

Structure for

B.Tech in

Computer Science & Engineering (Data Science) (To be Implemented w.e.f. Academic Year 2022-23)

Department of Computer Science & Engineering (Data Science)

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

Kolhapur

College of Engg.

Dr. U. P. Gurav

Head, Department of CSE(Data Science) of

Prof. A. S. Patil Dean Academics



Teaching and Evaluation scheme for

Second Year B. Tech. Program in Computer Science & Engineering (DS) Semester-III

				Hou	rs/\	Veek	Evalua	tion Scl		
	1978	Curriculum						N	Aarks	
Course Code	Course Name	Component	L	Т	P	Credits	Component	Max	Min Pass	
							ISE I	10		333
	100 - 100 M - 100 M - 100 M - 100 M	-					MSE	30	20	40
UDSC0301	Linear Algebra	BS	3	1	ž.	4	ISE II	10		40
							ESE	50	20	
							ISE I	10		
	Discrete	IDAMO:	_			794	MSE	30	20	40
UDSC0302	Mathematics	ES	3	1	5.0	4	ISE II	10		40
	***************************************						ESE	50	20	ļ
							ISE I	10		
		2920	- 2			2	MSE	30	20	1
UDSC0303	Data Structures	PC	3	-	-	3	ISE II	10		40
							ESE	50	20	1
			_				ISE I	10		
	Principles of Data	(944) (1446)		1			MSE	30	20	
UDSC0304	Science	PC	3	-	-	3	ISE II	10		4
	8411111111						ESE	50	20	1
					Ì		ISE I	10		
	Object Oriented	920-03-03	424				MSE	30	20	1 47
UDSC0305	Programming	PC	3	15	1,5	3	ISE II	10	0 07350507	4
							ESE	50	20	1_
							ISE I	10	20	
	Software	22	3			_	MSE	30	20	4
UDSC0306	Engineering	ES	3	7	-	3	ISE II	10	20	7 4
							ESE	50	20	
Williams Company and Commission							ISE	25	10	- 3
UDSC0331	Data Structures-Lab	PC		-	2	1	ESE (POE)	50	20	د ا
					10		ISE	25	10	
UDSC0332	Object Oriented Programming-Lab	PC	•	-	2	1	ESE (POE)	50	20	3
UDSA0361	Constitution of India	Audit Course	2	-	-	#3	ESE	100	,	40
								750		
			20	2	4	22	600 + 150 =	750 + A	audit (Cour

Total Credits - 22, Total Contact hours - 26

Dr. Uma P. Gurav

Head

Department of CSE (AIML & DS)

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Teaching and Evaluation scheme for

Second Year B. Tech. Program in Computer Science & Engineering (DS) Semester-IV

				Ho	urs/	Week	Evalua	tion Scl		
Course Code	Course Name	Curriculum Component	L	Т	P	Credits	Component	Max	Aarks Min	
00,00		The second section of the second seco	0.00	1000					Pass	ing
							ISE I	10		4.00
SINGSONESSEN TANSES	Statistical and Probability	700	3	100	-50	4	MSE	30	20	40
UDSC0401	Theory	BS	3	1	- 2		ISE II	10		170
	TOTAL SECTION OF THE		1				ESE	50	20	
							ISE I	10		
		200	3			4	MSE	30	20	40
UDSC0402	Automata Theory	ES	3	1	#		ISE II	10] 70
							ESE	50	20	
							ISE I	10		
NATION STREET, ST. MAJORAN CANADA		200				2	MSE	30	20	40
UDSC0403	Computer Networks	PC	3	-	-	3	ISE II	10		1 40
							ESE*	50	20	
							ISE I	10		
Figure Commissions in	Computer Organization and	22.22	_				MSE	30	20	4
UDSC0404	Digital Logic	PC	3	1	- 574	4	ISE II	10	5-3/140	4
~							ESE	50	20	
				-			ISE I	10		
			1				MSE	30	20	4
UDSC0405	Principles of AIML	PC	3		÷	3	ISE II	10		-54
							ESE	50	20	
							ISE	25	10	2
UDSC0431	Computer Networks-Lab	PC	12	-	2	1	ESE(OE)	25	10	7 4
		20.000					ISE	25	10	
UDSC0432	Data Analytics and Visualization-Lab	PC	#1	1	2	1	ESE (POE)	50	20	3
	Y ISHAILEMION SHO	7.0		-	7		ISE	25	10	3
UDSC0433	AI and DS Tools- Lab	PC	#	17	2	1	ESE (POE)	50	20	3
00000							ISE-I	25	,	20
UDSC0451	Mini Project – I	PW	(4)	-	2	1	ISE-II	25	1	20
UDSA0461	Environmental Studies	Audit Course	2	2	2	2-1	ESE	100		40
		7.5.00.37						750		
			17	7 3	8	22	500 + 250 =	= 750 + 7	Audit (Cour

