Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur

Department of CSE (DS)

Syllabus for T. Y B. Tech.

Computer Science and Engineering (DS)
Scheme: 2021

SEM V

Sr. No.	Course Code	Course Name	L	T	P	Hrs. / Week	Credits	Category
		SEMESTER V						
1	UDS0501	Computer Algorithms	3	1		4	4	PC
2	UDS0502	Database Management System	3			3	3	PC
3	UDS0503	Data Engineering /Exploratory data analysis	3			3	3	PC
4	UDS05**	Program Elective-I	3			3	3	PE
5	UDSO05**	Open Elective-I	3			3	3	ILOE
6	UDS0531	Database Management Lab			2	2	1	PC
7	UDS0532	Data Preprocessing /Exploratory data analysis Lab			2	2	1	PC
8	UDS0533	Web Technology Lab	2		2	4	3	PC
9	UDS0551	MiniProject-II			2	2	1	PW
10	UDS0561	Soft Skills	2					MAC
					Total:	27	22	

Sr. No.	Course Code	Course Name	L	T	P	Hrs. / Week	Credits
		PROGRAM ELECTIVE I					
1	UDSE0521	Information Security System	3			3	3
2	UDSE0522	Project Management	3			3	3
3	UDSE0523	Internet of Things	3			3	3
4	UDSE0524	Soft Computing	3			3	3
5	UDSE0525	Adhoc Wireless Networks	3	2		5	4
6	UDSE0526	Text Analysis	3			3	3
7	UDSE0527	Nature Inspired Computing	3			3	3
					Total:	9	3

Sr. No.	Course Code	Course Name	L	T	P	Hrs. / Week	Credits
		OPEN ELECTIVE I					
1	UDS0511	BioInformatics	3			3	3
2	UDS0512	Electric Vehicles	3			3	3
3	UDS0513	Green Technology	3			3	3
4							
5							
					Total:	3	3

SEM VI

		SEMESTER VI						
Sr. No.	Course Code	Course Name	L	T	P	Hrs. / Week	Credits	Category
1	UDS0601	Optimization for data science	3	1		4	4	PC
2	UDS0602	Cloud Computing	3	1		4	4	PC
3	UDS0603	Machine Learning	3			3	3	PC
4	UDS06**	Program Elective-II	3			3	3	PE
5	UDS06**	Open Elective-II	3			3	3	ILOE
6	UDS0631	Advanced Programming Lab	1		2	3	2	PC
7	UDS063*	Program Elective Lab-II			2	2	1	PE
8	UDS0632	Machine Learning Lab			2	2	1	PC
9	UDS0651	MiniProject-III			2	2	1	PW
10	UDS0661	Professional Communication			2	2		MAC
					Total:	28	22	

		PROGRAM ELECTIVE II					
Sr. No.	Course Code	Course Name	L	T	P	Hrs. / Week	Credits
1	UDSE0621	NoSQL	3		2	5	4
2	UDSE0622	STQA	3		2	5	4
3	UDSE0623	Business Intelligence Systems	3		2	5	4
4	UDSE0633	NoSQL-Lab			2		
5	UDSE0634	STQA-Lab			2		
6	UDSE0635	Business Intelligence Systems-Lab			2		
7	UDSE0636	Internet of Things	3		2	5	
				Total:		20	12

		OPEN ELECTIVE II					
Sr. No.	Course Code	Course Name	L	T	P	Hrs. / Week	Credits
1	UDSO0613	Operational Research	3			3	3
2	UDSO0614	Remote Sensing and GIS	3			3	3
3	UDSO0615	E-waste Management	3			3	3
4							
5							
				Total:		3	3