

----- Program Structure -----

B.Sc. (Computer Science) SEMESTER I										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409SB1T101	Subject- 1	C Programming	2	-	20	30	50	2	-	12
2409SB1P102		Lab Course on C Programming	-	4	20	30	50		2	
2409SB2T103	Subject- 2	Discrete Mathematics	2	-	20	30	50	2	-	
2409SB2P104		Lab Course on Discrete Mathematics with Python Programming	-	4	20	30	50	-	2	
2409SB3T105	Subject- 3	Foundation of Digital Electronics	2	-	20	30	50	2	-	
2409SB3P106		Lab Course on Foundation of Digital Electronics	-	4	20	30	50	-	2	
2400GOET1_	GE/OE	From College Basket	2	-	50	-	50	2	-	2
2409SECP107	SEC	Lab Course on “Statistical Methods for Computer Science I	-	4	20	30	50	-	2	2
2400IKST1A	IKS	Generic IKS	2	-	50	-	50	2	-	2
2400AECT1A	AEC	English for Communication - I	2	-	50	-	50	2	-	2
2400VECT1A	VEC	Indian constitution and Democracy	2	-	50	-	50	2	-	2
Total			14	16	340	210	550	14	8	22

B.Sc. (Computer Science) SEMESTER II										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409SB1T201	Subject- 1	Database Management System	2	-	20	30	50	2	-	12
2409SB1P202		Lab Course on Database Management System	-	4	20	30	50		2	
2409SB2T203	Subject- 2	Graph Theory	2	-	20	30	50	2	-	
2409SB2P204		Lab Course on Computational Geometry	-	4	20	30	50	-	2	
2409SB3T205	Subject- 3	Computer Organization	2	-	20	30	50	2	-	
2409SB3P206		Lab Course on Computer Organization	-	4	20	30	50	-	2	
2400GOET2_	GE/OE	From College Basket	-	4	50	-	50	2	-	2
2409SECP207	SEC	Lab Course on Statistical Methods For Computer Science II	-	4	20	30	50	2	-	2
2400AECT2B	AEC	English for Communication - II	2	-	50	-	50	2	-	2
2400VECT2B	VEC	Environmental Awareness	2	-	50	-	50	2	-	2
2400CCCT2_	CC	NSS/NCC/Yoga Education/Health & Wellness /Fine Arts /Sports /Cultural - I	2	-	50	-	50	2	-	2
Total			12	20	340	210	550	14	08	22

----- Program Structure -----

B.Sc. (Computer Science) SEMESTER III										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT301	Major Core	Data Structure using 'C'	2	-	20	30	50	2	-	6
2409MJCT302		Relational Database Management System	2	-	20	30	50	2	-	
2409MJCP303		Lab Course on DSA	-	4	20	30	50	-	2	
2409VSCP304	VSC	Lab Course on Relational Management System	-	4	20	30	50	-	2	2
2409FEPP305	FP/CEP	Field Project / Summer Internship	-	2	50	-	50	-	2	2
2409MNRT306A	Minor	Microcontroller and Programming	2	-	20	30	50	2	-	4
2409MNRP307A		Lab Course on Microcontroller and Programming	-	4	20	30	50	-	2	
OR		OR								
2409MNRT306B		Linear Algebra	2	-	20	30	50	2	-	4
2409MNRP307B		Lab Course on Linear Algebra with Sage Math	-	4	20	30	50	-	2	
2400GOET3_	GE/OE	From College Basket	2	-	50	-	50	2	-	2
2400IKST3B	IKS	Computing in Ancient India	2	-	50	-	50	2	-	2
2400AECT3_	AEC	Sanskrit I / Marathi I / Hindi -I	2	-	50	-	50	2	-	2
2400CCCT3_	CC	NSS/NCC/Yoga Education/Health & Wellness/Fine Arts /Sports /Cultural- II	2	-	50	-	50	2	-	2
Total			14	18	370	180	550	14	08	22

