

DEPARTMENT OF CIVIL ENGINEERING

B.TECH II YEAR – I SEMESTER

S.No	SUBJECT NAME	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	C
1	Numerical Methods and Transformations	BS	30	70	100	2	1	0	3
2	Fluid Mechanics	PC	30	70	100	2	1	0	3
3	Building Materials and Building Construction	PC	30	70	100	3	0	0	3
4	Surveying and Geomatics	PC	30	70	100	2	1	0	3
5	Mechanics of Solids	PC	30	70	100	2	1	0	3
6	Engineering Surveying Laboratory	PC	15	35	50	0	0	3	1.5
7	Computer Aided Building Drafting Laboratory	PC	15	35	50	0	0	3	1.5
8	Mechanics of Solids Laboratory	PC	15	35	50	0	0	3	1.5
9	Building Planning and Drawing	SOC	15	35	50	0	0	4	2
10	Environmental Studies	MC	100		100	3	0	0	0
Total						21.5			




 PRINCIPAL
 NARASARAOPETA ENGINEERING COLLEGE
 (AUTONOMOUS)
 NARASARAOPET - 522 601
 Guntur (Dist.), A.P.



DEPARTMENT OF CIVIL ENGINEERING

B.TECH I YEAR – II SEMESTER

S.No	SUBJECT NAME	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	C
1	Differential Equations and Vector Calculus	BS	30	70	100	2	1	0	3
2	Engineering Physics	BS	30	70	100	3	0	0	3
3	Engineering Drawing	ES	30	70	100	1	0	4	3
4	Elements of Mechanical and Ele. and Engg.	ES	30	70	100	3	0	0	3
5	Elements of Building Science	ES	30	70	100	3	0	0	3
6	Elements of Mechanical and Ele. and Engg Lab	ES	15	35	50	0	0	3	1.5
7	Engineering Physics Lab	BS	15	35	50	0	0	3	1.5
8	Engineering Workshop	ES	15	35	50	0	0	3	1.5
9	Constitution of India(MC)	MC	15	35	50	2	0	0	0
	Total								19.5




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I B. Tech. – II SEMESTER

S. No.	Subject Code	Subject	Cat. Code	L	T	P	Internal Marks	External Marks	Total Marks	Credits
1	R20CC1201	Differential Equations and Vector Calculus	BSC	2	1	0	30	70	100	3
2	R20CC1205	Applied Physics	BSC	3	0	0	30	70	100	3
3	R20EE1209	Electronics Devices and Circuits	ESC	3	0	0	30	70	100	3
4	R20EE1213	Electrical Circuit Analysis-I	PCC	2	1	0	30	70	100	3
5	R20EE1217	Data Structures using C	ESC	3	0	0	30	70	100	3
6	R20CC12L10	Applied Physics Lab	BSC	0	0	3	15	35	50	1.5
7	R20CC12L9	Electronics Devices and Circuits Lab	ESC	0	0	3	15	35	50	1.5
8	R20CC12L11	Data Structures using C Lab	ESC	0	0	3	15	35	50	1.5
9	R20CCMC1	Constitution of India (MC)	MC	2	0	0	-	-	-	-
		Total		15	2	9	195	455	650	19.5




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I B.TECH – II SEMESTER

S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Differential Equations and Vector Calculus	R20CC1201	BS	30	70	100	2	1	0	3
2	Engineering Physics	R20CC1203	BS	30	70	100	3	0	0	3
3	Engineering Drawing	R20CC1207	ES	30	70	100	1	0	4	3
4	Elements of Electrical and Electronics Engg.	R20ME1214	ES	30	70	100	3	0	0	3
5	Material Science and Metallurgy	R20ME1218	ES	30	70	100	3	0	0	3
6	Elements of Electrical and Electronics Engg. Lab	R20CC12L7	ES	15	35	50	0	0	3	1.5
7	Engineering Physics Lab	R20CC12L5	BS	15	35	50	0	0	3	1.5
8	Engineering Workshop	R20CC12L4	ES	15	35	50	0	0	3	1.5
9	Constitution of India (MC)	R20CCMC2	MC	-	-	-	2	0	0	0
Total										19.5




