrange the given list of elements in ascending or descending order.
- Find the maximum of a list of numbers.

Week-8

TUPLE AND DICTINARIES

- Write a Python program to convert a list of tuples into a dictionary.
- Write a Python script to concatenate following dictionaries to create a new one.

Week -9

FILE

Write a python script to remove all the occurrences of a given character from a text file, copy the resultant text into another text file. Find the total occurrences of the eliminated characters and display the count along with the contents of the text file on to the console.

Week-10

FILES

- Write a Python program to read a file line by line store it into a variable.
- Write a Python program to copy the contents of a file to another file.

Week-11

OBJECT ORIENTED PROGRAMMING AND GUI PROGRAMMING

- Write a GUI Script for creating text label in a window.
- Write a Python Script to create a command button. When the button is clicked the event should be handled and the message on the window should change from "Hello" to "Good Bye".

Week -12

OBJECT ORIENTED PROGRAMMING AND GUI PROGRAMMING

- Write a Python class to convert an integer to a roman numeral.
- Write a Python class to reverse a string word by word.

Week-13

OBJECT ORIENTED PROGRAMMING AND GUI PROGRAMMING

- Write a python script to demonstrate the Exception Handling.
- · Write a Python script to demonstrate the Mouse and Key Event handling.
- Write a python script to demonstrate menu driven applications.

Week-14

TKINTER PACKAGE.

By forming a group of 3 to 4 members develop a mini project for Horse Race Simulation with the help of GUI programming and tkinter package.



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SOFT SKILLS LAB

V - Semester: CSE

Course Code	Category	Ho	urs / V	Veek	Credits	Maximum M		Marks
S processor	122	L	T	P	C	CIA	SEE	Total
17CA52501	Elective		-	4	2	30	SEE 70	100
Contact Classes: Nil	Tutorial Classes: Nil	1	Practic	al Cla	sses: 42	Tot	tal Class	ses: 42

Objectives:

The course should enable the students to:

- The course allows the students to use multi-media instruction for language development
- To improve the students' fluency in English, through a well-developed vocabulary and enable to listen the English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional contexts.
- Further, they would be required to communicate their ideas relevantly and coherently in writing.

To prepare all the students for their placements.

UNIT-I

COMMUNICATIVE COMPETENCE

Classes: 09

- 1. Reading Comprehension
- 2. Listening Comprehension
- 3. Vocabulary Development

UNIT-II

WRITING SKILLS

Classes: 09

- 1. Report Writing
- 2. Resume Preparation
- 3. E-mail Writing

UNIT-III

PRESENTATION SKILLS

Classes: 12

- 1. Oral presentation
- 2. Power point presentation
- 3. Informative presentation

UNIT-IV

OPTIMIZATION AND GENERALIZATION

Classes: 09

- SWOT/C Analysis
- Group Discussions
- Interview skills

UNIT-V

INTERPERSONAL SKILLS

Classes: 06

- 1. Time Management
- 2. Problem Solving & Decision Making



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MOBILE APPLICATION DEVELOPMENT LABORATORY

VII Semester: CSE (Non-FSI) / VIII Semester: CSE (FSI)

Course Code	Category	Hours / Week		Credits	Maximum Marks			
17CA05714	Comm	L T P	P	C	CIA	SEE	Total	
1/CA05/14	Core	2	1747	4	2	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Pract	ical Cl	asses:	42	Total C	lasses:42	6.607

Objectives:

- To understand fundamentals of android operating systems.
- Illustrate the various components, layouts and views in creating android applications
- To understand fundamentals of android programming.

WEEK I

Create "Hello World" Application

- 1.1 Create a new Android Project
- 1.2 Run "Hello World" on the Emulator
- 1.3 On a Physical Device
- 1.4 Greeting the User

WEEK 2

2. Create Application by Using Widgets

Creating the Application by using the Activity class

- (i) onCreate()
- (ii) onStart()
- (iii) onResume()
- (iv) onPause()
- (v) onStop()
- (vi) onDestroy()
- (vii) onRestart()

WEEK 3

3. Creating the Application by using Text Edit control.

WEEK 4

- 4. Creating the Application Choosing Options
- (i) CheckBox
- (ii) RadioButton

WEEK 5

5. Creating the Application Choosing Options

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(i)	Rad	ioG	rou	p

(ii) Spinner

WEEK 6

6. Create Application by Using Building Blocks for Android Application Design

Design the Application by using

- (i) Linear Layout
- (ii) Relative Layout

WEEK 7

7. Create Application by Using Building Blocks for Android Application Design in Absolute Layout

WEEK 8

8. Design the Application for Menus and Action Bar

WEEK 9

9. Design the application to display the Drop-Down List Action Bar.

Text Books:

Android Programming by B.M Harwani, Pearson Education, 2013.



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Managerial Economics

		I MBA 1 Semester						
Course Code	Category	Hours/Week			Credits	Maximum Marks		
20CE00102	Foundation	L	T	P	C	Internal	External	Total
		4	-	-	.4	40	60	100
Contact classes:50	Tutorial Classes:15	Practical classes: Nil				Total classe	es:65	

se Ob iect ive:

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The objective of this course is to understand the relevance of economics in business concepts. This will enable the students to study various concepts related to functional areas of Demand of the products and services, Production, Market structures, Pricing and Costing, National Income and inter sectoral changes from a broader perspective.

COURSE OUTCOMES: The student is able to

CO1: Examine the basic concepts and principles of Managerial Economics and its relationship with other subjects.(K4)

CO2: Apply the concepts of production and demand concepts in Business Situations (K3)

CO3: Apply the concepts of pricing in business situations and Examine concepts of business structures (K3)

CO4: Analyse the concepts of Economic decision making ,Risk and uncertainties and apply in business (K4)

CO5: Examine the basic concepts of National Income, Money and capital markets Fiscal and monetary policies. Evaluate Economic Indicators and inter sectoral linkages (K5)

Unit-I Foundation of Managerial Economics & Basic Concepts Classes: 10

Introduction to Managerial Economics:

Nature and Scope of Managerial Economics, Meaning, characteristics, scope and subject matter relationship with other disciplines, decision making and forward planning, Fundamental principles of managerial economics: - Opportunity cost principle-incremental principal, principle of time perspective, discounting principle and equi-marginal principle.

Unit – II	Production and Demand Analysis	Classes: 10
Introduction	to Production - Production function - Cobb-Douglas Produ	uction function - Law of variable
proportions	- Marginal Rate of Technical Substitution - Iso - quants -	types of Iso-quants - Returns
scale and p	turns to variable - Iso-costs - Economies of scale. D	Demand Analysis: Meaning and
definition so	demand, determinants of demand, law of demand, ex	ception to the law of demand
elasticity of	demand Demand Forecasting, Meaning and definitions-	methods of demand forecasting
criteria Enc	od forecasting methods.	
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Unit - IN

Pricing and Market structures

Classes: 10 ne Lupinessing College TIRUPATI

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Introduction to Pricing - objectives of pricing - Multiple product pricing - Pricing of new products - skimming and penetration - Pricing methods - Market structures - Monopoly - Duopoly - Oligopoly (Paul Sweezy kinked demand curve) - Perfect competition - Monopolistic competition - Price discrimination - Introduction to game theory.Revenue - meaning - total revenue, average revenue and marginal revenue - Break even analysis- break even chart.

Unit - IV Economic Decision Making

Classes: 10

Principles of Economic decision-making - Concept of Required Rate of Return - Annual cost and Annual-worth Comparisons - Present-worth analysis - The Cost of Capital, Economic Life, Replacement Economy - Analysis of risk and uncertainty.

Unit - V National Income and Inter Sectoral Linkages

Classes: 10

Introduction to National Income Accounts – Models of National Income Determination – Economic Indicators; Technology and Employment – Issues and Challenges; Business and Government. Inter-Sectoral Linkages: Macro Aggregates and Policy Interrelationships – Fiscal and Monetary Policies; Industrial Finance – Money Market, Capital market and Institutional Finance.

Reference:

- 1. Samuel Paul, Mote and Gupta: Managerial Economics
- 2. Paul Samuelson, Economics.
- 3. Craig Petersen & Cris Lewis: Managerial Economics
- 4. P.L.Mehta., Managerial Economics, Sultan chand
- 5. Paul G Keat, Phili KY Young., Managerial economics, Pearson,
- 6. H.Craig Peterson, W.Cris Lewis, Managerial economics, Pearson.
- Dominic Salvatore, Oxford.
- 8. Koutsoyiannis, Modern Micro Economics.
- 9. Gupta G.S., MANAGERIAL ECONOMICS, Tata McGraw-Hill.
- 10. Varshney and Maheshwari, MANAGERIAL ECONOMICS, Sultan and Chand
- 11.Peterson, HC and W.C.Lewis, MANAGERIAL ECONOMICS, PHI, New Delhi.
- 12.Riggs, J.L. MANAGERIAL ECONOMICS, McGraw-Hill.
- 13.Stiglitz J., PRINCIPLES OF MICROECONOMICS, Norton Publishers 2nd Edition, 1998. 14.Joel Dean, Managerial Economics.

Mode of Evaluation: Assignments, Seminars, Written Examinations

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BUSINESS COMMUNICATION

	I MBA I Semester										
Course code	Category	Н	ours / Wee	k	Credits	Ma	ximum Ma	rks			
200000105		L T P		C	Internal	External	Total				
20CE00105		4		53	4	40	60	100			
Contact Classes: 50	Tutorial Classes: 15	Practical Classes - 1			Vil	Tot	al Classes -	65			

COURSE OBJECTIVES:

To understand and demonstrate writing and speaking processes through invention, organization, drafting, revision, editing, and presentation. To understand the importance of specifying audience and purpose and to select appropriate communication choices. To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in written, visual, and oral communication.

COURSE OUTCOMES:

CO1: To build tertiary level grammatical usage in language[K3]

CO2: To apply LSRW skills in a professional context[K3]

CO3:To acquaint students with evolving trends in professional communication. [K6]

CO4: To excel the students in documentation.[K2]

CO5: To develop the conversation skills of the students [K3].

UNIT -I: Fundamentals Of Business Communication:

Formal and Informal Communication Listening to Conversations – Interviews - Introducing a Product or Service - Small Talk - SWOT Analysis - Telling a story effectively - Reading Reports - Comprehending passages in Business and Economy-related Newspapers – Basics of Business - Correspondence - Formal Letters - Letters calling Quotations - Follow Up and Complaints Letters.

UNIT - II Presentation and Group Discussion Skills:

LISTENING -SPEAKING: Seminars, Conferences - Preparing PowerPoint's - READING: Profiles of Companies - Interpreting Data - Case Studies - WRITING: Reports - Survey -

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UNIT - III: Documenting Skills:

Press Meets SPEAKING: Group Discussion, Dynamics of a Group Culture, - READING: Critical Thinking - Problem Definition and Solving - WRITING: Company Profiles - Minutes of Meetings - Case Studies - Job Application - Email - Cover letter Formats.

UNIT- IV: Non-Verbal Communication:

Grooming, Body Language - Tone and Pitch - Intercultural and Cross - Cultural Communication - SPEAKING: Presentations - READING: Meeting and their procedures - WRITING - Project Proposals, Mini Projects, Seeking Funding - Tenders - Circulars.

UNIT-V: Telephone and Email Etiquette:

Listening to and executing formal telephone conversations - conversational tactics - seeking information LISTENING - Sales Meeting - Panel Discussion - Accents - SPEAKING: Negotiation Skills, Life Skills - Elevator Pitch - Leadership Behavior - READING - WRITING - Requisition Letters - for Reference and Recommendation - Statements of Purposes - Persuasive language Emails - Portfolios.

REFERENCES:

- 1. Business Communication. Harvard Business Essentials Series, HBS
- 2. Excellence in Business communications, John V. Thill and Courtland L. Bovee, Pearson, 2015.
- 3. Business Communication, Menakshi Raman, Prakash Singh, Oxford University Press



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Business Communication Lab-I

		I MBA I Semester :						
Course Code	Category	Hours/Week			Credits	Maximum Marks		
20CE00108	Foundation	L	T	P	C	Internal	External	Total
		4	-	-	4	40	60	100
Contact classes:50	Tutorial Classes:10	Practical classes: Nil				Total cla	sses:55	

Objectives:

The introduction of Business Communication Lab is considered as essential in the I year I semester level. At this stage the students have to develop themselves for their career so that they have to practice listening, speaking, Reading and writing skills in English for interpersonal communication and for their Profession in this globalised era.

Course Outcomes:

CO1: To extract the need and importance of effective communication skills in the social and work related situations. (K4)

CO2:To use phonetics in different business/work related situations. (K3)

CO3:To elevate listening skills and effective communication skills. (K2)

CO4: Thorough application of speaking skills and capable of organising various events. (K3)

CO5:Develop writing and reading skills and equipping managerial skills. (K6)

Unit – I	Understanding the need of Communication Skills Classes: 15
Understanding	the need of Communication Skillsfor Managers , importance of effective
communication	through different social/work related situations, Enact role play of verbal and
Nonverbal com	munication, Identifying the communication barriers in theorganization through case
studies, identify	effective use of body language, paralanguage and spatial communication

Unit - II Phonetics Classes: 10

Phonetics- Introduction to sounds of speech, vowels and consonants, phonetic transcription, orthographic transcription, syllabification, word stress, Innovation, Accent,Rhythm, Oral Skills, Structional Dialogues, Role Plays.

Unit - III \ Listening exercises

okes, riddles etc.

Classes: 10

Listening with a focus on pronunciation (ear training): segmental-sounds, stress, eak forms,

conation - istening for meaning (oral comprehension) listening to talks, lectures, conversations,

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Unit - IV

Speaking Skills

Classes: 10

Speaking about the future plans, expressing opinions, Telephone conversations, PPT Presentations, Poster Presentations, Public Speaking, Welcome Address (Inviting Dignitaries to department workshops, symposiums and university functions proposing vote of thanks), Interview Skills and Mock Interviews.

Unit - V Writing and Reading exercises

Classes: 10

Reading and comprehension of the texts supported by suitable exercises Use of Dictionary, Note making after reading a text, showing the main idea and supporting ideas and the relationships between them -Practice in writing paragraphs, short essays and summaries. Skills Training:- Non-Verbal communication, Decision Making, Goal Setting, Etiquettes and grooming, Stress Management, Time Management, Problem Solving Skills.

Reference Books:

- □Basic Business Communication Skills for empowering the internet generation, LesikarFlately, Tata
 McGraw Hill.
- 2. Business Communication for Managers, Penrose, Rasberry and Myers, Cengage.
- 3. □ A Text Book of English Phonetics for Indian Students by, T. Balasubramanian, McMillan.

Mode of Evaluation: Assignments, Seminars, Written Examinations.

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INFORMATION TECHNOLOGY LAB - I

	Category	1 MBA 1 Semester :							
Course Code		Hours/Week			Credits	Maximum Marks			
20CE00109		L	T	P	C	Internal	External	Total	
		-	-	4	2	40	60	100	
Contact classes: 31	Tutorial Classes: 0	Practical classes: Nil			Total clas	ses: 31			

Course Objectives:

The Objective of the course is to provide basic understanding of applications of information technology and hands on experience to students in using computers for data organization and addressing business needs.

Course Outcomes:

CO1: To Understand the evolution of computer (K2)

CO2: To Develop different business IT related documents(K3)

CO3: To Analysis various data for decision Making in Business (k4)

CO4: To Present the information by using different tools in Information technology to the students(K2)

CO5: To analyse and interpret data to support decision making(K6)

UNIT-I	STUDY OF	EVOLUTION OF	Classes	: 10			
Generations -	Assembling	& Dissembling o	f Computer	Components,	Computer	Networks	-
		Management _Inter					

UNIT - II	MS Word	Classes: 10
Creating, sav	ng editing and printing of documents -Find an	d replace options - Formatting with tab
	tures- Mail Merge - Spell check and grammar	

UNIT - III MS Excel Classes: 6

Creating, naming and saving worksheets Data entry-Manual and automatic - Formatting cells and cell referencing - Working with graphs and charts - Creating and using formulas and functions -Previewing and printing worksheets. Data management tools Statistical Applications -Measures of central tendency.

UNIT

r Point

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Presenting features, creating, saving a presentation using different methods editing, using different designs, layouts, color schemes, formatting, custom animating and displaying the presentation.

UNIT - V	MS Access & Data Interpretation	Classes: 6
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MS-Access: Create Databases, Tables & Relationships – Create forms to enter Data – Filter Data- Use of queries in data manipulation – Generating Reports.

Data Interpretation: Insert tables- Data Analysis using tables - Pie Charts - Caselets - Bars - Line Graphs - Data Sufficiency

Reference Books:

- Peter Norton, Introduction to Computers and Communications, -Sixth Edition-Tata McGraw Hill, 2009
- V.Rajaraman, Introduction to Information Technology, Prentice Hall India, 2008
- 3. Cox et al, 2007 Microsoft Office System Step-by- Step, First Edition, PHI, 2007.
- 4. Winston, Microsoft Office Excel 2007 Data Analysis and Business Modeling, First
- Edition, Prentice Hall India, 2007.
- 6. Lambet, Lambert III & Prepernau, Microsoft Office Access 2007 Step-by-Step, First
- 7. Edition, Prentice Hall India, 2007.
- 8. David Whigam, Business Data Analysis Using Excel, First Edition, Oxford University
- 9. Quantitative Aptitude, Agarwal R S, S Chand

10. Data Interpretation & Data Sufficiency, Ananta Ashisha

Mode of Evaluation: Assignments (20%), Seminars (20%), Written Examinations (60%)



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Business Analytics Lab

		I MBA II Semester :						
Course Code	Category	Но	ours/We	eek Credits Maxim		Maximum N	farks	
17CE00208	Foundation	L	T	P	C	Internal	External	Total
17CE00200		4	- 4	-	4	40	60	100
Contact classes:50	Tutorial Classes:15	Practica	Practical classes: nil		Total cla	sses:65		

Course Objectives:

To understand the basic concepts of business analytic. To learn financial, marketing experiments. To learn HRM, systems experiments. To understand the concepts of Information Technology

Course Outcomes:

CO1: To understand the basic concepts of businessanalytics [K2]

CO2: Demonstrating and experimenting financial aspects [K3]

CO3: Examining marketing and sales aspects [k4]

CO4: Demonstrating & creating humanresource administration [K6]

COS: Design Management information systems[k6]

UNIT - I	Introduction	to	Business	Analytics	-	Accounting	Classes: 10
	experiments						L. Mariere C. Mariere

Introduction to Business Analytics – functions – concepts. Creation of company – Preparation of Ledger - Posting Trial Balance – Profit and Loss Account – Balance sheet sole traders - Softwares: Finnacle

UNIT - II Financial Experiments Classes: 10

Capital budgeting decisions – Calculations of NPV – Calculations of IRR – Calculations of Profitable Index – Softwares: Tally 9.0

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UNIT - III Marketing Experiments

Classes: 10

Storing and retrieving of data of customers - Storing and retrieving of data of sales -Storing and retrieving of data of dealers - products and geographical areas (Tables and Graphs) -Softwares:Hub spot - Rejoiner

UNIT - IV HRM Experiments

Classes: 10

Creation of Employees data base - Demonstrating the salary administration - Softwares: Saral Pay Pack - Opfin

UNIT - V Systems Experiments

Classes: 10

Understanding the Information Systems - Design of MIS - Overview of Internet and Internet tools, Softwares: Mac OS - Linux

Reference:

1. Ms Office-SanjaySaxena

2. Ms Office Excel-Frye, PHIpublications

3. Ms Office Access- Step by step, PHIpublications



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BUSINESS COMUNICATION LAB - II

		I MBA II Semester :							
Course Code	Category	Hours/Week		Credits	Maximum Marks				
20CE00209	Foundation	L	T	P	C	Internal	External	Total	
		3	-		4	40	60	100	
Contact classes:50	Tutorial Classes:15	Practical of	lasses: N	il		Total clas	ses:65		

Course Objectives:

Aim is to enable students understand how to write business letters and improve written communication. Course Outcome. At the end of the course, students will be enabled with the following skills.

Course Outcomes:

CO1: Identify key principles in business writing(K3)

CO2: To draft effective business correspondence with clarity(K6)

CO3: Designing and developing written instructions(K6)

CO4:Drafting Report writing (K6)

CO5:Designing resume and career goals(K6)

Printer and the second	The state of the s	
Unit - I	Business Writing	Classes: 9

Introduction, Importance of Written Business Communication, Direct and Indirect Approached to Business Messages, Five Main Stages of Writing

Unit II	Designate Commence design	CIL A
Unit – II	Business Correspondence	Classes: 9

Introduction, Business Letter Writing, Effective Business Correspondence, Common Components of Business Letters, Strategies for Writing the Body of a Letter, Kinds of Business Letters, Writing Effective Memos. Practice Exercises.

Unit – III	Instructions						Classes:	9	
3:Instructions:	Introduction,	Written	Instructions.	General	Warning.	Caution an	d Danger	Format	in

Instructions, Oral Instructions, Audience Analysis, Product Instructions. Practice Exercises.

Unit – IV Business Reports and Proposals Classes: 9

4: Business Reports and Proposals: Introduction, What is a Report, Steps in Writing a Routine Business Report, Parts of a Report, Corporate Reports, Business Proposals.

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Careers and Resumes

Classes: 9

5: Careers and Resumes: Introduction, Career Building, Understanding yourself, setting a career goal, job search / looking at various options, preparing your resume, resume formats, traditional, electronic and video resumes, online recruitment process. Write your resume to market yourself.

Reference books:

- 1. Lesikar: Basic Business Communication, TMH.
- 2. Stephen Bailey, Academic Writing for International Students of Business, Routledge.
- 3. David Irwin: Effective Business Communications, Viva-Thorogood.
- 4. Rajendra Pal, J S KorlahaHi: Essentials of BusinessCommunication: Sultan Chand & Sons,
- 5. SaileshSengupta, Business and Managerial Communications, PHL
- 6. Mode of evaluation: Assignments, Seminars, Mid Examinations.

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ENTREPRENEURSHIP DEVELOPMENT

	II MBA I Ser	nester:			- 0.5			
Course code	Category	Hours / Week			Credits	Ma	Maximum Marks	
20CE00301	Foundation	L	T	P	С	Internal	External	Total
20CE00301	1 Outstation	4	-	12	4	40	60	100
Contact Classes: 50	Tutorial Classes: 15	Practical Classes - Nil				Tot	al Classes -	2000

COURSE OBJECTIVES:

The main **objective** of this **course** is **develop entrepreneurial** abilities by providing background information about support systems, skill sets, financial and risk covering institutions and other for building an enterprise so that future budding **entrepreneurs** can make right decisions for starting and running a venture.

COURSE OUTCOMES:

CO1: To equip and develop the learners entrepreneurial skills and qualities essential to undertake business [k3].

CO2: To build the learner's entrepreneurial competencies needed for managing business efficiently and effectively [k6].

CO3: To analyze the business plan for starting a business [K4].

CO4: To formulate and manage a small business [K6]

CO5: To manage and monitor thesmall business [K5].

UNIT - I: Entrepreneurial Competence:

Entrepreneurship concept – Entrepreneurship as a Career – Entrepreneurial Personality -Characteristics of Successful Entrepreneurs – Knowledge and Skills of an Entrepreneur.

UNIT- II: Entreprenensial Environment:

Business Environment - Role of Family and Society - Entrepreneurship Development: Training and Other Support Organisational Services - Central and State Government Industrial Policies and Regulations.

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UNIT- III Business Plan Preparation:

Sources of Product for Business - Prefeasibility Study - Criteria for Selection of Product -Ownership - Capital Budgeting- Project Profile Preparation - Matching Entrepreneur with the Project - Feasibility Report Preparation and Evaluation Criteria.

UNIT- IV: Launching of Small Business:

Finance and Human Resource Mobilisation - Operations Planning - Market and Channel Selection - Growth Strategies - Product Launching -Incubation - Venture capital, Start-ups.

UNIT- V: Management of Small Business:

Monitoring and Evaluation of Business - Business Sickness - Prevention and Rehabilitation of Business Units - Effective Management of small Business - Case Studies.

REFERENCES:

- 1. S.S.Khanka, Entrepreneurial Development, S.Chand and Company Limited, New Delhi, 2016.
- 2. R.D.Hisrich, Entrepreneurship, Tata McGraw Hill, New Delhi, 2018.
- 3. Rajeev Roy, Entrepreneurship, Oxford University Press, 2nd Edition, 2011.

TEXT BOOKS:

- Dr. Vasant Desai, "Small Scale Industries and Entrepreneurship", HPH, 2006.
- Arya Kumar. Entrepreneurship, Pearson, 2012.
- Prasanna Chandra, Projects Planning, Analysis, Selection, Implementation and Reviews, Tata McGraw-Hill, 8 th edition, 2017.



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Employee Engagement and Empowerment

		II MBA I Semester :							
Course Code	Category	Но	urs/We	ek	Credits	N	faximum Ma	arks	
200000001	Foundation	L	T	P	C	Internal	External	Total	
20CE00334		-	0.7		4	40	60	100	
Contact classes:50	Tutorial Classes:15	F	ractical	classes	s: Nil	1	Total classes:	65	

Course Outcomes:

CO1:ToExamine basic concepts of employee engagement and empowerment(K4)

CO2:ToUnderstand Theories of Employee engagement and empowerment (K2)

CO3:ToAnalyze key elements of employee empowerment(K4)

CO4:ToExaminebasic concepts of employee engagement (K4)

CO5:To evaluate Best practices in Employee engagement and empowerment(K6)

Unit - I Introduction to employee engagement and empowerment Classes: 10

Employee Engagement and Empowerment: An overview – Definition, objectives, Scope – Key Players in Engagement and Empowerment-, - HRM and Employee Engagement and Empowerment – Recent trends.

Unit - II	Theorising employee engagement and empowerment	Classes: 10
		The state of the s

Theorising Employee Engagement and Empowerment: Maslow's Need Hierarchy, Herzberg's Two-Factor Theory, Theory 'X' & Theory 'Y', Achievement Motivation Theory, Vroom's Expectancy Theory, ERG Theory, Socio-Technical Theory, Job Characteristics Theory, LMX Theory, Theory Z, and Social Cognitive Theory – Recent trends.

Their TIT	Variation of Paris	671 10
Unit - III	Key elements of Employee empowerment	Classes: 10

Employee Empowerment: Key elements: Power, Information, Reward and Knowledge (PIRK) –
Process of Employee Empowerment – Benefits of Employee empowerment - Levels of Employee
Involvement: Employee Involving and Encouraging - Principles of Employee Empowerment- Recent

Trends in Empowerment.

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Unit - IV Elements of Engagement

Classes: 10 Employee Engagement: Meaning - Types of Employee- Components and Engagement - Elements of Engagement-Engagement framework: People, Reward, Company practices, Work, quality of life,

Opportunities- Consequences of engagement - Roll of Top Managers in Employee Engagement -Employee Engagement using Social Media-Recent Trends in Engagement.

Unit - V Best practices - Improvement of performance

Classes: 10

Employee Engagement and Empowerment: Basic Issues and concern- Best Practices - Key Improving Performance - Impact on Organisation Performance- Engagement Strategies - Drivers of Employee Engagement - Recent Trends

Reference:

- 1. C. Argyris, On Organisational Learning, Blackwell.
- 2. Christopher Rice& Fraser Marlow, The Engagement Equation: Leadership Strategies for an Inspired Workforce.
- 3. Cotton, J. L. Employee Involvement: Methods for improving performance and work attitudes. CA: Sage.
- 4. Dale, H. Besterfield, Carol, Besterfield, Glen, H. Besterfield& Mary Besterfield Total Quality Management. London: Prentice Hall.
- DBM Fetterman, Foundation of Empowerment Evaluation, Sage.
- 6. E E Lawler III, The Ultimate Advantage: Creating High Involvement Organisation, Jossey Boss.
- Gary Yukl Leadership in Organisations. Singapore: Pearson.
- 8. Gerald, R. Ferris & Ronald, M. Buckley Human Resource Management: Perspective, context, functions & outcomes, Prentice Hall Inc.
- 9. Ian Beardwell & Len Holden (Eds). Human resource Management: A contemporary perspective. UK: Pitman Publishing.
- 10. J B Mondros and S M Wilson, Organising for Power and Empowerment, Columbia University Press.
- Jim Haudan, The Art of Engagement: Bridging the Gap Between People and Possibilities.
- John Storey (ED.) Human Resource Management. USA: Routledge.
- 13. Kevin Kruse, Employee Engagement for Everyone: 4 Keys to Happiness and Fulfillment at Work.
- Lawler, E. E. III High Involvement Management, San Francisco: Jossey-Bass.
- 15. Lawler, E. E. III Ultimate Advantage: Creating the High-Involvement Organisations. San Francisco: Jossey-Bass.
- 16. Mark Royal and Tom Agnew, The Enemy of Engagement: Put an End to Workplace Frustrationand sof the Most from Your Employees, Amacom,

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(Affiliated to JNTUA, Approved by AICTE, New Delhi and Accredited by NAAC 'A' Grade)
Tirupati - 517506, Chittoor Dt. Andhra Pradesh.

Legal Aspects of Business

		II MBA II Semester :							
Course Code	Category	Ho	Hours/Week Credi		Credits	Maximum Marks			
20CE00403	Foundation	L	T	P	C	Internal	External	Total	
20CE00403		3	-	-	4	40	60	100	
Contact classes:50	Tutorial Classes:15	Practic	Practical classes: Nil			Total cla	sses:65		

COURSE OBJECTIVES:

To sensitize the students as also help they appreciate the overall legal framework within which business activities are carried out. To create awareness in respect of rules and regulations affecting various managerial functions.

