

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

B.Sc. (Information Technology)   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
2406SB1T101	Subject- 1	Problem Solving Using 'C' Programming	2	-	20	30	50	2	-	12
2406SB1P102		Lab Course on Problem Solving Using 'C' Programming	-	4	20	30	50	-	2	
2406SB2T103	Subject- 2	Database Management System	2	-	20	30	50	2	-	
2406SB2P104		Lab Course on Database Management System	-	4	20	30	50	-	2	
2406SB3T105	Subject- 3	Python Programming	2	-	20	30	50	2	-	
2406SB3P106		Lab Course on Python Programming	-	4	20	30	50	-	2	
2400GOET1	GE/OE	From College Basket	2	-	50	-	50	2	-	2
2406SECT107	SEC	Fundamentals of Digital Systems	2	-	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			16	12	340	210	550	16	06	22

B.Sc. (Information Technology)   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
2406SB1T201	Subject- 1	Advanced Web Page Designing	2	-	20	30	50	2	-	12
2406SB1P202		Lab Course on Advanced Web Page Designing	-	4	20	30	50	-	2	
2406SB2T203	Subject- 2	Relational Database Management System	2	-	20	30	50	2	-	
2406SB2P204		Lab Course on Relational Database Management System	-	4	20	30	50	-	2	
2406SB3T205	Subject- 3	Introduction to Web Development with Python	2	-	20	30	50	2	-	
2406SB3P206		Lab Course on Introduction to Web Development with Python	-	4	20	30	50	-	2	
2400GOET2	GE/OE	From College Basket	-	4	50	-	50	2	2	2
2406SECP207	SEC	Lab Course On Discrete Mathematics	-	4	20	30	50	-	2	2
2400AECT2	AEC	English for Communication-II	2	-	50	-	50	2	-	2
2400VECT2	VEC	Environmental Awareness	2	-	50	-	50	2	-	2
2400CCCT2	CC	NSS/NCC/Yoga Education/Health & FineArts/ Sports/ Cultural -I	2	-	50	-	50	2	-	2
Total			12	20	340	210	550	14	08	22

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

B.Sc. (Information Technology)   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
2406MJCT301	Major Core	Data Structure using 'C'	2	-	20	30	50	2	-	6
2406MJCT302		Object Oriented Programming Using C++	2	-	20	30	50	2	-	
2406MJCP303		Lab Course on Data Structure using 'C'	-	4	20	30	50	-	2	
2406VSCP304	VSC	Lab Course on Object Oriented Programming Using C++	-	4	20	30	50	-	2	2
2406CEPT305	FP/CEP	Field Project	-	2	50	-	50	-	2	2
2406MNRT306A	Minor	NoSQL Databases and Introduction to MongoDB	2	-	20	30	50	2	-	4
2406MNRP307A		Lab Course on NoSQL Databases and Introduction to MongoDB	-	4	20	30	50	-	2	
OR		OR								
2406MNRT306B	Minor	Flask - Lightweight Web Framework	2	-	20	30	50	2	-	4
2406MNRP307B		Lab Course on Flask - Lightweight Web Framework	-	4	20	30	50	-	2	
2406GOET3_	GE/OE	From College Basket	2	-	50	-	50	2	-	2
2406IKST3B	IKS	Computing in Ancient India	2	-	50	-	50	2	-	2
2406AECT3_	AEC	Hindi-I/Marathi-I/Sanskrit-I	2	-	50	-	50	2	-	2
2406CCCT3_	CC	NSS/NCC/Yoga Education/Health & Fine Arts/ Sports/ Cultural -II	2	-	50	-	50	2	-	2
Total			14	18	370	180	550	14	08	22

Summer Internship-4 credits \*Students internship credits will be considered for CEP in Sem III

B.Sc. (Information Technology)   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
2406MJCT401	Major Core	Object Oriented Concepts and Java Programming	2	-	20	30	50	2	-	6
2406MJCT402		Web Programming-I	2	-	20	30	50	2	-	
2406MJCP403		Lab Course on Java Programming	-	4	20	30	50	-	2	
2406VSCP404	VSC	Lab Course on Web Programming-I	-	4	20	30	50	-	2	2
2406CEPP405	FP/CEP	Community Engagement Program	-	2	50	-	50	-	2	2
2406MNRT406 A	Minor	Advanced MongoDB and Database Administration	2	-	20	30	50	2	-	4
2406MNRP407 A		Lab Course: Advanced MongoDB & Database Administration	-	4	20	30	50	-	2	
OR		OR								
2406MNRT406 B	Minor	Full-Stack Web Framework - Django	2	-	20	30	50	2	-	4
2406MNRP407 B		Lab Course on Full-Stack Web Framework - Django	-	4	20	30	50	-	2	
2406GOET4_	GE/OE	From College Basket	2	-	50	-	50	2	-	2
2406SECP4_	SEC	Lab Course on Descriptive Statistics & Probability Theory	-	4	20	30	50	-	2	2
2406AECT4_	AEC	Hindi-II/Marathi-II/Sanskrit-II	2	-	50	-	50	2	-	2
2406CCCT4_	CC	NSS/NCC/Yoga Education/Health & Fine Arts/Sports/ Cultural -III	2	-	50	-	50	2	-	2
Total			12	18	340	210	550	12	10	22

Winter Internship- 4 credits \* Students internship credits will be considered for FP in Sem IV

