CHOWDHUST LINE

GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati 781017, Assam

School of Engineering & Technology

Department of Computer Application

M.Sc. - Computer Science

With Specialization in Data Science

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

Semester I

Theory/ Practical	Sl.	Course Type	Course Code	Course Name	Hours per week		week	Credit N		Mark	
Fractical	110		Code		L	Т	P	C	CA	FA	
T	1.	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 Data Science	3	1	0	4	40	60	
Т	4.	DSCC		Mathematical and Statistical Foundations	3	0	0	3	40	60	
T	1 cromanty and soft skin		Personality and Soft Skill development	3	0	0	3	40	60		
P	P 6. DSCC Advanced Data Structures & Algorithms LAB		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

Theory/	Sl. No	Course Type	Course	Course Name	Hours per week		Credit	Mark		
Practical	No		Code		L	T	P	С	CA	FA
T	1.	DSCC		Computer Organization and architecture	3	0	0	3	40	60
Р	2.	DSCC		Advanced Database management system	3	0	0	3	40	60
Т	3.	DSCC		Software Engineering	3	0	0	3	40	60
T	4.	OEC		Data warehousing and Data mining	3	1	0	4	40	60
Т	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

ON THE PROPERTY OF THE PROPERT

GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati 781017, Assam

Semester III

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name	Hours per week		Credit	I	Mark	
Practical	NO		Code		L	T	P	С	CA	FA
Т	T 1. DSCC Deep Learning		3	0	0	3	40	60		
P	2.	DSCC		Operating Systems	3	0	0	3	40	60
Т	3.	DSCC		Big Data Analytics / Social Network Analytics	3	1	0	4	40	60
Т	4.	OEC		Advanced Web Technology	3	0	0	3	40	60
T	5.	DSCC		Deep learning Lab	0	0	4	2	50	50
Р	6.	DSCC		Minor Project	0	0	8	4	50	50
T/P	7.	DSCC		Seminar paper	0	0	2	1	00	100
	Total 12 1 14 20 260 440							440		

Semester IV

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name	Hours per week Credit Ma		Mark			
Practical	NO		Code		L	T	P	С	CA	FA
Т	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
T	T 3. DSCC Elective-II(As per Table)(As per SWAYAM)		3	0	0	3	00	100		
T 4. AEC=7 System Development Project SEC =7		ı	1	22	11	200	200			
				Total	8	1	22	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



GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati 781017, Assam

Remote Sensing & GIS	Database and content organization

(or any other Course added time to time)

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