COURSE OUTCOMES:

CO1: Analyze the Indian Contract Act. [K4]

CO2: Evaluate Sales of Goods Act and the machinery for redressal of consumer grievances. [K5]

CO3: Elaborate rights and duties of agent and principal, Principal's liability for the acts of agent and the procedure for termination of agency. [K6]

CO4: Examine the rights and duties of partners, dissolution of partnership firm and the formation of company, amendments act in 2013. [K4]

CO5: Explain the kinds of Negotiable Instruments and Goods and Services Act. [K5]

UNIT -I: THE INDIAN CONTRACT ACT, 1872

Nature of the Act - - Essentials of a Valid Contract - Classification of Contracts- Capacity - Free Consent —Performance of a Contract - Discharge of a Contract - Remedies for Breach of a Contract

UNIT -II: SALES OF GOODS ACT, 1930 & CONSUMER PROTECTION ACT, 1986
Distinction between Sales and Agreement to Sell -Conditions and Warranties - Performance of
Contract of Sale - Rights of an Unpaid Seller.Consumer Protection Act, 1986: Consumer Rights-

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Machinery for Redressal of Consumer Grievances- District Consumer Forum - State Level Commission - National Level Commission.

UNIT -III: CONTRACT OF AGENCY ACT, 1872

Kinds of Agents - Creation of Agency-Rights and Duties of Principal - Rights and Duties of Agent - Principal's Liability for the Acts of the Agent-Liability of Agent - Termination of Agency.

UNIT-IV: INDIAN PARTNERSHIP ACT, 1932

Meaning and Essentials of Partnership Firm -Registration Deed - Tests of Partnership-Rights and Duties of Partners -Dissolution of Partnership.

UNIT -V: COMPANIES ACT 2013 & NEGOTIABLE INSTRUMENTS ACT, 1881

- (i) Nature and Types of Companies Formation of a Company Memorandum of Association-Articles of Association–Kinds of Shares – Company Act amended in 2013 - Duties of Directors-Winding up Procedure.
- (ii) Kinds of Negotiable Instruments and Endorsement- Presentation of a Negotiable Instrument Discharge of a Negotiable Instrument - Goods and Services Tax Act, 2017

Relevant cases have to be discussed in each unit

TEXT BOOKS:

- 1. "Legal Aspects of Business" Ravindra Kumar: Cengage Learning, New Delhi, 2011
- "Business Legislation for Management", Kuchhal M C, DeepaPrakash: Vikas Publishing House, New Delhi, 2012

REFERENCE BOOKS:

- "Legal Aspects of Business", Pathak: Tata McGraw Hill, New Delhi, 2010.
- "A Manual of Business Laws", S.N.Maheshwari, S.K.Maheshwari: Himalaya Publishing House, 2013.
 - "Legal Aspects of Business", P.K.Padhi: PHI Learnings, New Delhi, 2013
 - 4. "Business Law", S.S Gulshan: Excel Books, New Delhi, 2012.

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OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB

I Semester								
Course Code	Category	Hot	ırs / W	eek	Credits	М	aximun	n Marks
20CF00212	Core	L	T	P	С	CIA	SEE	Total
200100212	Core	2	-	4	2	40	60	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes:			es: 45	Total Classes: 45		ses: 45

Course Objectives:

- Practice object-oriented programs and build java applications.
- Implement java programs for establishing interfaces.
- Implement sample programs for developing reusable software components.

Course Outcomes:

- Create a software application using the Java programming language.
- Debug a software application written in the Java programming language.
- Test a software application written in the Java programming language.
- Create database connectivity in java and implement GUI applications.
- Students learn to implement sample programs for developing reusable software components.

List of Experiments

Week-1

- a. Try debug step by step with small program of about 10 to 15 lines which contains at least one if else condition and a for loop.
- b. Write a java program that prints all real solutions to the quadratic equation ax²+bx+c=0. Read in a, b, c and use the quadratic formula.
- c. The Fibonacci sequence is defined by the following rule. The first two values in the sequence are 1 and 1. Every subsequent value is the sum of the two values preceding it. Write a java program that uses both recursive and non-recursive functions.

Week-2

- Write a java program to multiply two given matrices.
- Write a java program to implement method overloading and constructors overloading.
- Write a java program to implement method overriding.

Week-3

- a. Write a java program to check whether a given string is palindrome.
- b. Write a java program for sorting a given list of names in ascending order. DIRECTOR
- b. Write a java program for sorting a given list of names in ascending order. DIRECTOR

 c. Write a java program to create an abstract class named Shape that contains two integers and an empty method named print Area (). Provide three classes named Rectangle, Triangle and Circle

such that each one of the classes extends the class Shape. Each one of the classes contains only the method print Area () that prints the area of the given shape. Week-4 Write a program that creates a user interface to perform integer division. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 and Num2 were not integers, the program would throw a Number Format Exception. If Num2 were zero, the program would throw an Arithmetic Exception Display the exception in a message dialog box. Week-5 Write a java program that creates menu which appears similar to the menu of notepad application of the Microsoft windows or any editor of your choice. Week-6 a. Write a java program that reads a file name from the user, and then displays information about whether the file exists, whether the file is readable, whether the file is writable, the type of file and the length of the file in bytes. b. Write a java program that displays the number of characters, lines and words in a text file. c. Write a java program that reads a file and displays the file on the screen with line number before each line. Week-7 a. Suppose that table named table.txt is stored in a text file. The first line in the file is the header, and the remaining lines correspond to rows in the table. The elements are separated by commas. Write a java program to display the table using labels in grid layout. b. Write a java program that connects to a database using JDBC and does add, delete, modify and retrieve operations. Week-8 Write a java program to handle keyboard events Week-9 a. Write a java program that takes tab separated data (one record per line) from a text file and insert them into a database. b. Write a java program that prints the metadata of a given table. Week-10 Write a java program that simulates a traffic light. The program lets the user select one of three lights: Red, Yellow or Green with radio buttons. On selecting a button an appropriate message with "STOP" or "READY" or "GO" should appear above the buttons in selected color. Initially, there is no message shown. Week-11

Write a jave program that handles all mouse events and shows the event name at the center of

Write a java program to demonstrate the key event handlers. Chardelewada Romanum Engineering College

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the window when a mouse event is fired. Use adapter classes.

INTERNET OF THINGS

II-Semester								
Course Code	Category	Hou	rs/W	eek	Credits	Maxi	mum M	arks
17CD05203	Core	L	L T	P	C	CIA	SEE	Tota
170-155-2405	Core	4			4	40	60	100
Contact Classes: 60	Tutorial Classes: Nil	P	actica	Class	ses: Nil	Tota	Classes	: 60

Objectives:

The course should enable the students to:

- Understand the architecture of Internet of Things and connectedworld.
- Explore on use of various hardware and sensing technologies to build IoTapplications.
- Illustrate the real time IoT applications to make smartworld.

Outcomes:

- Interpret the vision of loT from a globalcontext.
- Determine the Market perspective ofloT.
- Compare and Contrast the use of Devices, Gateways and Data Management inIoT.
- Implement state of the art architecture inIoT.
- Illustrate the application of IoT in Industrial Automation and identify Real WorldDesign

UNIT-I Introduction to Internet of Things(IoT)

Classes: 12

Definition and characteristics of IoT, physical design of IoT, logical design of IoT, IoT enabling technologies, IoT levels and deployment, domain specific IoTs.

UNIT-II IoTand M2M

Classes: 12

Introduction, M2M, difference between IoT and M2M, software defined networking (SDN) and network function virtualization (NFV) for IoT, basics of IoT system management with NETCONF-YANG.

UNIT-III

IoT Architecture and Python

Classes: 12

IoT Architecture: State of the art introduction, state of the art; Architecture reference model: Introduction, reference model and architecture, IoT reference model.

Logical design using Python: Installing Python, Python data types and data structures, control flow, functions, modules, packages, file handling.

UNIT-IV | IoT Physical Devices and Endpoints

Classes: 12

Introduction to Raspberry Pi interfaces (Serial, SPI, I2C), programming Raspberry PI with Python, other IoT devices.

UNIT-V IoT Physical Servers and Cloud Offerings

Classes: 12

Introduction to cloud storage models and communication APIs; WAMP: AutoBahn for IoT, Xively cloud for IoT; Case studies illustrating IoT design: Home automation, smart cities, smart environment.

Text Books:

ArshdeepBahga, Vijay Madisetti, "Internet of Things: A Hands-on-Approach", VPT, 1st Edition, 2014.
 Merc Piches Internet of Things: A Hands-on-Approach", VPT, 1st Edition, 2014.

2.Matt Richardson, Shawn Wallace, "Getting Started with Raspberry Pi", O"Reilly (SPD), 3rd Edition, 2014.



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MOBILE APPLICATION DEVELOPMENT

II-Semester								
Course Code	Category	Н	ours/	Week	Credits	Max	imum N	larks
17CD05204	Core	L	T	P	C	CIA	SEE	Total
		4			4	40	60	100
Contact Classes: 60	Tutorial Classes: Nil	Practical Classe		ses: Nil Total Cla		l Classe	s: 60	

Objectives:

The course should enable the students to:

- · Understand fundamentals of android operating systems.
- Illustrate the various components, layouts and views in creating androidapplications
- Understand fundamentals of androidprogramming.

Outcomes:

- Be exposed to technology and business trends impacting mobileapplications
- Be competent with the characterization and architecture of mobileapplications.
- Be competent with understanding enterprise scale requirements of mobileapplications.
- Be competent with designing and developing mobile applications using oneapplication development framework.

UNIT-I Introduction to Android

Classes: 12

The Android 4.1 jelly Bean SDK, Understanding the Android Software Stack, installing the Android SDK, Creating Android Virtual Devices, Creating the First Android Project, Using the Text view Control, Using the Android Emulator, The Android Debug Bridge(ADB), Launching Android Applications on a Handset.

UNIT-II Basic Widgets Classes: 12

Understanding the Role of Android Application Components, Understanding the Utility of Android API, Overview of the Android Project Files, Understanding Activities, Role of the Android Manifest File, Creating the User Interface, Commonly Used Layouts and Controls, Event Handling, Displaying Messages Through Toast, Creating and Starting an Activity, Using the Edit Text Control, Choosing Options with Checkbox, Choosing Mutually Exclusive Items Using Radio Buttons

UNIT-III Building Blocks for Android Application Design

Classes: 12

Introduction to Layouts, Linear Layout, Relative Layout, Absolute Layout, Using Image View, Frame Layout, Table Layout, Grid Layout, Adapting to Screen orientation.

Utilizing Resources and Media Resources, Creating Values Resources, Using Drawable Resources, Switching States with Toggle Buttons, Creating an Images Switcher Application, Scrolling Through Scroll View, playing Audio, Playing Video, Displaying Progress with Progress Bar, Using Assets.

UNIT-IV Using Selection widgets and Debugging

Classes: 12

Using List View, Using the Spinner control, Using the GridView Control, Creating an Image Gallery Using the ViewPager Control, Using the Debugging Tool: Dalvik Debug Monitor Service(DDMS), Debugging Application, Using the Debug Perspective.

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COMMUNICATIVE ENGLISH I

Course code	Category	Hours/week Credits		M	Marks			
19CA52101	Foundation	L	T	P	C	CIA	SEE	Total
150,102101	1 Odnation	2	-		2	40	60	100
Contact Classes:32	Tutorial Clas	sses:	s: Practical		Classes: Nil	Т	otal Class	

OBJECTIVES:

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

UNIT-I Classes:07

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions.

Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others.

Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information.

Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph.

Grammar and Vocabulary: Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- · Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- · Ask and answer general questions on familiar topics and introduce oneself/others
- · Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- · Recognize paragraph structure and be able to match beginnings/endings/headings with
- · Form sentences using proper grammatical structures and correct word forms

UNIT-II

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio texts.

Speaking: Discussion in pairs/ small groups on specific topics followed by short structured talks. Readings Identifying sequence of ideas; recognizing verbal techniques that help to link the ideasure in a paragraph together. Chadalawada Romananaka L

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Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing - punctuation, capital letters.

Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

- · comprehend short talks on general topics
- participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- understand the use of cohesive devices for better reading comprehension
- · write well structured paragraphs on specific topics

· identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT-III

Listening: Listening for global comprehension and summarizing what is listened to.

Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed

Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension.

Writing: Summarizing - identifying main idea/s and rephrasing what is read; avoiding redundancies and repetitions.

Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- · comprehend short talks and summarize the content with clarity and precision
- · participate in informal discussions and report what is discussed
- infer meanings of unfamiliar words using contextual clues
- write summaries based on global comprehension of reading/listening texts
- · use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing.

UNIT-IV Classes:06

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video.

Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions.

Reading: Studying the use of graphic elements in texts to convey information, reveal 46 trends/patterns/relationships, communicate processes or display complicated data.

Writing: Information transfer; describe, compare, contrast, identify significance/trendsbased on information provided in figures/charts/graphs/tables.

Grammar and Vocabulary: Quantifying expressions - adjectives and adverbs; comparing and contrasting; degrees of comparison; use of antonyms

Learning Outcomes

At the end of the module, the learners will be able to

- infer and predict about content of spoken discourse
- understand verbal and non-verbal features of communication and hold formal/informal conversations
- o interpret graphic elements used in academic texts

produce a Sherebt paragraph interpreting a figure/graph/chart/table

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use language appropriate for description and interpretation of graphical elements

UNIT-V

Classes:06

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension.

Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides.

Reading: Reading for comprehension.

Writing: Writing structured essays on specific topics using suitable claims and evidences Grammar and Vocabulary: Editing short texts -identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes

At the end of the module, the learners will be able to

- take notes while listening to a talk/lecture and make use of them to answer questions
- make formal oral presentations using effective strategies
- · comprehend, discuss and respond to academic texts orally and in writing
- produce a well-organized essay with adequate support and detail
- edit short texts by correcting common errors.

Text Books:

Reference Books:

- Bailey, Stephen. Academic writing: A handbook for international students. Routledge. 2014.
- 2. Chase, Becky Tarver, Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- Skillful Level 2 Reading & Writing Student's Book Pack (B1) Macmillan Educational.
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.

Web References:

1 Grammar/Listening/Writing 1-language.com

http://www.5minuteenglish.com/

https://www.englishpractice.com/

Grammar/Vocabulary

English Language Learning Online

http://www.bbc.co.uk/learningenglish/

http://www.better-english.com/

http://www.nonstopenglish.com/

https://www.vocabularv.com/

BBC Vocabulary Games

Free Rice Vocabulary Game

Reading

https://www.usingenglish.com/comprehension/

https://www.englishclub.com/reading/short-stories.htm

https://www.english-online.at/

Listening

https://learningenglish.voanews.com/z/3613

http://www.englishmedialab.com/listening.html

Speaking

https://www.talkenglish.com/

BBC Learning Inglish - Pronunciation tips

Merriam-Versier - Perfect pronunciation Exercises

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COMMUNICATIVE ENGLISH I LABORATORY I B. Tech - I/II Semester: (Common to All Branches of Engineering) Course code Category Hours/week Credit Maximum Marks 19A52102 Foundation P C CIA L SEE TOTAL 40 60 100 Contact Tutorial Classes: Nil Total Classes:45 Practical Classes:Nil Classes:45

Objectives:

The course should enable the:

- students will be exposed to a variety of self instructional, learner friendly modes of language learning
- students will cultivate the habit of reading passages from the computer monitor. Thus
 providing them with the required facility to face computer based competitive exams
 like GRE, TOEFL, and GMAT etc.
- students will learn better pronunciation through stress, intonation and rhythm
- students will be trained to use language effectively to face interviews, group discussions, public speaking
- students will be initiated into greater use of the computer in resume preparation, report writing, format making etc

UNIT-I Classes:09

- Phonetics for listening comprehension of various accents
- Reading comprehension
- Describing objects/places/persons

Learning Outcomes

At the end of the module, the learners will be able to

- · understand different accents spoken by native speakers of English
- employ suitable strategies for skimming and scanning on monitor to get the general idea of a text and locate specific information
- learn different professional registers and specific vocabulary to describe different persons, places and objects

UNIT-II

Classes:09

- JAM
- Small talks on general topics
- Dehates

Learning Outcomes

At the end of the module, the learners will be able to

- · produce a structured talk extemporarily
- · comprehend and produce short talks on general topics
- participate in debates and speak clearly on a specific topic using suitable discourse markers

UNIT-III

Classes:09

Situational dialogues – Greeting and Introduction

Summarizing and Note making

Vocabulary Building

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Learning Outcomes

At the end of the module, the learners will be able to

- Learn different ways of greeting and introducing oneself/others
- summarize the content with clarity and precision and take notes while listening to a talk/lecture and make use of them to answer questions
- replenish vocabulary with one word substitutes, homonyms, homophones, homographs to reduce errors in speech and writing

UNIT-IV

Classes:09

- · Asking for Information and Giving Directions
- Information Transfer
- Non-verbal Communication Dumb Charade

Learning Outcomes

At the end of the module, the learners will be able to

- Learn different ways of asking information and giving directions
- Able to transfer information effectively
- understand non-verbal features of communication

UNIT-V

Classes:09

- Oral Presentations
- Précis Writing and Paraphrasing
- Reading Comprehension and spotting errors

Learning Outcomes

At the end of the module, the learners will be able to

- make formal oral presentations using effective strategies
- learn different techniques of précis writing and paraphrasing strategies
- comprehend while reading different texts and edit short texts by correcting common errors

Minimum Requirements for ELCS Lab:

The English Language Lab shall have two parts:

- Computer Assisted Language Learning (CALL) Lab: The Computer aided Language Lab for 60 students with 60 systems, one master console, LAN facility and English language software for self study by learners.
- The Communication Skills Lab with movable chairs and audio-visual aids with a P.A. system, Projector, a digital stereo-audio & video system and camcorder etc.

System Requirement (Hardware component):

Computer network with LAN with minimum 60 multimedia systems with the following specifications:

i) P-IV Processor

- a) Speed 2.8 GHZ
- b) RAM 512 MB Minimum
- c) Hard Disk 80 GB
- Headphones of High quality

ested Software:

Clarity Pronunciation Power – Part I (Sky Pronunciation)
 Clarity Pronunciation Power – part II

K-Van Advanced Communication Skills

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PROBLEM SOLVING AND PROGRAMMING

I B.Tech II- Semester : Common for All Branches

Course Code	Category	Hours/Week		Hours/Week Credits		Max	imum !	Marks
105105103		L	T	P	C	CIA	SEE	Total
19CA05102	Foundation	_	_	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classe		s: 48	Total Classes:48		:48	

Objectives:

- Learn C Programming language.
- To make the student solve problems, implement algorithms using C language.
- To write diversified solutions using C language.

Design an algorithm and construct a flow chart using Raptor tool and then write programs for the following problems.

LIST OF PROGRAMS

Week -I BASIC C PROGRAMS

Write C program to

- 1. Find the Sum of three numbers.
- 2. Exchange (swap) of two numbers by using third variable.
- 3. Exchange (swap) of two numbers without using third variable.
- 4. Print the size of all data types,

Week - 2 BASIC C PROGRAMS

- a). Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
 - b). Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
 - e). Write a C program to swap two numbers using bitwise operators.

Week - 3 CONTROL STATEMENTS

- a) Write a C program to find whether the given number is odd or even.
- b) Write a C program to find the Maximum and minimum of N numbers.
- c) Write a C program to find the Maximum of three numbers.
- d) Write a C program to print 'hello world' without using semicolon.
- e) Write a C program to find whether the given number is odd or even using bitwise operator,
- f) Write a C program to find the maximum of two numbers using Conditional operator.
- g) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, /,

36)

ITERATION STATEMENTS Week -4

- Write a C program to generate the required multiplication table.
- Write a C program to find the Factorial of a given number.
- Write a C program to check whether the given number is prime or not.
- d) Write a C program to find GCD

Week ITERATION STATEMENTS

Write a C program to find the sum of the digits of a number.

program to find whether the given integer is a Palindrometardor old Romanamon Loginaring College
program to generate Fibonacci much be a Palindrometardor old Romanamon Loginaring College

Atite a e program to generate Fibonacci numbers in the given range.

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Week - 6 NESTED LOOPS Write a C program to print the following pattern. 1 22 333 print multiplication tables upto the given table. Write a C program to print Series of prime numbers in the given range. Week - 7 NESTED LOOPS Write a C program to check given number is strong number or not. 2) b) Write a C program to evaluate the sum of the following series up to 'n' terms $e^x = 1 + x + x^2/2! + x^3/3! + x^4/4! + \dots$ Week - 8 ARRAYS a).calculate the maximum, minimum and average of N numbers. b). Write a C program to find the sum of positive and negative numbers in a given set(Array) of c). Design a flowchart to perform Linear search on list of N unsorted numbers (Iterative and d)Write a C program to read two matrices and find i) Sum. ii) Product and display the result in the matrix form. Week -9 ARRAYS Write a C program to read matrix and perform the following operations i) Find the sum of Diagonal Elements of a matrix. ii) Print Transpose of a matrix. iii) Print sum of even and odd numbers in a given matrix. Week - 10 STRINGS Write a C program to read two strings and perform the following operations without a) using built-in string Library functions. String length determination. ii) Compare Two Strings. iii) Concatenate Two Strings. iv) String reversing b) Write a C program to accept a line of characters and print the number of Vowels, Consonants, blank spaces, digits and special characters. c) Write a C program to read a set of strings and sort them in alphabetical order. Week -11 FUNCTIONS a) Write a C program to illustrate the following types of functions i) Function with no arguments and no return values ii) Function with arguments and no return value iii) Function without arguments and with return value iv) Function with arguments and with return value Week - 12 POINTERS a) Write a C program to exchange two numbers using pointers. 15) Write a program to print the elements of an array in reverse order using pointers. Week - 13 EXCTIONS Writes or program to express a four digit number in words. For example 1546 should be writes us got thousand tike hundred and forty six DIRECTOR Chadalawada Ramenasana Enginnering College program using recursion for finding Factorial of a number (AUTONOMOUS) * TIRLIPA TIRUPATI

- c). calculate the greatest common divisor using iteration and recursion for two numbers as specified by the user
 - d). Write a C program to illustrate the Dynamic Memory allocation function malloc()

Week -14 STRUCTURES

- a) Declare a structure time that has three fields hr, min, secs. Create two structure variables start_time and end_time. Input there values from the user. Then if start_time is not equal to end_time then display HELLO CREC on the screen.
- Write a C program to read student roll no, name and marks in six subjects for n number of students and give class of each student by following the required conditions.
 - Write a C program to demonstrate self referential structures.

Week-15 FILES

- a) Write a program to create a file and write some text data on the file. Then display the contents of the file and also print number of characters, number of words, number of lines in the file.
- b) Write a C program to merge two files.

Week -16 FILES

- Write a C program to create a text file and write data on it, then display every 5th character in that file.
- b) Write a program to read student records into a file. Record consists of rollno, name and marks of a student in six subjects and class. Class field is empty initially. Compute the class of a student. The calculation of the class is as per CREC rules. Write the first class, second class, third class and failed students lists separately to another file.

REFERENCE BOOKS

- How to Solve it by Computer, R.G. Dromey, Pearson.
- The C Programming Language, Brian W. Kernighan, Dennis M. Ritchie, Pearson.
- 3. Let us C, Yeswant Kanetkar, BPB publications
- Pointers in C, Yeswant Kanetkar, BPB publications.
- Programming in C and Data Structures, J.R.Hanly, Ashok N. Kamthane and A.Ananda Rao, Pearson Education.

WEB REFERENCES

- https://www.programiz.com/
- https://www.programmingsimplified.com
- https://www.techcrashcourse.com
- https://www.sanfoundary.com/

OUTCOMES:

- · Illustrate flowchart and algorithm to the given problem
- Understand basic Structure of the C-PROGRAMMING, declaration and usage of variables
- Write C programs using operators
- Exercise conditional and iterative statements to Write C programs
- Write C programs using Pointers to access arrays, strings and functions.
- Write C programs using pointers and allocate memory using dynamic memory management functions.

· Exercise user defined data types

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PROBLEM SOLVING AND PROGRAMMING

I B.Tech I/II Semester: Common for All Branches

Course Code	Category	Hours/Week		Hours/Week Credits		Maximum Marks		
19CA05101	Foundation	L	T	P	С	CIA	SEE	Total
19CA03101	Foundation	3	1		4	40	60	100
Contact Classes:45	Tutorial Classes:15	Practical Classes: N		: Nil	Total Classes:60			

Objectives:

- Understand problem solving techniques
- Understand representation of a solution to a problem
- Understand the syntax and semantics of C programming language
- Understand the significance of Control structures
- Learn the features of C language

INTRODUCTION TO COMPUTERS AND C LANGUAGE UNIT - I

Classes:14

Introduction to Computers, Introduction to Programming, Algorithms, Flowcharts, Flow chart symbols, Input/Output, Assignment, operators, conditional if, repetition, function and sub charts. Example problems-Finding maximum of 3 numbers, Unit converters, Interest calculators, multiplication tables, GCD of 2 numbers. Example problems-Fibonacci generation, prime number generation. Minimum, Maximum and average of n numbers, Linear search, Binary Search. Introduction to C Language, C Language Elements, Variables, Data Types, Operators and Expressions, Constants, Declarations, Operators, Type Conversions, Precedence and Order of Evaluation.

UNIT - II CONTROL STATEMENTS, LOOPS AND ARRAYS

Classes:13

Statements: Selection Statements, Iteration Statements, Jump statements: Break, Continue, goto, Arrays: Accessing Array Elements, Single & Multi Dimensional Arrays.

UNIT - III STRINGS AND FUNCTIONS

Classes:13

Strings: Declaring, Initialization of a String, Reading and Writing Strings, String manipulation functions from the standard Library, String I/O Functions: gets(), puts().

Functions: Definition, Function Call- Call by Value, Storage Class Specifiers, Understanding the scope of Functions with its Types, the Return Statement, Recursion, Command Line Arguments.

POINTERS, STRUCTURES AND UNIONS UNIT - IV

Classes:14

Pointers: Pointer Variables, Pointer Expressions, Pointers And Arrays, Pointers to Strings, Call by Reference, C's Dynamic Allocation Functions, Problems with Pointers.

Structures and Unions: Accessing structure members, Array of structures, Passing Structures to Functions, Structure Pointers, Structures within Structures, Bit Fields, Enumerations, Typedef.

UNIT-V

FILE I/O

Classes:14

Streams and File, File System Basics: File pointer, opening a file using fopen(), closing a file, getc(), putc(), fclose(), feof(), fputs, fgets(), ferror(), fread(), fwrite(), fseek(), Formatted Console I/O: fprintf, fseanf, the Preprocessor Directives: #define and #include

Text Books:

The Complete Reference as Fourth Edition, Herbert Schildt, McGraw-Hill Education Engineering College
The C Programming Language Second Edition, Brain W. Kernighan, Denniso Summusum Engineering College M. (AUTONOMOUS)

CODE: 19CA05201

PYTHON PROGRAMMING

II Semester: CSE

Course Code	Category	He	ours / \	Neek	Credits	M	Maximum Marks			
19CA05201	Foundation	L	T	P	C	CIA	SEE	Total		
		3		-	3	30	70			
Contact Classes: 45	Tutorial Classes: Nil	P	ractica	l Class	es: Nil		tal Classes:	100		

Objectives:

The course should enable the students to:

- To educate problem solving through python programming language.
- To train in development of solutions using modular concepts.
- To teach practical Pythonic solution patterns.
- To introduce function-oriented programming paradigm through python.

INTRODUCTION TO PYTHON UNIT-I

Classes: 10

Introduction to Python: Python- Numbers, Strings, Variables, operators, expressions, statements, String Operations, Math function calls, Input/Output statements.

CONTROL STATEMENTS UNIT-II

Classes: 09

Conditional If, while and for loops, User defined Functions, parameters to functions, recursive functions.

UNIT-III

DATA STRUCTURES AND IDIOMATIC PROGRAMMING IN PYTHON

Classes: 08

Lists, Tuples, Dictionaries, Strings, Files and their libraries, Beautiful Idiomatic approach to solve programming problems

UNIT-IV

PYTHON OBJECT ORIENTED PROGRAMMING

Classes: 08

Introduction to oops: Concept of class, object and instances, Method, Inheritance, Polymorphism, Data Abstraction, Encapsulation.

Oops through Python: Data hiding, Polymorphism, Inheritance, Class and static variables, Class methods and Static methods, Constructors and Destructors.

UNIT-V

EVENT DRIVEN PROGRAMMING

Classes: 10

Turtle bar Chart, Event Driven programming, Key press events, Mouse events, timer events.

Text Book:

- http://www.ict.ru/ac.za/Resources/cspw/thinkcspy3/thinkcspy3.pdf
- //zhanxw.cats/hlod/wp-content/uploads/2013/03/BeautifulCode_2.pdpIRECTOR
- BayDowney," Think Python: How to like a computer scientist ", 2nd edition of the Tea Press
- utz, "Programming Python," O'Reilly Publications, Fourth Edition, 2011 Publications



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Managerial Economics

		1 MBA	I Semest	ter				T
Course Code			ours/Wee	****	Credits	1	11 .	
17CE00102	Foundation	1	727		CICUIS		Maximum ?	Marks
	+ Othidation	L	1	P	C	Internal	External	Total
	200	4	-		4	40		-
Contact	Tutorial		Practical	classes	- Nil	_		100
classes;50	Classes:15			emades	. 1411		lotal classe	s:65
Contact classes; 50 Course Object	Classes:15	'	Practical	classes	e Nil	40	Total cla	1550

The objective of this course is to understand the pertinence of economics in business concepts. This will enable the students to study the various concepts related to functional areas of Demand of the products and services, Production, Market structures, Pricing and Costing from a broader perspective.

Unit - I Introduction to Managerial Economics

Classes: 10 Introduction to Managerial Economics: Importance, Nature and scope of Managerial Economics -Role and responsibilities of Managerial Economist - revealed preference hypothesis theory -Theory of firms - Managerial theories - Basic economics concepts - opportunity cost - Scarcity -Marginalism- Equi - marginalism - discounting principle - Incremental concept - Risk and

Unit - II Demand Analysis

Classes: 10

Introduction to Demand, demand schedule, demand determinants - Elasticity of demand - types of elasticity - Demand forecasting - Types of techniques - Law of supply - supply elasticity.-Introduction to Production - Production function - Cobb-Douglas Production function - Law of variable proportions - Marginal Rate of Technical Substitution - Iso - quants - types of Iso-quants - Returns to scale and returns to variable - Iso-costs - Economies of scale.

