

SETHU INSTITUTE OF TECHNOLOGY
PULLOOR, KARIAPATTI
(AN AUTONOMOUS INSTITUTION)



REGULATION–2021 (Revised)

B.TECH-Artificial Intelligence and Data Science

BATCH: 2023-2027

CURRICULUM

**Chairperson
Board of Studies**

**Chairman
Academic Council**



B.TECH-Artificial Intelligence and Data Science

OVERALL COURSE STRUCTURE

Code	Category	Total No. of Courses	Credits	Percentage
BS	Basic Sciences	5	9	6
ES	Engineering Sciences	10	29	18
HSS	Humanities and Social Sciences	7	15.5	10
PC	Professional Core (Including Lab Courses)	25	63.5	39
PE	Professional Elective	6	18	11
OE	Open Elective	4	12	7
PW	Project Work, Seminar & Internship	3	13	8
MC	Mandatory Courses	10	2	1
TOTAL		70	162	100

SEMESTER-WISE COURSE STRUCTURE–NUMBER OF COURSES

Semester	HS	BS	ES	PC	PE	OE	P	MC	TOTAL
I	1	3	4					2	10
II	1	3	3					2	09
III	-	1	-	7	-	-	-	1	09
IV	-	1	-	7	-	-	-	1	09
V	1	2	-	3	1	1	1	-	09
VI	1	-	-	4	2	1	1	1	10
VII	1	-	-	4	2	1	-	2	10
VIII	-	-	-	-	1	1	1	1	4
TOTAL	5	10	7	25	6	4	3	10	70

SEMESTER-WISE COURSE STRUCTURE–CREDITS

Semester	HS	BS	ES	PC	PE	OE	P	MC	TOTAL
I	2	8	8	-	-	-	-	1	19
II	1.5	8	7.5	-	-	-	-	1	18
III	-	4	-	18	-	-	-	-	22
IV	-	4	-	17	-	-	-	-	21
V	1	5	-	10	3	3	1	-	23
VI	1.5	-	-	10.5	6	3	4	-	25
VII	3	-	-	8	6	3	-	-	20
VIII	-	-	-	-	3	3	8	-	14
TOTAL	9	29	15.5	63.5	18	12	13	2	162

Semester I

Semester II

Semester III

Course Code	Course Title	L	T	P	C	Type of Course
THEORY						
R21UMA328	Discrete Mathematics (Common to AI& DS,CSD)	3	1	0	4	BS
R21UIT302	Data Structures (Common to CSE,IT,AIDS&CSD)	3	0	0	3	PC
R21UAD303	Object Oriented Programming using Python (Integrated Course)	3	0	2	4	PC
R21UIT304	Principles of Operating Systems (Common to CSE ,IT,AIDS&CSD)	3	0	0	3	PC
R21UCS305	Computer Organization(Common to CSE ,IT,CSBS &AIDS)	3	0	0	3	PC
R21UCD306	Database system Design (Common to CSE,IT, AIDS& CSD)	3	0	0	3	PC
PRACTICAL						
R21UIT307	Data Structures Laboratory(Common to CSE,IT, AIDS&CSD)	0	0	2	1	PC
R21UCD308	Database system Design Laboratory(Common to CSE,IT, AIDS & CSD)	0	0	2	1	PC
MANDATORY						
R21UGM231	Environmental Science (Common to All Branches)	3	0	0	P/F	MC
	TOTAL	20	1	6	22	

Semester IV

Semester V

Semester VI

Course Code	Course Title	L	T	P	C	Type of Course
THEORY						
R21UAD601	Intelligent Computer Vision	3	0	0	3	PC
R21UAD602	Deep Learning	3	0	0	3	PC
R21UAD603	Thinking in Java	2	0	2	3	PC
PE-II	Professional Elective-II	3	0	0	3	PE
PE-III	Professional Elective-III	3	0	0	3	PE
OE-II	OpenElective-II	3	0	0	3	OE
PRACTICAL						
R21UAD606	Deep Learning Laboratory	0	0	3	1.5	PC
R21UAD607	Product Development Project	0	0	8	4	PW
R21UGS633	Interpersonal Skills Development Lab (Common to CSE,EEE,IT,AGRI,CSBS, AIDS)	0	0	3	1.5	HSS
MANDATORY						
R21UGM631	Indian Constitution (Common to all)	1	0	0	P/F	MC
	TOTAL	18	0	16	25	
	Total No of Credits - 25					

Semester VII

Semester VIII