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

B.Sc. (Information Technology)   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
2406MJCT501	Major Core	Advance Java Programming	2	-	20	30	50	2	-	10
2406MJCT502		Web Programming-II	2	-	20	30	50	2	-	
2406MJCT503		Object Oriented Software Engineering	2	-	20	30	50	2	-	
2406MJCT504		Operating System Concepts	2	-	20	30	50	2	-	
2406MJCP505		Lab Course on Advance Java Programming	-	4	20	30	50	-	2	
2406MJCP506		Lab Course on Web Programming-II	-	4	20	30	50	-	2	
2406MJET507A	Major Elective	Data Science	2	-	20	30	50	2	-	4
2406MJEP508A		Lab Course on Data Science		4	20	30	50	-	2	
OR		OR								
2406MJET507B		Computer Graphics and Animation	-	4	20	30	50	-	2	
2406MJEP508B		Lab Course on Computer Graphics and Animation	2	-	50	-	50	2	-	
2406VSCT509	VSC	Computer Networking	2	-	50	-	50	2	-	2
2406CEPP510	FP/CEP	Field Project	2	-	50	-	50	2	-	2
2406MNRT511A	Minor	Big Data Technologies	2	-	50	-	50	2	-	
OR		OR								
2406MNRT511B		RESTful Web Services								
Total			14	14	250	300	550	14	8	22

Summer Internship-4 credits \*Students internship credits will be considered for CEP in Sem V

B.Sc. (Information Technology)   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
2406MJCT601	Major Core	Mobile Application Development	2		20	30	50	2		12
2406MJCT602		Digital Image Processing	2		20	30	50	2		
2406MJCT603		Software Testing	2		20	30	50	2		
2406MJCT604		Advanced Operating System	2		20	30	50	2		
2406MJCP605		Lab Course on Mobile Application Development		4	20	30	50		2	
2406MJCP606		Lab Course on Digital Image Processing		4	20	30	50		2	
2406MJET607 A	Major Elective	Data Analytics	2		20	30	50	2		4
2406MJEP608 A		Lab Course on Data Analytics		4	20	30	50		2	
OR		OR								
2406MJET607 B		Java Frameworks	2		20	30	50	2		
2406MJEP608 B		Lab Course on Java Frameworks		4	20	30	50		2	
2406VSCT609	VSC	Advance Networking	2		20	30	50	2		2
2406OJTP610 A	FP/CEP	On Job Training (120 Hrs)		2	100	-	100		4	4
Total			12	14	280	320	550	12	10	22

\*Semester long Internship- 4 credit (Equivalent to OJT) Students being involved with public or private organizations, colleges, research and development labs, research organizations, non-governmental organizations, businesses, center's for innovation and entrepreneurship, business organizations, local industry are some examples of OJT/internship types where students will get the opportunities for active engagement in on-site experiential learning.

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

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

B.Sc. (Information Technology)   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
2406MJCT601	Major Core	Mobile Application Development	2	-	20	30	50	2	-	8
2406MJCT602		Digital Image Processing	2	-	20	30	50	2	-	
2406MJCT603		Software Testing	2	-	20	30	50	2	-	
2406MJCT604		Advanced Operating System	2	-	20	30	50	2	-	
2406OJTP610B	OJT	On Job Training (360 Hrs)		2	300	-	300	-	12	12
2406MOOC611	MOOC	Any one MOOC Course	-	-	-	-	-	-	2	2
Total			8	2	380	120	500	8	14	22

B.Sc. (Information Technology)   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
2406MJCT701	Major Core	Web Techniques	4	-	40	60	100	4	-	14
2406MJCT702		Software Testing Tools	4	-	40	60	100	4	-	
2406MJCT703		Cloud Computing	2	-	20	30	50	2	-	
2406MJCP704		Lab Course on Web Techniques	-	4	20	30	50	-	2	
2406MJCP705		Lab Course on Software Testing Tools	-	4	20	30	50	-	2	
2406MJET706A	Major Elective	Machine Learning	2	-	20	30	50	2	-	4
2406MJEP707A		Lab Course on Machine Learning	-	4	20	30	50	-	2	
OR		OR								
2406MJET706B		DOT NET Framework	2	-	20	30	50	2	-	
2406MJEP707B		Lab Course on DOT NET Framework	-	4	20	30	50	-	2	
2406MNRT708	Minor	Research Methodology	4	-	100	-	100	4	-	4
Total			16	12	220	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
2406MJCT801	Major Core	Full Stack Development (MERN)	4	-	40	60	100	4	-	14
2406MJCT802		Design and Analysis of Algorithm	4	-	40	60	100	4	-	
2406MJCT803		Block chain Technology	2	-	20	30	50	2	-	
2406MJCP804		Lab Course on Full Stack Development (MERN)	-	4	20	30	50	-	2	
2406MJCP805		Lab Course on Design and Analysis of Algorithm	-	4	20	30	50	-	2	
2406MJCT806A	Major Elective	Introduction to Artificial Intelligence	2	-	20	30	50	2	-	4
2406MJCP807A		Lab Course on Artificial Intelligence	-	4	20	30	50	-	2	
OR		OR								
2406MJCT806B		ASP DOT NET	2	-	20	30	50	2	-	
2406MJCP807B		Lab Course on ASP DOT NET	-	4	20	30	50	-	2	
2406RPP808A	OJT/ Research Project	Research Project	-	2	100	-	100	-	4	4
Total			14	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
2406MJCT801	Major Core	Full stack Development (MERN)	4	-	40	60	100	4	-	10
2406MJCT802		Design and Analysis of Algorithm	4	-	40	60	100	4	-	
2406MJCT803		Blockchain Technology	2	-	20	30	50	2	-	
2406RPP808B	OJT/ Research Project	On Job Training (360 Hrs)		2	300	-	300	-	12	12
Total			10	2	400	150	550	10	12	22