Unit - III Introduction to Cost

Classes: 10

Introduction to Cost - cost function - types of costs - short run cost functions - relationship between total cost and total revenue - Long run cost function (envelope curve) - concept of Break even-Analysis - Introduction to Pricing - objectives of pricing - Multiple product pricing -Pricing of new products - skimming and penetration - Pricing methods.

Unit - IV Market structures

Classes: 10

Market structures - Monopoly - Duopoly - Oligopoly (Paul sweezy kinked demand curve) -Perfect competition - Monopolistic competition - Price discrimination - Introduction to game theory.

Unit - V National Income

Classes: 10

National Income - Concepts-Gross Domestic Product, Gross National Product, Net National Product-Measurement of National Income - Business Cycles and Contra cyclical policies. Factors influencing International trade. Balance of payments - disequilibrium, methods to correct dis-equilibrium.

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BUSINESS COMMUNICATION

		I MBA 1 Semester:							
Course Code Category		Hours/Week			Credits	Maximun			
17CE00106		L	T	P	C	Internal	External	Total	
		4	-		4	40	60	100	
Contact classes:50	Tutorial Classes:15	Practic	Practical classes: Nil				ses:65	100	

Course Objectives:

The objective of this Course is to understand the communication concepts and to develop the students' competence in communication at an advanced level. Assuming that the students are fairly proficient in the basic communication skills of listening, speaking, reading and writing in English the course aims to train them in communicating efficiently in the workplace and professional contexts.

UNIT-1	C	
Citil - I	Concept of Communication	Classes: 14

Significance, Scope and functions of Business Communication - Process and dimensions of communication - Essentials of good communication - Channels of communication - Formal, informal communication - Upward, Downward, Horizontal communication - Grapevine Phenomenon.

UNIT - II	TPC CONTROL OF THE PARTY OF THE		
CONT II	Types of communication: Verbal - Oral Communication	Classes: 13	

Verbal - Oral Communication: Advantages and limitations of oral communication, written communication - Characteristics, significance, advantages & Limitations of written communication, Non verbal Communication: Sign language - Body language - Kinesics - Proxemics - Time language and Haptics: Touch language

UNIT - III	Interpersonal communication	61
	production communication	Classes: 14

Communication models: Johari window – Transactional analysis, Communication styles, Managing Motivation to Influence Interpersonal communication – Role of emotion in inter personal communication.

UNIT - IV	n ·	
CIVIL - IV	Barriers to communication	Classes: 14
		Classes: 14

Types of barriers - Technological - Socio-Psychological barriers - Overcoming barriers, Types of listening - Tips for effective listening.

UNIT - V	Description of the con-	
CASA - Y	Report writing	Classes: 10
A-5-4		Ciasses; 10

Formal reports – The elements of clear writing – Writing effective letters – different layouts of business letters – Informal reports – Writing good news and bad news – Meetings and oral presentations, Interview techniques — Communication etiquettes.

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Business Comunication Lab - I

	and the contract of the contra	II MBA III Semester :									
Course Code	Category	Hours/Week		Hours/Week		Hours/Week Credits		Maximum Marks			
14CE00108	Foundation	L	T	P	C	Internal	External	Total			
		3		4	40	60	100				
Contact classes:50	Tutorial Classes:15	Practic	al classe	s: Nil	Total cla	sses:65					

Course Description: Aim is to enable students understand how to write business letters and improve written communication.

Course Objectives:

Unit - II

- ✓ English language skills for effective written business communication ('s).
- ✓ Will be able to understand how to write project report.

Unit – I Business Writing Classes: 9
Introduction, Importance of Written Business Communication, Direct and Indirect Approached to

Business Messages, Five Main Stages of Writing

Business Correspondence

Classes: 9

Introduction, Business Letter Writing, Effective Business Correspondence, Common Components of Business Letters, Strategies for Writing the Body of a Letter, Kinds of Business Letters, Writing Effective Memos. Practice Exercises.

Unit - III Instructions

Classes: 9

Instructions: Introduction, Written Instructions, General Warning, Caution and Danger, Format in Instructions, Oral Instructions, Audience Analysis, Product Instructions. Practice Exercises.

Unit – IV Business Reports and Proposals

Classes: 9

Business Reports and Proposals: Introduction, What is a Report, Steps in Writing a Routine Business Report, Parts of a Report, Corporate Reports, Business Proposals.

Unit - V Careers and Resumes

Classes: 9

Careers and Resumes: Introduction, Career Building, Understanding yourself, setting a career goal, job search / looking at various options, preparing your resume, resume formats, traditional, electronic and video resumes, online recruitment process. Write your resume to market yourself.

Reference:

- 1. Lesikar: Basic Business Communication, TMH.
- 2. Stephen Bailey, Academic Writing for International Students of Business, Routledge.
- 3. David Irwin: Effective Business Communications, Viva-Thorogood.
- 4. Rajendra Pal, J S KorlahaHi: Essentials of BusinessCommunication:Sultanchand
- 5. Sailesh Sengupta, Business and Managerial Communications, PHI.

Mode of evaluation: Assignments, Lab, Mid Examinations.

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Information Technology Lab

		I MBA I Semester:							
Course Code	Category	Hours/Week			Credits	Maximum Marks			
17CE00109		L	T	P	C	Internal	External	Total	
		-	-	4	2	40	60	100	
Contact classes: 31	Tutorial Classes: 0	Practical classes: Nil				The state of the s			

Course Description: This course is to provide basic understanding of applications of information technology and hands on experience to students in using computers for data organization and addressing business needs.

Course Objectives:

To understand the evolution of computers To practical knowledge of MS Word To learn knowledge of MS Excel and powerpoint

UNIT - I	Study of Evolution of Computers	Classes: 5
Generations -	Assembling & Dissembling of Computer Components, Cor	mputer Networks -
	f computers in Management -Internet, E-Commerce, E-Busines	

UNIT – II Ms-Word Classes: 8

Creation of Document- Format Document-Text editing and saving-Organizing information with tables and outlines-Inserting tables – clip art – borders/shadings -Mail merge, Macros.

UNIT - III Ms Excel

Creating and editing worksheets-Cell formatting-Creating and using formulas and functions-Use of Macros -Sorting and querying data-Working with graphs and charts. Data Analysis with Statistical Tools - Mean, Median, Average, Skewness, Correlation, Regression, Chi-Test -Use of Financial Tools-Use of other functions in Excel for data analysis.

UNIT - IV Ms Power Point

MS Power Point-Creation of slides-Use of templates and slide designs for creating power point slides- use of drawings and graphics. Developing a Professional presentation on Business Plans, Institutions, Products, People etc,

UNIT - V MS ACCESS
Create Databases, Tables, and Relationships- Create forms to enter data-filter data-use of queries in data manipulation-Generating reports.

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Business Analytics Lab

		LMBA	II Sem	ester :				
Course Code	Category	Hours/Week			Credits	N	Marks	
17CE00208	Foundation	L	T	P	C	Internal	External	Total
		4	-	-	4	40	60	100
Contact classes:50	Tutorial Classes:15	Practical classes: nil				Total clas		100

Course Description:

The course is designed to understand the providing conceptual understanding of Business analytics under various functions of management. This will enable the students to study the various concepts related to applications of analytics and enabling them to apply the concepts in the management organization.

Course Objectives:

- ✓ To understand the basic concepts of business analytics
- ✓ To learn financial, marketing experiments
- √ To learn HRM, systemes experiments
- ✓ To understand the concepts of Information Technology

UNIT-I	Introduction experiments	to	Business	Analytics	-	Accounting	Classes: 10
Introd Preparation of traders	uction to Busine Ledger - Postir	ess A	malytics – ial Balance	functions - - Profit and	Los	ncepts. Creations Account - I	on of company - Balance sheet sole

UNIT - II Financial Experiments Classes: 10 Capital budgeting decisions - Calculations of NPV - Calculations of IRR

Calculations of Profitable Index Marketing Experiments Classes: 10

Storing and retrieving of data of customers - Storing and retrieving of data of sales - Storing and retrieving of data of dealers - products and geographical areas (Tables and Graphs)

UNIT - IV HRM Experiments Classes: 10 Creation of Employees data base - Demonstrating the salary administration

UNIT - V Systems Experiments Classes: 10

Understanding the Information Systems - Design of MIS - Overview of Internet and Internet tools.

Reference:

- 1. Ms Office-Sanjay Saxena
- 2. Ms Office Excel-Frye, PHI publications
- 3. Ms Office Access- Step by step, PHI publications

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Entrepreneurship Development

		II MBA III Semester:								
Course Code	Category	He	ours/We	ek	Credits	N	larks			
17CE00301	Foundation	L	T	P	C	Internal	External	Total		
17010001		3 4				40	60	100		
Contact classes:50	Tutorial Classes:15	Practical classes: Nil				Total cla	-	100		

Course Description:

This course presents the concepts, characteristics of entrepreneurship in India and various institutions that are promoting entrepreneurship at national level and state level. Further, it also represents the importance of women entrepreneurship in the globalization scenario. It also describes the project management and processes of project management.

Course Objectives :

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- To provide theoretical concepts of entrepreneurship.
- ✓ To give an overview of various organizations that promotes entrepreneurship in India.
- ✓ To learn the concept of women entrepreneurship in India.
- To provide awareness on Role of Government both in centre and state level in executing various entrepreneurial activities.

Unit - I	Introduction to Entrepreneurship	Classes: 10
Introduction	to Entrepreneurship: Characteristics, qualities and skills of	an Entrepreneur
functions of e small busines	ntrepreneur, entrepreneur scenario in India and abroad, forms of s enterprises - importance of Indian economy, first mover risk reduction strategies - market scope strategies, imitati	f entrepreneurship, – advantages and

Unit - II Promotional Strategies

Promotional strategies: Generation of new entry opportunities, SWOT analysis, technological competitiveness, legal regulatory system, patents and trademarks, intellectual property rights, project stanning and trademarks in product development. Philadelia aspects, Chedulawada Rumanomum Engineering College (AUTONOMOUS)

sources of rating capital, debt-equity, financing by commercial banks, government grants and subsidies, entrepreneurship promotion, schemes of department of industries - DICs, KVIC, SIDBI, NABARD, NSIC, APSFC, IFCI and IDBI,

Unit - III Corporate governance

Classes: 15

Corporate governance: Corporate governance, capitalism at crossroads historical perspective of corporate governance, issues of corporate governance, theoretical basis of corporate governance, corporate governance mechanisms, Indian model of governance good corporate governance, corporate governance committees, OECD principles, Indian committee and guidelines, the confederation of Indian industry's initiative, corporate governance models.

Unit - IV Role of government

Classes: 15

Role of Central Government and State Government in promoting Entrepreneurship with various incentives, subsidies, grants etc. - with special reference to 'Export oriented units' Role of the following agencies in the Entrepreneurship Development. District Industrial Centre (DIC), Small Industries Services Institute (SISI), Entrepreneurship Development Institute of India (EDII), National Institute of Entrepreneurship and Small Business Development (NIESBUD), National Entrepreneurship Development Board (NEDB).

Unit - V Process of project management

Classes: 10

Project management: Concept of project and classification of project identification, project formulation - project design, project planning, and social cost benefit analysis, financial analysis. PROJECT APPRAISAL: Project report and guidelines for preparing a project report, project Appraisal, Significance of project appraisal, Profitability appraisal, and project financing.

References:

- Robert D. Hisrich, Michael P. Peters, Decin A. Shephered (2009), Entrepreneurship, TMH.
- Vasanth Desai, Dynamics of Entrepreneurship Development Himalaya Publishing
- 3. David H. Holt, Entrepreneurship: New Venture Creation PHI, 2009
- 4. H. Nandan, Fundamentals of Entrepreneurship, PHI, First/e, New Delhi, 2009.
- 5. Satish Taneja, S.L.Gupta, Entrepreneurship Development New Venture Creation, Galgotia
- Bholanath Dutta (2009), Entrepreneurship. Excel Publication, New Delhi, India.
- 7. Mathew, J. Manimala (2009), Entrepreneurship Theory at the Crossroads, Wiley India,
- 8. N. Venkat Rao (2011), Entrepreneurship and good governance, Students Helpline Publishing
- 9. Tabarrok (2009), Entrepreneurial Economics, Oxford University Press, New Delhi.
- 10. Jaip (2009), Hand Book of Entrepreneurs, Oxford University Press, New Delhi,
- 11. De S.S. Khanka, Entrepreneurial Development, S. Chand & Co. Ltd., Ram Ragar, OF
- Shankar Entrapreneurship Theory and practice, Vijay Nicole and Tata Machine Utill,

JAVA PROGRAMMING (17CAO5405)

Unit-I Overview Of Java, Data Types, Arrays and Variables

Classes: 13

Introduction: The Creation of java, how java changed the internet, Java's magic: The byte code, Servlets: java on the server side, java Buzzwords. An Overview of Java: Two control statements, Using blocks of codes, Lexical issues, The java class Libraries. Data Types, Arrays and Variables: Primitive Types, Integers, Floating-point Types, Characters, Booleans, literals, variables, Type conversion and easting, Automatic Type Promotion in Expressions, Arrays.

Unit-II Operators, Control Statements, Classes

Classes: 14

Operators: Arithmetic Operators, The Bitwise Operators, Relational Operators, Boolean Logic operators, The assignment operator, The ?: Operator, Operator Precedence, Using Parentheses. Control Statements: Java's selection Statements, Iteration statements, Jump Statements.

Introducing Classes: Class Fundamentals, Declaring Objects, Assuming Object reference Variables, Introducing Methods, Constructors, The this Keyword, Garbage Collection, The Finalize() method, A Stack class. Overloading Methods, Using Object as Parameter, Argument Passing, Returning Objects, Recursion, Introducing Access control, Understanding static, Introducing Nested and Inner classes, Exploring the String class, Using Command line Arguments, Varargs: variable-Length Arguments.

Unit-III Inheritance, Packages and Interfaces, Exception Handling

Classes: 14

Inheritance: Basics, Using super, creating a multi level hierarchy, when constructors are executed, method overriding, dynamic method dispatch, using abstract class, using final with inheritance, the object class. Packages and Interfaces: Packages, Access protection, Importing Packages, Interfaces, Default Interfaces, Default interface methods, Use static methods in an Interface, Final thoughts on Packages and interfaces. Exception Handling: Exception handling Fundamentals, Exception Types, Uncaught Exceptions, Using try and catch, Multiple catch clauses, Nested try statements, throw, throws, finally, Java Built-in Exceptions, Creating your own exception subclasses, Chained Exceptions, Three Recently added Exceptions features, Using Exceptions.

Unit-IV I/O, Applets, and Generics

Classes: 13

I/O, Applets, and Other Topics: I/O basics, Reading Console input, Writing console Output, The Print Writer class, Reading and writing files, Automatically closing a file, Applet fundamentals, enumerations type wrappers auto boxing annotations. Generics: What Are Generics? The general form of a generic class, Bounded Types, Using Wildcard Arguments, creating a generic method, generics interfaces.

Unit-V

Introduction to Awt, Using Awt Controls, Layout Managers, and Menus

Classes: 14

Introduction to AWT: Working with windows, graphics and Text:

AWT classes, window fundamentals, working with frame windows, creating a frame window in an AWT Based applet, creating a window program, displaying information within a window, Graphics, working with color, setting the paint mode, working with fonts, managing text output using font metrics.

Using AWT controls, Layout Mangers, and Menus:

AWT control dindementals, Labels, using buttons, applying check boxes, check box group, choice controls, using the Managing scrol bars, using a Text field, Using a Text area, understanding layout managers, Menubars and Menus, digging boxes, file dialog, Overriding paint().

Text Booksell

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Note: Sample data may be considered as student details are employee data

Reference Books:

- The Art of R Programming, A K Verma, Cengage Learning.
- R for Everyone, Lander, Pearson

Web References:

- http://www.mayin.org/ajayshah/KB/R/
- 2. https://www.datamentor.io/r-programming/examples

JAVA PROGRAMING LABORATORY

II B. Tech II Semester: CSE Course Code Category Hours / Week Credits Maximum Marks T L C CIA SEE 17CA05408 Core Total 2 70 100 Contact Classes: Nil Tutorial Classes: Nil Practical Classes: 45 Total Classes: 45

Objectives:

The course will enable the students to:

- Practice object-oriented programs and build java applications.
- Implement java programs for establishing interfaces.
- Implement sample programs for developing reusable software components.
- Create database connectivity in java and implement GUI applications.

Basic Programs

- a. Write a java program that prints all real solutions to the quadratic equation ax²+bx+c=0. Read in a, b, c and use the quadratic formula.
- b. The Fibonacci sequence is defined by the following rule. The first two values in the sequence are 1 and 1. Every subsequent value is the sum of the two values preceding it. Write a java program that uses both recursive and non-recursive functions.

Week-2 Matrices, Overloading, Overriding

- a. Write a java program to multiply two given matrices.
- Write a java program to implement method overloading and constructor overloading.
- c. Write a java program to implement method overriding.

Week-3 Palindrome, Abstract Class

- a. Write a java program to check whether a given string is palindrome.
- b. Write a java program for sorting a given list of names in ascending order.
- c. Write a java program to create an abstract class named Shape that contains two integers and an empty method named print Area(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method printArea() that prints the area of the given shape.

Week-4 User Interface

Write a program that creates a user interface to perform integer division. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 and Num2 were not integers, the program would throw a Number Format Exception. If Num2 were zero, the program would throw an Arithmetic Exception Display the exception in a message dialog box.

Week-5

Write a java program that creates menu which appears similar to the menu of notepad application of the Microsoft wind

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Week-6 FILES

- a. Write a java program that reads a file name from the user, and then displays information about whether the file exists, whether the file is readable, whether the file is writable, the type of file and the length of the file in bytes.
- b. Write a java program that displays the number of characters, lines and words in a text file.
- c. Write a java program that reads a file and displays the file on the screen with line number before each line.

Week-7 Lay Out mangers

a. Suppose that table named table.txt is stored in a text file. The first line in the file is the header, and the remaining lines correspond to rows in the table. The elements are separated by commas. Write a java program to display the table using labels in grid layout.

Week-8 | Keyboard Events

Write a java program to handle keyboard events

Week-9 Traffic Light

Write a java program that simulates a traffic light. The program lets the user select one of three lights: Red, Yellow or Green with radio buttons. On selecting a button an appropriate message with "STOP" or "READY" or "GO" should appear above the buttons in selected color. Initially, there is no message shown.

Week-10 | Mouse Events

- a. Write a java program that handles all mouse events and shows the event name at the center of the window when a mouse event is fired. Use adapter classes.
- b. Write a java program to demonstrate the key event handlers.

Week-11 Calculator

Write a java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +,-,*, % operations. Add a text field to display the result. Handle any possible exception like divided by zero.

Week-12 APPLET

- a Develop an applet that displays a simple message.
- b Develop an applet that receives an integer in one text field and computes its factorial value and returns it in another text field, when the button named "compute" is clicked.

Week-13 Mini Project-1

Develop library management system

Week-14 Mini Project-2

Develop CMS system for CREC college

Reference Books:

- 1P. J. Deitel, H. M. Deitel, "Java for Programmers", Pearson Education, PHI, 4th Edition, 2007.
- 2.P. Radha Krishna, "Object Oriented Programming through Java"Universities Press, 2nd Edition,2007
- 3 Bruce Eckel, "Thinking in Java", Pearson Education, 4th Edition, 2006.
- 4 Sachin Malhotra, Saurabh Chaudhary, "Programming in Java", Oxford University Press, 5th Edition.

Web References:

- 1.www.niecdelhi.ac.in
- 2.https://www.linkedin.com/in/achin-jain-85061412
- 3.www.ranklinfotech.com



Chadalewada Remanunuma Engineering Cellogo (AUTONOMOUS)

SOFT SKILLS LABORATORY

III B.Tech I Semes	ter: ME								
Course Code	Category	Hours / Week			Credits	Maximum Marks			
17CA52501	Foundation	L	T	P	C	CIA	SEE	Total	
1101104001				4	2	30	70	100	
Contact Classes: Tutorial Classes: NIL NIL		Pı	actic	al Cl	asses: Nil	Total Classes: 68			

OBJECTIVES:

- 1. This Lab focuses on using multi-media instruction for language development to meet the following targets:
- 2. To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen the English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional
- 3. Further, they would be required to communicate their ideas relevantly and coherently in writing.
- 4. To prepare all the students for their placements.

UNIT-I COMMUNICATIVE COMPETENCE

- 1. Reading Comprehension
- 2. Listening Comprehension
- 3. Vocabulary Development
- 4. Communication Styles and Competencies

UNIT-II WRITING SKILLS

- 1. Report Writing
- 2. Resume Preparation
- 3. E-mail Writing

UNIT-III PRESENTATION SKILLS

- 1. Oral presentation
- 2. Power point presentation
- 3. Informative presentation

UNIT-IV GETTING READY FOR JOB

- 1.SWOT/C Analysis
- 2.Group Discussions
- 3.Interview skills

UNIT-V INTERPERSONAL SKILLS

- 1. Time Management
- 2. Problem Solving & Decision Making
- 3. Etiquettes

Minimum Requirements for SOFT SKILLS Lab:

The Advanced English Communication Skills (AECS) Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- 1. Spacious room with appropriate acoustics.
- Round Tables with movable chairs

3. Audit visual aids

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CAE LABORATORY

Co	urse Code	Category	Hot	ers /	Week	Credits		Maxim Mark			
17	CA03610	Core	L	T	P	C	CIA	SEE	Tot		
Cont	act Classes:	Total Cl. No.	4 2 30 70						10		
	Nil	Tutorial Classes: Nil	Nil Practical Classes: 68 Total Classes: 68 DF EXPERIMENTS								
	•			MEN	TS						
1.	Introduction	to Analysis Software Pac	kage								
2.	Structural an	alysis: (Any Six exercises)				- 77				
Expt. 1	Analysis o	f a rectangular plate with a	hole								
Expt. 2		f a truss member under loa									
Expt. 3		of a bracket plate with axia		_							
Expt. 4	100000000000000000000000000000000000000	f a bracket plate with eccer	The same	0.275	a						
Expt. 3		lysis of Prismatic bar		Jeeding					_		
Expt. 6		lysis of a Corner Bracket			-						
Expt. 7	Carrier and Carrier and Carrier	ysis of beam		_					_		
Expt. 8		Thermally Loaded suppor	t Stru	cture							
Expt. 9	1000	Hinged support member		viui v							
Expt. 10		Tapered plate under trans	verse	load							
3. 1	The second secon	ysis (Any two exercises)									
Expt. 1	Analysis of	a square plate considering	cond	netin	n.						
Expt. 2		a square plate considering	_			anyaction					
Expt. 3		a compound bodies consid									
4. Comp	utational Flui	id Dynamics (Any four ex	ercise	es)	uction	and conve	ction.		_		
xpt_1		he flow of incompressible			o on C	hand for la		1	_		
xpt. 2		he flow of incompressible									
xpt. 3		hat of incompressible water					noutent	now	_		
expt. 4		ir flow over a simple geom					nal (2 T				
xpt. 5		eat transfer from the heate									
xpt. 6	Determine h cylinder).	ow to solve a natural conv	ection	prob	lem (i	angular en n an infinit	ely long	concen	tric		
xpt. 7		quid enters through two in	lets w	ith di	fferent	temperatu	res (mu	ltiphase			

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SOFTWARE TESTING METHODOLOGY

PROFESSIONAL ELECTIVE-1

Course Code	Category	Hot	irs / V	Veek	Credits	Maximum Marks		
17CA05507	Core	L	T	P	C	CIA	SEE	Total
		3	1		3	30	70	100
Contact Classes: 45	Tutorial Classes: 15	Pra	ctical	Class	ses: Nil	Tota	d Classes:	1 7 77.7

Objectives:

The course should enable the students to:

- Understand the concept of software testing objectives, process criteria, strategies and methods.
- Demonstrate various software testing issues and solutions in software like unit test, integration, Regression and system testing.
- Demonstrate the techniques and skills on how to use modern software testing tools to support Software testing projects.
- Understand important concepts of complexity metrics and object oriented metrics.

UNIT-I INTRODUCTION TO TESTING

Classes: 10

Introduction: Purpose of testing, dichotomies, model for testing, consequences of bugs, taxonomy of bugs. Flow graphs and path testing: Basics concepts of path testing, predicates, path predicates and achievable paths, path sensitizing, path instrumentation, application of path testing.

UNIT-II TRANSACTION FLOW TESTING

Classes: 08

Transaction flow testing: Transaction flows, transaction flow testing techniques, dataflow testing, basics of dataflow testing, strategies in dataflow testing, application of dataflow testing.

UNIT-III DOMAIN TESTING

Classes: 09

Domain testing: Domains and paths, nice and ugly domains, domain testing, domains and interfaces testing, domain and interface testing, domains and testability.

Logic based testing: Overview, decision tables, path expressions, kv charts, and specifications.

PATH PATH PRODUCTS AND REGULAR EXPRESSION UNIT-IV

Classes: 08

Paths, path products and regular expressions: Path products and path expression, reduction procedure, applications, regular expressions and flow anomaly detection.

UNIT-V TRANSITION TESTING

Classes: 10

State, state graphs and transition testing: State graphs, good and bad state graphs, state testing, testability tips.

Text Book:

Boris Beizer, "Software Testing Techniques", Dream Tech Press, 2nd Edition, 2003.

Reference Books:

- P. C. Jorgenson, "Software Testing: A Craftmen's Approach", Auerbach Publications, 3rd Edition,
- Perry, "Effective Methods of Software Testing", John Wiley, 2nd Edition, 1999

Nagesware Ray, "Software Testing Concepts and Tools", DreamTech Press, 20 Edition, 2007 Chadalawada Ramanana Chadalawada Chadalawada Ramanana Chadalawada Chadalaw

(AUTONOMOUS)

Web References:

- over y questional com/?q=Software Test Metrics
- /softwaretestingfundamentals.com/unit-testing/

Draw a state chart diagram for

- Passport Automation System
- Book bank management system
- Online course reservation system

Exp-7

STATE CHART DIAGRAM

- Foreign trading system
- Conference Management System
- BPO Management System

Exp-8

ARCHITECTURE DIAGRAM

Identify the User Interface, Domain objects, and Technical services.

Exp-9

ARCHITECTURE DIAGRAM

Draw the partial layered, logical architecture diagram with UML package diagram notation

Exp-10

COMPONENT DIAGRAM

Draw a Component diagram for

- Passport Automation System
- Book bank management system
- Online course reservation system

Exp-11

COMPONENT DIAGRAM

Draw a Component diagram for

- Foreign trading system
- Conference Management System
- BPO Management System

Exp-12

DEPLOYMENT DIAGRAMS

Draw a Component diagram for

- Passport Automation System
- Book bank management system
- Online course reservation system

Exp-13

DEPLOYMENT DIAGRAMS

Draw a Deployment diagram for

- Foreign trading system
- Conference Management System
- BPO Management System

REFERENCE BOOKS

Simon Bennett, Steve Mc Robb and Ray Farmer, "Object Oriented Systems Analysis and Design Using UML", Mc Graw Hill Education, 4th Edition, 2010

Pascal Roques, "Modeling Software Systems Using UML 2", WILEY- Dreamtech India Pvt.

Ltd, 2^{od}

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Edition, 2007.

WEB REFERENCES

- https://www.tutorialspoint.com/uml/uml_overview.html
- https://www.utdallas.edu/~chung/OOAD/M03_1_StructuralDiagrams.ppt https://onedrive.live.com/download?cid=99CBBF765926367



Chadelaweda Romenumma Engineering College (AUTONOMOUS) TIRUPATI

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech IV-II Sem. (CSE)

L T P C 3 1 0 3

15A05804

BUILDING LARGE SCALE SOFTWARE SYSTEMS
(MOOCS-III)

Course Objectives:

To introduce the architecture of large c programs.

- To introduce the concept Case study for design of large C programs using Linux kernel.
- To introduce the tools, technologies & programming languages.

Course Outcomes:

- Student able to understand coupling and cohesion
- Student able to design large c and c++ programs using Linux kernel
- Student able to understand how to design Linux kernel
- Ability to solve various problems related to Object Oriented Software using patterns

Unit I: Architecture of Large C Programs: Coupling and Cohesion concepts, types of cohesion functional, sequential, procedural, temporal, logical and coincidental; types of coupling – data, stamp, control, common, content coupling.

Unit II: Designing Large C programs having good cohesion and coupling; C modulesnotion of separate compilation; Case study for design of large C programs using linux kernel.

Unit III: Tools for building large programs – version control using git and building large programs using make – bug tracking systems – bugzilla.

Unit IV: Building Large C++ programs - Architecture of Large C ++ programs - Coupling and Cohesion of C++ programs, Metrics for measuring the quality of C++ programs, Chidamber and Krammer. Metric suite- MOOD metrics - improving the design of C++ programs; Case study of redesigning Linux kernel into Minimalistic Object Oriented Linux (MOOL).

Unit V: Pattern Oriented Software Architecture: Building object oriented programs using design patterns identification of design patterns in source code- refactoring existing programs into design pattern based programs- case studies of building software with design patterns.

Chedalawada Rumunomma Engineering Callege

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I B. Tech - H Semester: ME

ENGINEERING DRAWING

Course Code	Category Hours/		Week	Credits	Maxin	num Mar	ks	
20CA03201	Core	L	T	P	C	CIA	SEE	Tot al
		1	-	4	3	30	70	100
Contact Classes:17	Tutorial Cl	asses:	Nil	Practi 51	cal Classes:	Total	Classes:	68

OBJECTIVES:

- 1. To know the basics of Engineering Drawing and its applications
- 2. To understand the projection of solids
- 3. To understand the Isometric Projections of Regular Solids
- 4. To analyze the orthographic projections

UNIT-I INTRODUCTION ENGINEERING GRAPHICS & SCALES

Classes:

Introduction to drawing instruments & principles of Engineering Drawing - Conventions in Drawing-Lettering - BIS Conventions. Curves used in Engineering Practice. a) Parabola, Ellipse, Hyperbola and Rectangular Hyperbola (General method only) b) Cycloid, Epicycloid and Hypocycloid. Involute curves (Circle & Polygon).

Scales: Diagonal & Vernier Scales.

