

**BCA\_NEW and BCA\_NEWOL Programme Structure**

*Annexure - A*

Course Code	Course Title	Credits	School
<b>SEMESTER I</b>			
BEVAE-181	Environmental Studies	4	SOH
BEGLA-136	English at Work Place	6	SOH
BCS-111	Computer Basics and PC Software	4	SOCIS
BCSL-013	Computer Basics and PC Software Lab	2	SOCIS
BCS-012	Basic Mathematics	4	SOCIS
	<b>Total Credits:</b>	<b>20</b>	
<b>SEMESTER II</b>			
FEG-02	Foundation Course in English-2	4	SOH
MCS-202	Computer Organisation	4	SOCIS
MCS-203	Operating Systems	4	SOCIS
MCSL -204	WINDOWS and LINUX Lab	2	SOCIS
MCS-201	Programming in C and Python	4	SOCIS
MCSL- 205	C and Python Lab	2	SOCIS
	<b>Total Credits:</b>	<b>20</b>	
<b>SEMESTER III</b>			
MCS-208	Data Structures and Algorithms	4	SOCIS
MCSL -209	Data Structures and Algorithms Lab	2	SOCIS
MCS-207	Database Management Systems	4	SOCIS
BCS- 131	Programming in C++	4	SOCIS
BCSL-135	DBMS and C++ Lab	2	SOCIS
BCS -040	Statistical Techniques	4	SOCIS
	<b>Total Credits:</b>	<b>20</b>	
<b>SEMESTER IV</b>			
MCS-206	Object Oriented Programming using Java	4	SOCIS
BCSL-146	Object Oriented Programming using Java Lab	2	SOCIS
BCS -053	Web Programming	2	SOCIS
BCSL-147	Web Programming Lab	2	SOCIS
BCS -041	Fundamentals of Computer Networks	4	SOCIS
BCOC-131	Financial Accounting	6	SOMS
	<b>Total Credits:</b>	<b>20</b>	
<b>SEMESTER V</b>			
BCS- 151	Introduction to Software Engineering	4	SOCIS
BCS - 042	Introduction to Algorithm Design	2	SOCIS
BCSL-159	Introduction to Algorithm Design Lab	2	SOCIS
BCOS - 184	E-Commerce	4	SOMS
MSEI-023	Cyber Security	4	SOVET
BECS-184	Data Analysis	4	SOSS
	<b>Total Credits:</b>	<b>20</b>	
<b>SEMESTER VI</b>			
BCOS -185	Entrepreneurship	4	SOMS
MSEI-027	Digital Forensics	4	SOVET
BCSP-165	Project	12	SOCIS
	<b>Total Credits:</b>	<b>20</b>	

Programme Name: Bachelor of Computer Applications (BCA)

Course Code	Educational Qualifications for Academic Counsellors
MCS-011, 012, 014, 021, 022, 023, 024, MCSL-016, <u>BCS-011</u> , <u>BCSL-013</u> , <u>BCSL-21</u> , <u>BCSL-022</u> , <u>BCS-031</u> , <u>BCSL-032</u> , <u>BCSL-033</u> , <u>BCSL-034</u> , <u>BCS-041</u> , <u>BCS-042</u> , <u>BCSL-043</u> , <u>BCSL-044</u> , <u>BCSL-045</u> , <u>BCS-051</u> , <u>BCS-052</u> , <u>BCS-053</u> , <u>BCSL-056</u> , <u>BCSL-057</u> , <u>BCS-062</u> , <u>BCSL-063</u> , <u>BCSP-064</u>	Ph. D in Computer Science / M.Tech (Computer Science / IT) / MS (Computer Science / IT / Software systems) / M.Phil (Computers)  <b>OR</b>  B.Tech (Computer Science/IT) / B.E(Computer Science/IT) / MCA / M.Sc(Computer Science/IT) with at least 2 years of experience in teaching / industry
MCS-013, <u>BCS-012</u> , <u>BCS-054</u> , <u>BCSL-058</u>	M. Sc (Maths) or above with at least 2 years of teaching experience
MCS-015, BCS-055, <u>FEG-02</u>	MA(English) or above with at least 2 year of experience in teaching preferably in Linguistics/ELT
ECO-01, ECO-02	M.Com with 5 years teaching experience at UG/PG Level
<u>BCS-040</u>	M.Sc. (Stats) / M.Sc(Maths with specialization in Stats) / MCA / M.Tech / B.Tech (CS/IT) with at least two years of teaching exp in Statistical Techniques

Eligibility Criteria for Project Evaluators of BCYSP-064 (Project)

Ph. D in Computer Science / M. Tech or equivalent in Computer Science with at least 5 years' experience in teaching computer science courses in MCA / M. Tech /B.E / B. Tech Programmes in Computer Science / Information technology/ Computer Engineering in a University / Regional Engineering Colleges.

OR