



**School of Engineering & Technology**  
**Department of Computer Science and Engineering**  
**M.Sc. – Computer Science**  
**With Specialisation in Artificial Intelligence**

Semester I, II , III & IV

AY 2023-2025

**Semester I**

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
					L	T	P		C	CA
T	1.	DSCC		Computational Techniques using Python	3	0	0	3	40	60
T	2.	DSCC		Advanced Data Structures & Algorithms	3	0	0	3	40	60
T	3.	OEC		Artificial Intelligence	3	1	0	4	40	60
T	4.	DSCC		Mathematical and Statistical Foundations	3	0	0	3	40	60
T	5.	AEC		Personality and Soft Skill development	3	0	0	3	50	50
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
<b>Total</b>					<b>15</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>310</b>	<b>390</b>

**Semester II**

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
					L	T	P		C	CA
T	1.	DSCC		Computer Organization and architecture	3	0	0	3	40	60
P	2.	DSCC		Advanced Database management system	3	0	0	3	40	60
T	3.	DSCC		Software Engineering	3	0	0	3	40	60
T	4.	OEC		Image Processing/ Speech / Natural Language Processing	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
<b>Total</b>					<b>15</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>300</b>	<b>400</b>



### Semester III

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

### Semester IV

Theory/ Practical	Sl. No	Course Type	Course Code	Course Name	Hours per week			Credit	Mark	
					L	T	P		C	CA
T	1.	VAC		Universal Human Values	2	1	0	3	00	100
P	2.	IC		Elective-IV ( As per Table)(As per SWAYAM)	3	0	0	3	00	100
T	3.	DSCC		Elective-V ( As per Table)(As per SWAYAM)	3	0	0	3	00	100
T	4.	AEC=7 SEC =7		System Development Project	-	-	22	11	200	200
<b>Total</b>					<b>8</b>	<b>1</b>	<b>22</b>	<b>20</b>	<b>200</b>	<b>500</b>

### 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



# GIRIJANANDA CHOWDHURY UNIVERSITY

Hathkhowapara, Azara, Guwahati781017,Assam

	Robotics		Android Mobile Application Dev
	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