UNIT - II PROJECTION OF POINTS & LINES

Classes:

Projection of points, Projection of Lines: Projection of lines parallel to one plane and perpendicular to the other, parallel to both planes, inclined to one plane or both planes, Traces.

UNIT - III PROJECTIONS OF PLANES

Classes:

Projection of planes: Parallel to on plane and perpendicular to the other, perpendicular to both planes, inclined to one or both planes.

UNIT - IV PROJECTIONS & SECTIONS OF SOLIDS

Classes:

15

Projection of solids: Projections of regular solids inclined to one or both planes by rotational or auxiliary views method.

Sections of Solids: Projections of Section of Cylinder, Prism & Pyramids.

UNIT - V ISOMETRIC PROJECTIONS

Classes:

Principles of isometric projection- Isometric scale; Isometric views: planes, simple solids. Conversion of orthographic to isometric view Vice Versa.

Text Books:

- D.M Kulkarni, A.P. Rastogi and A.M. Sarkar, Engineering Graphics with Auto CAD, PHI learning Private Limited, New Delhi 2009.
- K.L.Narayana & P.Kannaiah, Engineering Drawing, 3/e, Scitech Publishers, Chennai, 2012.
- N.D.Bhatt, Engineering Drawing, 53/e, Charotar Publishers, 2016.

References

- Dhanajay A Jolhe, Engineering Drawing: with an introduction to Auto CAD, Tata McGraw-Hill, 2008
- Shab and Rana, Engineering Drawing, 2/e, Pearson Education, 2009

Yenugopal, Engineering Drawing and Graphics, 3/e, New Age Publishers, 2000

K.C.John, engineering Graphics, 2/e, PHI, 2013

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PYTHON PROGRAMMING LAB

II - Semester								
Course C	ode	Category	Ho	urs / W	eek/	Credits	Maxi	mum M
17CF00	206	Core	L	Т	P	C	CIA	SEE
Contact Clas	NIII	Tutorial Classes: Nil	-	- Practica	1 Class	2	40 Tota	60 Classes:
To w To in Use i Repr Read OUTCOME Write Impl Deve	rite, test, a applement Functions for esent complement esent complement esent complement est. e. test, and ement Pythology Python list	nd debug simple Python programs with condor structuring Python programs bound data using Python lideta from/to files in Python debug simple Python programs with condition programs step-wise by des, tuple, dictionaries for re	ditionals rams. sts, tupi on. grams. onals ar efining present	s and lo	onaries	calling them.		
Read Week-1	1	data from/to files in Pythorograms	on.					Classo
Week-2 1. Write a p	Basic Program to	find the factorial of given r rograms find the square root of a nu	ımber (Newton				Class
2. Write a p	rogram to	find the whether the given	numbe	r is prin	ne or no	ot.		Class
Week-3	Victoria - II	rograms						Class
1,7		find the sum of the digits of find the sum of positive an			nbers in	a given set	of numbe	ers.
Week-4	Basic P	rograms						Class
1. Write a p	rogram to	find the maximum of a list	of nun	bers				
Week-5	Search	ing						Class
	rogram to	implement Linear search. implement Binary search.						
Write a p Write a p								Class
1. Write a p 2. Write a p Week-6	Sorting	Į.						
2. Write a p Week-6 1. Write a p	rogram to	implement Selection sort. implement Insertion sort.						Class

Week Sor Page

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(AUTONOMOUS)
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Week-8	Functions	Classes:
1. Write a p	rogram to display Fibonacci numbers using functions.	
Week-9	Matrix	Classes:
1. Write a p	rogram to multiply two matrices.	
Week-10	Files	Classes:
1. Write a p	rogram to create a file and write some text data on the	file. Then display the contents of the fi
Week- 11	Files	Classes:
1. Find the	most frequent words in a text read from a file.	
Week- 12	Graphics	Classes:
1. Simulate	elliptical orbits in Pygame.	
Week-13	Graphics	Classes:
1. Simulate	bouncing ball using Pygame PLATFORM NEEDED	Python 3 interpreter for Windows/Lin
Text Books		
Pythor Reference	3.2, Network Theory Ltd., 2011. Books:	
	3.2, Network Theory Ltd., 2011.	on to Python – Revised and updated
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	DEPARTN	IENT	OF C	OMPU	TER SCIEN	CE AND ENG	GINEERING	
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Course Code	Category	Hou	irs / W	eek	Credits	CIA	SEE	Total
21CD05202	Core	L	T	P	C	CLI		
210.003202	Core	4			4	40	60	100
Classes: 60	Tutorial: Nil	P	ractica	al Clas	sses: Nil		Total Classes: 60	The State of the S

Objectives:

- 1. Optimize business decisions and create competitive advantage with Big Data analytics
- 2. Introducing Java concepts required for developing map reduce programs
- 3. Derive business benefit from unstructured data
- 4. Imparting the architectural concepts of Hadoop and introducing map reduce paradigm
- 5. To introduce programming tools PIG & HIVE in Hadoop echo system.

Outcomes:

- 1. Understand what Big Data is and why classical data analysis techniques are no longer adequate.
- 2. Understand the benefits that Big Data can offer to businesses and organizations.
- 3. Understand conceptually how Big Data is stored.
- 4. Understand how Big Data can be analyzed to extract knowledge.

UNIT-I Big Data

10Hrs

What is Big Data, Characteristics of Big data, Introduction to Hadoop, Brief History, Why Hadoop, Working with Big Data: Google File System, Hadoop Distributed File System (HDFS).

UNIT-II HDFS 14Hrs

The Design of HDFS, HDFS Concepts, Blocks, Name nodes and Data nodes HDFS Federation HDFS High-Availability, The Command-Line Interface, Basic File system Operations, Hadoop File systems, Interfaces, The Java Interface, Reading Data from a Hadoop URL, Reading Data Using the File System API, Writing Data, Directories, Querying the File System, Deleting Data Data Flow, Anatomy of a File Read, Anatomy of a File Write, Coherency Model.

UNIT-III MapReduce

12Hrs

Writing MapReduce Programs: A Weather Dataset, Understanding Hadoop API for MapReduce Framework, Basic programs of Hadoop MapReduce: Driver code, Mapper code, Reducer code, RecordReader, Combiner, Partitioner.

UNIT-IV HIVE

12Hrs

The Hive Shell, Running Hive, Configuring Hive, Hive Services, The Metastore, Comparison with Traditional Databases, Schema on Read Versus Schema on Write, HBasics, Implementation, Java and MapReduce clients, Loading data, web queries.

UNIT-V

PIC

12Hrs

Installing and Running Pig. Execution Types, Running Pig Programs, Grunt, Pig Latin Editors An Example, Generating Examples, Comparison with Databases, Pig Latin, Structure, Statements Examples, Types College Schemas, Parections, Macros Ser-Defined Functions, A Filter UDF, An Eyal UDF Asserted Types College Schemas, Parections, Macros Ser-Defined Functions, A Filter UDF, An Eyal UDF Asserted Types (1986)

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Course Code	Category	Hou	irs / V	Veek	Credits	CIA	SEE	Total
21CD05203	Com	I.	T	P	C	Cars.		
410.003203	Core	4			4	40	60	100
Classes: 60	Tutorial: Nit	P	ractic	al Clas	sses: Nil	3	otal Classes: 60	The state of the s

Objectives:

The course should enable the students to:

- 1. Understand the architecture of Internet of Things and connected world.
- 2. Explore on use of various hardware and sensing technologies to build IoT applications.
- 3. Illustrate the real time IoT applications to make smart world.

Outcomes:

- Interpret the vision of IoT from a global context.
- Determine the Market perspective of IoT.
- 3. Compare and Contrast the use of Devices, Gateways and Data Management in IoT.
- 4. Implement state of the art architecture in IoT.
- 5. Illustrate the application of IoT in Industrial Automation and identify Real World Design

UNIT-I Introduction to Internet of Things(IoT)

12Hrs

Definition and characteristics of IoT, physical design of IoT, logical design of IoT, IoT enabling technologies, IoT levels and deployment, domain specific IoTs.

UNIT-II IoTand M2M

12Hrs

Introduction, M2M, difference between IoT and M2M, software defined networking (SDN) and network function virtualization (NFV) for IoT, basics of IoT system management with NETCONF-YANG.

UNIT-III IoT Architecture and Python

12Hrs

IoT Architecture: State of the art introduction, state of the art; Architecture reference model: Introduction, reference model and architecture, IoT reference model.

Logical design using Python: Installing Python, Python data types and data structures, control flow, functions, modules, packages, file handling.

UNIT-IV IoT Physical Devices and Endpoints

12Hrs

Introduction to Raspberry Pi interfaces (Serial, SPI, 12C), programming Raspberry PI with Python, other IoT devices.

UNIT-V IoT Physical Servers and Cloud Offerings

12Hrs

Introduction to cloud storage models and communication APIs; WAMP: AutoBahn for IoT, Xively cloud for IoT; Case studies it instrating to T design: Home automation, smart cities, smart environment.

Text Books:/>

1. Arshdeep Banga, Vijay Madisak "Internet of Things: A Hands-on-Approach", VPT 1* 2014. 2.Matt Shandson, Shawa Vallace, "Getting Started with Raspherry Pi", O"Railly R

2014. 2, Matth Shardson, Shawn Sallace, "Getting Started with Raspberry Pi", O"Reilly Edition, 2014.

(AUTONOMOUS)

MAP REDUCE PROGRAMMING LAB

I Semester								
Course Code	Category	Н	ours/We	ek	Credits	M	aximum	Marks
17CD05213	Core	L	T	P	C	CIA	SEE	Total
17000213	Core	2 20		4	2	40	60	100
Contact Classes: Nil	Tutorial Classe	s: Nil	Pract	ical Cla	sses: 48	1	otal Clas	ses:48

Objectives:

- Introduce students the concept and challenge of big data (3 V's: volume, velocity, and variety).
- Teach students in applying skills and tools to manage and analyze the big data

Outcomes:

- Understand the concept and challenge of big data and why existing technology is inadequate to analyze
 the big data;
- · Collect, manage, store, query, and analyze various form of big data; and
- Gain hands-on experience on large-scale analytics tools to solve some open big data problems;
- Understand the impact of big data for business decisions and strategy.

Week-1	Getting Started with MapReduce and Hadoop
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Loading an existing Eclipse project,

Week-2 Examining a simple MapReduce Class: Word Counting

During operation, multiple instances of the Map and Reduce classes will be made, where each can be run on different machines are to be created.

Week-3 Compiling the Word Counting Example and running it Locally

The word counting example translates into a map and reduce tasks, we will now compile the Word Counting example and run it on your local machine.

Week-4 Running Word Counting on a Remote Cluster

Running a MapReduce job on Amazon.

Week-5 Top Hashtag Identification

To modify a MapReduce job and how to use the configure and close methods to make use of stateful tasks. In particular, you will take the code of the word counting example from the previous task and modify it to find the top 10 hashtags from the input corpus.

Week-6 Indexing English Tweets

You will learn how to use external jar files with a project, use additional resources and change the output format of a MapReduce job. In particular, this exercise is focused on using a MapReduce job to build an index of English tweets from a generic tweet sample. You will create a map task that will classify incoming tweets as English or not and create a new output format for Hadoop that will write the classified documents in a format that a search engine(the Terrier IR Platform) can understand.

References:

- http://wireless.ictp.it/school_2015/labs/Lab1.pdf
- https://cs.calvin.edu/courses/cs/374/exercises/12/lab/
- http://cecs.wright.edu/~pmateti/Courses/7380/Lectures/Hadoop/hadoop-lab.html

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Chadalawada Ramanamma Engineering Callego (AUTONOMOUS) TIRUPATI



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (Autonomous) Chadalawada nagar, Renigunta Road, Tirupathi-517502

ENGLISH FOR PROFESSIONAL COMMUNICATION

Course code	Category	Hour	s/wee	ek	Credits	1	Maximu	m Marks
17CA52201	Foundati	L	T	P	C	CIA	SEE	TOTAL
	on	3	1	-	3	30	70	100
Contact Classes:45 OBJECTIVES:	Tutorial Cl	asses: 15	Prac	tical Cla	sses: Nil		Total Cla	asses:60
II. Introduce st III. Maintain lin UNIT-I TEXT: Impor	tion in an inte udents' elem guistic compe tance of Histo	elligible En ents of Gra etence thro LESSONS ory-Differin	glish a amma ough t FROM	r and Co raining A THE Parspective	omposition o in Vocabular AST es-Modern Co	f English v, senten orporatis	ce struc C m-Lesso	tures.
VOCABULAI UNIT-II	RY: Phrasal Ve	rbs.		NERGY		Compan		lasses:10
	ar Energy.							
VOCABULAR UNIT-III	Direct and In Y: Idioms.			O TOUR	ISM			lacco00
VOCABULAR UNIT-III TEXT: Advan India GRAMMAR:		TRAVE advantage Sentences.	L ANI	D TOUR ravel-To		Devo Bl		lasses:09 urism in
VOCABULAR UNIT-III TEXT: Advan India GRAMMAR:	tages and dis	TRAVE advantage Sentences. Iriting	s of Ti		urism-Atithi	Devo Bl	nava-Toi	
VOCABULAR UNIT-III TEXT: Advan India GRAMMAR: COMPOSITI UNIT-IV TEXT: SWOT GRAMMAR: COMPOSITI	tages and dis	TRAVE advantage Sentences. friting GET panies and Simple, Co	s of Tr	JOB-REA s of Pow	ADY vering Growt Complex.		nava-Toi	urism in
VOCABULAR UNIT-III TEXT: Advan India GRAMMAR: COMPOSITI UNIT-IV TEXT: SWOT GRAMMAR: COMPOSITIO UNIT-V	tages and dis- conditional S ON: Report W analysis-Com Connectives-	TRAVE advantage Sentences. Friting GET panies and Simple, Com Witae wi	TING.	JOB-REA s of Pow and and vering Li	ADY vering Growt Complex. etter.		C ing for I	urism in

DIRECTOR Chadalawada Ramunanuma Engineering Callage (AUTONOMOUS) THRUPATI

FUNCTIONAL ENGLISH

Course co	de	Category	Hours/	week		Credits	Maxir	num Ma	irks
17CA5210	1	Foundation	L	T	P	C	CIA	SEE	TOTAL
			3	-		3	30	70	100
Contact C	lasses:51	Tutorial Cl	asses: -	Pra Nil	ctica	l Classes:	100		asses:51
OBJECTI The cours I. II. III.	e should e Communi Introduce	nable the stu- cation in an in students" elen inguistic com	telligible nents of	Eng Gram	mar	and Compos	sition of	English	language. e structures.
UNIT-I	EMERG	ING TECHN	OLOG	IES					Classes:10
GRAMM	AR: Introd	I Power-Clou uction to Parts nonyms and	of Spee	ch, T	Nanc ypes	Technolog of Nouns ar	y nd Prono	ouns	
UNIT-II	SPACE								Classes:10
TEXT: Ch GRAMMA VOCABUI UNIT-IV	ild labour- AR: Article LARY: Ho MEDIA	L ISSUES Food crises-Ges, Preposition omographs, Homographs	is omophor	ies, H	omo	nyms			Classes:10
GRAMMA	ent media- AR: Tenses ITION: O						ia-Manij	oulation	by media-
EXT: Bir		od-Education					of Mys	ore	C1463C3.11
FRAMMA	R: Modal:	s, Subject – V ragraph writir	erb Agre	emen	t		i or mys	010	
	APES- OF	RIENT BLAC				2010			
Reference I English C Word por	Grammar ir	n use -Raymor Easy- Norman	nd Murpl Lewis.	ny.					
.https://www	w.edufind w.myengli	com ishpages.com penglish.com							

E-Text Books;

1. https://www.e-bookboor.com/en/communication-ebooks-zip.

2. https://www.learning.orglishvocabularygrammar.com/filesid.org/ptp/proseswithmeaningsandexamplespdf.pdf

Chadaluvesés Remonumma Engineering College

(AUTONOMOUS)

ENGINEERING & I.T. WORKSHOP

Course Code	Category	Hou	rs/W	eek	Credits	Maximum Marks			
17CA03203	Foundation	L	T	P	C	CIA	SEE	SEE Tota	
170703203	roundation	-	-	4	2	30	70	100	
Contact Classes: Nil	Tutorial Class	ses: N	il	Practic	cal Classes: 68	Total	Classes		

OBJECTIVES:

- Identify and use of tools, types of joints in carpentry, fitting, tin smithy welding and foundry
 operations.
- Understand of electrical wiring and components.

Any 10 of the following experiments has to be performed during the I year II Sem.

CARPENTRY	
Expt. 1	Preparation of dove tail joint as per given taper angle.
Expt. 2	Preparation of lap joint as per given dimensions.
Expt. 3	Preparation of Cross Lap joint as per given taper angle.
FITTING	
Expt. 4	Make a square fit for given sizes.
Expt. 5	Make a V Joint for given dimensions.
Expt. 6	Make a half round fit for given dimensions,
TIN SMITHY	
Expt. 7	Prepare the development of a surface and make a rectangular tray.
Expt. 8	Prepare the development of a surface and make a round tin.
FOUNDRY	
Expt. 9	Prepare a single pattern pattern.
Expt. 10	Prepare a double pattern pattern.
WELDING	
Expt. 11	Preparation of V butt joint
Expt. 12	Preparation of Lap joint
Expt. 13	Preparation of T fillet joint
D. C	

References:

- K. C. John, "Mechanical Workshop Practice", PHI, 2nd Edition, 2010.
- H.S. Bawa, "Workshop Practice", Tata McGraw Hill Publishing Company Limited, 2nd Edition 2009.
- S. K. Hajra Choudhury, A. K. Hajra Choudhury, "Elements of Workshop Technology", Media Promoters, 1st Edition, 2009.
- 4. Engineering Work shop practice for JNTU, V. Ramesh Babu, VRB Publishers Pvt. Ltd., 2009
- 5. Work shop Manual / P.Kannaiah/ K.L.Narayana/ SciTech Publishers.

LT. WORKSHOP

OBJECTIVES:

- 1. Learning about the Computer internal components.
- 2. Practice on operating system installation and configuration settings.
- 3. Prepare productivity tools like word processors, spreadsheets, presentations.

Task 1 Learn about computer internal parts & Peripherals.

Task 2 Assembling & Disassembling a Computer.



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CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(AUTONOMOUS)

(Affiliated to INTUA, Approved by AICTE, New Delhi and Accredited by NAAC 'A' Grade)
Tirupati – 517506, Chittoor Dt. Andhra Pradesh.

Business Comunication Lab - I

		II MBA III Semester :								
Course Code	Category	Н	ours/We	ek	Credits	N	Maximum N	farks		
14CE00108	Foundation	L	T	P	C	Internal	External	Total		
	ass say	3	-		4	40	60	100		
Contact classes:50	Tutorial Classes:15	Practical classes: Nil				Total cla	sses:65			

Course Description: Aim is to enable students understand how to write business letters and improve written communication.

Course Objectives:

- English language skills for effective written business communication ('s).
- Will be able to understand how to write project report.

Unit-I	Business Writing	Classes: 9
Introduction	, Importance of Written Business Communicati	on, Direct and Indirect Approached to
Business Me	essages, Five Main Stages of Writing	

Unit - II	Business Correspondence Classes: 9
Introduction,	Business Letter Writing, Effective Business Correspondence, Common Components
of Business	Letters, Strategies for Writing the Body of a Letter, Kinds of Business Letters,
Writing Effect	tive Memos, Practice Exercises.

Unit - III	Instruction	15				Classes: 9			
Instructions:	Introduction,	Written Instructions,	General	Warning,	Caution	and Dange	r, Format		
Instructions.	Oral Instructi	ons, Audience Analys	sis. Produ	et Instruc	tions Pr	actice Exer	rises		

Unit – IV Business Reports and Proposals			
Business Reports	and Proposals: Introduction, What is a Report, Steps in Writing a	Routine	
Business Report, I	arts of a Report, Corporate Reports, Business Proposals.		

Unit - V	Careers and Resumes	Classes: 9
Careers and	Resumes: Introduction, Career Building, Understan	iding yourself, setting a career
goal, job sear	rch / looking at various options, preparing your resun	ne, resume formats, traditional,
electronic and	d video resumes, online recruitment process. Write you	ir resume to market yourself.

Reference:

- 1. Lesikar: Basic Business Communication, TMH.
- 2. Stephen Bailey, Academic Writing for International Students of Business, Routledge.
- 3. David Irwin: Effective Business Communications, Viva-Thorogood.
- 4. Rajendra Pal, J S KorlahaHi: Essentials of BusinessCommunication:Sultanchand
- Sailesh Sengupta, Business and Managerial Communications, PHI.

Mode of evaluation: Assignments, Lab, Mid Examinations.

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CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

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(Affiliated to JNTUA, Approved by AICTE, New Delhi and Accredited by NAAC 'A' Grade) Tirupati - 517506, Chittoor Dt. Andhra Pradesh.

Business Analytics Lab

		1 MBA II Semester :								
Course Code	Category	Н	ours/We	ek	Credits	7	Maximum M			
17CE00208	Foundation	I.	T	P	C	Internal	External	Total		
1/CE00208	- Manual Coyen	4	-	-	4	40	60	100		
Contact classes:50	Tutorial Classes:15	Practical classes: nil				Total cla	sses:65			

Course Description:

The course is designed to understand the providing conceptual understanding of Business analytics under various functions of management. This will enable the students to study the various concepts related to applications of analytics and enabling them to apply the concepts in the management organization.

Course Objectives:

- ✓ To understand the basic concepts of business analytics.
- √ To learn financial, marketing experiments
- ✓ To learn HRM, systemes experiments
- ✓ To understand the concepts of Information Technology

UNIT-I	Introduction	to	Business	Analytics	-	Accounting	Classes: 10
2001211212121	experiments	30100					

Introduction to Business Analytics - functions - concepts, Creation of company Preparation of Ledger - Posting Trial Balance - Profit and Loss Account - Balance sheet sole traders.

UNIT - II Financial Experiments Classes: 10 Capital budgeting decisions - Calculations of NPV - Calculations of IRR

Calculations of Profitable Index UNIT - III

Classes: 10

Storing and retrieving of data of customers - Storing and retrieving of data of sales - Storing and retrieving of data of dealers - products and geographical areas (Tables and Graphs)

UNIT - IV HRM Experiments

Classes: 10

Creation of Employees data base - Demonstrating the salary administration

UNIT - V Systems Experiments Classes: 10

Understanding the Information Systems - Design of MIS - Overview of Internet and Internet tools.

Reference:

1. Ms Office-Sanjay Saxena

Ms Office Excel-Frye, PHI publications

Mr-Office Access- Step by step, PHI publications

Marketing Experiments

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TECHNICAL COMMUNICATION SKILLS

- Semester									
Course Code	Category	Ho	urs / W	eek	Credits	Maximum Marks			
17CF52101	Foundation	L	LT	P	C	CIA	SEE	Total	
	roundation	4	. 3	-	4	40	60	100	
Contact Classes: 45	Tutorial Classes: 15	Practical Classes: Nil			es: Nil	Total Classes: 60			

Course Objectives:

- To develop awareness in students of the relevance and importance of technical communication and presentation skills.
- · To prepare the students for placements
- · To sensitize the students to the appropriate use of non-verbal communication
- · To train students to use language appropriately for presentations and interviews
- · To enhance the documentation skills of the students with emphasis on formal and informal writing

COURSE OUTCOMES

- · Become effective technical communicators
- · Be job-ready and able to face interviews confidently
- · Sensitive use of non-verbal language suitable to different situations in professional life
- Learn and use keys words, phrases and sentence structures making a mark in interviews and presentation skills
- Effective writing skills with the ability to use different styles for different situations

Unit-I	Classes: 08
Basics of Communic communica	Technical Communication – Introduction – Objectives & Characteristics of Technical ation – Importance and need for Technical communication - LSRW Skills – Barriers to effective tion
Unit-II	Classes: 10
Informal : Chronemic	and Formal Conversation - Verbal and Non-verbal communication -Kinesics, Proxemics, k, Haptics, Paralanguage
Unit-III	Classes: 08
writing -A	mmunication – Differences between spoken and written communication – Features of effective dvantages and disadvantages of spoken and written communication- Art of condensation- g and paraphrasing
Unit-IV	Classes: 10
audience -	n Skills – Nature and importance of oral presentation – Defining the purpose – Analyzing the Panning and preparing the presentation, organizing and rehearsing the presentation – Individual resentations - Handling stage fright

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Chadalawada Ramanamma Engineering College (AUTONOMOUS)

INTERNET OF THINGS

PROFESSIONAL EL	ECTIVES III							
Course Code	Category	He	ours / W	eek	Credits	Maximum Marks		
17CD04205	Core	L	T	P	C	CIA	SEE	Total
170004203		4	0	-	4	40	60	100
Contact Classes: 60	tact Classes: 60 Tutorial Classes: Nil		Pract	ical Cl	asses: Nil	Total Classes: 60		
OUTCOMES:						-		MANUSTIK.

- Able to understand the application areas of IOT
- Able to realize the revolution of Internet in Mobile Devices, Cloud &Sensor Networks
- Able to understand building blocks of Internet of Things and characteristics

UNIT - I	INTRODUCTION & CONCEPTS									Classes: 10		
	to Internet of s, IOT Levels	Things,	Physical	Design	of	IOT,	Logical	Design	of	IOT,	ЮТ	Enabling

UNIT - II	DOMAIN SPECIFIC IOTS	Classes: 15
	ation, Cities, Environment, Energy, Retail, Logistics, Agriculture, Indus	try, Health & Life
Style		

M2M & SYSTEM MANAGEMENT WITH NETCONF-YANG UNIT - III Classes: 10 M2M, Difference between IOT and M2M, SDN and NFV for IOT, Software defined Networking, Network Function Virtualization, Need for IOT Systems Management, Simple Network Management Protocol, Limitations of SNMP, Network Operator Requirements, NETCONF, YANG, IOT Systems management with NETCONF-YANG

UNIT - IV	DEVELOPING INTERNET OF THINGS & LOGICAL	Classes 10			
UNII - IV	DESIGN USING PYTHON	Classes: 10			
forten decestion 1	OF D. J. M. J. L. H. G. J. D. J. S. S.				

Introduction, IOT Design Methodology, Installing Python, Python Data Types & Data Structures, Control Flow, Functions, Modules, Packages, File Handling, Date/ Time Operations, Classes, Python Packages

UNIT - V		10	T PHYSICA	PHYSICAL DEVICES & ENDPOINTS							Classes: 15		
What is an	IOT	Device,	Exemplary	Device,	Board,	Linux	on	Raspberry	Pi,	Interfaces,	and		
Programming	& 10	Devices						第 第					

Text Books:

VijayMadisetti, ArshdeepBahga," Internet of ThingsA Hands-On- Approach",2014, ISBN:978 0996025515

Reference Books:

- 1. AdrianMcEwen, "Designing the Internet of Things", Wiley Publishers, 2013, ISBN:978-1-118-
- Daniel Kellmereit, "The Silent Intelligence: The Internet of Things". 2013, ISBN 0989973700



Chadalawada Ramanamma Engineering College (AUTONOMOUS) TIRUPATI

CNC TECHNOLOGY & PROGRAMMING

Cours	e Code	Category	He	ours /	Week	Credits	M	aximum	imum Marks		
21CD	03203	Core	L	T	P	C	CIA	SEE	Total		
			4.		÷	4	40	60	100		
Contact C	lasses: 64	Tutorial Classes: Nil	I	racti	cal Clas	ses: Nil	To	tal Classe	s: 64		
UNIT-I	Introducti	on to CNC Machine tools			Clas	ses : 14					
Working pr Constructio drives, Slide Accessories (ATC),	inciple of CN nal features o e ways, Ball s s: Work table	s, Spindles, Spindle heads,	nters. oducti	on, Sp	oindle dr	ives, Transn	nission be	lting, axe	s feed nger		
UNIT-II	FEEDBAG	FEEDBACK DEVICES							ses : 14		
encoders, N Electro-ma Resolvers, I	loire fringes, gnetic analog nductors, Las	duction, Digital incrementa Digital absolute measuring gue position transducers: ser interferometer.	syste Princ	m. iple, a				nchros, S	ynchro-		
UNIT-III	CONTRO	L SYSTEMS AND INTE	RFA	CE				Clas	ses : 14		
systems, blo	ock diagram o	AND INTERFACE : Ope of typical CNC system, desc CNC control systems.									
UNIT-IV	APT Prog	ramming						Clas	Classes: 14		
patterns and continuous	l matrices. AF path motion c	T language structure, APT T motion commands: setup commands, post processor of for typical examples.	p com	mand	s, point-	to point mot	tion comn	ands,			
UNIT-V	ECONOM	IICS AND MAINTENAN	CE C)F CN	NC MA	CHINE TO	OLS	Clas	ses : 12		
machines, C	lost of operati	nce of CNC machine tools ion of CNC machines, Mai tion, Spare parts, Training	ntena	nce fe	atures o						
Text Books	1										
2.Computer		ontrol Machines – Dr.Radi ontrol Machines – Hans B.					ok Agenc	y			
Reference l	Books:										
CNICAG	chinae _ D C	Aditahn and Pabla									

2.CNC Machining technology - Springer - Verlag 3.Computer Numerical Machine tools - G.E. Thyer, NEWNES



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(AUTONOMOUS)

TIRUPATI

MAP REDUCE PROGRAMMING LAB

I Semester								
Course Code	Category	H	ours/We	ek	Credits	Maximum Marks		
100000010	W.000	L	T	P	C	CIA	SEE	Total
17CD05213	Core	-		4	2	40	60	100
Contact Classes: Nil	Tutorial Classes: Nil		Practical Classes: 48			Total Classes:48		

Objectives:

- Introduce students the concept and challenge of big data (3 V's: volume, velocity, and variety).
- Teach students in applying skills and tools to manage and analyze the big data

Outcomes:

- Understand the concept and challenge of big data and why existing technology is inadequate to analyze
 the big data;
- Collect, manage, store, query, and analyze various form of big data; and
- · Gain hands-on experience on large-scale analytics tools to solve some open big data problems;
- · Understand the impact of big data for business decisions and strategy.