Winter internship- Student is doing an internship that credit is considered for community engagement program – in SEM IV

B.Sc. (Computer Science) SEMESTER IV										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT401	Major Core	Python Programming	2	-	20	30	50	2	-	6
2409MJCT402		Object Oriented Concepts Using C++	2	-	20	30	50	2	-	
2409MJCP403		Lab Course on Object Oriented Concepts Using C++	-	4	20	30	50	-	2	
2409VSCP404	VSC	Lab Course on Python Programming	-	4	20	30	50	-	2	2
2409CEPP405	FP/CEP	Community Engagement Program /Winter Internship	-	2	50	-	50	-	2	2
2409MNRT406A	Minor	IOT Instrumentation	2	-	20	30	50	2	-	4
2409MNRP407A		Lab Course on IOT Instrumentation	-	4	20	30	50	-	2	
OR		OR								
2409MNRT406B		Numerical Analysis	2	-	20	30	50	2	-	4
2409MNRP407B		Lab Course on Numerical Analysis	-	4	20	30	50	-	2	
2400GOET4_	GE/OE	From College Basket	2	-	50	-	50	2	-	2
2409SEC408	SEC	Computer Network	-	4	20	30	50	-	2	2
2400AECT4_	AEC	Sanskrit II / Marathi II / Hindi-II	2	-	50	-	50	2	-	2
2400CCCT4_	CC	NSS/NCC/Yoga Education/Health & Wellness	2	-	50	-	50	2	-	2
Total			14	18	340	210	550	12	10	22

Summer Internship – 2 Credit *Any Student is doing an internship that credit is for Field project / Community Engagement Program- in SEM V

----- Program Structure -----

B.Sc. (Computer Science) SEMESTER V										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT501	Major Core	Foundation of Data Science	2	-	20	30	50	2	-	2
2409MJCT502		Core JAVA Programming	2	-	20	30	50	2	-	2
2409MJCT503		Theoretical Computer Science	2	-	20	30	50	2	-	2
2409MJCT504		Object Oriented Software Engineering	2	-	20	30	50	2	-	2
2409MJCP505		Lab Course on Foundation of DataScience	-	4	20	30	50	-	2	2
2409MJCP506		Lab Course on JAVA Programming	-	4	20	30	50	-	2	2
2409VSCT507	Major Elective	BlockChain Technologies	2	-	20	30	50	2	-	2
2409MJET508A		Full Stack Development -I	2	-	20	30	50	2	-	2
2409MJCP509A		Lab Course on Full Stack Development I		4		30	50		2	2
OR		OR								
2409MJCT508B		Foundation of C#.NET	2	-	20	30	50	2	-	2
2409MJCP509B	VSC	Lab Course on C#.NET	-	4	20	30	50		2	2
2409FEPT510	FP/CEP	Field Project / Community Engagement Program	-	2	50	-	50		2	2
2409MRNT511A	Minor	Robotics and Automation	2	-	20	30	50	2	-	2
OR		OR								
2409MJCT511B		Operation Research	2		20	30	50	2		2
Total			14	14	250	300	550	14	8	22

B.Sc. (Computer Science) SEMESTER VI										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT601	Major Core	Advanced JAVA Programming	2		20	30	50	2		2
2409MJCT602		Data Analytics	2		20	30	50	2		2
2409MJCT603		Compiler Construction	2		20	30	50	2		2
2409MJCT604		Operating System	2		20	30	50	2		2
2409MJCP605		Lab Course on JAVA Programming		4	20	30	50		2	2
2409MJCP606		Lab Course on Data Analytics		4	20	30	50		2	2
2409VSCT607	VSC	Lab Course on OS		4	20	30	50		2	2
2409MJET608A	Major Elective	FULL Stack Development -II	2		20	30	50	2		2
2409MJEP609A		Lab Course on FULL StackDevelopment -II		4	20	30	50		2	2
OR		OR								
2409MJET608B		ASP.NET Programming	2		20	30	50	2		2
2409MJEP609B		Lab Course on ASP.NET Programming		4	20	30	50		2	2
2409OJTP610A	OJT	On Job Training (120 Hrs.)		2	100	-	100		2	2
Total			12	14	280	320	550	10	12	22

