S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
1	Computer Programming	CS101	yes		yes
2	Data Structures	CS103	yes		yes
3	Professional Communication and English – I	HU101	yes		yes
4	Professional Communication and English – II	HU102	yes		yes
5	Computer Programming Lab	CS102	yes		yes
6	Data Structures Lab	CS104	yes		yes
7	Phonetics & Communication Skills Lab	HU103			yes

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
8	Object Oriented Programming	CS201	yes		
9	Switching Theory and Logic Design	CS203	yes		yes
10	Discrete Structures & Graph Theory	CS204	yes		yes
11	Computer Organization and Architecture	CS205	yes		
12	Data Structures	CS206	yes		

14Object Oriented Programming LabCS202yesyes15Data Structures LabCS207yes16Operating SystemCS208yesyes17Computer GraphicsCS209yes18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS211yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS213yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yesyes28Software EngineeringCS307yesyes29Business English and LabML203yesyes30Open Source TechnologiesCS304 Labyesyes30Web Programming LabCS306yesyes31Web Programming LabCS306yesyes	13	Quantitative Aptitude	ML201	yes	 yes
Programming LabYesYes15Data Structures LabCS207yes16Operating SystemCS208yesyes17Computer GraphicsCS209yes18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS213yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS307yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and 	1.4				
15Data Structures LabCS207yes16Operating SystemCS208yesyes17Computer GraphicsCS209yes18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and LabML203yesyes30Open Source TechnologiesCS303 Labyesyes	14	-	CS202	yes	 yes
16Operating SystemCS208yesyes17Computer GraphicsCS209yes18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and 					
17Computer GraphicsCS209yes18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203yesyes30Open Source TechnologiesCS303 Labyesyes	15	Data Structures Lab	CS207		 yes
17Computer GraphicsCS209yes18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and 	16	Operating System	CS208	ves	 ves
18Database Management SystemsCS210yesyes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and 	10	operating officer	00200		<i>yes</i>
SystemsYesYes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 CS303yesyes30Open Source Technologies LabCS303 CS303yesyes	17	Computer Graphics	CS209		 yes
SystemsYesYes19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 	18	Database Management	CS210		
19Java ProgrammingCS212yesyes20Principles of Data CommunicationCS214yesyes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS305yesyes28Software EngineeringCS307yesyes29Business English and LabML203yesyes30Open Source TechnologiesCS303 Labyesyes	10	_	00110	yes	 yes
20Principles of Data CommunicationCS214yes21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS305yesyes28Software EngineeringCS307yesyes29Business English and 					
Communicationyes21Soft SkillsML202yes22Database Management Systems LabCS211yes23Java Programming LabCS213yes24Computer NetworksCS301yes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS305yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes30Open Source Technologies LabCS303 Labyesyes	19	Java Programming	CS212	yes	 yes
21Soft SkillsML202yesyes22Database Management Systems LabCS211yesyes23Java Programming LabCS213yesyes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS305yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 	20	Principles of Data	CS214		
22Database Management Systems LabCS211yes23Java Programming LabCS213yes24Computer NetworksCS301yes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS305yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes30Open Source Technologies LabCS303 Labyesyes		Communication		yes	
22Database Management Systems LabCS211yes23Java Programming LabCS213yes24Computer NetworksCS301yes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS305yes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes30Open Source Technologies LabCS303 Labyesyes	21	Soft Skills	MI 202	Vac	Vac
Systems Labyes23Java Programming LabCS213yes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes30Open Source Technologies LabCS303 Labyesyes	21	SUIT SKIIIS	IVILZUZ	yes	 yes
23Java Programming LabCS213yes24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes	22	Database Management	CS211	Ves	
24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes		Systems Lab			
24Computer NetworksCS301yesyes25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes	23	Java Programming Lab	CS213	yes	
25Open Source TechnologiesCS302yes26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes					
26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes	24	Computer Networks	CS301	yes	 yes
26Formal Languages and Automata TheoryCS304yesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Labyesyes	25	Open Source Technologies	CS302		 yes
Automata Theoryyesyes27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 CS303yesyes30Open Source Technologies LabCS303 	0.6				
27Web ProgrammingCS305yesyes28Software EngineeringCS307yes29Business English and Technical WritingML203 Vesyesyes30Open Source Technologies LabCS303 Vesyes	26		CS304	yes	 yes
28Software EngineeringCS307yes29Business English and Technical WritingML203 Vesyesyes30Open Source Technologies LabCS303 		Automata meory			
29 Business English and Technical Writing ML203 yes yes 30 Open Source Technologies Lab CS303 yes	27	Web Programming	CS305	yes	 yes
29 Business English and Technical Writing ML203 yes yes 30 Open Source Technologies Lab CS303 yes	28	Software Engineering	CS307		 VAC
Technical Writingyesyes30Open Source Technologies LabCS303 yesyes	20		0.5507		 yes
30 Open Source Technologies CS303 yes	29	-	ML203	ves	 Ves
Lab yes		Technical Writing		,	
Lab yes	30	Open Source Technologies	CS303		
31 Web Programming Lab CS306 yes yes		, .		yes	
ST WEDFLOGIALITING FAD C3500 YES YES	31	Web Programming Lab	C2206	Voc	NOC
	51		C3200	yes	 yes