Week-1	Getting Started with MapReduce and Hadoop
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Loading an existing Eclipse project,

Week-2 Examining a simple MapReduce Class: Word Counting

During operation, multiple instances of the Map and Roduce classes will be made, where each can be run on different machines are to be created.

Week-3 Compiling the Word Counting Example and running it Locally

The word counting example translates into a map and reduce tasks, we will now compile the Word Counting example and run it on your local machine.

Week-4 Running Word Counting on a Remote Cluster

Running a MapReduce job on Amazon.

Week-5 Top Hashtag Identification

To modify a MapReduce job and how to use the configure and close methods to make use of stateful tasks. In particular, you will take the code of the word counting example from the previous task and modify it to find the top 10 hashtags from the input corpus.

Week-6 Indexing English Tweets

You will learn how to use external jar files with a project, use additional resources and change the output format of a MapReduce job. In particular, this exercise is focused on using a MapReduce job to build an index of English tweets from a generic tweet sample. You will create a map task that will classify incoming tweets as English or not and create a new output format for Hadoop that will write the classified documents in a format that a search engine(the Terrier IR Platform) can understand.

References:

- http://wireless.ictp.it/school 2015/labs/Lab1.pdf
- https://cs.calvin.edu/eourses/cs/374/exercises/12/lab/
- http://cecs.wright.edu/~pmateti/Courses/7380/Lectures/Hadoop/hadoop-lab.html

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(AUTONOMOUS)
TIRUPATI

MANUFACTURING TECHNOLOGY LABORATORY

II B.Tech III Semester	r: ME								
Course Code	Category	Hours / Week			Credits	Maximum Marks			
		L	T	P	C	CIA	SEE	Tota	
17CA03306	Core		-	4	2	30	70	100	
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: (ses: 68	Total Classes: 68			

OBJECTIVES:

The course should enable students to

The students shall also introduce the basic concepts of casting, pattern preparation, gating system and knowledge on basic features of various welding and cutting processes.

LIST OF EXERCISES

S.No.1	METAL CASTING LAB						
	 a. Pattern Design and making - for one casting drawing. b. Sand properties testing - Exercise -for strengths, and permeability - 1 c. Moulding: Melting and Casting - 1 Exercise 						
S.No.2	WELDING LAB						
	a. Arc Welding: Lap & Butt Joint - 2 Exercises b. Spot Welding - 1 Exercise c. GTAW Welding - 1 Exercise d. Brazing & Soldering - 2 Exercises						
S.No.3	MECHANICAL PRESS WORKING						
	Blanking & Piercing operation and study of simple, compound and progressive press tool. Hydraulic Press: Deep drawing and extrusion operation. Bending and other operations						
S.No.4	PROCESSING OF PLASTICS						
	a. Injection Moulding b. Blow Moulding						

Note: Minimum of 12 Exercises need to be performed

TEXT BOOKS:

- 1. P. N. Rao, "Manufacturing Technology", Vol:1, Tata Mc Graw Hill, 2nd Edition, 2013.
- Hajra Chowdhary, "Workshop Technology", Asia Publishing House, 2nd Edition, 2008.

REFERENCE BOOKS:

- Sarma P C, "Production Technology", S.Chand & CO, New Delhi, 7th Edition, 2006.
- R. K. Jain, "Production Technology", Khanna Publishers, 18th Edition, 2013.
 T. V. Ramana Rao, "Metal Casting", New Age, 1st Edition, 2010.
- 4. Philips Rosenthal, "Principles of Metal Castings", Tata McGraw Hill, 2nd Edition, 2001.
- 5. B. S. Raghuwamshi, "A Course in Workshop Technology", Dhanpat Rai & Sons, 2014.
- 6. Kalpakjain S, "Manufacturing Engineering and Technology", Pearson Education, 7th Edition,



Chadalawadu Ramanamma Lagineering Cellege (AUTONOMOUS) TIRUPATI

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-I Sem. (ME)

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Chadelawada Ramanamuma Engineering College*
(AUTONOMOUS)

TIRUPATI

15A03506 NANO TECHNOLOGY (MOOCS-I)

Course objective

On successful completion of the course, students should be able to: Understand the basic cientific concepts of nanoscience. Understand the properties of nano materials, characterization of materials, synthesis and fabrication. Understand the applications of nano technology in various science, engineering and technology fields.

UNIT-I

INTRODUCTION: History of nano science, definition of nano meter, nano materials, nano technology. Classification of nano materials. Crystal symmetries, crystal directions, crystal planes. Band structure.

PROPERTIES OF MATERIALS:

Mechanical properties, electrical properties, dielectric properties, thermal properties, magnetic properties, opto electronic properties. Effect of size reduction on properties, electronic structure of nano materials.

UNIT-II

SYNTHESIS AND FABRICATION: Synthesis of bulk polycrystalline samples, growth of single crystals. Synthesis techniques for preparation of nano particle – Bottom Up Approach – sol gel synthesis, hydro thermal growth, thin film growth, PVD and CVD; Top Down Approach – Ball milling, micro fabrication, lithography. Requirements for realizing semiconductor nano structures, growth techniques for nano structures.

UNIT-III

CHARECTERIZATION TECHNIQUES: X-Ray diffraction and Scherrer method, scanning electron microscopy, transmission electron microscopy, scanning probe microscopy, atomic force microscopy, piezoresponse microscopy, X-ray photoelectron spectroscopy, XANES and XAFS, angle resolved photoemission spectroscopy, diffuse reflectance spectra, photoluminescence spectra, Raman spectroscopy.

UNIT-IV

CARBON NANO TECHNOLOGY:

Characterization of carbon allotropes, synthesis of diamond – nucleation of diamond, growth and morphology. Applications of nano crystalling diamond films, grapheme, applications of carbon nano tubes.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-II Sem. (ME)

15A52602 ADVANCED ENGLISH LANGUAGE COMMUNICATION SKILLS (AELCS) LAB (Audit Course)

1. INTRODUCTION

With increased globalization and rapidly changing industry expectations, employers are looking for the wide cluster of skills to cater to the changing demand. The introduction of the Advanced Communication Skills Lab is considered essential at 3rt year level. At this stage, the students need to prepare themselves for their careers which may require them to listen to, read, speak and write in English both for their professional and interpersonal communication in the globalised context.

The proposed course should be a laboratory course to enable students to use 'good' English and perform the following:

- Gathering ideas and information and to organise ideas relevantly and coherently.
- Engaging in debates.
- Participating in group discussions.
- Facing interviews.
- Writing project/research reports/technical reports.
- Making oral presentations.
- Taking part in social and professional communication.

2. OBJECTIVES:

This Lab focuses on using multi-media instruction for language development to meet the following targets:

- To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen to English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional contexts.
- Further, they would be required to communicate their ideas relevantly and coherently in writing.
- To prepare all the students for their placements.

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3. SYLLABUS:

The following course content to conduct the activities is prescribed for the Advanced English Communication Skills (AECS) Lab:

UNIT-I: COMMUNICATION SKILLS

- 1. Reading Comprehension
- 2. Listening comprehension
- Vocabulary Development
- Common Errors

UNIT-II: WRITING SKILLS

- 1. Report writing
- Resume Preparation
- E-mail Writing

UNIT-III: PRESENTATION SKILLS

- Oral presentation
- Power point presentation
- Poster presentation

UNIT-IV: GETTING READY FOR JOB

- 1. Debates
- Group discussions
- Job Interviews

UNIT-V: INTERPERSONAL SKILLS

- 1. Time Management
- 2. Problem Solving & Decision Making
- Etiquettes

4. LEARNING OUTCOMES:

- Accomplishment of sound vocabulary and its proper use contextually
- Flair in Writing and felicity in written expression.
- Enhanced job prospects.
- Effective Speaking Abilities

5. MINIMUM REQUIREMENT:

The Advanced English Communication Skills (AECS) Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- Round Tables with movable chairs
- Audio-visual aids
- LCD Projector
- Public Address system

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- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed – 2.8 GHZ
- T. V, a digital stereo & Carncorder
- Headphones of High quality

6. SUGGESTED SOFTWARE:

The software consisting of the prescribed topics elaborated above should be procured and G

- 1. Walden Infotech: Advanced English Communication Skills Lab
- K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)
- 5. Train2success.com

7. BOOKS RECOMMENDED:

- Objective English for Competitive Exams, Hari Mohana Prasad, 4th edition, Tata Mc Graw Hill.
- Technical Communication by Meenakshi Raman & Sangeeta Sharma, O U Press 3rd Edn. 2015.
- Essay Writing for Exams, Audrone Raskauskiene, Irena Ragaisience & Ramute Zemaitience, OUP, 2016
- 4. Soft Skills for Everyone, Butterfield Jeff, Cengage Publications, 2011.
- Management Shapers Series by Universities Press (India) Pvt Ltd., Himayatnagar, Hyderabad 2008.
- Campus to Corporate, Gangadhar Joshi, Sage Publications, 2015
- Communicative English, E Suresh Kumar & P.Sreehari, Orient Blackswan, 2009.
- 8. English for Success in Competitive Exams, Philip Sunil Solomon OUP, 2015

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech IV-I Sem. (CSE)

L T P C

15A05703 MOBILE APPLICATION DEVELOPMENT

Course Objectives:

To understand fundamentals of android operating systems.

Illustrate the various components, layouts and views in creating android applications

To understand fundamentals of android programming.

Course Outcomes:

- Create data sharing with different applications and sending and intercepting SMS
- Develop applications using services and publishing android applications.
- To demonstrate their skills of using Android software development tools

Unit 1: Introduction to Android:

The Android 4.1 jelly Bean SDK, Understanding the Android Software Stack, installing the Android SDK, Creating Android Virtual Devices, Creating the First Android Project, Using the Text view Control, Using the Android Emulator, The Android Debug Bridge(ADB), Launching Android Applications on a Handset.

Unit 2: Basic Widgets:

Understanding the Role of Android Application Components, Understanding the Utility of Android API, Overview of the Android Project Files, Understanding Activities, Role of the Android Manifest File, Creating the User Interface, Commonly Used Layouts and Controls, Event Handling, Displaying Messages Through Toast, Creating and Starting an Activity, Using the Edit Text Control, Choosing Options with Checkbox, Choosing Mutually Exclusive Items Using Radio Buttons

Unit 3: Building Blocks for Android Application Design:

Introduction to Layouts, Linear Layout, Relative Layout, Absolute Layout, Using Image View, Frame Layout, Table Layout, Grid Layout, Adapting to Screen orientation.

Utilizing Resources and Media Resources, Creating Values Resources, Using Drawable Resources, Switching States with Toggle Buttons, Creating an Images Switcher Application, Scrolling Through Scroll View, playing Audio, Playing Video, Displaying Progress with Progress Bar, Using Assets.

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Unit 4: Using Selection widgets and Debugging:

Using List View, Using the Spinner control, Using the GridView Control, Creating an Image Gallery Using the ViewPager Control, Using the Debugging Tool: Dalvik Debug Monitor Service(DDMS), Debugging Application, Using the Debug Perspective.

Displaying And Fetching Information Using Dialogs and Fragments: What Are Dialogs?, Selecting the Date and Time in One Application, Fragments, Creating Fragments with java Code, Creating Special Fragments

Unit 5: Building Menus and Storing Data:

Creating Interface Menus and Action Bars, Menus and Their Types, Creating Menus Through XML, Creating Menus Through Coding, Applying a Context Menu to a List View, Using the Action Bar, Replacing a Menu with the Action Bar, Creating a Tabbed Action Bar, Creating a Drop-Down List Action Bar

Using Databases:

Using the SQLiteOpenHelperclasss, Accessing Databases with the ADB, Creating a Data Entry Form,

Communicating with SMS and Emails:

Understanding Broadcast Receivers, Using the Notification System, Sending SMS Messages with Java Code, Receiving SMS Messages, Sending Email, Working With Telephony Manager.

Text Books

Android Programming by B.M Harwani, Pearson Education, 2013.

References Text Books:

- Android application Development for Java Programmers, James C Sheusi, Cengage Learning
- Android In Action by w.Frank Ableson, Robi Sen, Chris King, C. Enrique Ortiz., Dreamtech.
- Professional Android 4 applications development, Reto Meier, Wiley India, 2012
- Beginning Android 4 applications development, Wei- Meng Lee, Wiley India, 2013

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech IV-II Sem. (CSE)

L T P C 3 1 0 3

15A05802

MOBILE COMPUTING (MOOCS-II)

Course Objectives:

- Understand mobile ad hoc networks, design and implementation issues, and available solutions.
- Acquire knowledge of sensor networks and their characteristics.

Course Outcomes:

- · Students able to use mobile computing more effectively
- Students gain understanding of the current topics in MANETs and WSNs, both from an industry and research point of views.
- Acquire skills to design and implement a basic mobile ad hoc or wireless sensor network via simulations.

UNIT-I:

Wireless LANS and PANS: Introduction, Fundamentals of WLANS, IEEE 802.11 Standards, HIPERLAN Standard, Bluetooth, Home RF.

Wireless Internet

Wireless Internet, Mobile IP, TCP in Wireless Domain, WAP, Optimizing Web over Wireless.

UNIT-II:

AD HOC Wireless Networks: Introduction, Issues in Ad Hoc Wireless Networks, AD Hoc Wireless Internet.

MAC Protocols for Ad Hoc Wireless Networks: Introduction, Issues in Designing a MAC protocol for Ad Hoc Wireless Networks, Design goals of a MAC Protocol for Ad Hoc Wireless Networks, Classifications of MAC Protocols, Contention - Based Protocols, Contention - Based Protocols, Contention - Based MAC Protocols with Scheduling Mechanisms, MAC Protocols that use Directional Antennas, Other MAC Protocols.

UNIT -III:

Routing Protocols: Introduction, Issues in Designing a Routing Protocol for Ad Hoc Wireless Networks, Classification of Routing Protocols, Table - Driven Routing Protocols, On - Demand

Routing Protocols, Hybrid Routing Protocols, Routing Protocols with Efficient Flooding Mechanisms, Hierarchical Routing Protocols, Power – Aware Routing Protocols.

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Transport Layer and Security Protocols: Introduction, Issues in Designing a Transport Layer Protocol for Ad Hoc Wireless Networks, Design Goals of a Transport Layer Protocol for Ad Hoc Wireless Networks, Classification of Transport Layer Solutions, TCP Over Ad Hoc Wireless Networks, Other Transport Layer Protocol for Ad Hoc Wireless Networks, Security in Ad Hoc Wireless Networks, Network Security Requirements, Issues and Challenges in Security Provisioning, Network Security Attacks, Key Management, Secure Routing in Ad Hoc Wireless Networks.

UNIT -IV:

Quality of Service: Introduction, Issues and Challenges in Providing QoS in Ad Hoc Wireless Networks, Classification of QoS Solutions, MAC Layer Solutions, Network Layer Solutions, QoS Frameworks for Ad Hoc Wireless Networks.

Energy Management: Introduction, Need for Energy Management in Ad Hoc Wireless Networks, Classification of Ad Hoc Wireless Networks, Battery Management Schemes, Transmission Power Management Schemes, System Power Management Schemes.

UNIT -V

Wireless Sensor Networks: Introduction, Sensor Network Architecture, Data Dissemination, Data Gathering, MAC Protocols for Sensor Networks, Location Discovery, Quality of a Sensor Network, Evolving Standards, Other Issues.

TEXT BOOKS:

- Ad Hoc Wireless Networks: Architectures and Protocols C. Siva Ram Murthy and B.S.Manoj, PHI, 2004.
- Wireless Ad- hoc and Sensor Networks: Protocols, Performance and Control Jagannathan Sarangapani, CRC Press

REFERENCE BOOKS:

- Ad hoc Mobile Wireless Networks Subir Kumar sarkar, T G Basvaraju, C Puttamadappa, Auerbach Publications, 2012.
- 2. Wireless Sensor Networks C. S. Raghavendra, Krishna M. Sivalingam, 2004, Springer.
- 3. Ad- Hoc Mobile Wireless Networks: Protocols & Systems, C.K. Toh., Pearson Education.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

B. Tech III-II Sem. (CSE)

1 T P C

15A05605 WEB AND INTERNET TECHNOLOGIES

Course Objectives:

- · To introduce client side scripting with Javascript and DHTML
- To introduce server side programming with Java servlets, JSP and PHP.
- · To learn the basic web concepts and Internet protocols

Course Outcomes:

- · Ability to create dynamic and interactive web sites
- · Gain knowledge of client side scripting using java sript and DHTML.
- . Demonstrate understanding of what is XML and how to parse and use XML data
- Able to do server side programming with Java Servelets, JSP and PHP.
- Able to design rich client presentation using AJAX.

UNIT I

Introduction to Web Technologies: Introduction to Web servers like Apache 1.1, IIS XAMPP(Bundle Server), WAMP(Bundle Server), Handling HTTP Request and Response, installations of above servers, HTML and CSS: HTML 5.0, XHTML, CSS 3.

UNIT II

Java Script: An introduction to JavaScript—JavaScript DOM Model-Date and Objects,-Regular Expressions- Exception Handling-Validation-Built-in objects-Event Handling-DHTML with JavaScript. Servlets: Java Servlet Architecture- Servlet Life Cycle- Form GET and POST actions- Session Handling- Understanding Cookies.

Installing and Configuring Apache Tomcat Web Server; DATABASE CONNECTIVITY: JDBC perspectives, JDBC program example - JSP: Understanding Java Server Pages-JSP Standard Tag Library(JSTL)-Creating HTML forms by embedding JSP code.

UNIT III

Introduction to PHP: The problem with other Technologies (Servelets and JSP), Downloading, installing, configuring PHP, Programming in a Web environment and The anatomy of a PHP Page.

Overview of PHP Data types and Concepts: Variables and data types, Operators, Expressions and Statements, Strings, Arrays and Functions.

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PHP Advanced Concepts: Using Cookies, Using HTTP Headers, Using Sessions, Authenticating users, Using Environment and Configuration variables, Working with Date and Time.

UNIT IV

Creating and Using Forms: Understanding Common Form Issues, GET vs. POST, Validating form input, Working with multiple forms, and Preventing Multiple Submissions of a form.

XML: Basic XML- Document Type Definition XML Schema DOM and Presenting XML, XML Parsers and Validation, XSL and XSLT Transformation, News Feed (RSS and ATOM).

UNIT V

MARKET STATES OF THE STATES OF

AJAX: Ajax Client Server Architecture-XML Http Request Object-Call Back Methods; Web Services: Introduction- Java web services Basics – Creating, Publishing, Testing and Describing a Web services (WSDL)-Consuming a web service, Database Driven web service from an application – SOAP.

TEXT BOOKS:

- Beginning PHP and MySQL, 3rd Edition , Jason Gilmore, Apress Publications (Dream tech.).
- PHP 5 Recipes A problem Solution Approach Lee Babin, Nathan A Good, Frank M.Kromann and Jon Stephens.
- Deitel and Deitel and Nieto, "Internet and World Wide Web How to Program", Prentice Hall, 5 th Edition, 2011.
- Herbert Schildt, "Java-The Complete Reference", Eightin Edition, Mc Graw Hill Professional, 2011.

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MOOC COURSE

HUMAN VALUES & PROFESSIONAL ETHICS

Course Co	de	Category	H	ours / We	eek	Credits	Maximum Mark		
21.00041		C	L	T	P	С	CIA	SEE	Total
21CD04111		Core	0	0	0	4	40	60	100
Contact Class	Contact Classes: Nil Tutorial Classes: Nil				cal Class	es: Nil	To	otal Class	es: Nil
UNIT - I		HU	HUMAN VALUES						
	ring - Sl	cs-Integrity-Work Eth naring – Honesty - Co							
UNIT - II		ENGIN	EERING	ETHICS	S				
Kohlberg"s theo action- Self inter	ry- Gilliga	hics- Variety of moral nn"s theory- Consensus oms and religion –Uses	and contro of Ethical	oversy - ! theories -	Models o - Valuinį	f professions g time –Co o	al roles-	Theories :	about right
UNIT - III		ENGINEERING AS			and the second distribution in the second			omman.	2000
Engineering As Concepts – Appl	Social Ex ication is	perimentation— Framin sues — Common Groun	g the probl d - General	em – Det Principle	ermining s – Utilit	the facts – arian thinkin	Codes of g respect	Ethics - for perso	Clarifying ns.
UNIT - IV	E	NGINEERS RESPON	SIBILITY	FOR SA	AFETY	AND RISK			
A STATE OF THE PARTY OF THE PAR		nent of safety and rish ntellectual Property rig		enefit ans	dysis an	d reducing r	iskSafety	and the	Engineer-
UNIT - V		G	LOBAL IS	SUES				1000	
	ior – Com	lture issues- Environn puters as the object of Ethics							
Weapons Develo		the Production of the Producti							
	-		- TOTAL TRA	Della della				1777017	

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CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

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(Affiliated to INTUA, Approved by AICTE, New Delhi and Accredited by NAAC 'A' Grade) Tirupati - 517506, Chittoor Dt. Andhra Pradesh.

Entrepreneurship Development

		II MBA III Semester :								
Course Code	Category	Hours/Week			Credits	Maximum Marks				
	Foundation	L T P		C	Internal	External	Total			
17CE00301	221319011333	3			4	40	60	100		
Contact classes:50	Tutorial Classes:15	Practical classes: Nil			7,11	Total classes:65				

Course Description:

This course presents the concepts, characteristics of entrepreneurship in India and various institutions that are promoting entrepreneurship at national level and state level. Further, it also represents the importance of women entrepreneurship in the globalization scenario. It also describes the project management and processes of project management.

Course Objectives :

- ✓ To provide theoretical concepts of entrepreneurship.
- ✓ To give an overview of various organizations that promotes entrepreneurship in India.
- To learn the concept of women entrepreneurship in India.
- ✓ To provide awareness on Role of Government both in centre and state level in executing various entrepreneurial activities.

Unit - I	Introduction to Entrepreneurship	Classes: 10
Introduction	to Entrepreneurship: Characteristics, qualities and skills of	an Entrepreneur,
functions of e	ntrepreneur, entrepreneur scenario in India and abroad, forms of	entrepreneurship,
small busines	s enterprises - importance of Indian economy, first mover -	- advantages and
disadvantages	, risk reduction strategies - market scope strategies, imitation	on strategies and
managing new	mess.	

Unit - II	Promotional Strategies	Classes: 15
	- Tomorroum Consultance	C.Managar and

Promotional strategies: Generation of new entry opportunities, SWOT analysis, technological competitiveness, legal regulatory system, patents and trademarks, intellectual property rights, project planning and feasibility studies, major steps in product development. Financial aspects, sources of rating capital, debt-equity, financing by commercial banks, government grants and

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subsidies, entrepreneurship promotion, schemes of department of industries - DICs, KVIC, SIDBI, NABARD, NSIC, APSFC, IFCI and IDBI.

Corporate Governance

Classes: 15

Corporate governance: Corporate governance, capitalism at crossroads historical perspective of corporate governance, issues of corporate governance, theoretical basis of corporate governance, corporate governance mechanisms, Indian model of governance good corporate governance, corporate governance committees, OECD principles, Indian committee and guidelines, the confederation of Indian industry's initiative, corporate governance models.

Role of Government Unit - IV

Classes: 15

Role of Central Government and State Government in promoting Entrepreneurship with various incentives, subsidies, grants etc. - with special reference to 'Export oriented units' Role of the following agencies in the Entrepreneurship Development, District Industrial Centre (DIC), Small Industries Services Institute (SISI), Entrepreneurship Development Institute of India (EDII), National Institute of Entrepreneurship and Small Business Development (NIESBUD), National Entrepreneurship Development Board (NEDB).

Process of Project Management

Classes: 10

Project management: Concept of project and classification of project identification, project formulation - project design, project planning, and social cost benefit analysis, financial analysis. PROJECT APPRAISAL: Project report and guidelines for preparing a project report, project Appraisal, Significance of project appraisal, Profitability appraisal, and project financing,

References:

- Robert D. Hisrich, Michael P. Peters, Decin A. Shephered (2009), Entrepreneurship, TMH.
- Vasanth Desai, Dynamics of Entrepreneurship Development Himalaya Publishing
- 3. David H. Holt, Entrepreneurship: New Venture Creation PHI, 2009
- 4. H. Nandan, Fundamentals of Entrepreneurship, PHI, First/e, New Delhi, 2009.
- 5. Satish Taneja, S.L.Gupta, Entrepreneurship Development New Venture Creation, Galgotia
- 6. Bholanath Dutta (2009), Entrepreneurship, Excel Publication, New Delhi, India.
- Mathew, J. Manimala (2009), Entrepreneurship Theory at the Crossroads, Wiley India,
- 8. N. Venkat Rao (2011), Entrepreneurship and good governance, Students Helpline Publishing
- 9. Tabarrok (2009), Entrepreneurial Economics, Oxford University Press, New Delhi.
- 10. Jain (2009), Hand Book of Entrepreneurs, Oxford University Press, New Delhi.
- 11.Dr. S.S. Khanka, Entrepreneurial Development, S. Chand & Co. Ltd., Ram Nagar,
- 12.Raj Shankar, Entreprenewship Theory and practice, Vijay Nicole and Tata McGraw Hill.

13. A. Sahay, M.S. Chhikara, New Vistas of Entrepreneurship: Challenges & Opportunities,

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Business Simulation Laboratory

		II MBA III Semester :								
Course Code	Category	Ho	urs/We	ek	Credits	М	aximum Ma	rks		
17CE00303	Foundation	L	T	P	C	Internal	External	Total		
	The second second		(*i=	3	2	40	60	100		
Contact classes:Nil	Tutorial Classes:Nil	Practical classes: 42				Total clas	sses:42			

Course Description:

This course presents the knowledge of various MS office softwares like Excel sheets and usage of the computer tools etc. further it also gives the knowledge of using Statistical tools and techniques.

Course Objectives:

- ✓ The main aim is to understand statistical tools learning in ms-excel and spss.
- ✓ The learning outcome is that the students will be able to:
- a) analyse the data to draw inference for decision making.
- b) understand the application of statistical measures of central tendency.
- c) understand the application of anova, analyse trends and test hypotheses

Unit - I	Unit - I Introduction MS Excel - Working with data					
	he quick access toolbar - Creating and using templates te special - Formatting data - Using the right mouse click					

printing... Excel Lessons Unit - II Classes: 15

Using headers and footers -. Manipulating data: - Using data names and ranges - Filters - Sort -.Validation lists . . Data from external sources - Using and formatting tables - . Basic formulas - . Use of functions. - Data analysis using charts and graphs - Managing, inserting, and copying worksheets -. Securing the excel document (protect cells and workbook).

	The state of the s	- The state of the
Unit - III	Advanced Excel Lessons	Classes: 15

Advanced formulas and functions - Advanced worksheet features - Advanced data analysis using - Pivottables - Pivot charts

Unit - IV	Over	view	of	SPSS	and	Simulation	of	frequency	Classes: 15
the second	distrib								

Uses - Data analysis - Making students/learn familiar with main menu and other features of spss. package - Binomial - Poisson - Exponential. - Weibull - Normal distributions.

Unit - V Statistical tools for execution using excel Classes: 10

Tabulation - Bar diagram - Multiple bar diagram - Pie diagram - measure of central tendency - Mean Median -. Mode.- Measure of dispersion - Variance - Standard deviation -. Coefficient of-variation Correlation - Regression lines - T- test - F-test - Anova one way classification, - Chi square test - Independence of attributes.

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AI TOOLS, TECHNIQUES AND APPLICATIONS LABORATORY

B.Tech III Year II Ser Course Code	Category	н	ours/ V	Veek	Credits	Max	ximum	Marks
		L	T	P	C	CIA	SEE	Total
19CA05511	Core	0	0	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Classes:Nil	Pr	actical	Classe	s: 48	Total	Classes	: 48

COURSE OBJECTIVES:

The course should enable the students to:

- Implement the basic knowledge of Study of Prolog.
- 2. Construct Problem solving Techniques.
- 3. Apply Different Search Techniques.
- 4. Practice various Traversal Problems.

	LISTOF EXPERIMENTS						
Exp. 1	Study of PROLOG. Write the following programs using PROLOG.						
Exp. 2							
Exp. 3							
Exp. 4							
Exp. 5	Program to delete an integer from the list .						
Exp. 6							
Exp. 7	Program to categorize animal characteristics.						
Exp. 8	8 Program to show concept of list.						
Exp. 9	Solve any problem using best first search.						
Exp. 10	Program to read address of a person using compound variable						
Exp. 11	Program to demonstrate family relationship						
Exp. 12	Solve 8-puzzle problem using best first search						
Exp. 13	Program of fun to show concept of cut operator .						
Exp. 14	Solve Robot (traversal) problem using means End Analysis.						
Exp. 15	Program to count number of elements in a list.						
Exp. 16	Solve traveling salesman problem.						
	Program to reverse the list.						
Exp. 18	Program to append an integer into the list.						
Exp. 19	Program to replace an integer from the list.						

Equipment/Software required for Laboratories: PROLOG

Reference Books:

- Artificial Intelligence: A Modern Approach., Russell & Norvig. 1995, Prentice Hall.
- Artificial Intelligence, Elain Rich and Kevin Knight, 1991, TMH.
- 3. Artificial Intelligence-A modern approach, Staurt Russel and peter norvig, 1998, PHI.
- 4. Artificial intelligence, Patrick Henry Winston:, 1992, Addition Wesley 3 Ed.,

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Demonstrate the knowledge on prolog Programming and Analyze the PROLOG programming through SWI
- CO2: Analyze the various problem solving techniques
- CO3: Design and develop prolog program to add variables
- CO4:Conduct investigation and test the functionality on implementation of prolog programming
- OS: Select appropriate techniques or algorithm tool kit to analyze and implement DFS,BFS
- 206: Follow ethical principles in designing and programming Al problems.
- CON: Do experiments effectively as an individual and as a member in a group. DIRECTOR CONS. Communicate verbally and in written form, the understandings about the programming college

09: Continue at a their skill related to implementation for various applications during

SOFT SKILLS

B.Tech III Year II Se Course Code	mester Category	Но	urs / V	Veek	Credits	Ma	ximum	Marks
Course Code	Category	L	т	P	C	CIA	SEE	Total
19CA052601	Elective	3	0	0	3	3	70	100
Contact Classes: 48	Tutorial Classes: Nil	P	ractic	al Clas	ses: Nil	Tota	l Classe	s: 48

COURSE OBJECTIVES:

- To enhance employability skills through Group discussions and Mock Interviews.
- To enable the students collectively in organizational skills.
- To train the students to meet communicative competence.