Total Credits - 22, Total Contact hours - 28

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Dr. Uma P. Gurav Head Department of CSE (AIML & DS) KIT's College of Engg. (Autonomous) Kolhapur



Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur Teaching and Evaluation scheme for

Third Year B. Tech. Program in Computer Science & Engineering (DS) Semester-V

				Hr	s/W	eek	Evalua	ation Sc		
Course		Curriculum		d- II]	Marks	
Code	Course Name	Component	L	Т	P	Credits	Component	Max	Min Pass	
							ISE I	10		
	Operating	22	122	÷		1 2	MSE	30	20	40
UDSC0501	System	PC	3	1	-	4	ISE II	10		40
	270						ESE	50	20	
	III AND TO THE PROPERTY OF THE PARTY OF THE						ISE I	10		
	Database	-	_			-	MSE	30	20	40
UDSC0502	Management	PC	3	-	12	3	ISE II	10		40
	System						ESE	50	20	
							ISE I	10		
	Exploratory	5400000	192			12	MSE	30	20	400
UDSC0503	Data Analysis	PC	3		7.	3	ISE II	10		40
	Data / Maryoto						ESE	50	20	
							ISE I	10		
	Program		5.05			24	MSE	30	20	
UDSE05**	Elective - I	PE	3		-	3	ISE II	10		40
	Diccitio .						ESE	50	20	1
							ISE I	10		-
	Open Elective -	Laborates (_	MSE	30	20	40
UDSO05**	I	OE	3	12	-	3	ISE II	10	125570	40
	**						ESE	50	20	
	Database						ISE	25	10	
UDSC0531	Management System lab	PC	*	7.	2	1	ESE(POE)	50	20	30
	Exploratory		1				ISE	25	10	
UDSC0532	Data Analysis Lab	PC	-	*	2	1	ESE (OE)	25	10	20
	Web	P.C.	_		_	-	ISE	25	10	30
UDSC0533	Technology Lab	PC	2	-	2	3	ESE (POE)	50	20	30
		D337	90		2	1	ISE-I	25		20
UDSC0551	Mini Project-II	PW	-	-	2	1	ISE-II	25	2	20
	Software	A south Charren	2	-	2		ISE-I	50		10
UDSA0561	Systems Tools	Audit Course		-	_		ISE-II	50		10
								750		
			19	1	8	22	500 + 250 =	750 + 4	Audit C	ourse

Total Credits - 22, Total Contact hours - 28

Program Ele	ctive – I (PE-I)	Open Elective -	I (OE-I)
UDSE0521	Information Security System	UDSO0511	Introduction to Data Science
UDSE0522	Project Management	UDSO0512	Python for Data Science
UDSE0523	Internet of Things		



