

1st Year Semester I

sr.no	Broad Category	Category code	Paper Code	Course	Contact Hours/ Week				Credit Points	Evaluation scheme					
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total
Part A: UG Certificate course															
1	Basic Sciences	BSC			3	0	1		4	25	25	50			100
	Basic Sciences	BSC			3	0	0		3	25	25	50			100
2	Engineering Science	ESC		C Programming	3	0	0		3	25	25	50			100
	Engineering Science	ESC		Basic Electronics	3	0	0		3	25	25	50			100
4	Ability Enhancement Course	AEC		Communication skill	2	0	0		2	25	25	50			100
	Engineering Science	ESC			0	2	0		1				25	25	50
	Basic Sciences	BSC			0	2	0		1				25	25	50
	Engineering Science	ESC		C Programming Lab	0	2	0		1				25	25	50
3	Vocational and Skill Enhancement Course (VSEC)	VSEC		practical of any ESC can be taken	0	4	0		2					25	25
5	Co-curricular Courses (CC)	CC		Yoga		4	0		2				25	0	25
			Total Hours :		14	14	1		22						700

1st Year Semester II

sr.no	Broad Category	Category	Paper Code	Course	Week				Credit Points	Evaluation scheme					
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total
Part B: UG Certificate course															
1	Basic Sciences	BSC			3	0	0		3	25	25	50			100

2	Basic Sciences	BSC			3	0	0		3	25	25	50			100
3	Engineering Science	ESC			3	0	0		3	25	25	50			100
4	Engineering Science	ESC		Data Communication	3	0	0		3	25	25	50			100
5	Programme Core Course	PCC		Python Programming	3	0	0		3	25	25	50			100
6	Indian Knowledge System	IKS		BASICS OF ART	1	0	0		1				25	0	25
7	Basic Sciences	BSC			0	2	0		1				25	25	50
8	Engineering Science	ESC			0	2	0		1				25	25	50
9	Vocational and Skill Enhancement Course	VSEC		practical of any PCC can be taken	0	4	0		2				25	25	50
10	Programme Core Course	PCC		Python Programming Lab	0	2	0		1				25	25	50
11	Co-curricular Courses	CC		NSS / NCC / Club Activities	0	0	2		2				25	0	25
12	Non credit mandatory course	AU		SOFT SKILL	2	0	0		0				0	0	0
			Total Hours:		18	10	2		23						750

2nd Year Semester III

sr.no	Broad Category	Category	Paper Code	Course	Week				Credit Points	Evaluation scheme						
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total	
Part A: Diploma certificate course																
1	Open Elective Other than a particular program	OE		From OE Bucket	3	0	0		3	25	25	50			100	
2	Programme Core Course	PCC		Discrete Mathematical Structure	2	0	0		2	25	25	50			100	
3	Programme Core Course	PCC		Data Structures & Algorithms	3	0	0		3	25	25	50			100	

4	Programme Core Course	PCC		Computer Organization & Architecture	3	0			3	25	25	50			100
5	Multidisciplinary Minor	MDM		From MDM Bucket	2	0	0		2	25	25	50			100
6	Entrepreneurship/ Economics/ Management Courses	EMC		Engineering Management - I	2	0	0		2	25	25	50			100
7	Value Education Course	VEC		Environmental Science (SWAYAM/NPTEL)	2	0	0		2				50	0	50
8	Programme Core Course	PCC		Data Structures Lab	0	2	0		1				25	25	50
10	Comm. Engg. Project / Field Project	CEP / FP		Seminar (Web Development)	0	4	0		2				50	0	50
	Non credit mandatory	AU		Constitution of India	2				0						
11	Non credit mandatory	AU		UHV I	2				0						
				Total Hours:	21	6	0		20						750

UHV - I Non credit mandatory course to be taken

2nd Year Semester IV

sr.no	Broad Category	Category	Paper Code	Course	Week				Credit Points	Evaluation scheme						
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total	
Part B: Diploma certificate course																
1	Open Elective Other than a particular program	OE		From OE Bucket	2	0	0		2	25	25	50			100	
2	Programme Core Course	PCC		Operating Systems	3	0	0		3	25	25	50			100	
3	Programme Core Course	PCC		OOP in Java	2	0	0		2	25	25	50			100	
4	Programme Core Course	PCC		Design & Analysis of Algorithms	3	0	0		3	25	25	50			100	

5	Multidisciplinary Minor	MDM		From MDM Bucket	3	0	0		3	25	25	50			100
6	Entrepreneurship/ Economics/ Management Courses	EMC		Engineering Management - II	2	0	0		2	25	25	50			100
7	Value Education Course	VEC		UHV - II	2	0	0		2				50	0	50
8	Programme Core Course	PCC		OOP in Java Lab & Operating Systems lab	0	4	0		2				25	25	50
10	Ability Enhancement Course	AEC		Technical report writing/ PROFESSIONAL SKILL	0	4	0		2				25	25	50
11	Vocational and Skill Enhancement Course	VSEC		Internship	0	2	0		1				25	25	50
12	Non credit mandatory	AU		LIFE OF DR BABASAHEB AMBEDKAR / CH. SHIVAJI MAHARAJ	2										
			Total Hours:		19	10	0		22						800

3rd Year Semester V

sr.no	Broad Category	Category	Paper Code	Course	Hours/Week				Credit Points	Evaluation scheme						
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total	
Part A: Bachelors degree certificate course																
1	Open Elective Other than a particular program	OE		From OE Bucket	3	0	0		3	25	25	50			100	
2	Programme Core Course	PCC		Computer Network	3	0	0		3	25	25	50			100	
3	Programme Core Course	PCC		Theory of Computations	3	0	0		3	25	25	50			100	

