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GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati781017, Assam

School of Engineering & Technology

Department of Computer Application

M.Sc. - Computer Science

With Specialization in Cyber Security

Semester I, II, III & IV AY 2023-2025

Semester I

Theory/ Practical	Sl. Course Type Course Course Name		Hours per week			Credit	Mark			
Fractical	110		Code		L	Т	P	C	CA	FA
T				Computational Techniques using Python	3	0	0	3	40	60
Т	2.	DSCC		Advanced Data Structures & Algorithms	3	0	0	3	40	60
T	3.	OEC		Introduction to Cyber Security	3	1	0	4	40	60
Т	4.	DSCC		Mathematical and Statistical Foundations	3	0	0	3	40	60
Т	1 Cromanty and Soft Skin		Personality and Soft Skill development	3	0	0	3	40	60	
P				0	0	4	2	50	50	
P	7	DSCC		Web Technology Lab	0	0	4	2	50	50
				Total	15	1	8	20	300	400

Semester II

3. J.		Course	Course Name	rse Name Hours per wee		week	Credit	Mark		
Practical	No		Code		L	T	P	С	CA	FA
T	1.	DSCC		Computer Organization and architecture		0	0	3	40	60
P	2.	DSCC		Advanced Database management system		0	0	3	40	60
T	3.	DSCC	Software Engineering		3	0	0	3	40	60
T	4.	OEC		Cloud Computing/ Malware analysis and detection	3	1	0	4	40	60
T	5.	DSCC		Machine Learning	3	0	0	3	40	60
P	6.	DSCC	Machine Learning Lab		0	0	4	2	50	50
T/P	7.	DSCC		Advanced DBMS Lab (SQL/ NoSQL)	0	0	4	2	50	50
				Total	15	1	8	20	300	400

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Semester III

Theory/ Practical	Sl. No			Course Name	Hours per week			Credit	Mark	
Practical	No		Code		L	T	P	С	CA	FA
T	T 1. DSCC Deep Learning		Deep Learning	3	0	0	3	40	60	
P	P 2. DSCC Operating Systems		Operating Systems	3	0	0	3	40	60	
T 3. DSCC			Cyber forensic, audit and investigation	3	1	0	4	40	60	
T 4. OEC			Advanced Web Technology	3	0	0	3	40	60	
T 5. DSCC Deep learning Lal		Deep learning Lab	0	0	4	2	50	50		
P 6. DSCC Minor		Minor Project	0	0	8	4	50	50		
T/P	7.	DSCC		Seminar paper	0	0	2	1	00	100
	1 1			Total	12	1	14	20	260	440

Semester IV

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name	Hours per week		Credit	Mark		
Fractical	110		Code		L	T	P	С	CA	FA
T	1.	VAC		Universal Human Values		1	0	3	00	100
P	2.	IC		Elective-I (As per Table)(As per SWAYAM)	3	0	0	3	00	100
Т	3.	DSCC		Elective-II(As per Table)(As per SWAYAM)	3	0	0	3	00	100
Т	T 4. AEC=7 System Development Project SEC =7		ı	1	22	11	200	200		
				Total	8	0		20	200	500

OPEN ELECTIVE COURSES (SPECIALIZATION)

(MOOCS: SWAYAM COURSES)

CODE	Elective-I	CODE	Elective-II
	Quantum Computing		Internet of Things
	Molecular Computing		Computer network and Internet security
	Nano Technology		Wireless Networks
	Robotics		Android Mobile Application Dev
	Remote Sensing & GIS		Database and content organization

(or any other Course added time to time)

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Abbreviations Used:

DSCC : Discipline Specific Core Courses

AEC: Ability Enhancement Compulsory Course

VAC : Value Addition Courses OEC : Open Elective Courses

SEC : Skill Enhancement Courses
CE : Continuous Evaluation
ESE : End Semester Examination
L/T/P: Lecture / Tutorial / Practical