*Winter Internship (Equivalent to OJT) – 4 Credit

----- Program Structure -----

*Note: - If Student want to opt semester Internship, then follow below structure of SEM-VI

B.Sc. (Computer Science) SEMESTER VI										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT601	Major Core	Advanced JAVA Programming	2	-	20	30	50	2	-	2
2409MJCT602		Data Analytics	2	-	20	30	50	2	-	2
2409MJCT603		Compiler Construction	2	-	20	30	50	2	-	2
2409MJCT604		Operating System	2	-	20	30	50	2	-	2
2409OJTP610B	OJT	On Job Training (360 Hrs.)	-	2	300	-	300	-	12	12
2409MOOC611	MOOC	Any One MOOC Courses	-	-	-	-	-	-	2	2
Total			8	2	380	120	500	8	14	22

B.Sc. (Computer Science) Honors Degree: SEMESTER VII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT701	Major Core	Design & Analysis of Algorithm	2	-	20	30	50	2	-	2
2409MJCT702		Data Mining & Data Warehousing	4	-	40	60	100	4	-	4
2409MJCT703		Advanced Databases	4	-	40	60	100	4	-	4
2409MJCP704		Lab Course on DMDW	-	4	20	30	50	-	2	2
2409MJCP705		Lab Course on Ad. Databases	-	4	20	30	50	-	2	2
2409MJET706 A	Major Elective	Soft Computing	2	-	20	30	50	2	-	4
2409MJEP707 A		Lob Course on Soft Computing	-	4	20	30	50	-	2	2
OR		OR								
2409MJET706 B		Artificial Intelligence	2	-	20	30	50	2	-	2
2409MJEP707 B		Lab Course on Artificial Intelligence	-	4	20	30	50	-	2	2
2409REM708	RM	Research Methodology	4	-	100	-	100	4	-	4
Total			16	12	280	330	550	16	6	22

----- Program Structure -----

B.Sc. (Information Technology) Honors Degree: SEMESTER VIII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT801	Major Core	Machine Learning	4	-	40	60	100	4	-	4
2409MJCT802		Image & Video Processing	2	-	40	30	50	2	-	2
2409MJCT803		Full Stack Development -III	4	-	40	60	100	4	-	4
2409MJCP804		Lab Course on Machine Learning	-	4	40	30	50	-	2	2
2409MJCP805		Lab Course on Full Stack Development -III	-	4	20	30	50	-	2	2
2409MJET806A	Major Elective	Mobile Technologies	2	-	20	30	50	2		2
2409MJEP807A		Lab Course on Mobile Technologies	-	4	20	30	50	-	2	2
OR		OR								
2409MJET806B		Advanced Operating System	2	-	20	30	50	2	-	2
2409MJEP807B		Lab Course on Advanced Operating System	-	4	20	30	50	-	2	2
2409OJT808A	OJT	On Job Training (120 Hrs.)	-	2	100	-	100	-	4	4
Total			12	14	280	270	550	12	10	22

*Note: - If Student want to opt semester Internship, then follow below structure of SEM-VIII

B.Sc. (Information Technology) Honors Degree: SEMESTER VIII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2409MJCT801	Major Core	Machine Learning	4	-	40	60	100	4	-	4
2409MJCT802		Image & Video Processing	2	-	20	30	50	2	-	2
2409MJCT803		Full Stack Development -III	4	-	40	60	100	4	-	4
2409OJTP808 B	OJT	On Job Training (120 Hrs.)		2	300	-	300	-	12	12
Total			10	2	400	150	550	10	12	22