32	Dot Net Technologies	CS308	yes	 yes
33	Design and Analysis of Algorithms	CS310	yes	
34	Network Programming	CS311	yes	
35	Compiler Design	CS313	yes	 yes
36	Mobile Computing	CS315	yes	 yes
37	Dot Net Technologies Lab	CS309		 yes
38	Network Programming Lab	CS312	yes	 yes
39	ALP and CD Lab	CS314		 yes
40	Object Oriented Analysis and Design	CS401	yes	 yes
41	Data warehousing and Mining	CS403	yes	 yes
42	Software Project Management	CS405	yes	
43	Advanced Computer Architecture	CS406	yes	 yes
44	OOAD Lab	CS402	yes	 yes
45	Data warehousing Lab	CS404	yes	
46	Project Work Preliminary	CS407	yes	
47	Network Security & Cryptography	CS408	yes	 yes
48	Big Data & Analytics	CS409	yes	 yes
49	Algorithms & Big Data Lab	CS410		 yes
50	Project Work	CS411	yes	 yes

G. PULLA REDDY ENGINEERING COLLEGE (Autonomous): KURNOOL

Department of Computer Science & Engineering

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
1	Computer Programming	CS101	yes		yes
2	Data Structures	CS103	yes		yes
3	Professional Communication and English – I	HU101	yes		yes
4	Professional Communication and English – II	HU102	yes		yes
5	Computer Programming Lab	CS102	yes		yes
6	Data Structures Lab	CS104	yes		yes
7	Phonetics & Communication Skills Lab	HU103			yes
8	Advanced Data Structures	CS203	yes		yes
9	Database Management Systems	CS205	yes		yes
10	Computer Organization & Architecture	CS207	yes		yes
11	Constitution of India	ML01			yes
12	Advanced Data Structures Lab	CS204	yes		yes
13	Data Base Management Lab	CS206	yes		yes
14	Advanced Communication Skills Lab	HU203			yes

15	Probability & Statistics	BS204	yes	 yes
16	Object Oriented Programming	CS208	yes	 yes
17	Operating System	CS210		 yes
18	Computer Networks	CS211	yes	 yes
19	Design & Analysis of Algorithms	CS212	yes	 yes
20	Software Engineering	CS213	yes	 yes
21	Object Oriented Programming Lab	CS209	yes	 yes
22	Soft Skills Lab	HU204	yes	 yes

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
23	Computer Networks	CS301	yes		
24	Open-Source Technologies	CS302	yes		yes
25	Web Programming	CS305	yes		yes
26	Software Engineering	CS307	yes		yes
27	Business English and Technical Writing	ML203	yes		yes
28	Open Source Technologies Lab	CS303	yes		yes
29	Web Programming Lab	CS306	yes		yes
30	Dot Net Technologies	CS308	yes		yes