VERBAL ABILITY & COMMUNICATION SKILLS UNIT-I

Classes: 10

Communication: Verbal and Non-Verbal Communication, Barriers to effective Communication, Types of Communication - Oral, Aural, Writing and Reading

Grammar:- usage of Articles, Preposition, Verb, Tenses, Adverbs, If-Conditionals, Adjectives, Degrees of Comparison, Conjunction, Simple, Compound & Complex, Active & Passive voice, Reported Speech and Common Errors in English.

Word Power: - Synonyms, Antonyms, Affixes, One word substitutions and Idioms & Phrases.

EMPLOYABILITY SKILLS UNIT-II

Classes: 10

COMPREHENSIONS:-Listening Comprehension, Reading Comprehension, Technical Reports, Resume Writing, E-mail Writing and Essay Writing

SVAR (Accent): Phonetics, Inflections, Stress and Intonation.

GROUP ACTIVITIES: Just-A-Minute (JAM), Debate, Group Discussion and Interview Skills

Arithmetic III UNIT-III

Classes: 10

Number System, Averages, Percentages, Simple Interest & Compound Interest, Problems on Ages, Profit & Loss, Probability, Permutation & Combinations, Logarithms

Arithmetic IV UNIT-IV

Classes: 09

Time & work, Time and Distance, Allegation and Mixtures, Mesuration2D, Mensuration3D, Data Interpretation.

UNIT- V Reasoning II

Classes: 09

Analogy, Classification, Number series, Coding Decoding, Direction & Distance, Blood Relation. Critical Reasoning - Syllogism, Statements & Assumptions, Statements & Arguments, Data sufficiency, Seating Arrangement, Puzzles.

Text Books:

- 1. Rizvi M. Ashraf Effective Technical Communication, Tata McGraw-Hill Publishing Company Limited, 2006.
- 2. R.S Aggarwal, Quantitative Aptitude for Competitive Examinations, S. Chand Publications
- 3. R.S.Aggarwal, Verbal and Non Verbal Reasoning, S.Chand Publications.

Reference Books:

- 1. Bovee Courtland and Throill John, Business Communication Essentials: A skills-Based Approach to Vital Business English. Pearson Education Inc., 2011. 106 CS-Engg&Tech-SRM-2013
- 2. Dhanavel, S.P., English & Communication Skills for Students of Science and Engineering, Orient Black Swan, 2009.

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

CO1: Apply grammatical structures to formulate correct sentences and communicate fluently

CO2: Analyze the correct production of sounds and LSRW skills to perform any situation in their career.

COX: Exhibit the knowledge on Simple Arithmetic Calculations for real time Applications DIRECTOR

Con Investigate the Complex Arithmetic Operations in real time Applications Cos: Analyze of Reasoning, Analytical and Logical thinking methods.

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AI TOOLS, TECHNIQUES AND APPLICATIONS

3.Tech III Year II Se	Category	Ho	urs / V	Veek	Credit	M	aximum	Marks
Course Code	Category	L	T	P	C	CIA	SEE	Tota
19CA05505	Core	2	1	0	3	30	70	100
Contact Classes: 32	Tutorial Classes: 16	P	ractica	l Clas	ses: Nil	Tot	al Classe	s: 48

COURSE OBJECTIVES:

The course should enable the students to:

- Study the concepts of artificial intelligence in problem solving.
- 2. Explore the methods of agents and reasoning patterns.
- 3. Introduce the concepts of knowledge representation and learning.
- 4. IV. Analyze and solve statistical learning methods using AI techniques.

UNIT-I INTRODUCTION

Classes:10

The AI problems, what is an AI technique, the levels of the model, the underlying assumption, problems; Problem spaces and search: Defining the problem as a state space search, production systems, problem characteristics and production system characteristics; Problem-solving: Uninformed search strategies; Informed search strategies: Heuristic search strategies, local search algorithms and optimization problems, backtracking search for CSP.

UNIT-II KNOWLEDGE AND REASONING

Classes: 10

Logical agents, knowledge-based agents, the wumpus world and propositional logic, reasoning patterns in propositional logic and agents based on propositional logic; First-order logic: Syntax and semantic of first-order logic, knowledge engineering in first-order logic; Inference in first-order logic: Propositional vs first-order inference, unification and lifting, forward chaining, backward chaining, resolution.

UNIT-III KNOWLEDGE REPRESENTATION

Classes: 09

Categories and objects, actions, situations and events, mental events and mental objects: The internet shopping world, truth maintenance systems. Uncertain knowledge and reasoning: Uncertainty, acting under uncertainty, basic probability notation, the axioms of probability, inference using full joint distributions, independence, Baye's rule and its use.

UNIT-IV LEARNING

Classes: 10

Learning from observations, forms of learning, Inductive learning: Learning decision trees, ensemble learning; Why learning works: Computational learning theory.

UNIT- V STATISTICAL LEARNING METHODS

Classes: 09

Knowledge in learning: A logical formulation of learning, knowledge in learning; Neural networks; Fuzzy logic systems: Introduction, crisp sets, fuzzy sets, some fuzzy terminology, fuzzy logic control, sugeno style of fuzzy inference processing, fuzzy hedges, α cut threshold.

Text Books:

- Stuart J. Russell, Peter Norving, "Artificial Intelligence A Modern Approach", Pearson Education, 3rd Edition, 2013.
- Elaine Rich, Kevin Knight, Shiva Shankar B Nair, "Artificial Intelligence", Tata McGraw Hill, 3 rd Edition, 2008.

Reference Books:

 George F. Luther, "Artificial Intelligence: Structures and Strategies for Complex Problem Solving", Pearson Education, 5th Edition, 2005.

Series in Computer Science, Revised Edition, 1985.

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INTERNET OF THINGS (IOT)

B.Tech III Year II Se Course Code	Category	Ho	urs / V	Veek	Credits	Ma	ximum l	Marks
Course Code	Cittegory	L	T	P	C	CIA	SEE	Tota
19CA05604	Core	3	0	0	3	30	70	100
Contact Classes: 48	Tutorial Classes: Nil	P	ractic	al Clas	ses: Nil	Tota	l Classe	s: 48

COURSE OBJECTIVES:

The course should enable the students to:

- Introduce the fundamental concepts of IoT and physical computing.
- Expose the student to a variety of embedded boards and IoT Platforms.
- 3. Create a basic understanding of the communication protocols in IoT communications.
- Familiarize the student with application program interfaces for IoT.

Enable students to create simple IoT applications.

UNIT-I

Classes: 09

Overview of IoT: The Internet of Things: An Overview, The Flavour of the Internet of Things, The "Internet" of "Things", The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things? Design Principles for Connected Devices: Calm and Ambient Technology, Privacy, Web Thinking for Connected Devices, Affordances. Prototyping: Sketching, Familiarity, Costs Vs Ease of Prototyping, Prototypes and Production, Open source Vs Close source, Tapping into the community.

Classes: 10

Embedded Devices: Electronics, Embedded Computing Basics, Arduino, Raspberry Pi, Mobile phones and tablets, Plug Computing: Always-on Internet of Things.

Classes: 10

Communication in the IoT: Internet Communications: An Overview, IP Addresses, MAC Addresses, TCP and UDP Ports, Application Layer Protocols Prototyping Online Components: Getting Started with an API, Writing a New API, Real-Time Reactions, Other Protocols Protocol.

UNIT-IV

Classes: 10

Business Models: A short history of business models, The business model canvas, Who is the business model for, Models, Funding an Internet of Things startup, Lean Startups, Manufacturing: What are you producing, Designing kits, Designing printed circuit boards.

Classes: 09

Manufacturing continued: Manufacturing printed circuit boards, Mass-producing the case and other fixtures, Certification, Costs, Scaling up software. Ethics: Characterizing the Internet of Things, Privacy, Control, Environment, Solutions.

Text Books:

- 1. Internet of Things A Hands-on Approach, Arshdeep Bahga and Vijay Madisetti, Universities Press, 2015, ISBN: 9788173719547 R16 B.TECH ECM.
- 2. Getting Started with Raspberry Pi, Matt Richardson & Shawn Wallace, O'Reilly (SPD), 2014, ISBN: 9789350239759.

Web References:

- https://www.arduino.cc/
- https://www.raspberrypi.org/

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Choose the sensors and actuators for an IoT application.
- CO2: Select protocols for a specific IoT application.
- CO3; Whize the cloud platform and APIs for IoT applications.
- CO4 Experiment with embedded boards for creating IoT prototypes.

CO pesign a solution for a given IoT application.

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B.Tech II Year II So					Credits		Maximu	m Marks			
Course code	Category	Hours/	week		Creans	-		TOTAL			
20CA52401		Foundation	Foundation	Foundation	L	T	P	C	CIA	SEE	
20CA52401	Foundation	0	0	3	1.5	30	70	100			
Contact Classes:Nil	Tutorial Clas	ses: Nil	Practical Classes:48			Total Classes:48					

OBJECTIVES:

The course should enable the students to:

- The course allows the students to use multi-media instruction for language development
- To improve the students' fluency in English and enable them to listen the English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and
- Professional contexts. 3. Further, they would be required to communicate their ideas relevantly and coherently in writing and placing MNCs.

List of Topics

- Syllables, stress & Intonation
- 2. Listening Skills
- Report writing
- 4. Book review
- 5. Film review
- Grooming
- Non-verbal skills(Body Language)
- 8. Power Point Presentation(Ppt)
- Group Discussion II
- 10. Time management
- 11. Stress management
- Problem solving & Decision Making
- 13. Corporate Etiquettes
- 14. SWOT Analysis
- 15. Interview Skills II

Minimum Requirements for SOFT SKILLS Lab:

Soft Skills Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- 2. Round Tables with movable chairs
- Audio-visual aids
- 4. LCD Projector
- Public Address system
- P-IV Processor, Hard Disk 80 GB, RAM-512 MB Minimum, Speed 2.8 GHZ
- T. V, a digital stereo & Camcorder
- 8. Headphones of High quality

Suggested Software:

- 1. Walden Info tech: Advanced English Communication Skills Lab
- 2. K-VAN SOLUTIONS-Advanced English Language Communication Skills lab
- 3. DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- 4. TOEFL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLIFFS)

5. Train2success.com



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	COMMUN	VICA'	TIV	ENG	LISH LABOR	RATORY	ti.	
B.Tech I Year I Ser								
Course Code	Category	Hot	irs/w	eek	Credits		Maximu	m Marks
20CA52102	Foundation	L	T	P	C	CIA	SEE	TOTAL
2001102102	roundation	0	0	3	1.5	30	70	100
Contact classes: 0	Tutorial Clas	ses:0	Pr	actical	Classes:48		Total Cl	asses:48

The course should enable the

- Students will be exposed to a variety of self instructional, learner friendly modes of language learning.
- Students will learn better pronunciation through stress, intonation and rhythm.
- Students will be trained to use language effectively to face interviews, group discussions, public speaking.
- Students will be initiated into greater use of the computer in resume preparation, report writing, format making etc.

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- 10. Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

Minimum Requirements for ELCS Lab:

The English Language Lab shall have two parts:

- Computer Assisted Language Learning (CALL) Lab: The Computer aided Language Lab for 60 students with 60 systems, one master console, LAN facility and English language software for self study by learners.
- The Communication Skills Lab with movable chairs and audio-visual aids with a P.A. system, Projector, a digital stereo-audio & video system and camcorder etc.

System Requirement (Hardware component):

Computer network with LAN with minimum 60 multimedia systems with the following specifications:

- i) P IV Processor
 - a) Speed 2.8 GHZ
 - b) RAM 512 MB Minimum
 - c) Hard Disk 80 GB
- ii) Headphones of High quality

Suggested Software:

- 1. Clarity Pronunciation Power Part I (Sky Pronunciation)
- 2. Clarity Pronunciation Power part II
 - Van Advanced Communication Skills

Walden InfoTech Software.

Young India Films

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	ation cons	C PROGRAM	IMIN	G LA	NGU	AGE			
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Course C	ode	Category	Ho	urs/W	cek	Credits	Max	iarks	
			L	T	P	C	CIA	SEE	Tota
20CA05	20CA05101 Four		3	0	0	3	30	70	100
Contact Cla	sses:48	Tutorial Classes: Nil	P	actica	ıl Cla	sses: Nil	То	tal Classe	s:48
3. To le	arn how t	oblem solving skills. develop flowcharts and alg to write modular programs in to use arrays, pointers, s	in C.					ns.	
3. To le	arn how t	develop flowcharts and alg to write modular programs	in C.					ns.	
3. To le 4. To er UNIT - I Introduction	intro	develop flowcharts and algo to write modular programs in to use arrays, pointers, so ODUCTION riguage Elements, Variable	in C. trings es, Da	and st	ructur	es in solvin	g probler	Class sions, Co	nstants,
3. To le 4. To er UNIT - I Introduction Declarations	in how to able there in to C Lar.	develop flowcharts and algo to write modular programs in to use arrays, pointers, so ODUCTION Inguage Elements, Variable ors, Type Conversions, Op	trings es, Da erator	and strate Typ	nes, O	perators and	g probler d Expres of Evalua	Class sions, Co	nstants,
3. To le 4. To er UNIT - I Introduction Declarations	in how to able there in to C Lar.	develop flowcharts and algorithms to use arrays, pointers, sometimes of the use o	trings es, Da erator	and strate Typ	nes, O	perators and	g probler d Expres of Evalua	Class sions, Co	nstants, ements:
3. To le 4. To er UNIT - I Introduction Declarations Selection Sta UNIT - II Accessing A	INTRO to C Lar Operato itements, ARR rray Eler ing and V	develop flowcharts and algorithms to use arrays, pointers, sometimes of the use arrays, pointers, sometimes of the use arrays, pointers, sometimes of the use arrays, pointers, sometimes, Variable ors, Type Conversions, Opteration Statements, Jumpays Mays Ments, Single & Multi Dir Writing Strings, String may	es, Da erator p state	and strata Typ	nes, O dence Brea	perators and and Order of k, Continue	g probler d Expres of Evalua e, go to.	Class sions, Co tion. State Class Initializat	nstants, ements: es:10

UNIT - III FUNCTIONS Classes:10

Definition, Function Call- Call by Value, Storage Class Specifiers, Understanding the scope of

Functions with its Types, the Return Statement, Recursion, Command Line Arguments.

UNIT - IV POINTERS

Classes:9

Pointer Variables, Pointer Expressions, Pointers And Arrays, Pointers to Strings, Call by Reference, Dynamic Memory Allocation Functions, Problems with Pointers, Dangling pointers.

UNIT -V STRUCTURES AND UNIONS

Classes:9

Accessing structure members, Array of structures, Passing Structures to Functions, Structure Pointers, Self Referential Structures, Structures within Structures, Bit Fields, Enumerations, Typedef. Files handling in C, File oriented operations.

Text Books:

C Programming-A Problem Solving Approach, Forouzan, Gilberg, Cengage.

References:

- 1. The Complete Reference C, Fourth Edition, Herbert Schildt, McGraw-Hill Education.
- Programming with C, Second Edition, Byron Gottfried, Schaum's outline, McGraw-Hill Education.
- 3. Computer Fundamentals and C programming, B. L Juneja, A Seth, Cengage Learning India.
- 4. Programming in C and Data Structures", Hanly, Koffman, Kamthane, Ananda Rao, Pearson.

5. Programming in ANSI C, 8/e, by E Balagurusamy

 The C Programming Language" Second Edition, Brain W. Kernighan, Dennis M. Ritchie, Prentice Hall, India.

Web References

https://www.tutorialspoint.com/cprogramming/

www.studytonight.com/c/

- 3. fresh2rdfresh.com/c-programming/
- 4. www.cprogramming.com/tutorial/c/

1. bookboon.com/en/c-cpp-esharp-ebooks

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	C PROGRA	MM	ING I	LAB				
B.Tech I Year II Seme	ester			_				
Course Code	Category	Ho	urs/W	eek	Credits	Max	imum M	Aarks
		L	Т	P	C	CIA	SEE	Total
20CA05102	Foundation	0	0	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	P	ractic	al Cla	isses: 48	Tot	al Class	ses:48

- Learn C Programming language.
- To make the student solve problems, implement algorithms using C language.
- 3. To write diversified solutions using C language.

LIST OF PROGRAMS

Week-I

Write C program to

- a) Print the size of all data types.
- b) Find the Sum of three numbers
- e) Exchange (swap) of two numbers by using third variable.
- d) Exchange (swap) of two numbers without using third variable.

Week-2

- a) Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
- b) Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
- c) Write a C program to swap two numbers using bitwise operators.

Week-3

- a) Write a C program to find whether the given integer is odd or even.
- b) Write a C program to find the Maximum of three numbers.
- c) Write a C program to print 'hello world' without using semicolon.
- d) Write a C program to find whether the given number is odd or even using bitwise operator.
- e) Write a C program to find the maximum of two numbers using Conditional operator.
- f) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, 1, %)

Week -4

- a) Write a C program to generate the required multiplication table.
- b) Write a C program to find the Factorial of a given integer.
- c) Write a C program to compute x power of n (x^a) without using built in functions.
- d) Write a C program to check whether the given integer is prime or not.
- e) Write a C program to find GCD

Week-5

- a) Write a C program to find the sum of the digits of an integer.
- b) Write a C program to find whether the given integer is a Palindrome or not.
- e) Write a C program to generate Fibonacci numbers in the given range.

Week - 6

MOHS

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1 2 2 3 3 b) Prin		s in the given range.
Week - 7		
b) Wr	ite a C program to check whether the given into ite a C program to evaluate the sum of the follow $x = 1 + x + x^2/2! + x^3/3! + x^4/4! + \dots$	
Week - 8		
b) Wri set(c) Wri d) Wri	npute the maximum, minimum and average of te a C program to find the sum of positive and Array) of numbers. te a program to implement linear search techni te a C program to read two matrices and find	negative numbers in a given
Week -9	Sum. ii) Product and display the result in the	matrix form.
a) Wri i) ii)	te a C program to read a matrix and perform the Find the sum of Diagonal Elements of a matrix Print Transpose of a matrix. Print sum of even and odd numbers in a given	# 1
Week - 10		
i) ii iii iv v b) W	String library functions. String length determination. Compare Two Strings. Concatenate Two Strings. String reversing Determining whether a string is a palindrome of the a C program to accept a line of characters consonants, blank spaces, digits and special charite a C program to read a set of strings and so	and print the number of Vowels, tracters.
Week-11	nte a C. program to read a set of surings and so	it them in depresent executive
a) Wri i) ii) iii)	te a C program to illustrate the following types Function with no arguments and no return value Function with arguments and no return value Function without arguments and with return value Function with arguments and with return value	alue
Week - 12		
a) Wr b) W	rite a C program to exchange two numbers using trite a program to print the elements of an array	ng pointers. v in reverse order using pointers.
Week - 13	The second secon	
69 (V 15) C#	ote a C program to express a four digit number itten as one thousand five hundred and forty si rite a C program using recursion for finding Fa culate the greatest common divisor using recur	ctorial of a number rsion for two numbers as specified by
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COMMUNICATIVE ENGLISH B.Tech I Year I Semester Course Code Category Hours / Week Credits Maximum Marks L T C CIA SEE TOTAL 20CA52101 Foundation 3 100 0 0 3 30 70 Contact Classes: 48 Tutorial Classes:Nil Practical Classes: Nil Total Classes: 48

COURSE OBJECTIVES:

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers.
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials.
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations.
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing.

UNIT-I Lesson: On the Conduct of Life: William Hazlitt Classes:10

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions.

Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others.

Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information.

Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph.

Grammar and Vocabulary: Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- > Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- > Form sentences using proper grammatical structures and correct word forms

UNIT-II Lesson: The Brook: Alfred Tennyson Classes:10

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio

Speaking: Discussion in pairs/ small groups on specific topics followed by short structured talks.

Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together.

Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing punctuation, capital letters.

Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

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At the end of the module, the learners will be able to

- Comprehend short talks on general topics
- Participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- Understand the use of cohesive devices for better reading comprehension
- Write well structured paragraphs on specific topics
- Identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT-III Lesson: The Death Trap: Saki

Classes:10

Listening: Listening for global comprehension and summarizing what is listened to.

Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension.

Writing: Summarizing - identifying main idea/s and rephrasing what is read; avoiding redundancies and repetitions.

Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech. reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- Comprehend short talks and summarize the content with clarity and precision
- Participate in informal discussions and report what is discussed
- Infer meanings of unfamiliar words using contextual clues
- Write summaries based on global comprehension of reading/listening texts
- Use correct tense forms, appropriate structures and a range of reporting verbs in speech and

UNIT-IV

Lesson: Innovation: Muhammad Yunus

Classes:09

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video.

Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions.

Reading: Studying the use of graphic elements in texts to convey information, reveal 46 trends/patterns/relationships, communicate processes or display complicated data.

Writing: Letter Writing: Official Letters/Report Writing

Grammar and Vocabulary: Quantifying expressions - adjectives and adverbs; comparing and contrasting; Voice - Active & Passive Voice

Learning Outcomes

At the end of the module, the learners will be able to

- Infer and predict about content of spoken discourse
- Understand verbal and non-verbal features of communication and hold formal/informal conversations
- Interpret graphic elements used in academic texts
- Produce a coherent paragraph interpreting a figure/graph/chart/table
- Use language appropriate for description and interpretation of graphical elements

Lesson: Politics and the English Language: George Orwell

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension.

Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides.

Reading: Reading for comprehension.

Writing Writing sisuctived essays on specific topics using suitable claims and evidences

Grandmar and Vocabulary: Editing short texts -identifying and correcting common errors in grammar and use (articles, prepositions, tenses, subject verb agreement) DIRECTOR

Learning Outcomes

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At the end of the module, the learners will be able to

- Take notes while listening to a talk/lecture and make use of them to answer questions
- Make formal oral presentations using effective strategies
- Comprehend, discuss and respond to academic texts orally and in writing
- Produce a well-organized essay with adequate support and detail
- Edit short texts by correcting common errors

Text Books:

Language and Life: A Skills Approach – 1 Edition 2019, Orient Black Swan

Web References:

- www.englishclub.com
- www.easyworldofenglish.com
- www.languageguide.org/english/
- 4. www.bbc.co.uk/learningenglish
- www.eslpod.com/index.html
- www.myenglishpages.com

Reference Books:

- Bailey, Stephen. Academic writing: A handbook for international students. Routledge, 2014.
- 2. Chase, Becky Tarver. Pathways: Listening, Speaking and Critical Thinking. Heinley ELT; 2nd Edition, 2018.
- Raymond Murphy's English Grammar in Use Fourth Edition (2012) E-book.
- Hewings, Martin. Cambridge Academic English (B2). CUP, 2012.
- Oxford Learners Dictionary, 12th Edition, 2011.
- 6. Norman Lewis Word Power Made Easy- The Complete Handbook for Building a Superior Vocabulary (2014).
- 7. Speed Reading with the Right Brain: Learn to Read Ideas Instead of Just Words by David

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Demonstrate to overcome the barriers in communication process using non-verbal language suitable to different situations in professional life to become effective technical communicator.
- CO2: Apply the knowledge on social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information.
- CO3: Exhibit the knowledge on cohesive devices for better conversation in informal discussions and speak clearly on a specific topic using suitable discourse markers.
- CO4: Apply the concepts of Entrepreneurship Skills and Analyze discourse markers to speak clearly on a specific topic in informal discussions and create coherent paragraph writing.
- CO5: Apply the Knowledge to recognize the need of ability to engage in independent and life-long learning communication effectively in English over speech.

						CO-I	O/PSO) Map	ping				-	
	DOL	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	PO1	roz	103	104					2	3		-	3	3
COL	3	-	1.0	-			-	-	2	2	1 2	-	3	3
CO2	3	2						-	3	2	-		2	3
CO3	3							140	2	3	-	-	2	2
	- 2	2			-	-	-		3	3		-	3	3
CO4	3	- 2			-					3	- 2	2	3	3
205	13	-		E#1		-	-			2		2	3	3
Seo	3	12				-		-	2.5	3		4	3	9

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B.Tech I Yo	ear II See	C PROGRAM	MINITEN	G IA	NGU	AGE			
Course	10 32 10 33 - 10 10	Category	Ho	urs/W	eek	Credits	Mar	ximum M	Lauka
2000000000			L	T	P	C	CIA	SEE	Tota
20CA05	101	Foundation	3	0	0	3	30	70	100
Contact Cla	asses:48	Tutorial Classes: Nil	Pr	ractica	l Cla	sses: Nil	Tot	al Classe	s:48
2. To b 3. To le	equire pro e able to c arn how t	VES: obtem solving skills. develop flowcharts and alg to write modular programs in to use arrays, pointers, si	in C.						
UNIT - I		ODUCTION	i iiigo c	aria su	uciui	S III SOLVIII	problem	Classes:10	
Deciarations	, Operato	iguage Elements, Variable rs, Type Conversions, Ope Iteration Statements, Jump	rator I	reced	ence a	and Order of	f Evaluat	ions Cor	ictante
UNIT - II	ARRA	NYS						Classe	
Accessing A String, Read I/O Function	ing and v	nents, Single & Multi Dim Vriting Strings, String mar puts().	ensior nipulat	nal Arr ion fu	ays. S	Strings: Dec is from the	laring, Ir standard	nitializatio Library,	on of a String
UNIT - III	FUNC	TIONS						Classe	s:10
Definition, I Functions wi	unction th its Typ	Call- Call by Value, Stores, the Return Statement, I	orage Recurs	Class ion. C	Spec	ifiers, Unde	erstandin	g the sec	pe of
UNIT - IV	POIN						guineins.	Classe	s:9
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UNIT -V	Toy Sonoth	CTURES AND UNIONS						Classe	s:9
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1. C Prog References:	ramming-	A Problem Solving Appro	ach, F	orouza	ın, Gi	lberg, Ceng	age.		
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	C PROGRA	MM	ING	LAB				
B.Tech I Year II Sem	ester		76			-		
Course Code	Category	Ho	urs/W	eek.	Credits	Max	imum l	Marks
E ACTION ON THE THINKS ON A	W-0-117634-0-127-1	L	T	P	C	CIA	SEE	Total
20CA05102	Foundation	0	0	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	P	ractic	al Cla	sses: 48	Tota	al Class	ses:48

- 1. Learn C Programming language.
- To make the student solve problems, implement algorithms using C language.
- To write diversified solutions using C language.

LIST OF PROGRAMS

Week-I

Write C program to

- a) Print the size of all data types.
- b) Find the Sum of three numbers
- e) Exchange (swap) of two numbers by using third variable.
- d) Exchange (swap) of two numbers without using third variable.

Week - 2

- a) Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
- b) Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
- e) Write a C program to swap two numbers using bitwise operators.

Week-3

- a) Write a C program to find whether the given integer is odd or even.
- b) Write a C program to find the Maximum of three numbers.
- c) Write a C program to print 'hello world' without using semicolon.
- d) Write a C program to find whether the given number is odd or even using bitwise operator.
- e) Write a C program to find the maximum of two numbers using Conditional operator.
- f) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, 1, %)

Week-4

- a) Write a C program to generate the required multiplication table.
- b) Write a C program to find the Factorial of a given integer.
- c) Write a C program to compute x power of n (x") without using built in functions.
- d) Write a C program to check whether the given integer is prime or not.
- e) Write a C program to find GCD

Week-5

- a) Write a C program to find the sum of the digits of an integer.
- b) Write a C program to find whether the given integer is a Palindrome or not.
- c) Write a C program to generate Fibonacci numbers in the given range.

Week - 6

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hadalayada Kumunamusa Engineering Callege (AUTONOMOUS) TIRUPATI

 a) Write a C program to print the following pattern. 22 333 b) Print multiplication tables up to the given table. c) Write a C program to print series of prime numbers in the given range. Week - 7 a) Write a C program to check whether the given integer is strong number or not. b) Write a C program to evaluate the sum of the following series up to 'n' terms $e^x = 1 + x + x^2/2! + x^3/3! + x^4/4! + \dots$ Week - 8 a) Compute the maximum, minimum and average of N numbers. b) Write a C program to find the sum of positive and negative numbers in a given set(Array) of numbers. c) Write a program to implement linear search technique d) Write a C program to read two matrices and find i) Sum. ii) Product and display the result in the matrix form. Week -9 a) Write a C program to read a matrix and perform the following operations Find the sum of Diagonal Elements of a matrix. ii) Print Transpose of a matrix. iii) Print sum of even and odd numbers in a given matrix. Week - 10 a) Write a C program to read two strings and perform the following operations without using built-in string library functions. String length determination. Compare Two Strings. iii) Concatenate Two Strings. iv) String reversing v) Determining whether a string is a palindrome or not b) Write a C program to accept a line of characters and print the number of Vowels, Consonants, blank spaces, digits and special characters. c) Write a C program to read a set of strings and sort them in alphabetical order. Week-11 a) Write a C program to illustrate the following types of functions i) Function with no arguments and no return values ii) Function with arguments and no return value iii) Function without arguments and with return value iv) Function with arguments and with return value Week-12 a) Write a C program to exchange two numbers using pointers. b) Write a program to print the elements of an array in reverse order using pointers. Write a C program to express a four digit number in words. For example 1546 should be written as one thousand five hundred and forty six Writeans program using recursion for finding Factorial of a number Calculate the greatest common divisor using recursion for two numbers all specified by (AUTONOMOUS) * TIRTIPAL

	COMMUN	VICA'	TIVI	ENG	LISH LABOR	RATORY		
B.Tech I Year I Ser	mester			14				
Course Code	Category	Hou	rs/w	eek	Credits		Maximu	m Marks
200152102	F	L	T	P	C	CIA	SEE	TOTAL
20CA52102	Foundation	0	0	3	1.5	30	70	100
Contact classes: 0	Tutorial Clas	ses:0	Pr	actical	Classes: 48		Total Cl	asses:48

The course should enable the

- Students will be exposed to a variety of self instructional, learner friendly modes of language learning.
- 2. Students will learn better pronunciation through stress, intonation and rhythm.
- Students will be trained to use language effectively to face interviews, group discussions, public speaking.
- Students will be initiated into greater use of the computer in resume preparation, report writing, format making etc.

