

RVR & JC College of Engineering
Department of Computer Science & Engineering (IoT)
R24-Scheme

First Year: I semester

Sub Code	Course Title	Hours	Credits	Category
CO 111	Linear Algebra, Differential Equations and Calculus	3-0-0	3	BS
CO 112	Engineering Physics	3-0-0	3	BS
CO 113	Basic Electrical and Electronics Engineering	3-0-0	3	BS
CO 114	Programming for Problem Solving	4-0-0	4	ES
CO 151	Engineering Physics Lab	0-0-2	1	BS
CO 152	Basic Electrical and Electronics Engineering Lab	0-0-2	1	ES
CO 153	Programming for Problem Solving Lab	0-0-3	1.5	ES
CO 154	Engineering Graphics	1-0-2	2	ES
CO 155	NSS/NCC/Community service	0-0-1	0.5	BS
	TOTAL	13-0-12	19	

First Year: II semester

Sub Code	Course Title	Hours	Credits	Category
CO 121	Integral calculus and Transforms	3-0-0	3	BS
CO 122	Engineering Chemistry	2-0-0	2	BS
CO 123	Communicative English	2-0-0	2	HS
CO 124	Digital Logic Design	3-0-0	3	ES
CO 125	Python Programming	2-0-0	2	ES
CO 126	Data Structures	4-0-0	4	PC
CO 161	Engineering Chemistry Lab	0-0-2	1	BS
CO 162	Communicative English Lab	0-0-2	1	HS
CO 163	Python Programming Lab	0-0-2	1	ES
CO 164	Data Structures Lab	0-0-3	1.5	PC
CO 165	Health & Wellness, Yoga & Sports	0-0-1	0.5	BS
	Total	16-0-10	21	

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Second Year: III Semester

Sub Code	Subject Name	Hours	Credits	Category
CO 211	Probability, Statistics and Queuing Theory	3-0-0	3	BS
CO 212	Universal Human Values	2-0-0	2	HS
CO 213	Discrete Mathematics	3-0-0	3	PC
CO 214	Computer Organization	3-0-0	3	PC
CO 215	Object Oriented Programming	3-0-0	3	PC
CO 216	Design and Analysis of Algorithms	3-0-0	3	PC
CO 251	Object oriented Programming Lab	0-0-2	1.5	PC
CO 252	Design and Analysis of Algorithms Lab	0-0-2	1.5	PC
CO 253	Skill Enhancement Course-1	0-0-2	1	SE
CO MC1	Constitution of India	2-0-0	0	MC
	TOTAL	19-0-6	21	

Second Year: IV Semester

Sub Code	Subject Name	Hours	Credits	Category
CO 221	Computational Statistics	3-0-0	3	BS
CO 222	Artificial Intelligence	3-0-0	3	PC
CO 223	Operating Systems	3-0-0	3	PC
CO 224	Database Management Systems	3-0-0	3	PC
CO 225	Software Engineering	3-0-0	3	PC
CO 261	Artificial Intelligence Lab	0-0-3	1.5	PC
CO 262	Database Management Systems Lab	0-0-3	1.5	PC
CO 263	Design Thinking and Innovation	1-0-2	2	HS
CO 264	Skill Enhancement Course-2	0-0-2	1	SE
CO 265	Skill Enhancement Course-3	1-0-2	2	SE
CO MC2	Environmental Science	2-0-0	0	MC
	TOTAL	19-0-12	23	

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Third Year: V semester

Sub Code	Subject Name	Hours	Credits	Category
CO 311	Automata Theory and Formal Languages	3-0-0	3	PC
CO 312	Computer Networks	3-0-0	3	PC
CO 313	Professional Elective - I	3-0-0	3	PE
CO 314	Open Elective-I	3-0-0	3	OE
CO 315	Open Elective-II	3-0-0	3	OE
CO 351	Professional Elective-I lab	0-0-2	1	PE
CO 352	Tinkering lab	0-0-2	1	HS
CO 353	Skill Enhancement Course-4	0-0-2	1	SE
CO 354	Skill Enhancement Course-5	0-1-2	2	SE
CO 355	Summer Internship		1	PJ
CO MC3	Technical paper writing and IPR	0-0-2	0	MC
	TOTAL	15-0-10	21	

Third Year: VI semester

Sub Code	Subject Name	Hours	Credits	Category
CO 321	Data Analysis and Visualization	2-0-0	2	PC
CO 322	Program specific	3-0-0	3	PC
CO 323	Program specific	3-0-0	3	PC
CO 324	Professional Elective - II	3-0-0	3	PE
CO 325	Professional Elective - III	3-0-0	3	PE
CO 326	Open Elective-III	3-0-0	3	OE
CO 361	Data Analysis and Visualization lab	0-0-2	1	PC
CO 362	Machine Learning Lab/program specific lab	0-0-2	1	PC
CO 363	Skill Enhancement Course-6	0-0-2	1	SE
CO 364	SEC – VII (Dept Specific)	0-1-2	2	SE
CO 365	Term paper	0-0-2	1	PJ
	TOTAL	17-0-12	23	

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Fourth Year: VII semester

Sub Code	Subject Name	Hours	Credits	Category
CO 411	Humanities Elective	3-0-0	3	HS
CO 412	Cryptography and Network Security/ Program specific	3-0-0	3	PC
CO 413	Compiler Design/ Course Specialization	3-0-0	3	PC
CO 414	Professional Elective - IV	3-0-0	3	PE
CO 415	Professional Elective – V (MOOCS)	-	2	PE
CO 416	Open Elective - IV	3-0-0	3	OE
CO 451	Professional Elective-IV lab	0-0-2	1	PE
CO 452	Project – I	0-0-4	2	PJ
CO 453	Summer Internship		2	PJ
	TOTAL	15-0-6	22	

Fourth Year: VIII semester

Sub Code	Subject Name	Hours	Credits	Category
CO 461	Project - II	0-0-20	10	PJ

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Credits in Each Semester									
Cat. Code	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V	Sem-VI	Sem-VII	Sem-VIII	Cat. Totals
BS	7.5	7.5	3	3					21
ES	11.5	6							17.5
PC		4.5	15	15	6	11	6		57.5
PE					4	6	6		16
OE					6	3	3		12
HS		3	2	2	1		3		11
SE			1	3	3	3			10
PJ					1		4	10	15
Total	19	21	21	23	21	23	22	10	160

T/L	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V	Sem-VI	Sem-VII	Sem-VIII	Totals
Theory									
Lab									
Total	19	21	21	23	21	23	22	10	160