Teaching and Evaluation scheme for

Third Year B. Tech. Program in Computer Science & Engineering (DS)Semester-VI

			Te	achi	ng S	cheme	Evalua	tion Sch	eme	
Course	Course Name	Curriculum						N	Iarks	
Code	Course Name	Component	L	T	P	Credits	Components	Max	Min Pass	
							ISE-I	10		
**********	Optimization for Data	DC.	3			4	ISE-II	10	20	40
UDSC0601	Science	PC	3	1	-	4	MSE	30		41
							ESE	50	20	
		7					ISE-I	10	650	
TIDGGQQQQ	Design and Analysis	DC.	2	,	2.9	4	ISE-II	10	20	4
UDSC0602	of Algorithms	PC	3	1	-	4	MSE	30	5655-266 2012	4
							ESE	50	20	
							ISE-I	10		
	100 40 00 40 00 00 40 00 00 00 00 00 00 0	D.C.	-				ISE-II	10	20	4
UDSC0603	Machine Learning	PC	3	7.0	3.5	3	MSE	30		4
							ESE	50	20	1
							ISE-I	10		
			_				ISE-II	10	20	
UDSE06**	Program Elective - II	PE	3	-	-	3	MSE	30		4
							ESE	50	20	1
			-				ISE-I	10		Т
*****	19-37-0-75-08	on	-	HIE!			ISE-II	10	20	
UDSO06**	Open Elective - II	OE	3	-	2	3	MSE	30		4
							ESE	50	20	1
	Advanced Program	A_2708	8		DEN.	86	ISE	25	10	- 2
UDSC0631	ming Lab.	PC	1	-	2	2	ESE(POE)	50	20	- 3
-	Program Elective		_	_	1		ISE	25	10	-
UDSE063*	Lab-II	PC	-	_	2	1	ESE (POE)	50	20	- 3
10.000 (10.000 a 20.000 a 20.0	Machine Learning	7		1			ISE	25	10	
UDSC0632	Lab	PC	- 2		2	1	ESE (OE)	25	10	- 2
	2						ISE-I	25	**	-
UDSC0651	Mini Project - III	PW	4 0	-	2	1		25	2	0.0
Attach server renocures	AND COMMENT OF THE PROPERTY OF	356 766				577	ISE-II	25		
UDSA0661	Intellectual Property Rights	Audit Course	2	-	-	+	ESE	100	4	10
								750		
		/	18	2	8	22	500 + 250 = 7	(CO 1 A.		001000

Total Credits - 22, Total Contact hours - 28

Program Elec	ctive – II (PE-II)	Open Electi	ve – II (OE-II)
UDSE0621	Advanced Database System	UDSO0613	Data Analytics
UDSE0633	Advanced Database System-Lab	UDSO0614	Introduction to Database Management System
UDSE0622	STQA		
UDSE0634	STQA-Lab		
UDSE0623	Business Intelligence System	3	
UDSE0635	Business Intelligence System-Lab		

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Teaching and Evaluation scheme for

Final Year B. Tech. Program in Computer Science & Engineering(DS) Semester-VII

			Т	ach	ing S	Scheme	Evalua	tion Schen	ne	
Course	Zanadovinina i in pariziona anti-	Curriculum				***********		M	arks	
Code	Course Name	Component	L	T	P	Credits	Components	Max	1000 (1001)	n for ssing
							ISE I	10		
	Image Processing &	n.c	_				MSE	30	20	40
UDSC0701	Video Analytics	PC	3	77	50	3	ISE II	10		40
	S CONTROL CONTROL S CONTRO					C+	ESE	50	20	
							ISE I	10	-	W 2
	220 220 1 1 1 1	no.	_				MSE	30	20	40
UDSC0702	Big Data Analytics	PC	3	· (*)	8	3	ISE II	10		40
							ESE	50	20	
							ISE I	10		
		200	_		-100		MSE	30	20	40
UDSC0703	Deep Learning	PC	3	-	+	3	ISE II	10	1000	40
							ESE *	50	20	
							ISE I	10		
		196.54	- 20				MSE	30	20	40
UDSC0704	Cloud Computing	PC	3	1	175	4	ISE II	10	- 300000	40
	100						ESE	- 50	20	
				-	-		ISE I	10		
THE BESTS.	Program Elective -	200	3			3	MSE	30	20	40
UDSE07**	III	PE	3	*	-	3	ISE II	10		40
	2010						ESE	50	20	
XID G GOSSA I	Mobile App	D.C.	20		_		ISE	25	10	30
UDSC0731	Development-lab	PC	-	2	2	1	ESE(POE)	50	20	30
	Image Processing &						ISE	25	10	
UDSC0732	Video Analytics - Lab	PC	F	2	2	1	ESE (OE)	50	20	30
110000000		5337			- ja	3	ISE-I	50	20	40
UDSC0751	Project Phase - I	PW		170	4	2	ISE-II	50	20	40
TIDG 4 0051	Project	Audit	1				ISE-I	50		40
UDSA0761	Management Tools	Course	2	1.5		1/5	ISE-II	50		40
		3	15	1	8	20	500 + 250 = "	750 + Aud	it Cou	rse