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- 10. Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

Minimum Requirements for ELCS Lab:

The English Language Lab shall have two parts:

- Computer Assisted Language Learning (CALL) Lab: The Computer aided Language Lab for 60 students with 60 systems, one master console, LAN facility and English language software for self study by learners.
- The Communication Skills Lab with movable chairs and audio-visual aids with a P.A. system, Projector, a digital stereo-audio & video system and camcorder etc.

System Requirement (Hardware component):

Computer network with LAN with minimum 60 multimedia systems with the following specifications:

- i) P IV Processor
 - a) Speed 2.8 GHZ
 - b) RAM 512 MB Minimum
 - c) Hard Disk 80 GB
- ii) Headphones of High quality

Suggested Software:

- 1. Clarity Pronunciation Power Part I (Sky Pronunciation)
- 2. Clarity Pronunciation Power part II
- 3 K-Van Advanced Communication Skills

Walden foto lech Software.

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6. Young India Films

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	C PROGRA	MM	ING	LAB				
B.Tech I Year II Sem	ester							
Course Code	Category	Hours/Week		Credits	Maximum Marks			
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20CA05102	Foundation	0	0	3	1.5	30 70		100
Contact Classes: Nil	Tutorial Classes: Nil	P	ractic	al Cla	isses: 48	Tota	d Class	ses:48

- 1. Learn C Programming language.
- 2. To make the student solve problems, implement algorithms using C language.
- 3. To write diversified solutions using C language.

LIST OF PROGRAMS

Week-I

Write C program to

- a) Print the size of all data types.
- b) Find the Sum of three numbers
- e) Exchange (swap) of two numbers by using third variable.
- d) Exchange (swap) of two numbers without using third variable.

Week - 2

- a) Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
- b) Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
- c) Write a C program to swap two numbers using bitwise operators.

Week-3

- a) Write a C program to find whether the given integer is odd or even.
- b) Write a C program to find the Maximum of three numbers.
- c) Write a C program to print 'hello world' without using semicolon.
- d) Write a C program to find whether the given number is odd or even using bitwise operator.
- e) Write a C program to find the maximum of two numbers using Conditional operator.
- f) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, /, %)

Week -4

- a) Write a C program to generate the required multiplication table.
- b) Write a C program to find the Factorial of a given integer.
- e) Write a C program to compute x power of n (xⁿ) without using built in functions.
- d) Write a C program to check whether the given integer is prime or not.
- e) Write a C program to find GCD

Week-5

- a) Write a C program to find the sum of the digits of an integer.
- b) Write a C program to find whether the given integer is a Palindrome or not.
- c) Write a C program to generate Fibonacci numbers in the given range.

Week - 6

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(AUTONOMOUS)
TIRUPATI

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 a) Write a C program to print the following pattern. 22 333 b) Print multiplication tables up to the given table. e) Write a C program to print series of prime numbers in the given range. Week - 7 a) Write a C program to check whether the given integer is strong number or not. b) Write a C program to evaluate the sum of the following series up to 'n' terms $e^{x} = 1 + x + x^{2}/2! + x^{3}/3! + x^{4}/4! + \dots$ Week - 8 a) Compute the maximum, minimum and average of N numbers. b) Write a C program to find the sum of positive and negative numbers in a given set(Array) of numbers. c) Write a program to implement linear search technique d) Write a C program to read two matrices and find i) Sum. ii) Product and display the result in the matrix form. Week-9 a) Write a C program to read a matrix and perform the following operations i) Find the sum of Diagonal Elements of a matrix. ii) Print Transpose of a matrix. iii) Print sum of even and odd numbers in a given matrix. Week - 10 a) Write a C program to read two strings and perform the following operations without using built-in string library functions. i) String length determination. ii) Compare Two Strings. iii) Concatenate Two Strings. iv) String reversing v) Determining whether a string is a palindrome or not b) Write a C program to accept a line of characters and print the number of Vowels, Consonants, blank spaces, digits and special characters. c) Write a C program to read a set of strings and sort them in alphabetical order. Week-11 a) Write a C program to illustrate the following types of functions i) Function with no arguments and no return values ii) Function with arguments and no return value iii) Function without arguments and with return value iv) Function with arguments and with return value Week - 12 a) Write a C program to exchange two numbers using pointers. b) Write a program to print the elements of an array in reverse order using pointers. Write a C program to express a four digit number in words. For example 1546 should be written as one thousand five hundred and forty six Write a C program using recursion for finding Factorial of a number DIRECTOR Moulate the catest common divisor using recursion for two humbers as specified by coming College AUTONOMOUS TIRUPATI

	CO	MM	UNIC	ATIVE	ENGLISH				
B.Tech I Year 1 Sem	ester								
Course Code	Category	Ho	ours /	Week	Credits	· N	Maximum	Marks	
			L	T	P	C	CIA	SEE	TOTAL
20CA52101	Foundation	3	0	0	3	30	70	100	
Contact Classes: 48	Tutorial Classes	s:Nil	Pra	etical C	lasses: Nil	-17000	Total Cla	sses: 48	

1. Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers.

2. Focus on appropriate reading strategies for comprehension of various academic texts and

authentic materials.

3. Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations.

4. Impart effective strategies for good writing and demonstrate the same in summarizing, writing

well organized essays, record and report useful information.

5. Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing.

Classes:10 Lesson: On the Conduct of Life: William Hazlitt UNIT-I

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions.

Speaking: Asking and answering general questions on familiar topics such as home, family, work,

studies and interests; introducing oneself and others.

Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information. Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the

main idea and/or providing a transition to the next paragraph.

Grammar and Vocabulary: Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

 Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information

> Ask and answer general questions on familiar topics and introduce oneself/others

Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information

Recognize paragraph structure and be able to match beginnings/endings/headings with

paragraphs

Form sentences using proper grammatical structures and correct word forms

Classes:10 Lesson: The Brook: Alfred Tennyson UNIT-II

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio

Speaking: Discussion in pairs/ small groups on specific topics followed by short structured talks.

Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together.

Writing Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing punctuation, capital letters.

Grammar and Veggsbulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and article; prepositions. ohnear

Learning Outcomey

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Chadalawada Ramanamma Engiavoring College (AUTONOMOUS)

At the end of the module, the learners will be able to Comprehend short talks on general topics Participate in informal discussions and speak clearly on a specific topic using suitable discourse markers Understand the use of cohesive devices for better reading comprehension Write well structured paragraphs on specific topics Identify basic errors of grammar/ usage and make necessary corrections in short texts Classes:10 Lesson: The Death Trap: Saki UNIT-III Listening: Listening for global comprehension and summarizing what is listened to. Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text these for comprehension. Writing: Summarizing - identifying main idea/s and rephrasing what is read; avoiding redundancies and Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes. Learning Outcome At the end of the mo lule, the learners will be able to Comprehe short talks and summarize the content with clarity and precision Participate in informal discussions and report what is discussed Infer meanings of unfamiliar words using contextual clues Write summeries based on global comprehension of reading/listening texts Use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing Classes:09 anovation: Muhammad Yunus UNIT-IV Lesso lictions while listening to conversations/ transactional dialogues without video; Listening: Making listening with video Speaking: Role plans for practice of conversational English in academic contexts (formal and informal) - asking for and giv information/directions. use of graphic elements in texts to convey information, reveal 46 Reading: Studying hips, communicate processes or display complicated data. trends/patterns/rela Writing: Letter Wri e: Official Letters/Report Writing lary: Quantifying expressions - adjectives and adverbs; comparing and Grammar and Voc ve & Passive Voice contrasting; Voice -Learning Outcom le, the learners will be able to At the end of the m et about content of spoken discourse > Infer and bal and non-verbal features of communication and hold formal/informal > Understa conversal le elements used in academic texts > Interpret : rent paragraph interpreting a figure/graph/chart/table Produce a r Use language appropriate for description and interpretation of graphical elements litics and the English Language: George Orwell UNIT-V Lesson by terms, understanding concepts and answering a series of relevant questions Listening: Identify that test comprehen presentations on topics from academic contexts - without the use of PPT slides. Speaking: Formal imprehension. Reading: P red essays on specific topics using suitable claims and evidences Writing ry: Editing short texts -identifying and correcting common errors in grammar Grammar and itions, tenses, subject verb agreement) and sige (articles he learners will be able to At the and of the DIRECTOR

* TIRLIPAT

Chadalawada Ramanamma Engineering College (AUTONOMOUS) TIRUPATI

B.Tech I Year Se	COMMUN						
Course Code	Category	Hou	rs/week	Credits		Maximu	m Marks
		L	T P	C	CIA	SEE	TOTAL
20CA52102	Foundation	0	0 3	1.5	30	70	100
Contact classes: 0	Tutorial Clas	ses:0	Practic	al Classes:48		Total C	lasses:48
COURSE OB C	TIVES:	2.50					
The course should	enable the						
1. Students	will be exposed	to a	variety o	of self instruction	nal, learn	er friendl	y modes of
lang e		10. 41		/4 . J. J			•
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List of Topics							
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2. Reading my							
	jects/places/pers						
4. Role Play or C	Conversational Pr	ractice					
5. JAM							
6. Etique	Telephonic Com	nunic	ation				
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	and Note Taking	6					
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SCI	iers.						
2. T	on Skills l	Lab w	ith mova	ble chairs and aud	lio-visual	l aids with	a P.A.
sy	a digital s	stereo-	& oibun	video system and	camcord	ler etc.	
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BASIC SIMULATION LABORATORY

B.Tech II Year I Semo	ester					100				
Course Code	Category	Hot	irs / V	Veek	Credits	N	Maximum Marks			
100101205	Com	L	T	P	С	CIA	SEE	Total		
19CA04305	Core	0	0	2	1	30	70	100		
Contact Classes: Nil	Tutorial Classes: Nil	P	ractio	cal Cl	asses: 32		Total C	Classes: 32		

COURSE OBJECTIVES:

The course should enable the students to:

- Apply knowledge of mathematics, science, and engineering for the analysis and processing of signals and to generate various continuous and discrete time signals using MATLAB tool.
- 2. Apply the convolution theorem and correlation for continuous time signals.
- 3. Analyze a continuous time LTI/LTV systems using convolution.
- 4. Design and conduct experiments on modulation techniques to analyze and interpret results.

ANY TEN EXPERIMENTS
Basic operations on Matrices.
Generation of various signals and sequences such as unit impulse, unit step, triangular, sawtooth, sinusoidal, sinc.
Operations on signals and sequences such as addition, multiplication, scaling, shifting, folding.
Finding the even and odd parts of signal or sequence and real and imaginary parts of signal.
Convolution between signals and sequences.
Autocorrelation and cross correlation between signals and sequences.
Finding the Fourier Transforms of given signal and plotting its magnitude and phase spectrum.
Verification of linearity and time invariance property of a given continuous/discrete system
Verification of Sampling Theorem.
Removal of noise by Autocorrelation/Cross correlation in a given signal corrupted by noise
Waveform synthesis using Laplace Transform.
Logating Zero's and Pole's and plotting the pole-zero maps in S-Plane and Z-Plane for

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Demonstrate the knowledge on the basic concepts of matrices, signals and systems.
- CO2: Analyze different signal generations and operations.
- CO3: Develop a MATLAB program to analyze various systems with different signals.
- CO4: Investigate and analyze different MATLAB programs on signal analysis.
- CO5: Follow the ethical values in developing the programs with MATLAB.
- CO6: Do experiments effectively as an individual and as a member in a group.
- CO7: Communicate verbally and in written form, the understandings about the MATLAB Programs.
- CO8: Continue updating their analysis and design skills related to various programs based on application during their life time.

LIST OF EQUIPMENT REQUIRED FOR A BATCH

SOFTWARE MATLAB

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(AUTONOMOUS)
TIRUPATI

COMMUNICATIVE ENGLISH II

B.Tech II Year II Sei					I a w	-			
Course Code	Category	Н	Hours/week Credits			Maximum Marks			
		L	T	P	C	CIA	SEE	TOTAL	
19CA52401	Foundation	2	0	0	2	30	70	100	
Contact Classes:32	Tutorial Classes: NI		Pra	rtical (Classes:	7	otal Clas	ses:32	

COURSE OBJECTIVES:

The course should enable the students to:

- Help improve speaking skills through participation in activities.
- 2. Impart effective strategies for good writing and demonstrate the same in summarizing, writing well useful information.
- 3. Provide knowledge of presentations structures and vocabulary and encourage their appropriate use in speech and writing.

UNIT-I

Classes:06

- Features of Communication and Forms of Communication.
- Non-Verbal Communication and Types of Non-verbal Communication.
- 3. Barriers to Communication and Remedies.

Learning Outcomes

At the end of the module, the learners will be able to

- Become effective technical communicators.
- Sensitive use of non-verbal language suitable to different situations in professional life.
- Understand how to overcome the barriers in Communication process.

UNIT-II

Classes:06

- Self Introduction-about you
- English for Etiquette- Greetings-Introducing a person-Congratulating-Complimenting-
- English for Etiquette Requesting-Accepting/Declining an invitation-Expressing Gratitude.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- Ask and answer general questions on familiar topics and introduce oneself/others

Form sentences using proper grammatical structures and correct word forms

UNIT-III

Classes:06

- Effective usage of Modal Auxiliaries in framing Coversations.
- Dialogue building-Formal conversation-Semi formal-Informal Conversation.
- 3. Asking/Giving directions-Asking some for directions-Giving directions

Learning Outcomes

At the end of the module, the learners will be able to

- comprehend short talks on general topics
- participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- understand the use of cohesive devices for better conversation

UNIT-IV

Classes:07

- Writing Stories from outline-Developing the hints-How to write stories from the outline given.
- Letter writing-Informal letter-Formal letter (Business and order)-Official letter.
- 3. Abstract Writing-Book Review-Film Review

Learning Outcomes

the end of the module, the learners will be able to

Aunfer uteathings of unfamiliar words using contextual clues

write summeries based on global comprehension of reading/listening texts

Use appropriate format for writing memos and produce a coherent paragraph to notice ula Komunumma Engineering Collage

use language appropriate for description elements

INUTONOMOUClasses:07

- Designing a Resume-Guidelines for a better presentations-Purpose of the Resume-Designing and formatting your Resume with covering letter- Difference between CV & Resume
- Welcome Speech and Vote of Thanks-Charesteristics of Welcome Speech-Some common welcome quotes-How to write Vote of thanks-The order of speech for vote of thanks.
- 3. Report Writing- Types of Reports-Project Report

Learning Outcomes

At the end of the module, the learners will be able to

- make formal oral presentations using effective strategies
- write his/her winning Resume
- produce a well-organized speech

Text Books:

- Advanced Skills for Communication in English: Book I by V.JEYA SANTHI Dr.R.SELVAM M.A., M.Phil., Ph.D. - December 2015 with 200 Reads, Publisher: 978-81-2343-101-7, Publisher: New Century Book House
- 2. Effective Technical Communication, M Ashraf Rizvi, Tata Mc.Graw-Hill Pub,company Ltd

Reference Books:

- Business Etiquette: A Guide For The Indian Professional (English, Paperback, Shital Kakkar Mehra) Publisher: HarperCollins Publishers India Genre: Business & Economics ISBN: 9789350291085, 9350291088
- Resume: The Secrets to Writing a Resume that is guaranteed to Get You the Job (Resume Writing, CV, Interview, Career Planning, Cover Letter, Negotiating Book 1) Kindle Edition Publisher: Lifestyle Initiative, Inc. (23 June 2016)

How to Write and Give a Speech: A Practical Guide for Anyone Who Has to Make Every Word Count 3rd Edition, Kindle Edition Publisher: St. Martin's Griffin; 3 edition (4 March 2014)

Web References:

Speaking

https://www.talkenglish.com/

BBC Learning English - Pronunciation tips

Merriam-Webster - Perfect pronunciation Exercises

All Skills

https://www.englishclub.com/

http://www.world-english.org/

http://learnenglish.britishcouncil.org/

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Demonstrate to overcome the barriers in communication process using non-verbal language suitable to different situations in professional life to become effective technical communicator.
- CO2: Apply the knowledge on social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information.
- CO3: Exhibit the knowledge on cohesive devices for better conversation in informal discussions and speak clearly on a specific topic using suitable discourse markers.
- CO4: Apply the concepts of Entrepreneurship Skills and Analyze discourse markers to speak clearly on a specific topic in informal discussions and create a coherent paragraph writing.
- CO5: Apply the Knowledge to recognize the need of ability to engage in independent and life-long learning communication effectively in English over speech.



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DESIGN THINKING & PRODUCT INNOVATION

B.Tech II Year II Se	mester								
Course Code	Category	H	ours/we	ek	Credits		Maximum Marks		
19CA53301	Foundation	L	T	P	C	CIA	SEE	TOTAL	
DCASSSI	Foundation	2	1	0	3	30	70	100	
Contact Classes:32	Tutorial Clas	ses:	Practi	cal Cl	asses: Nil			lasses:48	

COURSE OBJECTIVES:

The course should enable the students to:

- 1. Understand the concepts of design thinking approaches.
- Create design thinking teams and conduct design thinking sessions.
- 3. Apply both critical thinking and design thinking in parallel to solve problems.

4. Apply some design thinking concepts to their daily work.

UNIT-I INTRODUCTION TO DESIGN THINKING

Classes:09

Introduction to Design thinking: Concept and its role within new product development and Innovation, Frame work of design thinking, Non linear process, principles and mindset.

Inspirational Design Briefing: Nine Criteria, Writing, Research findings, pitfalls to avoid, Keys to success.

UNIT-II CUSTOMER EXPERIENCE MAPPING

Classes:10

Customer Experience Mapping: Inputs to experience mapping, Experience mapping process, Experience map as spring board to innovative solutions.

UNIT-III BRIDGE RESEARCH AND CONCEPT DESIGN

Classes:10

Bridge research and concept design: Challenges in idea generation, Need for systematic method to connect to the user, The Visualize, Empathize and Ideate method, applying the method.

UNIT-IV CREATIVITY IN IDEA GENERATION

Classes: 10

Boosting creativity in idea generation using Design heuristics: Design Heuristics, The evidence base, Design heuristics for idea generation, Using Design heuristics to generate design concepts, Evidence of the value of design heuristics tools.

The role of design in early stage ventures: An emerging start up culture, Basics, Process, and Troubleshooting common mistakes.

UNIT-V CORPORATE CULTURE OF DESIGN THINKING

Classes:09

Leading for Corporate culture of design thinking: What is corporate culture, Impact of corporate culture, Corporate forces that undermine the design thinking, Four pillars of innovation for enabling design thinking, Four stages of transforming to a culture of design thinking.

Text Books:

- 1. Philip Kosky, Robert T. Balmer, William D. Keat, George Wise, "Exploring Engineering: An Introduction to Engineering and Design", 4th edition, Elsevier, 2016.
- 2. David Ralzman, "History of Modern Design", 2nd edition, Laurence King Publishing Ltd., 2010
- 3. An AVA Book, "Design Thinking", AVA Publishing, 2010.

Reference Books:

- 1. G. Pahl, W.Beitz, J. Feldhusen, KH Grote, "Engineering Design: A Systematic Approach", 3rd edition, Springer, 2007.
- 2. Tom Kelley, Jonathan Littman, "Ten Faces in Innovation", Currency Books, 2006.

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Demonstrate and analyze the concepts and principles of Design Thinking.
- CO2: Formulate the methods, processes, and tools of Design Thinking.
- CO3: Apply the basic knowledge on Design Thinking approach and model to real world situations
- CO4: Analyze and Design the Design heuristics to generate the design concepts.

CO5: Analyze and Design the role of primary and secondary research in the discovery stage of Design AUTONOMOUS Thinking AUI

D. I CCH II	Year II Sem	iester				55 7/2			
Cours	se Code	Category	H	lours/w	eek	Credits	N	laximum	Marks
190	52402	Foundation	L	T	P	C	CIA	SEE	TOTAL
1907	132402	Foundation	0	0	3	1.5	30	30 70	
Contact (Classes: Nil	Tutorial Classes: Nil		Pract	tical Cl	lasses:48	30 70 100 Total Classes:48		
The cours			ts to	\$100 PMC 55000	velopn	nent			
1. Use 2. Imp to res	e should ena e multi-media prove the stu- listen the En- pond appropri	ES: able the studen	ts to r lang in Eng norm	uage de glish, th nal con- cio-cult	rough a versatio ural an	a well-devel onal speed b d Profession	y educate al contex	d English ts.	

UNIT-II WRITING SKILLS

Classes:09

1. Precise Writing

- 2. Resume Preparation
- 3. E-mail Writing

UNIT-III PRESENTATION SKILLS

Classes:09

- 1. Oral presentation
- 2. Power point presentation
- 3. Poster presentation

UNIT-IV GETTING READY FOR JOB

Classes:10

- SWOT Analysis
- 2. Group Discussions
- 3. Interview skills

UNIT-V INTERPERSONAL SKILLS

Classes:10

- 1. Time Management
- Problem Solving & Decision Making
- 3. Etiquettes-Telephonic Etiquettes

Minimum Requirements for SOFT SKILLS Lab:

Soft Skills Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- Round Tables with movable chairs
- Audio-visual aids
- 4. LCD Projector
- Public Address system
- P IV Processor, Hard Disk 80 GB, RAM–512 MB Minimum, Speed 2.8 GHZ
- 7. T. V. a digital stereo & Camcorder
- 8. Headphones of High quality

Suggested Software:

1. Walder Info tech. Advanced English Communication Skills Lab

- 2. KAN SOLUTIONS Advanced English Language Communication Skills lab
- 3. DELTA's key to the Next Generation TOEFL Test: Advanced Skills Practice.
- 4. TOKEL & GRE(KAPLAN, AARCO & BARRONS, USA, Cracking GRE by CLEFFS)R

Reference

(AUTONOMOUS)

ARTIFICIAL NEURAL NETWORKS AND FUZZY LOGIC (OPEN ELECTIVE)

B. Tech III Year II S	Semester								
Course Code	Category	Но	urs /	Week	Credits		Maximu Marks		
17CA04506	Elective	L	T	P	C	CIA	SEE	Total	
37.30.30.1000	EJECTIVE	3	0		3	30 70 10		100	
Contact Classes: 45	Tutorial Classes: Nil	P	ractic	al Clas	ses: Nil	Tota	nl Classe	es: 45	

Course Objectives:

The course should enable the students to:

- Meliorate the knowledge of fundamentals and types of neural networks.
- VI. Develop the different Algorithms for neural networks.
- VII. Meliorate the knowledge in Fuzzy logic principles.

VIII. Correlate the principles with applications of neural networks and fuzzy logic.

INTRODUCTION TO ARTIFICIAL NEURAL NETWORKS UNIT-I AND LEARNING LAWS

Classes: 11

Artificial neural networks and their biological motivation, terminology, models of neuron, topology, characteristics of artificial neural networks, types of activation functions,

Learning methods: Error correction learning, Hebbian learning, perception, XOR problem, perceptron learning rule convergence theorem, adaline.

UNIT-II FEEDFORWARD AND RECURRENT NEURAL NETWORKS

Classes: 08

Multilayer perception, back propagation learning algorithm, universal function approximation, associative memory, auto association, hetero association, recall and cross talk, linear auto associator, bi-directional associative memory, Hopfield neural network.

UNSUPERVISED LEARNING AND SELF ORGANISING UNIT-III NETWORKS

Classes: 09

Competitive learning neural networks, max net, mexican hat, hamming net.

Kohonen self-organizing feature map, counter propagation, learning vector quantization, applications of neural networks in image processing, signal processing, modeling and control.

UNIT-IV FUZZY SETS AND FUZZY RELATIONS

Classes: 08

Introduction, classical sets and fuzzy sets, classical relations and fuzzy relations, Fuzzy set theory and operations, Properties of fuzzy sets, membership functions, fuzzy to crisp conversion, fuzzy arithmetic

UNIT-V FUZZY SYSTEMS

Classes: 09

Fuzzy Logic - Fuzzy Membership, Rules: Membership functions, interference in fuzzy logic, fuzzy if-then rules, Fuzzy implications and Fuzzy algorithms, Fuzzyfications & Defuzzificataions, Fuzzy Controller, Industrial applications.

Text Books:

- 4. LaureneFausett, "Fundamentals of Neural Networks-Architectures, algorithms and applications, Pearson Education Inc., 2004.
- Timothy L.Ross, Euzzy Logic with Engineering Applications, John Wiley and sons, 2004
- 6. S. Harris, "Neural Neworks, A Comprehensive Foundation", Pearson Education Inc., 2004.

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B. Tech III Y	ear I Semester	r					70	
Course code	Category	Hours/w	eek	Credits		Max	imum M:	arks
17CA52501	Foundation	L	T	P	C	CIA	SEE	TOTAL
	Margane Andrea Coloreda Color	- 59	-	3	2	-	*	
Contact Classes: Nil	Tutorial Clas	ses: Nil	Pr	actical Cla	sses:45 Total Classes:45			sses:45
1. This I	hould enable to ab focuses on a blowing targets	using multi-	-media					o meet
2. To in	prove the stude							
To in vocal educa profe	oulary and enab ated English spe ssional contexts	le them to leakers and r	isten ti espon	he English d appropria	spoken at tely in diff	normal co	onversatio io-cultura	al and
To in vocal educa profe	oulary and enab ated English spe ssional contexts er, they would	le them to leakers and r	isten ti espon	he English d appropria	spoken at tely in diff	normal co	onversatio io-cultura	al and

UNIT-I	COMMUNICATIVE COMPETENCE	Classes:09
1. Reading Co	mprehension	
2. Listening (Comprehension	
3. Vocabular	v Development	
4. Communic	ation Styles and Competencies	
UNIT-II	WRITING SKILLS	Classes:09
1. Report Wr	iting	
2. Resume Pr	eparation	
3. E-mail Wr		
UNIT-III	PRESENTATION SKILLS	Classes:12
 Oral prese 	ntation	
	nt presentation	
Informativ	e presentation	
UNIT-IV	GETTING READY FOR JOB	Classes:09
 SWOT/C 	Analysis	
2. Group D		
Interview	skills	
UNIT-V	INTERPERSONAL SKILLS	Classes:06
1. Time Man	agement	
2. Problem S	olving & Decision Making	
3. Etiquettes		
Minimum Requ	irements for SOFT SKILLS Lab:	05
The second secon		

The Advanced English Communication Skills (AECS) Laboratory shall have the following infra-structural facilities to accommodate at least 60 students in the lab:

- Spacious room with appropriate acoustics.
- 2. Round Tables with movable chairs
- 3. Audio-visual aids
- 4. LCD Projector
- 5. Public Address system
- P IV-Processor, Hard Disk 80 GB, RAM-512 MB Minimum, Speed 2.8 GHZ
- 7. A distal stereo & Camcorder
- 8/ Headphones of High quality

Suggested Software:

The software coinciding of the prescribed topics elaborated above should be procured and Gon College

1. Water Inforcet: Advanced English Communication Skills Lab. (Autonomous)

1. Watern Infotech: A vanced English Communication Skills Lab

SOLUTIONS-Advanced English Language Communication Skills language

B. Tech III Year II Sen		1 2000		2000	020752500	100		
Course Code	Category	1	-	Week	Credits	1	aximum Marks	-
17CA052601	Foundation	L	T	P	C	CIA	SEE	Total
	W	3	1	1:1	3	30	70 lasses: 45	100
Contact Classes: 45 Course Objectives:	Tutorial Class	ses: Nil		Practica	l Classes: Nil	Total C	IMSSES: 45	
To enhance empl To enable the stu	oyability skills thro dents collectively i	n organ	iz	ational sl	cills.	(Interviev	vs.	
UNIT – I	VERBAL A SKILLS	BILIT	Y	& COM	MUNICATIO	N	Classes:09	
Communication: Verba Communication - Oral, A Grammar:- usage of A Comparison, Conjunctic Common Errors in Engli	Aural, Writing and articles, Preposition on, Simple, Composish.	Readin n, Verb ound &	g), T	Tenses, /	Adverbs, If-Cor Active & Pas	nditionals, sive voice	Adjectives, De e, Reported Spe	egrees o
Word Power: - Synony						Idioms &		
UNIT- II COMPREHENSIONS:	EMPLOYA					f 190 f.	Classes:09	D
Writing, E-mail Writing SVAR (Accent): Phonet GROUP ACTIVITIES	les, Inflections, Str	ess and						
UNIT - III	Arithmetic	Ш				C	lasses:09	
Number System, Averag Loss, Probability, Permi	itation & Combinat	ions, L	og	erest & C arithms	Compound Inter		ems on Ages, P	rofit &
UNIT - IV	Arithmetic	3027						
Time & work, Time and Interpretation.	Distance, Allegati	on and	М	ixtures, i	Mesuration2D,	Mensurati	on3D, Data	
UNIT -V	Reasoning I	I			and the commentation	C	lasses:08	
Analogy, Classification, Critical Reasoning – Sy Seating Arrangement, P Text Books: 1. Rizvi M. Ashenf	ilogism, Statements uzzles.	& Ass	sur	nptions,	Statements & A	arguments	, Data sufficient	
Limited. 1756. 2. R.S Age 11. C. 3. R.S.Age 11. C. 3.	Immitative Aptitud	le for C	or	npetitive	Examinations,	S. Chand		21
References:		D	200	0	Jantine Proces	alas A shall	He Dagad Appro	anh to
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	CO	MMI	UNIC	ATIVE	ENGLISH				
B.Tech I Year I Sem	iester	V.			7-1-0				
Course Code	Category	He	urs /	Week	Credits	Maximum Marks			
	TO THE PROPERTY OF	Foundation L T P		P	C	CIA	SEE	TOTAL	
20CA52101	Foundation			0	3	30	70	100	
Contact Classes: 48	Tutorial Classes	:Nil	Pra	ctical C	lasses: Nil	Total Classes: 48			

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers.
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials.
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations.
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing.

