

III SEMESTER

Sl. No.	Course		Course Title	BOS	Teaching Hours/Week				Examination				Credits
					Theory/lecture	Tutorials	Practical/Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
	Type	Code			L	T	P	S					
1	BSC	MVJ21MA31B	Discrete Mathematical Structures and Probability	MA	3	2	0	-	3	50	50	100	4
2	PCC	MVJ21AI32	Object Oriented Programming	AI	3	2	0	-	3	50	50	100	4
3	PCC	MVJ21AI33	Operating System	AI	3	0	0	-	3	50	50	100	3
4	IPCC	MVJ21AI34	Data Structure and Applications	AI	3	0	2	-	3	100	100	200	4
5	IPCC	MVJ21AI35	Analog and Digital Electronics	AI	3	0	2	Y	3	100	100	200	4
6	HSMC	MVJ21SK/BK36	Kannada	Any Department	1	0	0	-	2	50	50	100	1
7	AEC	MVJ21AIA37	UNIX Shell Programming	AI	1	0	2	-	2	50	50	100	2
8	BSC	MVJ21MATDIP-I	Additional Mathematics-I	MA	1	2	0	-	3	50	50	100	-
Total					18/19	4/6	6/6	-	19/22	450/500	450/500	900/1000	22

Note: BSC: Basic Science Course, PCC: Professional Core Course, IPCC: Integrated Professional Core Course, HSMC: Humanity and Social Science & Management Course, AEC: Ability Enhancement Course, L: Lecture, T: Tutorial, P: Practical, S: Self Study, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Additional Mathematics-I: The course is a non-credit mandatory course (NCMC) prescribed for III semester lateral entry diploma holders admitted to BE programs. The successful completion of the program is mandatory for the award of the degree.

IV SEMESTER

Sl. No.	Course		Course Title	BOS	Teaching Hours/Week				Examination				Credits
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
	L	T			P	S							
1	BSC	MVJ21MA41B	Operations Research, Numerical and Statistical Methods	MA	2	2	0	-	3	50	50	100	3
2	PCC	MVJ21AI42	Microcontroller and Embedded Systems	AI	3	0	0	-	3	50	50	100	3
3	PCC	MVJ21AI43	Computer Organisation and Architecture	AI	3	0	0	-	3	50	50	100	3
4	IPCC	MVJ21AI44	Python Programming	AI	3	0	2	-	3	100	100	200	4
5	IPCC	MVJ21AI45	Design and Analysis of Algorithms	AI	3	0	2	Y	3	100	100	200	4
6	HSMC	MVJ21CPH46	Constitution of India and Professional Ethics and Cyber Law	Any Department	1	0	0	-	2	50	50	100	1
7	AEC	MVJ21AIA47	.Net and C# Framework	AI	1	0	2	-	2	50	50	100	2
8	INT	MVJ21INT48	Summer Internship-I	Should be completed during the intervening period of II and III semesters. Intra-College Internship					-	-	-	2	
9	BSC	MVJ21MATDIP-II	Additional Mathematics-II	MA	1	2	0	-	3	50	50	100	-
Total					16/17	2/4	6/6		19/22	450/500	450/500	900/1000	22

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Additional Mathematics-II: The course is a non-credit mandatory course (NMC) prescribed for III semester lateral entry diploma holders admitted to BE programs. The successful completion of the program is mandatory for the award of the degree.

Summer Internship-I: Viva voice will be conducted for the 03 weeks inter/intra institutional summer internship activities carried out during the intervening period of II and III semesters. The internship will be considered as a head of passing and will be considered for the award of degree. Those, who do not take up / complete the internship will be declared fail and will have to complete during subsequent examination after satisfying the internship requirements.

V SEMESTER

Sl. No.	Course		Course Title	BOS	Teaching Hours/Week				Examination				Credits
	Type	Code			Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	HSMC	MVJ21AI51	Software Engineering Management	AI	3	0	0	-	3	50	50	100	3
2	PCC	MVJ21AI52	Data Communication and Computer Networks	AI	3	0	0	-	3	50	50	100	3
3	IPCC	MVJ21AI53	Database Management Systems	AI	2	2	2	-	3	100	100	200	4
4	IPCC	MVJ21AI54	Artificial Intelligence	AI	2	2	2	Y	3	100	100	200	4
5	PEC	MVJ21AI55X	Professional Elective – I	AI	3	0	0	-	3	50	50	100	3
6	HSMC	MVJ21ENV56	Environmental Studies	CV	1	0	0	-	2	50	50	100	1
7	AEC	MVJ21RMI57	Research Methodology & IPR	AE	1	2	0	-	2	50	50	100	2
8	UHV	MVJ21UHV58	Universal Human Values	CV	2	0	0	-	2	50	50	100	2
Total					17	6	4	-	21	500	500	1000	22

Note: HSMC: Humanity and Social Science & Management Course, PCC: Professional Core Course, IPCC: Integrated Professional Core Course, PEC: Professional Elective Course, AEC: Ability Enhancement Course, UHV: Universal Human Values, L: Lecture, T: Tutorial, P: Practical, S: Self Study, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Course Code	Professional Elective – I
MVJ21AI551	Artificial Neural Networks
MVJ21AI552	Compiler Design
MVJ21AI553	Virtual Reality
MVJ21AI554	Digital Image Processing

