



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

B.Tech Course Structure (R23 Regulation)

I B.Tech (I Sem)

Branch/Specialization: AI&DS

S.No	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS101	Matrices and Calculus,	3	1	0	4
2	HS103	Applied Physics	3	1	0	4
3	ES106	Programming for Problem Solving*	2	0	4	4
4	ES108	Computer Aided Engineering Graphics	1	0	4	3
5	HS104	Applied Physics lab	0	0	3	1.5
6	ES113	Engineering Workshop Practice	1	0	3	1.5
7	ES115	IT Workshop	0	0	2	1
8	MC101	Environmental Science	1	0	0	0
Total			12	2	14	19

L: Lecture Hour

T: Tutorial Hour

P: Lab/Practice Hour

***Integrated Course (Theory & Lab)**

I B.Tch (II Sem)

Branch/Specialization: AI&DS

S.No	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS102	Multivariable and Vector Calculus	3	1	0	4
2	HS105	Engineering Chemistry	3	1	0	4
3	HS107	English for Skill Enhancement	2	0	0	2
4	ES101	Basic Electrical Engineering	2	0	0	2
5	ES103	Electronic Devices and Circuits	2	0	0	2
6	ES107	Python Programming *	2	0	2	3
7	HS106	Engineering Chemistry Lab	0	0	2	1
8	HS108	English Language and Communication Skills Lab	0	0	2	1
9	ES105	Electrical and Electronics Engg. Lab	0	0	2	1
10	MC102	Morals and Ethics	1	0	0	0
Total			15	2	8	20

L: Lecture Hour

T: Tutorial Hour

P: Lab/Practice Hour

***Integrated Course (Theory & Lab)**

II B.Tech (I Sem)**Branch/Specialization: AI&DS**

S.No	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS204	Mathematical and Statistical Foundations	3	1	0	4
2	CS203	Object Oriented Programming Through Java	3	0	0	3
3	CS217	Data Structures & Algorithms	3	0	0	3
4	EC216	Digital Electronics	3	0	0	3
5	CS301	Software Engineering	3	0	0	3
6	CS218	Data Structures & Algorithms Lab	0	0	2	1
7	CS204	Java Programming Lab	0	0	2	1
8	CS207	Data Visualization Techniques using R / Power BI Lab	0	0	4	2
9	HS206	Verbal Communication and Soft Skills Lab	0	0	2	1
10	MC201	Constitution of India	1	0	0	0
Total			15	1	10	21

L: Lecture Hour**T: Tutorial Hour****P: Lab/Practice Hour****II B.Tech (II Sem)****Branch/Specialization: AI&DS**

S.No	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	CS219	Introduction to Artificial Intelligence and Data Science	3	0	0	3
2	CS205	Discrete Mathematics	3	0	0	3
3	CS220	Computer Organization & Operating Systems	3	0	0	3
4	CS221	Machine Learning and Applications	3	0	0	3
5	CS210	Database Management Systems	3	0	0	3
6	CS211	Data base management systems lab	0	0	2	1
7	CS222	Real Time / Field Based Research Project	0	0	4	2
8	CS223	Machine Learning and Applications Lab	0	0	2	1
9	CS213	Skill Development Course Node JS/ React JS/ Django	0	0	2	1
10	MC202	Gender Sensitization Lab	0	0	2	0
Total			15	0	12	20

L: Lecture Hour**T: Tutorial Hour****P: Lab/Practice Hour**