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II B.TECH – I SEMESTER

S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Numerical Methods and Transformations	R20CC2101	BS	30	70	100	2	1	0	3
2	Fluid Mechanics and Hydraulic Machinery	R20ME2102	PC	30	70	100	2	1	0	3
3	Metrology and Instrumentation	R20ME2103	PC	30	70	100	3	0	0	3
4	Thermodynamics	R20ME2104	PC	30	70	100	2	1	0	3
5	Mechanics of Solids	R20ME2105	PC	30	70	100	2	1	0	3
6	FMHM Lab	R20ME21L1	PC	15	35	50	0	0	3	1.5
7	MOS and Metallurgy Lab	R20ME21L2	PC	15	35	50	0	0	3	1.5
8	Metrology and Instrumentation Lab	R20ME21L3	PC	15	35	50	0	0	3	1.5
9	Solid Modelling	R20ME21SC1	SC	-	50	50	0	0	4	2
10	Environmental Studies	R20CC21MC1	MC	-	-	-	2	0	0	0
Total										21.5

II B.TECH– II SEMESTER

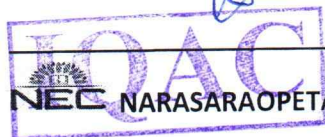
S. No	Subject	Course Code	Cat. Code	Internal Marks	External Marks	Total Marks	L	T	P	Credits
1	Applied Thermodynamics	R20ME2204	ES	30	70	100	2	1	0	3
2	Complex Variables Probability and Statistics	R20CC2202	BS	30	70	100	2	1	0	3
3	Kinematics of Machinery	R20ME2205	PC	30	70	100	3	0	0	3
4	Manufacturing Technology	R20ME2203	PC	30	70	100	3	0	0	3
5	Technical and Communicative English –II	R20CC2201	HS	30	70	100	3	0	0	3
6	Machine Drawing Lab	R20ME22L1	PC	15	35	50	0	0	3	1.5
7	Applied Thermodynamics Lab	R20ME22L2	PC	15	35	50	0	0	3	1.5
8	Manufacturing Technology Lab	R20ME22L3	PC	15	35	50	0	0	3	1.5
9	Computer Aided Engineering Practice	R20ME22SC2	SC	-	50	50	0	0	4	2
Total										21.5
10	Honors/Minors Course	-	HC	30	70	100	4	0	0	4

I B.TECH., I SEMESTER

S.No.	Course code	SUBJECT	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	R20CC1102	Linear Algebra and Calculus	BS	2	1	0	30	70	100	3
2	R20CC1103	Engineering Chemistry	BS	3	0	0	30	70	100	3
3	R20CC1101	Technical and Communicative English-I	HS	3	0	0	30	70	100	3
4	R20EC1110	Engineering Graphics	ES	1	0	4	30	70	100	3
5	R20CC1105	Problem solving using C	ES	3	0	0	30	70	100	3
6	R20CC11L1	Soft Skills and Communication Skills Lab	HS	0	0	3	15	35	50	1.5
7	R20CC11L5	Engineering Chemistry Lab	BS	0	0	3	15	35	50	1.5
8	R20CC11L2	Problem solving using C Lab	ES	0	0	3	15	35	50	1.5
Total				12	1	13	195	455	650	19.5

I B.TECH., II SEMESTER

S.No.	Course Code	SUBJECT	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	R20CC1201	Differential Equations and Vector Calculus	BS	2	1	0	30	70	100	3
2	R20EC1205	Applied Physics	BS	3	0	0	30	70	100	3
3	R20CC1206	Problem Solving using Python	ES	3	0	0	30	70	100	3
4	R20EC1215	Network Analysis	ES	3	0	0	30	70	100	3
5	R20EC1219	Data Structures	ES	3	0	0	30	70	100	3
6	R20CC12L8	Data Structures Lab	ES	0	0	3	15	35	50	1.5
7	R20CC12L10	Applied Physics Lab	BS	0	0	3	15	35	50	1.5
8	R20CC12L1	Problem Solving using Python Lab	ES	0	0	3	15	35	50	1.5
9	R20CCMC2	Constitution of India/NSS/NCC	MC	2	0	0				0
Total				16	1	9	195	455	650	19.5



