



IIT Guwahati BSc (Hons.) in Data Science and Artificial Intelligence | Curriculum and Tuition

First Year – Trimester I					
Course Title	L	T	P	C	Course Fee
DA 101 Basic English	3	0	0	6	₹6,000
DA 102 Data Analysis Basics	2	0	4	8	₹8,000
DA 103 Introduction to Statistics	3	0	0	6	₹6,000
DA 104 C Programming	2	0	4	8	₹8,000
	10	0	8	28	₹28,000

First Year – Trimester II					
Course Title	L	T	P	C	Course Fee
DA 105 Linear Algebra	3	0	0	6	₹6,000
DA 106 Data Science: An Introduction	3	0	0	6	₹6,000
DA 107 Computer System Tools	1	0	4	6	₹6,000
DA 108 Python Programming	2	0	4	8	₹8,000
	9	0	8	26	₹26,000

First Year – Trimester III					
Course Title	L	T	P	C	Course Fee
DA 109 AI Basics	3	0	0	6	₹6,000
DA 110 Data Structures	3	0	0	6	₹6,000
DA 111 Algorithm Design & Analysis	3	0	0	6	₹6,000
DA 112 Introduction to R	2	0	4	8	₹8,000
	11	0	4	26	₹26,000

Second Year – Trimester I					
Course Title	L	T	P	C	Course Fee
DA 201 Relational Database Management Systems	3	0	3	9	₹9,000
DA 202 Java Programming	2	0	4	8	₹8,000
DA 203 Optimization	3	0	0	6	₹6,000
DA 204 Basic Econometrics	3	0	0	6	₹6,000
	11	0	7	29	₹29,000

Second Year – Trimester II					
Course Title	L	T	P	C	Course Fee
DA 205 Data Mining & Warehousing	3	0	0	6	₹6,000
DA 206 Statistical Inferencing	3	0	0	6	₹6,000
DA 207 Signal and Systems	3	0	0	6	₹6,000
DA 208 Social Media Tools and Techniques	3	0	2	8	₹8,000
	12	0	2	26	₹26,000

Second Year – Trimester III					
Course Title	L	T	P	C	Course Fee
DA 209 Data Modeling & Visualization	3	0	0	6	₹6,000
DA 210 Time Series Analysis & Forecasting	3	0	0	6	₹6,000
DA 261 Machine Learning Fundamentals	3	0	0	6	₹6,000
DA 262 Recommender Systems	3	0	0	6	₹6,000
	12	0	0	24	₹24,000

Third Year – Trimester I					
Course Title	L	T	P	C	Course Fee
DA 301 Cloud Computing	3	0	0	6	₹6,000
DA 302 Deep Learning Essentials	3	0	0	6	₹6,000
DA 3xx Elective 1	3	0	0	6	₹6,000
DA 377 Internship-I/ Term-Project-I	0	0	6	6	₹6,000
	9	0	6	24	₹24,000

Third Year – Trimester II					
Course Title	L	T	P	C	Course Fee
DA 303 Ethics in AI	3	0	0	6	₹6,000
DA 3xx Elective 2	3	0	0	6	₹6,000
DA 3xx Elective 3	3	0	0	6	₹6,000
DA 378 Internship-II/ Term-Project-II	0	0	6	6	₹6,000
	9	0	6	24	₹24,000

Third Year – Trimester III					
Course Title	L	T	P	C	Course Fee
DA 304 Soft Skill Enhancement	2	0	0	4	₹4,000
DA 3xx Elective 4	3	0	0	6	₹6,000
DA 3xx Elective5	3	0	0	6	₹6,000
DA 379 Internship-III/ Term-Project-III	0	0	6	6	₹6,000
	8	0	6	22	₹22,000

Fourth Year – Trimester I					
Course Title	L	T	P	C	Course Fee
DA 401 Big Data Analytics	3	0	0	6	₹6,000
DA 3xx Elective 6	3	0	0	6	₹6,000
DA 487 Capstone Project - Phase I	0	0	12	12	₹12,000
	6	0	12	24	₹24,000

Fourth Year – Trimester II					
Course Title	L	T	P	C	Course Fee
DA 405 Basics of Reinforcement Learning	3	0	0	6	₹6,000
DA 4xx Elective 7	3	0	0	6	₹6,000
DA 488 Capstone Project - Phase II	0	0	12	12	₹12,000
	6	0	12	24	₹24,000

Fourth Year – Trimester III					
Course Title	L	T	P	C	Course Fee
DA 406 Entrepreneurship and Startup	2	0	0	4	₹4,000
DA 4xx Elective 8	3	0	0	6	₹6,000
DA 489 Capstone Project - Phase III	0	0	12	12	₹12,000
	5	0	12	22	₹22,000

Legends
L - Lectures
T - Tutorials
P - Practicals
C - Credits