CHOWDHURT LINVERSI

GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati - 781017, Assam

School of Engineering & Technology

Department of Computer Application ${f BCA}$

Semester I

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name		Hours per week		Credit	Mark	
					L	T	P	С	CA	FA
T	1	DSCC	BCA23101T	Introduction to Programming	3	0	0	3	40	60
T	2	DSCC	BCA23102T	Digital Logic	3	1	0	4	40	60
T	3	DSCC	BCA23103T	Introduction to Web Technology	2	1	0	3	40	60
T	4	MDC		MDC-1	3	0	0	3	40	60
T	5	AEC		AECC – I	2	0	0	2	40	60
T	6	SEC		SEC – I	3	0	0	3	40	60
T	7	VAC		VAC – I	2	0	0	2	40	60
P	8	DSCC	BCA23101P	Laboratory-I (C Programming)	0	0	2	1	40	60
P	9	DSCC	BCA23103P	Laboratory-I (Web Technology)	0	0	2	1	40	60
			•	Total	17	2	4	22	360	540

Semester II

Theory/	Sl.	Course	Course Code	Course Name	Hours	per v	veek	Credit	Ma	ark
Practical	No	Type			L	T	P	C	CA	FA
T	1	DSCC	BCA23105T	Data structure and algorithms	3	0	0	3	40	60
T	2	DSCC	BCA23106T	Software Engineering	3	1	0	4	40	60
T	3	DSCC	BCA23107T	Fundamentals of Data Science	2	1	0	3	40	60
T	4	MDC		MDC-II	3	0	0	3	40	60
T	5	AEC		AECC –II	2	0	0	2	40	60
T	6	SEC		SEC – II	3	0	0	3	40	60
T	7	VAC		VAC – II	2	0	0	2	40	60
P	8	DSCC	BCA23105P	Laboratory-II(Data Structure)	0	0	2	1	40	60
P	9	DSCC	BCA23107P	Laboratory-II((Data Science using python)	0	0	2	1	40	60
			•	Total	17	2	6	22	360	540

• Exit option with CERTIFICATION in Computer Applications after successfully undertaking Vocational Training of 8 weeks (4 credits).



GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati - 781017, Assam

Semester III

Theory/	Sl.	Course	Course Code	Course Name	Hour	s per w	veek	Credi t	Ma	ark
Practical	No	Type			L	T	P	C	CA	FA
T	1	DSCC	BCA23201T	Object Oriented Programming	3	0	0	3	40	60
T	2	DSCC	BCA23202T	Database Management System	3	0	0	3	40	60
T	3	DSCC	BCA23203T	Operating Systems	3	1	0	4	40	60
T	4	AECC		AECC – III	2	0	0	2	40	60
T	5	SEC		SEC – III	3	0	0	3	40	60
T	6	MDC		MDC-III	3	0	0	3	40	60
P	7	DSCC	BCA23201P	Laboratory-III((Java)	0	0	4	2	40	60
P	8	DSCC	BCA23202P	Laboratory-III (DBMS)	0	0	2	1	40	60
				Total	17	1	6	20	320	480

Semester IV

Theory/	Sl.	Course	Course Code	Course Name	Hours	per	week	Credit	Mark	
Practical	No	Type			L	T	P	С	CA	FA
T	1	DSCC	BCA23205T	Artificial Intelligence	3	0	0	3	40	60
T	2	DSCC	BCA23206T	Computer Architecture	3	1	0	4	40	60
Т	3	DSE	BCA2320XT	Elective-I	3	1	0	4	40	60
T	4	DSCC	BCA23209T	Mathematics	3	0	0	3	40	60
T	5	DSCC	BCA23210T	Mobile Application Development	3	0	0	3	40	60
P	6	DSCC	BCA23205P	Laboratory-IV(OS Lab)	0	0	4	2	40	60
Р	7	DSCC	BCA23207P / BCA23208P	Laboratory-IV (Advanced Web Technology) / Laboratory-IV (Machine Learning)	0	0	2	1	40	60
	Total			15	3	4	20	280	420	

ELECTIVE-I COURSES

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name
T	3	DSE	BCA23207T	Advanced Web Technology
T	3	DSE	BCA23208T	Machine Learning

Exit option with DIPLOMA in Computer Applications after successfully undertaking Vocational Training of 8 weeks (4 credits).

CHOWDHUT LINUERS

GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati - 781017, Assam

Semester V

Theory/	Sl.	Course	Course Code	Course Name	Hour	s per	week	Credit	M	[ark
Practical	No	Type			L	T	P	С	CA	FA
Т	1	DSCC	BCA23301T	Computer Network	3	1	0	4	40	60
T	2	DSCC	BCA23302T	Design and analysis of Algorithms	3	1	0	4	40	60
T	3	DSE	BCA2330XT	Elective-II	3	1	0	4	40	60
T	4	AECC		AECC-IV	3	0	0	3	40	60
P	5	VAC		VAC-III	0	0	6	3	40	60
P	6	DSCC	BCA23301P	Minor Project	0	0	4	2	40	60
Р	7	DSCC	BCA23303P / BCA23304P	Laboratory-V (Web security) /Laboratory-V (Deep Learning)	0	0	4	2	40	60
				Total	15	3	10	20	280	420

ELECTIVE-II COURSES

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name
T	3	DSE	BCA23303T	Cyber Security
T	3	DSE	BCA23304T	Deep Learning

Semester VI

	<u> </u>									
Theory/	Sl.	Course	Course Code	Course Name	Hours	per v	veek	Credit	Ma	ark
Practical	No	Type			L	T	P	С	CA	FA
T	1	DSCC	BCA23306T	Cloud Computing	3	1	0	4	40	60
T	2	DSCC	BCA23307T/	Elective-III	3	1	0	4	40	60
			BCA23308T							
T	3	DSE	BCA23309T	Elective-IV	3	1	0	4	40	60
			BCA23310T							
P	4	DSCC	BCA23307P /	Laboratory-VI (Web optimisation)	0	0	4	2	40	60
			BCA23308P	Laboratory -VI(Data mining)						
P	5	DSCC	BCA23311R	System Dev Project	0	0	0	6	40	60
	Total					3	4	20	200	300

ELECTIVE-III COURSES

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name
T	3	DSE	BCA23307T	Web Performance optimisation
T	3	DSE	BCA23308T	Data Mining

ELECTIVE-IV COURSES

Theory/	Sl.	Course Type	Course Code	Course Name		
Practical	No					
T	3	DSE	BCA23309T	Cyber Crime and Laws and malware		
				Analysis		
T	3	DSE	BCA23310T	Natural Language Processing		