

F. Y. B. Sc. (Computer Science)- NEP-II							
SEMESTER- I							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory M1 (2T+2P)	24CMP11101	Problem Solving Using 'C' Programming	2	-	20	30	50
	24CMP11102	Practical Based on 'C' Programming	-	2	20	30	50
Major Mandatory M2 (2T+2P)	24CMAT11101	Discrete Mathematics	2	-	20	30	50
	24CMAT11102	Practical Based on Discrete Mathematics	-	2	20	30	50
Major Mandatory M3 (2T+2P)	24-CELE-11101	Smart Instrumentation Systems	2	-	20	30	50
	24-CELE-11102	Electronics Practical Course I	-	2	20	30	50
Open Elective (2T)	24COB11301(A)	Journey to be Entrepreneur	2	-	20	30	50
	24COB11301(C)	Fundamentals of Marketing	2	-	20	30	50
SEC (2P)	24CSST11401	Statistical Computing Using MSExcel	-	2	20	30	50
AEC (2T)	24ENG11506	Developing Communicative Competence In English	2	-	20	30	50
VEC(2T)	24VEC11501	Environmental Sustainability Principles and Values	2	-	20	30	50
IKS(Generic)(2T)	24IKS11501	Foundation Course in Indian Knowledge System	2	-	20	30	50
		<b>Total</b>	<b>16</b>	<b>08</b>	<b>240</b>	<b>360</b>	<b>600</b>

F. Y. B. Sc. (Computer Science)- NEP-II SEMESTER- II							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory M1 (2T+2P)	24CMP12101	Advanced 'C' Programming	2	-	20	30	50
	24CMP12102	Practical Based on Advanced 'C' Programming	-	2	20	30	50
Major Mandatory M2 (2T+2P)	24-CMAT12101	Graph Theory	2	-	20	30	50
	24-CMAT-12102	Practical based on Graph Theory	-	2	20	30	50
Major Mandatory M3 (2T+2P)	24-CELE-12101	Computer Organization	2	-	20	30	50
	24-CELE-11102	Electronics Practical Course II	-	2	20	30	50
Open Elective (2T)	24HIS12303	History of Science	2	-	20	30	50
	24GEO12303	Health Geography	2	-	20	30	50
SEC (2P)	24CSST12401	Testing of Hypothesis using R Software	-	2	20	30	50
AEC (2T)	24ENG12506	Mastering English for Professional Purposes	2	-	20	30	50
VEC(2T)	24VEC12501	India's Constitution Democracy Elections and Governance	2	-	20	30	50
CC(2T)			2	-	20	30	50
		<b>Total</b>	<b>16</b>	<b>08</b>	<b>240</b>	<b>360</b>	<b>600</b>

**S. Y. B. Sc (Computer Science)-NEP-II  
Semester -III**

Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandator y (4T) + (2P)	24CMP23101	Introduction to C++	2		20	30	50
	24CMP23102	Advanced Database	2	-	20	30	50
	24CMP23103	Practical on C++ & ADB	-	2	20	30	50
Major Specific IKS	24CMP23104	Timeline of Computing	2	-	20	30	50
Minor 2T+2P		Electronics/ Mathematics	2	-	20	30	50
			-	2	20	30	50
OE1(2)		Arts/ Commerce	2	-	20	30	50
VSEC (2)	24CMP23401	Practical Based on HTML & CSS	-	2	20	30	50
AEC (2)		Hindi/Marathi	2	-	20	30	50
CC (2)		2-D Animation	2	-	20	30	50
FP (2)	24CMP23601	Field Project	-	2	20	30	50
		<b>Total</b>	<b>14</b>	<b>8</b>	<b>220</b>	<b>330</b>	<b>550</b>

**S. Y. B. Sc (Computer Science)-NEP-II  
Semester -IV**

Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (4T) =(2T+2T) +2P	24CMP24101	Data Structures	2	-	20	30	50
	24CMP24102	Introduction to JavaScript	2	-	20	30	50
	24CMP24102	Practical based on JavaScript	-	2	20	30	50
Minor (4) 2T+2P		Mathematics/Electronics	2	-	20	30	50
			-	2	20	30	50
OE3(2)		Arts/ Commerce	2	-	20	30	50
VSEC(2)	24CMP24401	Practical Based on Data Structures	-	2	20	30	50
SEC(2)		Mathematical Techniques using Python	-	2	20	30	50
AEC(2)		Marathi/Hindi	2	-	20	30	50
CC (2)		3 D Animation	2	-	20	30	50
CEP(2)	24CMP24601	Community Engagement Project	-	2	20	30	50
		<b>Total</b>	<b>12</b>	<b>10</b>	<b>220</b>	<b>330</b>	<b>550</b>

**T. Y. B. Sc (Computer Science) – NEP-II  
SEMESTER - V**

Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (8T) =(2T+2T+2T+2T)	24CMP35101	Theoretical Computer Science	2	-	20	30	50
	24CMP35102	Core Java	2	-	20	30	50
	24CMP35103	Operating System	2	-	20	30	50
	24CMP35104	Software Project Management	2	-	20	30	50
Major (4) (2P+2P)	24CMP35105	Practical based on Core Java	-	2	20	30	50
	24CMP35106	Practical based on Operating System	-	2	20	30	50
Minor (2)		Electronics/ Mathematics	2	-	20	30	50
Major DSE(4) (2T+2P)	24CMP35107(A)	Python Programming	2	-	20	30	50
	24CMP35108(A)	Practical Based on Python Programming	-	2	20	30	50
	OR						
	24CMP35107(B)	ASP.NET	2	-	20	30	50
	24CMP35108(B)	Practical Based on ASP.NET	-	2	20	30	50
VSEC (2P)	24CMP35401	Practical Based on PHP	-	2	20	30	50
FP (2P)	24CMP35601	Field Project	-	2	20	30	50
		<b>Total</b>	<b>12</b>	<b>10</b>	<b>220</b>	<b>330</b>	<b>550</b>

**T. Y.B. Sc (Computer Science)- NEP-II  
SEMESTER -VI**

Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (8T) =(2T+2T+2T+2T)	24CMP36101	Compiler Construction	2	-	20	30	50
	24CMP36102	Advanced Java	2	-	20	30	50
	24CMP36103	Advanced Operating System	2	-	20	30	50
	24CMP36104	Object Oriented Software Engineering	2	-	20	30	50
Major (4) (2P+2P)	24CMP36105	Practical Based on Advanced Java	-	2	20	30	50
	24CMP36106	Practical Based on Advanced Operating System	-	2	20	30	50
Major DSE(4) (2T+2P)	24CMP36107(A)	Web Services with Node.js and TypeScript	2	-	20	30	50
	24CMP36108(A)	Practical Based on Web Services with Node.js and TypeScript	-	2	20	30	50
	OR						
	24CMP36107(B)	Data Science	2	-	20	30	50
	24CMP36108(B)	Practical Based on Data Science	-	2	20	30	50
VSE (2P)	24CMP36401	Blockchain Technology	-	2	20	30	50
OJT (4P)	24CMP36601	On Job Training	-	4	40	60	100
		<b>Total</b>	<b>10</b>	<b>12</b>	<b>220</b>	<b>330</b>	<b>550</b>