VI SEMESTER

Sl. No.	Course		Course Title	BOS	Teaching Hours/Week				Examination			Credits	
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks		Total Marks
	Type	Code			L	T	P	S					
1	HSMC	MVJ21AI61	Project management with OOMD	AI	3	0	0	-	3	50	50	100	3
2	IPCC	MVJ21AI62	Machine Learning	AI	3	0	2	Y	3	100	100	200	4
3	IPCC	MVJ21AI63	Web Technologies	AI	3	0	2	-	3	100	100	200	4
4	OEC	MVJ21AI64X	Open Elective-I	AI	3	0	0	-	3	50	50	100	3
5	OEC	MVJ21AI65X	MOOC Courses (Open Elective-II)	AI	A twelve-week course should be selected from online platforms like NPTEL/SWAYAM							3	
6	AEC	MVJ21AIA66	ANGULAR JS AND NODE JS	AI	2	0	0	-	2	50	50	100	1
7	PRJ	MVJ21AIMP67	Mini Project	AI	0	0	4	-	3	50	50	100	2
8	INT	MVJ21INT68	Summer Internship-II	AI	Completed during the intervening period of IV and V semesters				50	50	100	2	
Total					14	0	8	-	17	450	450	900	22

Note: Note: HSMC: Humanity and Social Science & Management Course, IPCC: Integrated Professional Core Course, OEC: Open Elective Course, AEC: Ability Enhancement Course, PRJ: Project, INT: Internship, L: Lecture, T: Tutorial, P: Practical, S: Self Study, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Summer Internship-II: Viva voice will be conducted for the 04 weeks Industrial/Govt./ NGO/ MSME/Rural Internship/Innovation/Entrepreneurship summer internship activities carried out during the intervening period of IV and V semesters. The internship will be considered as a head of passing and will be considered for the award of degree. Those, who do not take up / complete the internship will be declared fail and will have to complete during subsequent examination after satisfying the internship requirements.

Course Code	Open Elective-I
MVJ21AI641	Cloud Computing
MVJ21AI642	Foundation of Data Science
MVJ21AI643	Java Programming
MVJ21AI44	Ethical Hacking

VII SEMESTER

Sl. No.	Course		Course Title	BOS	Teaching Hours/Week				Examination				Credits
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
	Type	Code			L	T	P	S					
1	IPCC	MVJ21AI71	Foundation of Data Science	AI	3	0	2	-	3	100	100	200	4
2	PEC	MVJ21AI72X	Professional Elective-II	AI	3	0	0		3	50	50	100	3
3	PEC	MVJ21AI73X	Professional Elective-III	AI	3	0	0		3	50	50	100	3
4	OEC	MVJ21AI74X	Open Elective-III	AI	3	0	0		3	50	50	100	3
5	PRJ	MVJ21AIP75	Project Phase-I	AI	0	0	4		3	50	50	100	2
6	AEC	MVJ21AIA76	Ability Enhancement Course-4	AI	A twelve-week course should be selected from online platforms							1	
Total					12	0	6		15	300	300	600	16

Note: IPCC: Integrated Professional Core Course, PEC: Professional Elective Course, OEC: Open Elective Course, PRJ: Project, AEC: Ability Enhancement Course, L: Lecture, T: Tutorial, P: Practical, S: Self Study, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Course Code	Professional Elective-II	Course Code	Professional Elective-III	Course Code	Open Elective-II
MVJ21AI721	Computer Vision	MVJ21AI731	Natural language Processing	MVJ21AI741	Computer Graphics
MVJ21AI722	Information Retrieval	MVJ21AI732	Pattern Recognition	MVJ21AI742	Introduction to Human Computer Interaction
MVJ21AI723	Big Data Analytics	MVJ21AI733	Vision Systems and Robotics	MVJ21AI743	Mobile Application Development
MVJ21AI724	Pervasive Computing	MVJ21AI734	Deep Learning Techniques	MVJ21AI744	Quantum Computing

VIII SEMESTER

Sl. No.	Course		Course Title	BOS	Teaching Hours/Week				Examination			Credits	
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks		Total Marks
	Type	Code			L	T	P	S					
1	PRJ	MVJ21AIP81	Project Phase-II	AI	-	-	20	-	3	50	50	100	10
2	INT	MVJ21INT82	Research /Industrial Internship	AI	Should be completed in 24 weeks, beginning after the sixth semester, and continuing through the seventh and eighth semesters.				3	50	50	100	5
3	SEM	MVJ21AIS83	Seminar	AI	-	-	2	-	-	100	-	100	1
Total					-	-	22	-	6	200	100	300	16

Note: PRJ: Project, INT: Internship, SEM: Seminar, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Research/Industrial Internship: Viva voice will be conducted for the 24 weeks Research/Industrial/Rural Internship activities carried out during beginning after the sixth semester test and continuing through the seventh and eighth semesters. The internship will be considered as a head of passing and will be considered for the award of degree. Those, who do not take up / complete the internship will be declared fail and will have to complete during subsequent examination after satisfying the internship requirements.

HOD AIML

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