

Level 4.5 (FY) Semester - I

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
CA-101 - T	Subject 1	Problem Solving and Programming in C	02	--	--	15	35	50	02	--	--	02
CA-102 - P		Lab course on CA-101 – T	--	--	04	15	35	50	--	--	02	02
CA-103 - T	BCA	Computer Organization & Architecture	02	--	--	15	35	50	02	--	--	02
CA-104 - P		Lab course on CA-103 – T	--	--	04	15	35	50	--	--	02	02
CA-105 - T	BCA	Discrete Mathematics and Statistics	02	--	--	15	35	50	02	--	--	02
CA-106 - P		Laboratory course on CA-105 - T	--	--	04	15	35	50	--	--	02	02
OE-101-CA	GE/OE	Introduction to Data Science	02	--	--	15	35	50	02	--	--	02
VSEC-101-CA	VSEC	HTML and Web Page Designing	--	--	04	15	35	50	--	--	02	02
IKS – 100 – T	IKS Generic	Course from Basket of courses prepared by the University	02	--	--	15	35	50	02	--	--	02
AEC – 101 - ENG	AEC	Course from University Basket	02	--	--	15	35	50	02	--	--	02
VEC – 101 - ENV	VEC	Course from University Basket	02	--	--	15	35	50	02	--	--	02
Total			14	00	16	165	385	550	14	00	08	22

Level 4.5 (FY) Semester - II

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
CA-151 - T	Subject 1	Advanced C Programming	02	--	--	15	35	50	02	--	--	02
CA-152 - P		Lab course on CA-151 – T	--	--	04	15	35	50	--	--	02	02
CA-153 - T	BCA	Introduction to Microcontrollers	02	--	--	15	35	50	02	--	--	02
CA-154 - P		Lab course on CA-153 - T	--	--	04	15	35	50	--	--	02	02
CA-155 - T	BCA	Linear Algebra	02	--	--	15	35	50	02	--	--	02
CA-156 - P		Laboratory course on CA-155 - T	--	--	04	15	35	50	--	--	02	02
OE-151-CA	GE / O E	Data Science Using Spreadsheet Software	--	--	04	15	35	50	--	--	02	02
VSEC-151-CA	VSEC	Software Tools for Business Communications	--	--	04	15	35	50	--	--	02	02
AEC-151-ENG	AEC	Course from University Basket	02	--	--	15	35	50	02	--	--	02
VEC – 151 - ENV	VEC	Course from University Basket	02	--	--	15	35	50	02	--	--	02
CC – 151 - PE	CC	Course from University Basket	02	--	--	15	35	50	02	--	--	02
Total			12	00	20	165	385	550	12	00	10	22

**Structure of SY Bachelor of Computer Applications Level 5.0
Semester - III**

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
CA-201-MJ	MJ	Data Structures	02	--	--	15	35	50	02	--	--	02
CA-202-MJP		Lab course on CA-201 -MJ	--	--	04	15	35	50	--	--	02	02
CA-221 -VSC	VSC	C++ Programming	02	--	--	15	35	50	02	--	--	02
CA-222 -VSCP	VSC	Lab course on CA-221	--	--	04	15	35	50	--	--	02	02
CA-231-FP	FP	Field Work	--	--	04	15	35	50	--	--	02	02
ELS-241-MN	MN	Data Communication (Networking)	02	--	--	15	35	50	02	--	--	02
ELS 242-MNP		Lab Course on ELS -241 –MN	--	--	04	15	35	50	--	--	02	02
OE-201-CA	GE/OE	Course from University Basket	02	--	--	15	35	50	02	--	--	02
CA-200 -IKS	IKS	Indian Knowledge System for Computing	02	--	--	15	35	50	02	--	--	02
CA -241-MN	MN	Course from University Basket	02	--	--	15	35	50	02	--	--	02
CA -242-MNP		Course from University Basket	--	--	04	15	35	50	--	--	02	02
Total			12	00	20	165	385	550	12	00	10	22

Structure of SY Bachelor of Computer Applications Level 5.0
Semester – IV

Course Code	Course Type	Course Name	Teaching Scheme Hrs/Week			Examination Scheme and Marks			Credits			
			TH	TU	PR	CE	EE	Total	TH	TU	PR	Total
CA-251-MJ	MJ	Database Management Systems	04	--	--	30	70	100	04	--	--	04
CA-252-MJP		Lab course on CA-251 –MJ	--	--	04	15	35	50	--	--	02	02
CA-271-VSC	VSC	Python Programming	--	--	04	15	35	50	--	--	02	02
CA-281 CEP	CEP	Community Services	--	--	04	15	35	50	--	--	02	02
ELS-291 - MN	MN	Communication Networks	02	--	--	15	35	50	02	--	--	02
ELS-292 - MNP		Lab course on CA - 291 –MN	--	--	04	15	35	50	--	--	02	02
OE-251-CA	GE/OE	Course from University Basket	--	--	04	15	35	50	--	--	02	02
SEC-251-CA	SEC	Spreadsheet Applications	--	--	04	15	35	50	--	--	02	02
CA-291-MN	MN	Course from University Basket	02	--	--	15	35	50	02	--	--	02
CA-292-MN		Course from University Basket	--	--	04	15	35	50	--	--	02	02
Total			08	00	28	165	385	550	08	00	14	22

Exit option: Award of **UG Diploma** in Bachelor of Computer Applications (BCA) with **88** credits and an **additional 4** credits (for **either** a course by Microsoft/CCNA/Salesforce/Google/AWS/Oracle/RedHat etc. **or** Swayam/ NPTEL/MKCL MOOC course equivalent to core NSQF course **or** an internship) **or else** Continue with Major and Minor