II B.TECH. – I SEMESTER

S.N o.	Subject Code	SUBJECT	Cat. Code	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1	R20CC2101	Numerical Methods and Transformations	BS	2	1	0	30	70	100	3
2	R20EC2102	Electronic Devices and Circuits	PC	3	0	0	30	70	100	3
3	R20EC2103	Signals and Systems	PC	2	1	0	30	70	100	3
4	R20EC2104	Switching Theory and Logic Design	PC	3	0	0	30	70	100	3
5	R20EC2105	Linear Control Systems	PC	3	0	0	30	70	100	3
6	R20EC21L1	Electronic Devices and Circuits Lab	PC	0	0	3	15	35	50	1.5
7	R20EC21L2	Signals and Systems Lab	PC	0	0	3	15	35	50	1.5
8	R20EC21L3	Digital Logic Design Lab	PC	0	0	3	15	35	50	1.5
9	R20EC21S C1	Design of Systems using Arduino and Raspberry Pi	SC	0	0	4		50	50	2
10	R20CC21M C1	Environmental Studies	MC	2	0	0				0
		Total		15	02	13	195	505	700	21.5



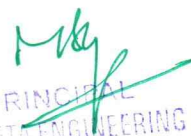
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NARASARAOPET - 522 601.
Guntur (Dist.), A.P.

R20 COURSE STRUCTURE

I B.TECH – II SEMESTER

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	R20CC1202	Numerical Methods and Statistics	BS	30	70	100	2	1	0	3
2	R20CC1204	Engineering Chemistry	BS	30	70	100	3	0	0	3
3	R20CC1206	Problem Solving Using Python	ES	30	70	100	3	0	0	3
4	R20CC1208	Electronic Devices and Logic Design	ES	30	70	100	3	0	0	3
5	R20CC12L2	Engineering Chemistry Lab	BS	15	35	50	0	0	3	1.5
6	R20CC12L3	R Programming Lab	ES	15	35	50	0	0	3	1.5
7	R20CC12L12	Problem Solving Using Python Lab	ES	15	35	50	0	0	3	1.5
8	R20CC12L13	CSE Workshop	ES	30	70	100	0	0	6	3
9	R20CCMC1	Environmental Studies	MC	-	-	-	2	0	0	0
TOTAL										19.5




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

R20 COURSE STRUCTURE

II B.TECH - I SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	R20CC2102	Mathematical Foundations of Computer Science	BS	30	70	100	2	1	0	3
2	R20CC2103	OOPs through Java	PC	30	70	100	3	0	0	3
3	R20CC2104	Data Structures	PC	30	70	100	3	0	0	3
4	R20CI2101	Computer Organization	PC	30	70	100	3	0	0	3
5	R20CC2105	Front End Web Technologies	PC	30	70	100	3	0	0	3
6	R20CC21L1	Data Structures Lab	PC	15	35	50	0	0	3	1.5
7	R20CC21L2	OOPs through Java Lab	PC	15	35	50	0	0	3	1.5
8	R20CC21L3	Front End Web Technologies Lab	ES	15	35	50	0	0	3	1.5
9	R20CC21SC1	Data Science Lab	SOC	-	50	50	0	0	4	2
10	R20CCMC2	Constitution of India	MC	-	-	-	2	0	0	0
										21.5