31	Design and Analysis of Algorithms	CS310	yes		yes
32	Network Programming	CS311	yes		yes
33	Compiler Design	CS313			yes
34	Mobile Computing	CS315	yes		yes
35	Dot Net Technologies Lab	CS309	yes		yes
36	Network Programming Lab	CS312			yes
37	ALP and CD Lab	CS314			yes
38	Object Oriented Analysis and Design	CS401	yes		yes
39	Data warehousing and Mining	CS403	yes		yes
40	Software Project Management	CS405	yes		yes
41	Advanced Computer Architecture	CS406	yes		yes
42	OOAD Lab	CS402	yes		yes
43	Data warehousing Lab	CS404	yes		yes
44	Project Work Preliminary	CS407	yes		yes
45	Network Security & Cryptography	CS408			yes
46	Big Data & Analytics	CS409	yes		yes
47	Algorithms & Big Data Lab	CS410	yes		yes
48	Project Work	CS411	yes		yes
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G. PULLA REDDY ENGINEERING COLLEGE (Autonomous): KURNOOL

Department of Computer Science & Engineering

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
1	Computer Programming	CS101	yes		yes
2	Data Structures	CS103	yes		yes
3	Professional Communication and English – I	HU101	yes		yes
4	Professional Communication and English – II	HU102	yes		yes
5	Computer Programming Lab	CS102	yes		yes
6	Data Structures Lab	CS104	yes		yes
7	Advanced Data Structures	CS203	yes		yes
8	Database Management Systems	CS205	yes		yes
9	Advanced Data Structures Lab	CS204	yes		yes
10	Data Base Management Lab	CS206	yes		yes
11	Advanced Communication Skills Lab	HU203			yes
12	Probability & Statistics	BS204	yes		yes
13	Object Oriented Programming	CS208	yes		yes
14	Computer Networks	CS211	yes		yes
15	Design & Analysis of	CS212	yes		yes

	Algorithms			
16	Software Engineering	CS213	yes	 yes
17	Object Oriented Programming Lab	CS209	yes	 yes
18	Soft Skills Lab	HU204	yes	 yes
19	Data Mining	CS301	yes	 yes
20	Web Technologies	CS304	yes	 yes
21	Data Mining Lab	CS302	yes	 yes
22	Algorithms & Computer Networks Lab	CS305	yes	 yes
23	Mini Project-1	CS306	yes	 yes
24	Machine Learning	CS315	yes	 yes
25	Compiler Design	CS317	yes	 yes
26	Mobile Computing	CS319	yes	 yes
27	Machine Learning Lab	CS316	yes	 yes
28	Compiler Design Lab	CS318	yes	 yes
		0.1	2012	

Academic Year 2019-2020

Scheme 2013

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
29	Object Oriented Analysis and Design	CS401			yes
30	Data warehousing and Mining	CS403	yes		yes
31	Software Project Management	CS405	yes		yes

32	Advanced Computer Architecture	CS406		 yes
33	OOAD Lab	CS402		 yes
34	Data warehousing Lab	CS404	yes	 yes
35	Project Work Preliminary	CS407	yes	 yes
36	Network Security & Cryptography	CS408	yes	 yes
37	Big Data & Analytics	CS409	yes	 yes
38	Algorithms & Big Data Lab	CS410	yes	 yes
39	Project Work	CS411	yes	 yes

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
1	Programming for Problem Solving	ESC	yes		yes
2	English Proficiency Course	Audit			yes
3	Programming for Problem Solving Lab	ESL	yes		yes
4	Probability & Statistical Methods	BSC	yes		
5	English	HSSC	yes		yes
6	Engineering Drawing	ESC	yes		yes
7	Data Structures	ESC	yes		yes
8	Statistical Methods Lab	BSL	yes		yes
9	Phonetics & Communication Skills Lab	HSSL	yes		yes
10	Data structures lab	ESL	yes		yes

