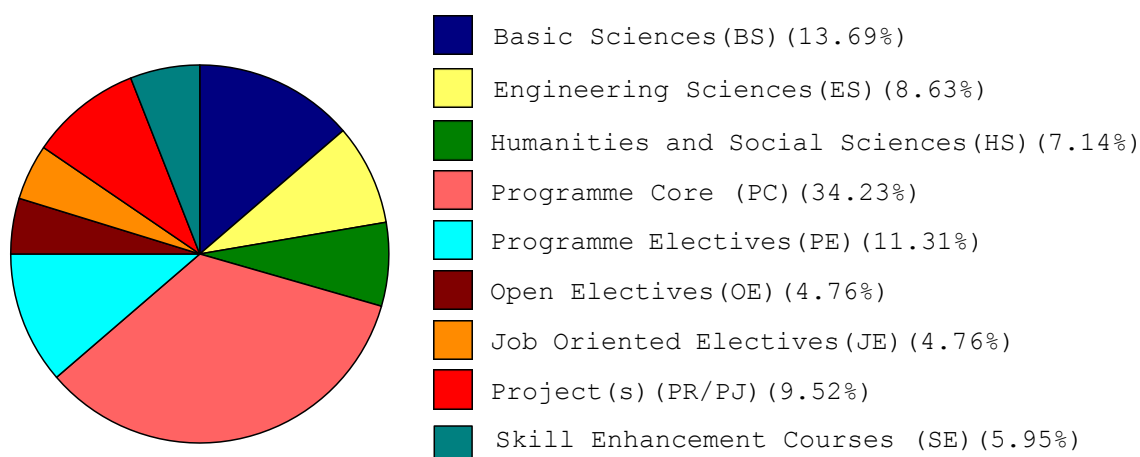


R.V.R & J.C.COLLEGE OF ENGINEERING (Autonomous)
DEPARTMENT OF ARTIFICIAL INTELLIGENCE
B.TECH. ARTIFICIAL INTELLIGENCE
(w.e.f. the batch of students admitted from the academic year 2024-2025)

Programme curriculum (R24) grouping based on course components

Course Component	Curriculum Content (% of total number of credits in programme)	Total number of contact hours	Total number of credits
Basic Sciences (BS)	14.37	25	23
Engineering Sciences (ES)	9.06	18	14.5
Humanities and / Social Sciences (HS)	7.5	16	12
Professional Core (PC)	35.94	70	57.5
Professional Elective(s) (PE)	11.88	19	19
Open Elective(s) (OE)	5	6	8
Job Oriented Elective(s) (JE)	0		0
Project(s) (PR/PJ)	10	26	16
Skill Enhancement Course(s) (SEC)	6.25	17	10
Mandatory Course(s) (MC)	--	6	--
Total number of Credits			160



R.V.R & J.C.COLLEGE OF ENGINEERING (Autonomous)
B.TECH. ARTIFICIAL INTELLIGENCE

Course Structure, Scheme of Instruction (R24) and Examination

(w.e.f. the batch of students admitted from the academic year 2024-2025)

Three Weeks Orientation Programme is Mandatory before starting Semester I [First Year]

Semester I [First Year]

COURSE STRUCTURE

SNo.	Course Details		Scheme of Instruction			Scheme of Examination			Category Code
	Code No.	Subject Name	Periods per week			Maximum Marks		Credits	
			L	T	P	SES	EXT		
1	AI111	Linear Algebra, Calculus and Differential Equations	3	-	-	30	70	3.0	BS
2	AI112	Chemistry for Engineers	3	-	-	30	70	3.0	BS
3	AI113	Basic Electrical and Electronics Engineering	3	-	-	30	70	3.0	ES
4	AI114	Programming for Problem Solving	4	-	-	30	70	4.0	ES
5	AI151	Chemistry Lab	-	-	2	30	70	1.0	BS
6	AI152	Basic Electrical and Electronics Engineering Lab	-	-	2	30	70	1.0	ES
7	AI153	Programming for Problem Solving Lab	-	-	3	30	70	1.5	ES
8	AI154	Engineering Graphics	1	-	2	30	70	2.0	ES
9	AI155	Health and Wellness, Yoga and Sports	-	-	1	30	70	0.5	HS
TOTAL			14	0	10	270	630	19	TPW-24

Semester II [First Year]

COURSE STRUCTURE

SNo.	Course Details		Scheme of Instruction			Scheme of Examination			Category Code
	Code No.	Subject Name	Periods per week			Maximum Marks		Credits	
			L	T	P	SES	EXT		
1	AI121	Integral Calculus and Transforms	3	-	-	30	70	3.0	BS
2	AI122	Applied Physics	3	-	-	30	70	3.0	BS
3	AI123	Communicative English	2	-	-	30	70	2.0	HS
4	AI124	Digital Logic Design	3	-	-	30	70	3.0	ES
5	AI125	Python Programming	2	-	-	30	70	2.0	PC
6	AI126	Data Structures and Algorithms	3	-	-	30	70	3.0	PC
7	AI161	Applied Physics Lab	-	-	2	30	70	1.0	BS
8	AI162	Communicative English Lab	-	-	2	30	70	1.0	HS
9	AI163	Python Programming Lab	-	-	2	30	70	1.0	PC
10	AI164	Data Structures and Algorithms Lab	-	-	3	30	70	1.5	PC
11	AI165	NSS / NCC / Community Service	-	-	1	30	70	0.5	HS
TOTAL			16	0	10	330	770	21	TPW-26