Total Credits - 20, Total Contact hours - 24

Sr. No.	Program Elective III (PE-III)
UDSE0721	Computer Vision
UDSE0722	Time Series Analysis
UDSE0723	Soft Computing
UDSE0724	BlockChain

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Teaching and Evaluation scheme for

Final Year B. Tech. Program in Computer Science & Engineering(DS) Semester-VIII

			Т	eacl	ing	Scheme	Evalua	ation Scl	heme	
Course	Course Name	Curriculum				CT-N-A		I	Marks	
Code	Course Name	Component	L	T	P	Credits	Components	Max	Min f Passi	
							ISE I	50	40	
UDSC0851	Project Phase - II	PW	-	-	8	4	ISE II	50	40	40
	Selection of the State of the S	CA DANC					ESE(OE)	100	40	
VIDGGGGGG	14 3 A 8	DIII			4	_	ISE-I	50	20	40
UDSC0852	Internship	PW		75	4	2	ISE-II	50	20	40
					3 - 3		ISE-I	10		
TIDODOOXX	D	DE	- 2	686	62	,	ISE-II	10	20	10
UDSE08**	Program Elective - IV	PE	3	-	-	3	MSE	30		40
							ESE	50	20	7
							ISE-I	10		
LIDGE00**	D	DE	3			3	ISE-II	10	20	40
UDSE08**	Program Elective - V	PE	3	-	-	3	MSE	30		40
							ESE	50	20	
			6	-	12	12	200 + 1	00 + 200	= 500	

Total Credits-12, Total Contact hours - 18

Program El	ective – IV (PE-IV)	Program El	ective – V (PE-V)
UDSE0821	Security Scripting and Analysis	UDSE0823	Text Analytics
UDSE0822	Social Media and Digital Marketing Analysis	UDSE0824	Web Analytics

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Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur B. Tech. Program in Computer Science and Engineering(Data Science)

Total Credits Distribution from F.Y.B.Tech to Final Year B.Tech in Computer Science & Engineering (DS)

