



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 (Computer Science and Engineering – Internet of Things and Cyber Security Including Blockchain Technology)

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	IoT-3011	BSC-5	Mathematical Foundation of Information Security	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
2	IoT-3021	PCC-1	Data Structure and Algorithms	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
3	IoT-3031	PCC-2	Computer Organization & Architecture	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	IoT-3041	PCC-3	Digital Circuit and System	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
5	IoT-3051	HSMC-3	Value Education	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	IoT-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 (Computer Science and Engineering – Internet of Things and Cyber Security Including Blockchain Technology)

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	IoT-4011	ESC-7	Environmental Engineering	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
2	IoT-4021	PCC-4	Database Management System	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
3	IoT-4031	PCC-5	Artificial Intelligence	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
4	IoT-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	IoT-4051	PCC-7	Computer Networks	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	IoT-4061	LC-2	Software Lab-II (Wireshark)	-	-	-	-	-	-	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 (Computer Science and Engineering - Internet of Things and Cyber Security Including Blockchain Technology)

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	IoT-5011	PCC-8	Operating Systems	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	IoT-5021	PCC-9	Wireless Sensor Networks	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	IoT-5031	PEC-1	Departmental Elective -1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	IoT-5041	OEC-1	Open Elective -1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	IoT-5051	LC-3	Lab (Linux)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	IoT-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	IoT-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
IoT-5031 (A) Discrete Structures	IoT-5041 (A) Theory of Computation
IoT-5031 (B) Microprocessor & Interfacing	IoT-5041 (B) E Commerce and Governance
IoT-5031 (C) Numerical Method and Statistics	IoT-5041 (C) Java Programming
IoT-5031 (D) Code as per SWAYAM/NPTEL –MOOC	IoT-5041 (D) Code as per SWAYAM/NPTEL –MOOC



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B.Tech. VI Semester (Computer Science and Engineering – Internet of Things and Cyber Security Including Blockchain Technology)

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	IoT-6011	PCC-10	Machine Learning	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	IoT-6021	PCC-11	Compiler Design	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	IoT-6031	PEC-2	Departmental Elective -2	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	IoT-6041	OEC-2	Open Elective -2	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	IoT-6051	LC-5	Lab (Data Analytics)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	IoT-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	IoT-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
IoT-6031 (A) Cyber Security	IoT-6041 (A) Security in Edge Computing
IoT-6031 (B) Deep Learning	IoT-6041 (B) Internet of Things
IoT-6031 (C) Embedded System	IoT-6041 (C) Cloud Computing
IoT-6031 (D) Code as per SWAYAM/NPTEL -MOOC	IoT-6041 (D) Code as per SWAYAM/NPTEL -MOOC



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Subject wise distribution of marks

B.Tech. VII Semester (Computer Science and Engineering – Internet of Things and Cyber Security Including Blockchain Technology)

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	IoT-7011	PCC-12	Industrial IoT and Industry 4.0	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	IoT-7021	PEC-3	Departmental Elective- III	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	IoT-7031	OEC-3	Open Elective-III	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	IoT-7041	LC-7	Lab (Data Science)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
5	IoT-7051	LC-8	Lab (Case Tools)	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	IoT-7061	PROJ-3	Major Project- I	-	-	-	-	-	-	80	40	10	5	10	5	100	-	-	4	4
8	BE-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
IoT-7021(A) Cyber Physical System	IoT-7031(A) Cryptography Information Security
IoT-7021(B) Ethical Hacking and Penetration Testing	IoT-7031(B) Cyber Law
IoT-7021(C) Data Science	IoT-7031(C) Security and Privacy in IoT
IoT-7021(D) Code as per SWAYAM/NPTEL -MOOC	IoT-7031(D) Code as per SWAYAM/NPTEL -MOOC



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Subject wise distribution of marks

B.Tech. VIII Semester (Computer Science and Engineering – Internet of Things and Cyber Security Including Blockchain Technology)

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	IoT-8011	PCC-13	Digital Forensics	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	IoT-8021	PEC-4	Departmental Elective- IV	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	IoT-8031	OEC-4	Open Elective- IV	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	IoT-8041	LC-9	Departmental Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
5	IoT-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
IoT-8021(A) Smart City using IoT	IoT-8031(A) Cognitive IoT
IoT-8021(B) Blockchain Technologies	IoT-8031(B) Game Theory with Engineering Applications
IoT-8021(C) Robotics	IoT-8031(C) Bitcoin and Cryptocurrency Technology
IoT-8021(D) Code as per SWAYAM/NPTEL -MOOC	IoT-8031(D) Code as per SWAYAM/NPTEL -MOOC