



RKDF UNIVERSITY, BHOPAL

New Scheme of Examination as per AICTE Flexible Curricula

W.E.F. JULY 2025

Subject wise distribution of marks

B.Tech. III Semester (Artificial Intelligence and Data Science)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hrs per week			
				Theory		Practical		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min					
1	DS-3011	BSC-5	Mathematical Foundation of Artificial Intelligence	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
2	DS-3021	PCC-1	Data Structure and Algorithms	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
3	DS-3031	PCC-2	Computer Organization & Architecture	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	DS-3041	PCC-3	Digital Circuit and System	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
5	DS-3051	HSMC-3	Value Education	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	DS-3061	LC-1	Software Lab-I (C/C++)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-2071	IN-2	Evaluation of Internship completed at I year level	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
			Total	350	-	100	-	50	-	150	-	50	-	50	-	750	19	1	10	30

1 hour lecture = 1 Credit, 1 hour tutorials = 1 Credit, 1 hour practical = 1 Credit



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B.Tech. IV Semester (Artificial Intelligence and Data Science)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hrs per week			
				Theory		Practical		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min					
1	DS-4011	ESC-7	Environmental Engineering	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
2	DS-4021	PCC-4	Database Management System	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
3	DS-4031	PCC-5	Artificial Intelligence	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
4	DS-4041	PCC-6	Design and Analysis of Algorithm	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
5	DS-4051	PCC-7	Computer Networks	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	DS-4061	LC-2	Software Lab-II (Data Analysis using Excel)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-4071	IN-3	Internship-2 (90 Hrs Duration) at the Institute level	TO BE COMPLETED DURING IV SEMESTER, ITS EVALUATION / CREDIT WILL BE ADDED IN V SEMESTER																
			Total	350	-	100	-	50	-	150	-	50	-	50	-	750	20	-	10	30

1 hour lecture = 1 Credit, 1 hour tutorials = 1 Credit, 1 hour practical = 1 Credit



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B.Tech. V Semester (Artificial Intelligence and Data Science)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hrs per week			
				Theory		Practical		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min					
1	DS-5011	PCC-8	Operating Systems	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	DS-5021	PCC-9	Object Oriented Programming	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	DS-5031	PEC-1	Departmental Elective -1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	DS-5041	OEC-1	Open Elective -1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	DS-5051	LC-3	Lab (Linux)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	DS-4061	LC-4	Lab (Python)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-4071	IN-3	Evaluation of Internship- II	-	-	-	-	-	-	-	-	100	50	-	-	100	-	-	4	4
8	DS-5071	PROJ-1	Minor Project- I	-	-	-	-	-	-	-	-	50	25	-	-	50	-	-	2	2
			Total	280	-	80	-	40	-	120	-	190	-	40		750	15	1	14	30

1 hour lecture = 1 Credit, 1 hour tutorials = 1 Credit, 1 hour practical = 1 Credit

Departmental Elective	Open Elective
DS-5031 (A) Discrete Structures	DS-5041 (A) Theory of Computation
DS-5031 (B) Microprocessor & Interfacing	DS-5041 (B) E-Commerce and Governance
DS-5031 (C) Numerical Method and Statistics	DS-5041 (C) Java Programming
DS-5031 (D) Code as per SWAYAM/NPTEL –MOOC	DS-5041 (D) Code as per SWAYAM/NPTEL –MOOC



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B.Tech. VI Semester (Artificial Intelligence and Data Science)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hrs per week			
				Theory		Practical		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min					
1	DS-6011	PCC-10	Machine Learning	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	DS-6021	PCC-11	Compiler Design	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	DS-6031	PEC-2	Departmental Elective -2	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	DS-6041	OEC-2	Open Elective -2	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	DS-6051	LC-5	Lab (Data Analytics)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	DS-6061	LC-6	Lab (R Programming)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-6071	IN-4	Internship- III	TO BE COMPLETED ANYTIME DURING FIFTH/SIXTH SEMESTER. ITS EVALUATION/CREDITS WILL BE ADDED IN SEVENTH SEMESTER																
8	DS-6081	PROJ-2	Minor Project- II	-	-	-	-	-	-	-	-	50	25	-	-	50	-	-	2	2
			Total	280	-	80	-	40	-	120	-	190	-	40		650	15	1	10	26

1 hour lecture = 1 Credit, 1 hour tutorials = 1 Credit, 1 hour practical = 1 Credit

Departmental Electives	Open Electives
DS-6031 (A) Computer Graphics and Multimedia	DS-6041 (A) Spatial Data Analysis
DS-6031 (B) Deep Learning	DS-6041 (B) Internet of Things
DS-6031 (C) Embedded System	DS-6041 (C) Cloud Computing
DS-6031 (D) Code as per SWAYAM/NPTEL -MOOC	DS-6041 (D) Code as per SWAYAM/NPTEL -MOOC



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Subject wise distribution of marks

B.Tech. VII Semester (Artificial Intelligence and Data Science)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hrs per week			
				Theory		Practical		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min					
1	DS-7011	PCC-12	Nature Inspired Computing	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	DS-7021	PEC-3	Departmental Elective- III	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	DS-7031	OEC-3	Open Elective- III	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	DS-7041	LC-7	Lab (Data Science)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
5	DS-7051	LC-8	Lab (Case Tools)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	DS-7061	PROJ-3	Major Project- I	-	-	-	-	-	-	80	40	10	5	10	5	100	-	-	4	4
8	DS-6071	IN-4	Evaluation of Internship-III	-	-	-	-	-	-	-	-	50	25	-	-	50	-	-	4	4
			Total	210	-	60	-	30	-	170	-	90	-	90		650	10	2	14	26

1 hour lecture = 1 Credit, 1 hour tutorials = 1 Credit, 1 hour practical = 1 Credit

Departmental Electives	Open Electives
DS-7021(A) Data Science	DS-7031(A) Generative AI and Large Language Model
DS-7021(B) Business Data Analysis	DS-7031(B) Digital Image Processing
DS-7021(C) Social Network Analysis	DS-7031(C) Component Based Technology
DS-7021(D) Code as per SWAYAM/NPTEL -MOOC	DS-7031(D) Code as per SWAYAM/NPTEL -MOOC



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B.Tech. VIII Semester (Artificial Intelligence and Data Science)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hrs per week			
				Theory		Practical		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min					
1	DS-8011	PCC-13	Statistical Data Analysis	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	DS-8021	PEC-4	Departmental Elective- IV	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	DS-8031	OEC-4	Open Elective- IV	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	DS-8041	LC-9	Departmental Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
5	DS-8051	PROJ-4	Major Project- II	-	-	-	-	-	-	120	60	40	20	40	20	200	-	-	8	8
			Total	210	-	60	-	30	-	180	-	60	-	60		600	10	2	12	24

1 hour lecture = 1 Credit, 1 hour tutorials = 1 Credit, 1 hour practical = 1 Credit

Departmental Electives	Open Electives
DS-8021(A) Engineering Economics and Management	DS-8031(A) Natural Language Processing
DS-8021(B) Big Data	DS-8031(B) Game Theory with Engineering Applications
DS-8021(C) Robotics	DS-8031(C) Block Chain Technology
DS-8021(D) Code as per SWAYAM/NPTEL -MOOC	DS-8031(D) Code as per SWAYAM/NPTEL -MOOC