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R20 COURSE STRUCTURE

I B.TECH – II SEMESTER

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	R20CC1202	Numerical Methods and Statistics	BS	30	70	100	2	1	0	3
2	R20CC1204	Engineering Chemistry	BS	30	70	100	3	0	0	3
3	R20CC1206	Problem Solving Using Python	ES	30	70	100	3	0	0	3
4	R20CC1208	Electronic Devices and Logic Design	ES	30	70	100	3	0	0	3
5	R20CC12L2	Engineering Chemistry Lab	BS	15	35	50	0	0	3	1.5
6	R20CC12L3	R Programming Lab	ES	15	35	50	0	0	3	1.5
7	R20CC12L8	LINUX Programming	ES	15	35	50	0	0	3	1.5
8	R20CC12L12	Problem Solving Using Python Lab	ES	30	70	100	0	0	6	3
9	R20CCMC1	Environmental Studies	MC	-	-	-	2	0	0	0
TOTAL										19.5




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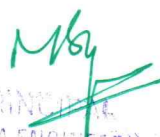
DEPARTMENT OF INFORMATION TECHNOLOGY

R20 COURSE STRUCTURE

II B.TECH - I SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDIT S
1	R20CC2102	Mathematical Foundations of Computer Science	BS	30	70	100	2	1	0	3
2	R20CC2103	OOPs through Java	PC	30	70	100	3	0	0	3
3	R20CC2104	Data Structures	PC	30	70	100	3	0	0	3
4	R20CI2101	Computer Organization	PC	30	70	100	3	0	0	3
5	R20CC2105	Front End Web Technologies	PC	30	70	100	3	0	0	3
6	R20CC21L1	Data Structures Lab	PC	15	35	50	0	0	3	1.5
7	R20CC21L2	OOPs through Java Lab	PC	15	35	50	0	0	3	1.5
8	R20CC21L3	Front End Web Technologies Lab	ES	15	35	50	0	0	3	1.5
9	R20CC21SC1	Data Science Tools	SOC	-	50	50	1	0	2	2
10	R20CCMC2	Constitution of India	MC	-	-	-	2	0	0	0
										21.5




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R20 COURSE STRUCTURE

I B.TECH – II SEMESTER

S.No.	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	R20CC1202	Numerical Methods and Statistics	BS	30	70	100	2	1	0	3
2	R20CC1204	Engineering Chemistry	BS	30	70	100	3	0	0	3
3	R20CC1206	Problem Solving Using Python	ES	30	70	100	3	0	0	3
4	R20CC1208	Electronic Devices and Logic Design	ES	30	70	100	3	0	0	3
5	R20CC12L2	Engineering Chemistry Lab	BS	15	35	50	0	0	3	1.5
6	R20CC12L3	R Programming Lab	ES	15	35	50	0	0	3	1.5
7	R20CC12L8	LINUX Programming	ES	15	35	50	0	0	3	1.5
8	R20CC12L12	Problem Solving Using Python Lab	ES	30	70	100	1	0	4	3
9	R20CCMC1	Environmental Studies	MC	-	-	-	2	0	0	0
TOTAL										19.5




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DEPARTMENT OF CSE (AI)

R20 COURSE STRUCTURE

II B.TECH - I SEMESTER

S.No	Subject Code	SUBJECT	Cat. Code	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	L	T	P	CREDITS
1	R20CC2102	Mathematical Foundations of Computer Science	BS	30	70	100	2	1	0	3
2	R20CC2103	OOPs through Java	PC	30	70	100	3	0	0	3
3	R20CC2104	Data Structures	PC	30	70	100	3	0	0	3
4	R20AI2101	Data Science	PC	30	70	100	3	0	0	3
5	R20CC2105	Front End Web Technologies	PC	30	70	100	3	0	0	3
6	R20CC21L1	Data Structures Lab	PC	15	35	50	0	0	3	1.5
7	R20CC21L2	OOPs through Java Lab	PC	15	35	50	0	0	3	1.5
8	R20CC21L3	Front End Web Technologies Lab	ES	15	35	50	0	0	3	1.5
9	R20CC21SC1	Data Science Tools	SOC	-	50	50	1	0	2	2
10	R20CCMC2	Constitution of India	MC	-	-	-	2	0	0	0
										21.5