Academic Year 2020-2021

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
11	Advanced Data Structures	CS203	yes		yes
12	Database Management Systems	CS205	yes		yes
13	Computer Organization & Architecture	CS207			yes
14	Constitution of India	ML01			yes

15	Advanced Data Structures Lab	CS204	yes	 yes
16	Data Base Management Lab	CS206	yes	 yes
17	Advanced Communication Skills Lab	HU203		 yes
18	Probability & Statistics	BS204	yes	 yes
19	Object Oriented Programming	CS208	yes	 yes
20	Operating System	CS210		 yes
21	Computer Networks	CS211	yes	 yes
22	Design & Analysis of Algorithms	CS212	yes	 yes
23	Software Engineering	CS213	yes	 yes
24	Object Oriented Programming Lab	CS209	yes	 yes
25	Soft Skills Lab	HU204	yes	 yes
26	Introduction to Microprocessors & Microcontrollers	EC313	yes	
27	Data Mining	CS301	yes	 yes
28	Formal Languages and Automata Theory	CS303		 yes
29	Web Technologies	CS304	yes	 yes
30	Data Mining Lab	CS302	yes	 yes
31	Algorithms & Computer Networks Lab	CS305	yes	 yes

Academic Year 2020-2021

Mini Project-1	C\$306	Ves		yes
Winn Project 1	0000	yes		yes
Machine Learning	CS315	yes		yes
Compiler Design	CS317	ves		yes
		J		<i>y</i>
Mobile Computing	CS319	yes		yes
Machine Learning Lab	CS316	yes		yes
Compiler Design Lab	CS318	yes		yes
Network Security and	CS401	Vec		yes
Cryptography		yes		yes
Big Data Analytics	CS403	yes		yes
Software Project	CS405	Ves		yes
Management		yes		yes
Network Security and	CS402	VAS		Vac
Cryptography Lab		yes		yes
Big Data Analytics Lab	CS404	yes		yes
Mini Project -2	CS406	yes		yes
Project Work	CS417	yes		yes
Internship	CS426	yes		yes
Project Work	CS417	yes		yes
Data Science with R	CS411	yes		yes
Cloud Computing	CS409	yes		yes
Software Quality and Testing	CS416	yes		yes
	Compiler Design Mobile Computing Machine Learning Lab Compiler Design Lab Network Security and Cryptography Big Data Analytics Software Project Management Network Security and Cryptography Lab Big Data Analytics Lab Big Data Analytics Lab Big Data Analytics Lab Mini Project -2 Project Work Internship Project Work Data Science with R Cloud Computing	Machine LearningCS315Compiler DesignCS317Mobile ComputingCS319Machine Learning LabCS316Compiler Design LabCS318Network Security and CryptographyCS401Big Data AnalyticsCS403Software Project ManagementCS405Network Security and Cryptography LabCS402Big Data Analytics LabCS402Project WorkCS404Mini Project -2CS406Project WorkCS417InternshipCS426Project WorkCS417Data Science with RCS411Cloud ComputingCS409Software Quality andCS416	Machine LearningCS315yesCompiler DesignCS317yesMobile ComputingCS319yesMachine Learning LabCS316yesCompiler Design LabCS318yesNetwork Security and CryptographyCS401yesBig Data AnalyticsCS403yesSoftware Project ManagementCS405yesNetwork Security and Cryptography LabCS402yesSoftware Project ManagementCS404yesNetwork Security and Cryptography LabCS404yesNetwork Security and Cryptography LabCS404yesNetwork Security and Cryptography LabCS404yesInternshipCS405yesProject WorkCS417yesInternshipCS426yesProject WorkCS417yesData Science with RCS411yesCloud ComputingCS409yesSoftware Quality andCS416yes	Machine LearningCS315yesCompiler DesignCS317yesMobile ComputingCS319yesMachine Learning LabCS316yesCompiler Design LabCS318yesNetwork Security and CryptographyCS401yesBig Data AnalyticsCS403yesSoftware Project ManagementCS405yesNetwork Security and Cryptography LabCS404yesBig Data Analytics LabCS404yesNetwork Security and Cryptography LabCS404yesNetwork Security and Cryptography LabCS404yesNetwork Security and Cryptography LabCS404yesProject WorkCS417yesProject WorkCS417yesData Science with RCS411yesCloud ComputingCS409yesSoftware Quality andCS416yes