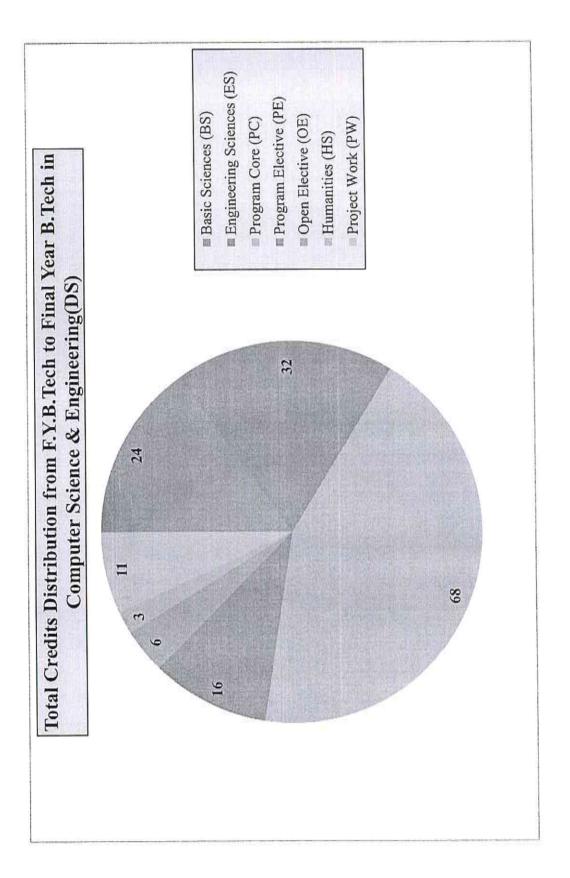
	F.Y.F	F.Y.B.Tech	S.Y.B.Tech	.Tech	T.Y.I	T.Y.B.Tech	Final Ye	Final Year B.Tech	Total	Percentage
Component	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Credits	Distribution
Basic Sciences (BS)	8	8	4	4	a.)	3	•	24	15.00
Engineering Sciences (ES)	6	12	L	4	ï	,	DK:		32	20.00
Program Core (PC)	•	·	11	13	15	14	15		89	42.50
Program Elective (PE)	i		3 1	S-18	3	4	3	9	16	10.00
Open Elective (OE)	,	1	ı	•	3	3	1	a	9	3.75
Mandatory Audit Course (MAC)	UHV	ED	CI	EVS	SS	IPR	PMT		Non-Credit Courses	,
Humanities (HS)	3	1	ì	- N	ï	r	L	1	3	1.88
Project Work (PW)	1		ř	H	-	1	2	4+2	П	6.88
Total Credits	20	20	22	22	22	22	20	12	160	100.00

Note for Mandatory Audit Courses (MAC):

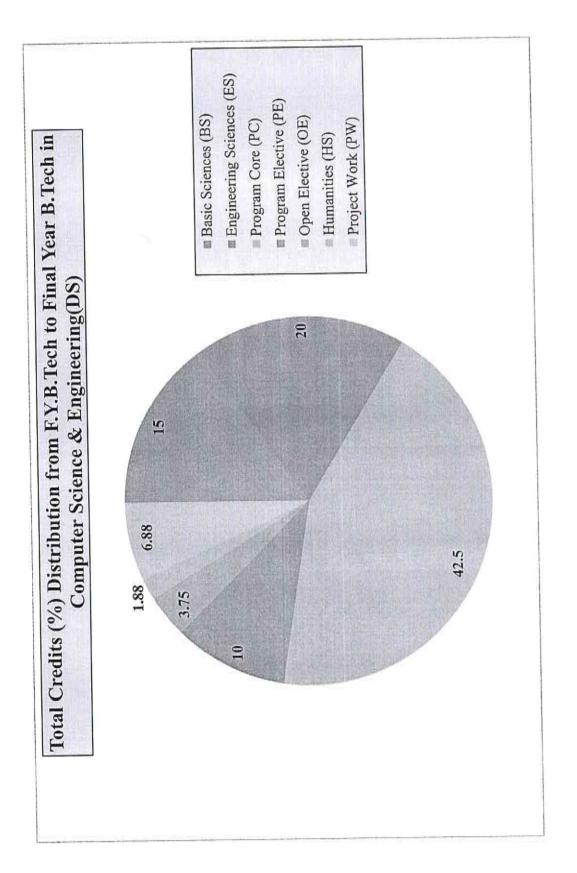
UHV: Universal Human Values (HS), ED: Entrepreneurship Development (HS), EVS: Environmental Studies (BS), CI: Constitution of India (HS),

SS: Software Systems (PC), IPR: Intellactual Property Rights (HS), PMT: Project Management Tools (PC)





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DP: Una P. Gurav

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