4	Programme Core Course	PCC		Database Management Systems	3	0	0		3	25	25	50			100
5	Programme Elective Course	PEC		From PEC Bucket	3	0	0		3	25	25	50			100
6	Multidisciplinary Minor	MDM		From MDM Bucket	3	0	0		3	25	25	50			100
7	Programme Core Course	PCC		Power BI and Tablue Lab	0	2	0		1				25	25	50
8	Programme Core Course	PCC		Database Management Systems Lab	0	2	0		1				25	25	50
10	Programme Elective Course	PEC		From PEC Bucket	0	2	0		1				25	25	50
11	Indian Knowledge System	IKS		Modern indian Languages	1				1						
12	Non credit mandatory	AU		LIFE OF DR BABASAHEB AMBEDKAR / CH. SHIVAJI MAHARAJ	2										
			Total Hours:		21	6	0		22						750

3rd Year Semester VI

sr.no	Broad Category	Category	Paper Code	Course	Week				Credit Points	Evaluation scheme						
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total	
Part B: Bachelors degree certificate course																
1	Programme Core Course	PCC		Software Engineering with Quality Assurance	3	0	0		3	25	25	50			100	
2	Programme Core Course	PCC		High Performance Database	3	0	0		3	25	25	50			100	
3	Programme Core Course	PCC		Compiler Design	3	0	0		3	25	25	50			100	
4	Programme Elective Course	PEC		From PEC Bucket	4	0	0		4	25	25	50			100	

5	Programme Elective Course	PEC		From PEC Bucket	3	0	0		3	25	25	50			100
6	Multidisciplinary Minor	MDM		From MDM Bucket	3	0	0		3	25	25	50			100
8	Vocational and Skill Enhancement Course	VSEC		Python for Data Science programming Lab	0	4	0		2				25	25	50
9	Vocational and Skill Enhancement Course	VSEC		Mini Project	0	2	0		1				25	25	50
10	Programme Elective Course	PEC		From PEC Bucket	0	2	0		1				25	25	50
11	Non credit mandatory	AU			2										
			Total Hours:		21	8	0		23						750

4th Year Semester VII

sr.no	Broad Category	Category	Paper Code	Course	Contac t Hours/ Week				Credit Points	Evaluation scheme					
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total

Part B: Bachelors Honours certificate course

1	Programme Core Course	PCC		Soft Computing	3	0	0		3	25	25	50			100
2	Programme Core Course	PCC		Big Data Analytics	2	0	0		2	25	25	50			100
3	Programme Elective Course	PEC		From PEC Bucket	4	0	0		4	25	25	50			100
4	Programme Elective Course	PEC		From PEC Bucket	3	0	0		3	25	25	50			100
5	Multidisciplinary Minor	MDM		From MDM Bucket	3	0	0		3	25	25	50			100
6	Programme Elective Course	PEC		From PEC Bucket	0	2	0		1				25	25	50

8	Project	PRJ - I			0	4	0		2				100	50	150
			Total Hours:		15	6	0		18						700

4th Year Semester VIII

sr.no	Broad Category	Category	Paper Code	Course	Hours/Week				Credit Points	Evaluation scheme						
					L	P	T	Total		ISE 1	ISE 2	ESE	ICA	ESE	Total	
Part A: Bachelors Honours certificate course																
1	Internship/ Job training	OJT	Online review s must take place each month.		0	24	0		12					100	50	150
2	Project	PRJ - II	MOO		0	4	0		2					100	150	250
4	Research methodology	RM	CS/ NPTE L/ SWA	A survey / review paper must be published	4	0	0		4					25	25	50
			Total Hours:		4	28	0		18							450

Total credits for all the 04 years for completing one major / one minor degree course	scheme
168	5650

Open Elective

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Open Elective Other than a particular program

Sr. No	Choice	Subject Name	SEM
1	A	Digital Electronics	III
	B	Linear Circuit	
	C	Digital System	
2	A	Human Computer Interaction	IV
	B	Numerical Methods	
	C	Graphics and Multimedia	
3	A	Geographic Information System	V
	B	Internet of Things	
	C	Embedded Systems	

Programme Elective Course

Sr. No	Choice	Subject Name	SEM
1	A	AI	V
	B	Image Processing	
	C	Unix Operating System	
2	A	AI Lab	V
	B	Image Processing Lab	
	C	Unix Operating System Lab	
3	A	Machine Learnig	VI
	B	Distributed System	
	C	NLP	
4	A	Blockchain Technology	VI
	B	Big Data Analytics	
	C	Cryptography & Network Security	
5	A	Machine Learnig Lab	VI
	B	Distributed System Lab	
	C	NLP Lab	
6	A	Agile & DevOps Practices	VII
	B	Business Intelligence	
	C	Bioinformatics	
7	A	Deep Learnig	VII
	B	Cloud Computing	
	C	Computer Vision	
8	A	Cloud Computing Lab	VII
	B	Deep Learning Lab	
	C	Computer Vision Lab	

MDM List

From CSE

Sr. No	Subject Name	SEM
1	Web Development	III
2	Software Engineering	IV
3	Software Testing	V
4	Test Driven Development	VI
5	Full Stack Development	VII

From AIML

Sr. No	Subject Name	SEM
1	Mathematic Foundation for AIML	III
2	Artificial Intelligence	IV
3	Machine Learning	V
4	Deep Learning	VI
5	Large Language Models (LLMs)	VII

From ECE

Sr. No	Subject Name	SEM
1	Computer Network	III
2	Network Security	IV
3	Computer Graphics	V
4	Introduction to IoT	VI
5	Natural Language Processing	VII