Academic Year 2020-2021

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
1	Programming for Problem Solving	ESC	yes		yes
2	English Proficiency Course	Audit			yes
3	Programming for Problem Solving Lab	ESL	yes		yes
4	Probability & Statistical Methods	BSC	yes		
5	English	HSSC	yes		yes
6	Engineering Drawing	ESC	yes		yes
7	Data Structures	ESC	yes		yes
8	Statistical Methods Lab	BSL	yes		yes
9	Phonetics & Communication Skills Lab	HSSL	yes		yes
10	Data structures lab	ESL	yes		yes
11	Advanced Data Structures	PCC	yes		yes
12	Database Systems	PCC	yes		yes
13	Object Oriented Programming through Java	PCC	yes		yes
14	Advanced Data Structures Lab	PCL	yes		yes
15	Database Systems Lab	PCL	yes		yes

16	Object Oriented Programming through Java Lab	PCL	yes	 yes
17	Soft Skills	SC		 yes
18	Software Engineering & Applications	PCC	yes	 yes
19	Python Programming	PCC	yes	 yes
20	Software Engineering & Applications Lab	PCL	yes	 yes

Academic Year 2021-2022

Scheme 2017

S.No	Course Name	Course Code	Employability	Entrepreneurship	Skill development
21	Advanced Data Structures	CS203	yes		yes
22	Database Management Systems	CS205	yes		yes
23	Computer Organization & Architecture	CS207			yes
24	Constitution of India	ML01			yes
25	Advanced Data Structures Lab	CS204	yes		yes
26	Data Base Management Lab	CS206	yes		yes
27	Advanced Communication Skills Lab	HU203			yes
28	Probability & Statistics	BS204	yes		yes
29	Object Oriented Programming	CS208	yes		yes

30	Operating System	CS210		 yes
31	Computer Networks	CS211	yes	 yes
32	Design & Analysis of Algorithms	CS212	yes	 yes
33	Software Engineering	CS213	yes	 yes
34	Object Oriented Programming Lab	CS209	yes	 yes
35	Soft Skills Lab	HU204	yes	 yes
36	Introduction to Microprocessors & Microcontrollers	EC313	yes	
37	Data Mining	CS301	yes	 yes
38	Formal Languages and Automata Theory	CS303		 yes
39	Web Technologies	CS304	yes	 yes
40	Data Mining Lab	CS302	yes	 yes
41	Algorithms & Computer Networks Lab	CS305	yes	 yes
42	Mini Project-1	CS306	yes	 yes
43	Machine Learning	CS315	yes	 yes
44	Compiler Design	CS317	yes	 yes
45	Mobile Computing	CS319	yes	 yes
46	Machine Learning Lab	CS316	yes	 yes
47	Compiler Design Lab	CS318	yes	 yes
48	Network Security and	CS401	yes	 yes

	Cryptography			
49	Big Data Analytics	CS403	yes	 yes
50	Software Project Management	CS405	yes	 yes
51	Network Security and Cryptography Lab	CS402	yes	 yes
52	Big Data Analytics Lab	CS404	yes	 yes
53	Mini Project -2	CS406	yes	 yes
54	Project Work	CS417	yes	 yes
55	Internship	CS426	yes	 yes
56	Project Work	CS417	yes	 yes
57	Data Science with R	CS411	yes	 yes
58	Cloud Computing	CS409	yes	 yes
59	Software Quality and Testing	CS416	yes	 yes