UNIT-I Lesson: On the Conduct of Life: William Hazlitt Classes:10

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions.

Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others.

Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information.

Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph.

Grammar and Vocabulary: Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- > Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
- Form sentences using proper grammatical structures and correct word forms

UNIT-II Lesson: The Brook: Alfred Tennyson Classes: 10 Listening: Answering a series of questions about main idea and supporting ideas after listening to audio

texts.

Speaking: Discussion in pairs/ small groups on specific topics followed by short structured talks.

Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together.

Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing -

Gramman and Vocabulary Cohesive devices - linkers, sign posts and transition signals; use of articles

and zer serticle: prepositions.

Learning Outcomes (AUTONOMOUS)

At the end of the module, the learners will be able to

- > Comprehend short talks on general topics
- Participate in informal discussions and speak clearly on a specific topic using suitable discourse markers
- Understand the use of cohesive devices for better reading comprehension
- Write well structured paragraphs on specific topics
- Identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT-III Lesson: The Death Trap: Saki

Classes:10

Listening: Listening for global comprehension and summarizing what is listened to.

Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension.

Writing: Summarizing - identifying main idea/s and rephrasing what is read; avoiding redundancies and repetitions.

Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- Comprehend short talks and summarize the content with clarity and precision
- > Participate in informal discussions and report what is discussed
- > Infer meanings of unfamiliar words using contextual clues
- Write summaries based on global comprehension of reading/listening texts
- Use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing

UNIT-IV Lesson: Innovation: Muhammad Yunus

Classes:09

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video.

Speaking: Role plays for practice of conversational English in academic contexts (formal and informal)
- asking for and giving information/directions.

Reading: Studying the use of graphic elements in texts to convey information, reveal 46 trends/patterns/relationships, communicate processes or display complicated data.

Writing: Letter Writing: Official Letters/Report Writing

Grammar and Vocabulary: Quantifying expressions - adjectives and adverbs; comparing and contrasting; Voice - Active & Passive Voice

Learning Outcomes

At the end of the module, the learners will be able to

- Infer and predict about content of spoken discourse
- Understand verbal and non-verbal features of communication and hold formal/informal conversations
- Interpret graphic elements used in academic texts
- Produce a coherent paragraph interpreting a figure/graph/chart/table
- Use language appropriate for description and interpretation of graphical elements

UNIT-V Lesson: Politics and the English Language: George Orwell

Classes:09

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension.

Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides.
Reading: Reading for comprehension.

Writing: Writing structured essays on specific topics using suitable claims and evidences

Grammar and Vocabulary Editing short texts -identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes MGUS

At the end of the module, the learners will be able to

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	C PROGRAM	1MIN	G LA	NGU	AGE					
B.Tech I Year II Sen	nester									
Course Code	Category	ory Hours/Week Credits					Maximum Marks			
		L	T	P	C	CIA	SEE	Total		
20CA05101	Foundation	3	0	0	3	30	70	100		
Contact Classes:48	Tutorial Classes: Nil	Practical Classe		sses: Nil	Total Classes:48					

- To acquire problem solving skills.
- To be able to develop flowcharts and algorithms for the given problem.
- 3. To learn how to write modular programs in C.
- 4. To enable them to use arrays, pointers, strings and structures in solving problems.

UNIT-I INTRODUCTION

Classes:10

Introduction to C Language Elements, Variables, Data Types, Operators and Expressions, Constants, Declarations, Operators, Type Conversions, Operator Precedence and Order of Evaluation. Statements: Selection Statements, Iteration Statements, Jump statements: Break, Continue, go to.

UNIT - II ARRAYS

Classes:10

Accessing Array Elements, Single & Multi Dimensional Arrays. Strings: Declaring, Initialization of a String, Reading and Writing Strings, String manipulation functions from the standard Library, String I/O Functions: gets(), puts().

UNIT - III FUNCTIONS

Classes:10

Definition, Function Call- Call by Value, Storage Class Specifiers, Understanding the scope of Functions with its Types, the Return Statement, Recursion, Command Line Arguments.

UNIT - IV POINTERS

Classes:9

Pointer Variables, Pointer Expressions, Pointers And Arrays, Pointers to Strings, Call by Reference, Dynamic Memory Allocation Functions, Problems with Pointers, Dangling pointers.

UNIT-V STRUCTURES AND UNIONS

Classes:9

Accessing structure members, Array of structures, Passing Structures to Functions, Structure Pointers, Self Referential Structures, Structures within Structures, Bit Fields, Enumerations, Typedef. Files handling in C, File oriented operations.

Text Books:

C Programming-A Problem Solving Approach, Forouzan, Gilberg, Cengage.

References:

- The Complete Reference C, Fourth Edition, Herbert Schildt, McGraw-Hill Education.
- Programming with C, Second Edition, Byron Gottfried, Schaum's outline, McGraw-Hill Education.
- 3. Computer Fundamentals and C programming, B. L Juneja, A Seth, Cengage Learning India.
- Programming in C and Data Structures", Hanly, Koffman, Kamthane, Ananda Rao, Pearson.
- Programming in ANSI C, 8/e, by E Balagurusamy
- 6. The C Programming Language" Second Edition, Brain W. Kernighan, Dennis M. Ritchie, Prentice Hall, India.

Web References

- 1. https://www.tartorie/spoint.com/cprogramming/
- 2. www.strigytonight.com/c/
- fresh refresh.com/c-programming/
- 4. www.aprogramming.com/tutorial/c/

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E-Text Books

bookboom/en/c-epp-csharp-ebooks

(AUTONOMOUS)

COMMUNICATIVE ENGLISH LABORATORY B.Tech I Year I Semester Course Code Category Hours/week Credits Maximum Marks T P C CIA SEE TOTAL Foundation 20CA52102 0 0 3 1.5 30 100 Tutorial Classes:0 Contact classes: 0 Practical Classes: 48 Total Classes: 48

COURSE OBJECTIVES:

The course should enable the

- Students will be exposed to a variety of self instructional, learner friendly modes of language learning.
- 2. Students will learn better pronunciation through stress, intonation and rhythm.
- Students will be trained to use language effectively to face interviews, group discussions, public speaking.
- Students will be initiated into greater use of the computer in resume preparation, report writing, format making etc.

List of Topics

- 1. Phonetics
- 2. Reading comprehension
- 3. Describing objects/places/persons
- 4. Role Play or Conversational Practice
- 5. JAM
- 6. Etiquettes of Telephonic Communication
- 7. Information Transfer
- 8. Note Making and Note Taking
- 9. E-mail Writing
- 10. Group Discussions-1
- 11. Resume Writing
- 12. Debates
- 13. Oral Presentations
- 14. Poster Presentation
- 15. Interviews Skills-1

Minimum Requirements for ELCS Lab:

The English Language Lab shall have two parts:

- Computer Assisted Language Learning (CALL) Lab: The Computer aided Language Lab for 60 students with 60 systems, one master console, LAN facility and English language software for self study by learners.
- The Communication Skills Lab with movable chairs and audio-visual aids with a P.A. system, Projector, a digital stereo-audio & video system and camcorder etc.

System Requirement (Hardware component):

Computer network with LAN with minimum 60 multimedia systems with the following specifications:

- i) P-IV Processor
 - a) Speed 2.8 GHZ
 - b) RAM 512 MB Minimum
 - c) Hard Disk 80 GB
- ii) Headphones of High quality

Suggested Software:

- 1. Clarity Pronunciation Power Part I (Sky Pronunciation)
- 2 Clarity-Profunciation Power part II
- K-Van Advanced Communication Skills

Walden InfoTech Software.

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	C PROGRA	MM	ING	LAB					
B.Tech I Year II Sem	ester					_			
Course Code	Category	Но	urs/W	/eek	Credits	Maximum Marks			
107905000+10.0400406-17	Barwing or Marine of	L	T	P	C	CIA	SEE	Total	
20CA05102	Foundation	0 0 3		1.5	30	70	100		
Contact Classes: Nil	Tutorial Classes: Nil	P	ractic	al Cla	isses: 48	Tota	Total Classes:48		

- 1. Learn C Programming language.
- 2. To make the student solve problems, implement algorithms using C language.
- 3. To write diversified solutions using C language.

LIST OF PROGRAMS

Week-I

Write C program to

- a) Print the size of all data types.
- b) Find the Sum of three numbers
- e) Exchange (swap) of two numbers by using third variable.
- d) Exchange (swap) of two numbers without using third variable.

Week - 2

- a) Develop a calculator to convert time, distance, area, volume and temperature from one unit to another.
- b) Write a C program to find the Priority and associativity of operators using expressions. Take the expressions with different operators.
- c) Write a C program to swap two numbers using bitwise operators.

Week-3

- a) Write a C program to find whether the given integer is odd or even.
- b) Write a C program to find the Maximum of three numbers.
- c) Write a C program to print 'hello world' without using semicolon.
- d) Write a C program to find whether the given number is odd or even using bitwise operator.
- e) Write a C program to find the maximum of two numbers using Conditional operator.
- f) Write a program which takes two integers and one arithmetic operator from the user, and performs the operation and then prints the result by using switch-case.(Operators: +, -, *, /, %)

Week-4

- a) Write a C program to generate the required multiplication table.
- b) Write a C program to find the Factorial of a given integer.
- e) Write a C program to compute x power of n (xn) without using built in functions.
- d) Write a C program to check whether the given integer is prime or not.
- e) Write a C program to find GCD

Week-5

Write a C program to find the sum of the digits of an integer.

Write's C grogram to find whether the given integer is a Palindrome or not.

c) Write a program to generate Fibonacci numbers in the given range.

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 a) Write a C program to print the following pattern. 22 333 b) Print multiplication tables up to the given table. c) Write a C program to print series of prime numbers in the given range. Week - 7 a) Write a C program to check whether the given integer is strong number or not. b) Write a C program to evaluate the sum of the following series up to 'n' terms $e^x = 1 + x + x^2/2! + x^3/3! + x^4/4! + \dots$ Week - 8 a) Compute the maximum, minimum and average of N numbers. b) Write a C program to find the sum of positive and negative numbers in a given set(Array) of numbers. c) Write a program to implement linear search technique d) Write a C program to read two matrices and find i) Sum. ii) Product and display the result in the matrix form. Week-9 a) Write a C program to read a matrix and perform the following operations i) Find the sum of Diagonal Elements of a matrix. Print Transpose of a matrix. iii) Print sum of even and odd numbers in a given matrix. Week - 10 a) Write a C program to read two strings and perform the following operations without using built-in string library functions. i) String length determination. ii) Compare Two Strings. Concatenate Two Strings. iv) String reversing v) Determining whether a string is a palindrome or not b) Write a C program to accept a line of characters and print the number of Vowels, Consonants, blank spaces, digits and special characters. c) Write a C program to read a set of strings and sort them in alphabetical order. Week-11 a) Write a C program to illustrate the following types of functions i) Function with no arguments and no return values ii) Function with arguments and no return value iii) Function without arguments and with return value iv) Function with arguments and with return value Week-12 a) Write a C program to exchange two numbers using pointers. m to print the elements of an array in reverse order using pointers. by Write'n P AWrite a Consogram to express a four digit number in words. For example 1546 should be written as und thousand five hundred and forty six gram using recursion for finding Factorial of a number reatest common divisor using recursion for two numbers as specified by TIRUPATI

	EN	GINEEL	RING	G WORK	SHOP				
B.Tech I Year I		CONTRACTOR OF THE PARTY OF THE	-	The same of the sa					
Course Code	Category	H	lours	/Week	Credits	Maximum Marks			
20CA031	Foundation	L	Т	P	С	CIA	SEE	Total	
02	roundation	0	0 0 2	3	1.5	30	70	100	
Contact Classes: Nil	Tutorial Classes: Nil			Practic	al Classes:48	Tota	l Class	es: 48	

- Identify and use of tools, types of joints in carpentry, fitting, tin smithy welding and foundry operations.
- 2. Understand of electrical wiring and components.

S. No	XPERIMENTS (Any 10 of the following exper	
3. 110	Name of the	
-	CARPENTRY	
Exp. 1	Preparation of dove tail joint as per given tape	r angle.
Exp. 2	Preparation of lap joint as per given dimension	15.
Exp. 3	Preparation of Cross Lap joint as per given tap	er angle.
	FITTING	- Al-
Exp. 4	Make a square fit for given sizes.	
Exp. 5	Make a V Joint for given dimensions.	
Exp. 6	Make a half round fit for given dimensions.	
	TIN SMITHY	
Exp. 7	Prepare the development of a surface and make	e a rectangular tray.
Exp. 8	Prepare the development of a surface and make	a round tin.
	FOUNDRY	
Exp. 9	Prepare a single Piece pattern.	
Exp. 10	Prepare a Split pattern.	
	WELDING	
Exp. 11	Preparation of V butt joint	
Exp. 12	Preparation of Lap joint	
Exp. 13	Preparation of T fillet joint	
	The state of the s	

References:

- 1. K. C. John, "Mechanical Workshop Practice", PHI, 2nd Edition, 2010.
- H.S. Bawa, "Workshop Practice", Tata McGraw Hill Publishing Company Limited, 2nd Edition 2009.
- S. K. Hajra Choudhury, A. K. Hajra Choudhury, "Elements of Workshop Technology", Media promoters, 1st Edition, 2009.
- 4. Engineering Work shop practice for JNTU, V. Ramesh Babu, VRB Publishers Pvt. Ltd., 2009
- 5. Work shop Manual / P.Kannaiah/ K.L.Narayana/ SciTech Publishers.

COURSE OUTCOMES:

Upon the successful completion of the course, the student will be able to

- CO1: Demonstrate the knowledge on differ tools used in carpentry, fitting, sheet metal, basic machining process, foundry and welding.
- CO2: Analyze the basic principle of carpentry, fitting, sheet metal, basic machining process, foundry and welding.
- CO3: Design small components using different materials include wood, GI sheet, MS plates, foundry and welding.
- CO4: Apply basic carpentry, fitting, sheet metal, basic machining process, foundry and welding.
- CO5: Follow the ethical principles in while doing the exercises.
- CO6: Do de exercises effectively as an individual and as a team member in a group.
- CO7: communicate verbally among team members and in written form, the understanding about the trade

Chedalawada Romanomma Engineering College (AUTONOMOUS) TIRUPATI



COMMUNICATIVE ENGLISH 1

Course code	Category H		urs/w	eek	Credits	Maximum Marks			
19CA52101	Foundation	L T P		P	C	CIA	SEE Tot		
	roundation	2	0	0 0 2		30	70	100	
Contact Classes:32	Tutorial Clas	ses:	Pra	etical	Classes: Nil	Total Classes:32			

Course Objectives:

The course should enable the students to:

- Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers.
- Focus on appropriate reading strategies for comprehension of various academic texts and authentic materials.
- Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations.
- Impart effective strategies for good writing and demonstrate the same in summarizing, writing well
 organized essays, record and report useful information.
- Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing.

UNIT-I Classes:07

Listening: Identifying the topic, the context and specific pieces of information by listening to short audio texts and answering a series of questions.

Speaking: Asking and answering general questions on familiar topics such as home, family, work, studies and interests; introducing oneself and others.

Reading: Skimming to get the main idea of a text; scanning to look for specific pieces of information.

Reading for Writing: Beginnings and endings of paragraphs - introducing the topic, summarizing the main idea and/or providing a transition to the next paragraph.

Grammar and Vocabulary: Content words and function words; word forms: verbs, nouns, adjectives and adverbs; nouns: countables and uncountables; singular and plural; basic sentence structures; simple question form - wh-questions; word order in sentences.

Learning Outcomes

At the end of the module, the learners will be able to

- Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
- Ask and answer general questions on familiar topics and introduce oneself/others
- Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
- Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs

· Form sentences using proper grammatical structures and correct word forms

UNIT-II

Classes:07

Listening: Answering a series of questions about main idea and supporting ideas after listening to audio texts.

Speaking: Discussion in pairs/ small groups on specific topics followed by short structured talks.

Reading: Identifying sequence of ideas; recognizing verbal techniques that help to link the ideas in a paragraph together.

Writing: Paragraph writing (specific topics) using suitable cohesive devices; mechanics of writing punctuation, capital letters.

Grammar and Vocabulary: Cohesive devices - linkers, sign posts and transition signals; use of articles and zero article; prepositions.

Learning Outcomes

At the end of the module, the learners will be able to

· combined short talks on general topics

· paricipate in informal discussions and speak clearly on a specific topic using suitable discourse

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markers

- · understand the use of cohesive devices for better reading comprehension
- · write well structured paragraphs on specific topics
- · identify basic errors of grammar/ usage and make necessary corrections in short texts

UNIT-III

Classes:06

Listening: Listening for global comprehension and summarizing what is listened to.

Speaking: Discussing specific topics in pairs or small groups and reporting what is discussed Reading: Reading a text in detail by making basic inferences -recognizing and interpreting specific context clues; strategies to use text clues for comprehension.

Writing: Summarizing - identifying main idea/s and rephrasing what is read; avoiding redundancies and repetitions.

Grammar and Vocabulary: Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for academic purposes.

Learning Outcomes

At the end of the module, the learners will be able to

- comprehend short talks and summarize the content with clarity and precision
- · participate in informal discussions and report what is discussed
- infer meanings of unfamiliar words using contextual clues
- · write summaries based on global comprehension of reading/listening texts
- use correct tense forms, appropriate structures and a range of reporting verbs in speech and writing.

UNIT-IV

Classes:06

Listening: Making predictions while listening to conversations/ transactional dialogues without video; listening with video.

Speaking: Role plays for practice of conversational English in academic contexts (formal and informal) - asking for and giving information/directions.

Reading: Studying the use of graphic elements in texts to convey information, reveal 46 trends/patterns/relationships, communicate processes or display complicated data.

Writing: Information transfer; describe, compare, contrast, identify significance/trendsbased on information provided in figures/charts/graphs/tables.

Grammar and Vocabulary:Quantifying expressions - adjectives and adverbs; comparing and contrasting; degrees of comparison; use of antonyms

Learning Outcomes

At the end of the module, the learners will be able to

- · infer and predict about content of spoken discourse
- · understand verbal and non-verbal features of communication and hold formal/informal conversations
- interpret graphic elements used in academic texts
- · produce a coherent paragraph interpreting a figure/graph/chart/table
- · use language appropriate for description and interpretation of graphical elements

UNIT-V

Classes:06

Listening: Identifying key terms, understanding concepts and answering a series of relevant questions that test comprehension.

Speaking: Formal oral presentations on topics from academic contexts - without the use of PPT slides. Reading: Reading for comprehension.

Writing: Writing structured essays on specific topics using suitable claims and evidences

Grammar and Vocabulary: Editing short texts -identifying and correcting common errors in grammar and usage (articles, prepositions, tenses, subject verb agreement)

Learning Outcomes

At the end of the module, the learners will be able to

take notes while listening to a talk/lecture and make use of them to answer questions take formal oral presentations using effective strategies

comprehend discuss and respond to academic texts orally and in writingECTOR

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(AUTONOMOUS)

COMMUNICATIVE ENGLISH . I LAR

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1. 2. 3.	Small talks on Debates	general topics							
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- 2. Information Transfer
- 3. Non-verbal Communication Dumb Charade

Learning Outcomes

At the end of the module, the learners will be able to

- Learn different ways of asking information and giving directions
- Able to transfer information effectively
- understand non-verbal features of communication.

UNIT-V

Classes:06

- 1. Oral Presentations
- 2. Précis Writing and Paraphrasing
- 3. Reading Comprehension and spotting errors

Learning Outcomes

At the end of the module, the learners will be able to

- make formal oral presentations using effective strategies
- learn different techniques of précis writing and paraphrasing strategies
- comprehend while reading different texts and edit short texts by correcting common errors

Minimum Requirements for ELCS Lab:

The English Language Lab shall have two parts:

- Computer Assisted Language Learning (CALL) Lab: The Computer aided Language Lab for 60 students with 60 systems, one master console, LAN facility and English language software for self study by learners.
- The Communication Skills Lab with movable chairs and audio-visual aids with a P.A. system, Projector, a digital stereo-audio & video system and camcorder etc.

System Requirement (Hardware component):

Computer network with LAN with minimum 60 multimedia systems with the following specifications:

- i) P IV Processor
 - a) Speed 2.8 GHZ
 - b) RAM 512 MB Minimum
 - c) Hard Disk 80 GB
- ii) Headphones of High quality

Suggested Software:

- 1. Clarity Pronunciation Power Part I (Sky Pronunciation)
- Clarity Pronunciation Power part II
- 3. K-Van Advanced Communication Skills
- 4. Walden InfoTech Software.

References:

- A Textbook of English Phonetics for Indian Students 2nd Ed T. Balasubramanian. (Macmillian), 2012.
- 2. A Course in Phonetics and Spoken English, Dhamija Sethi, Prentice-Hall of India Pvt .Ltd
- Speaking English Effectively, 2nd Edition Krishna Mohan & NP Singh, 2011. (Mc Millan).
- 4. A Hand book for English Laboratories, E. Suresh Kumar, P. Sreehari, Foundation Books,

Spring Board Succes, Sharada Kouhik, Bindu Bajwa, Orient Blackswan, Hyderabad, 2010.

OURSE OUTCOMES:

pon the successful completion of the course, the student will be able to

Exhibit the skills on the different aspects of the English Language proficiency with emphasis

//Rimitl*

II SEMESTER

Course code	Category	н	ours/weel	k	Credits	1	1aximun	Marks
17CA52201	Foundation	L	T	P	C	CIA	SEE	TOTAL
	3.5000000000000000000000000000000000000	3	-	-	3	30	70	100
Contact Classes:51	Tutorial Class	es: -	Practica	al Clas	ses: Nil		Fotal Cla	isses:51
I. Con II. Intro III. Mai UNIT-I LI TEXT: Import the pa GRAMMAR: VOCABULAF UNIT-II EI TEXT: Renew Nucle GRAMMAR:	Active and Passi RY: Phrasal Verb NERGY Table and Non-R ar Energy. Direct and Indir	n intel element compet 4 THI Differi ive vo ive vo enewa	Iligible En ints of Grar tence through E PAST ing perspec- ice – Adject	nmar a ugh tra ctives- ctives-	nd Compositi ining in Voca Modern Corp Degrees of Co	ion of Eng bulary, so oratism-I ompariso	glish lang entence st Cuessons fr	ructures. lasses:10
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INTERNET OF THINGS

PROFESSIONAL EL	ECTIVES III									
Course Code	Category	He	ours / W	eek	Credits	Ma	Maximum Marks			
17CD04205	Core	L	T	P	C	CIA	SEE	Total		
110001200	Core	4	0	+	4	40	60	100		
Contact Classes: 60	Tutorial Classes: Nil		Pract	ical Cl	asses: Nil	Total Classes: 60				
OUTCOMES:			-		1112 112 112 112 112	-		-		

- Able to understand the application areas of IOT
- Able to realize the revolution of Internet in Mobile Devices, Cloud &Sensor Networks
- Able to understand building blocks of Internet of Things and characteristics

UNIT - I	INTRODUCTION & CONCEPTS									Classes: 10			
	to Internet of Things, s, IOT Levels	Physical	Design	of I	OT,	Logical	Design	of	IOT,	IOT	Enabling		

UNII - II	Dominic St Lett le 1015				
Home Automation	, Cities, Environment, Energy, Retail, Logistics, Agriculture, Indus	stry, Health & Life			
Style					

M2M & SYSTEM MANAGEMENT WITH NETCONF-YANG UNIT - III M2M, Difference between IOT and M2M, SDN and NFV for IOT, Software defined Networking, Network Function Virtualization, Need for IOT Systems Management, Simple Network Management Protocol, Limitations of SNMP, Network Operator Requirements, NETCONF, YANG, IOT Systems management with NETCONF-YANG

UNIT - IV DEVELOPING INTERNET OF THINGS & LOGICAL DESIGN USING PYTHON								3	Classes: 10)		
Introduction,	IOT	Design	Methodology,	Installing	Python.	Python	Data	Types	R	Data	Structures	-

Control Flow, Functions, Modules, Packages, File Handling, Date/ Time Operations, Classes, Python Packages

UNIT - V	IOT PHYSICAL DEVICES & ENDPOINTS									Classes: 15	
What is an	IOT	Device,	Exemplary	Device,	Board,	Linux	on	Raspberry	Pi,	Interfaces.	and
Programming									1000	THE STATE OF THE S	e de la constitución de la const

Text Books:

VijayMadisetti, ArshdeepBahga," Internet of ThingsA Hands-On- Approach",2014, ISBN:978 0996025515

Reference Books:

- AdrianMcEwen, "Designing the Internet of Things", Wiley Publishers, 2013, ISBN:978-1-118-
- Daniel Kellmereit, "The Silent Intelligence: The Internet of Things". 2013, ISBN 0989973700



Chadalawada Ramanumma Engineering College (AUTONOMOUS) TIRUPATI

B. Tech III-ISem. (ECE)

15A04507

IC APPLICATIONS LABORATORY

All experiments are based upon 741 / TL 082/ASLK Kits.

- Study the characteristics of negative feedback amplifier
- Design of an instrumentation amplifier
- 3. Study the characteristics of regenerative feedback system with extension to design an astablemultivibrator
- Study the characteristics of integrator circuit
- 5. Design of Analog filters I
- 6. Design of Analog filters II
- 7. Design of a self-tuned Filter
- 8. Design of a function generator
- 9. Design of a Voltage Controlled Oscillator
- Design of a Phase Locked Loop(PLL)
- 11. Automatic Gain Control (AGC) Automatic Volume Control (AVC)
- 12. Design of a low drop out regulator
- 13. DC-DC Converter



Chadalawada Russanamma Engineering College (AUTONOMOUS)

TIRUPATE

B. Tech III-IISem. (ECE)

L T P C 3 1 0 3

15A04605 MATLAB PROGRAMMING (CBCC-I)

Objectives:

- . Understand the MATLAB Desktop, Command window and the Graph Window
- Be able to do simple and complex calculation using MATLAB
- · Be able to carry out numerical computations and analyses
- · Understand the mathematical concepts upon which numerical methods rely
- Ensure you can competently use the MATLAB programming environment
- · Understand the tools that are essential in solving engineering problems

1. UNIT-I:Introduction to MATLAB

MATLAB Interactive Sessions, Menus and the toolbar, computing with MATLAB, Script files and the Editor Debugger, MATLAB Help System, Programming in MATLAB.

2. UNIT-II:Arrays

Arrays, Multidimensional Arrays, Element by Element Operations, Polynomial Operations Using Arrays, Cell Arrays, Structure Arrays.

3. UNIT-III:Functions & Files

Elementary Mathematical Functions, User Defined Functions, Advanced Function Programming, Working with Data Files.

4. UNIT-IV: Programming Techniques

Program Design and Development, Relational Operators and Logical Variables, Logical Operators and Functions, Conditional Statements, Loops, the Switch Structure, Debugging Mat Lab Programs.

Plotting :XY- plotting functions, Subplots and Overlay plots, Special Plot types, Interactive plotting, Function Discovery, Regression, 3-D plots.

5. UNIT-V:Linear Algebraic Equations

Elementary Solution Methods, Matrix Methods for (Linear Equations), Cramer's Method, Undet-ermined Systems, Order Systems.



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B. Tech III-ISem. (ECE)

L T P C 3 1 0 3

15A04506 MEMS & MICRO SYSTEMS (MOOCS-I)

UNIT I

Introduction: Introduction to MEMS & Microsystems, Introduction to Microsensors, Evaluation of MEMS, Microsensors, Market Survey, Application of MEMS, MEMS Materials, MEMS Materials Properties, MEMS Materials Properties.

UNIT II

Microelectronic Technology for MEMS: Microelectronic Technology for MEMS, Micromachining Process, Etch Stop Technology and Microstructure, Surface and Quartz Micromachining, Fabrication of Micromachined Microstructure, Microstereolithography.

UNIT III

Micro Sensors: MEMS Microsensors, ThermalMicrosensors, Mechanical MicromachinedMicrosensors, MEMS Pressure Sensor, MEMS Flow Sensor, Micromachined Flow Sensors, MEMS Inertial Sensors, MEMS Gyro Sensor

UNIT IV

MEMS Accelerometers: Micromachined Micro accelerometers for MEMS, MEMS Accelerometers for Avionics, Temperature Drift and Damping Analysis, Piezoresistive Accelerometer Technology, MEMS Capacitive Accelerometer, MEMS Capacitive Accelerometer Process, MEMS for Space Application.

UNIT V

MEMS Applications: Polymer MEMS & Carbon Nano Tubes CNT, Wafer Bonding & Packaging of MEMS, Interface Electronics for MEMS, Introduction to BioMEMS and Micro Fluidics, Introduction to Bio Nano Technology, Bio Sensors, Fluidics, MEMS for Biomedical Applications (Bio-MEMS)

Text Books:

- NadimMalufKirt Williams "An Introduction to Microelectromechanical Systems Engineering", Second Edition, Artech House, Inc. Boston London, International Standard Book Number: 1-58053-590-9.
- Varadan, V KandVaradan "Microsensors, actuators, MEMS, and electronics for smart structures" Rai-Choudhury P (ed.) Handbook of Microlithography, Micromachining, and Microfabrication, SPIE OpticalEngineeringPress

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TIRUPATI

B. Tech III-ISem. (ECE)

L T P C

15A04507

IC APPLICATIONS LABORATORY

All experiments are based upon 741 / TL 082/ASLK Kits.

- Study the characteristics of negative feedback amplifier
- 2. Design of an instrumentation amplifier
- Study the characteristics of regenerative feedback system with extension to design an astablemultivibrator
- 4. Study the characteristics of integrator circuit
- Design of Analog filters I
- 6. Design of Analog filters II
- Design of a self-tuned Filter
- 8. Design of a function generator
- 9. Design of a Voltage Controlled Oscillator
- 10. Design of a Phase Locked Loop(PLL)
- 11. Automatic Gain Control (AGC) Automatic Volume Control (AVC)
- 12. Design of a low drop out regulator
- 13. DC-DC Converter



DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIBUFATI