

Kakinada-533003, Andhra Pradesh (India)

Program wise Curriculum Analysis of (R19)

		No of Courses having focus on			Total Courses	Percentage
Program	Program Name	Employability	Entrepreneurship	Skill development		
Code		Employability	2	18	86	44
01	B.TECH-CE	18				

Coordinator

HOD/Director

PROFESSOR & HEAD Department of Civil Engineering University College of Engineering

J.N.T. University Kakinada Kakinada-533003



Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name:B.Tech -CE

Year: I

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 BS1101	Mathematics – I			
R19 HS1101	Communicative English			
R19 BS1102	Engineering Chemistry			
R19 ES1101	Essentials of Electrical and Electronics Engineering			
R19 ES1102	Engineering Graphics			
R19 HS1102	English Communication Skills Lab – I			YES
R19 BS1103	Engineering Chemistry Lab			YES
R19 ES1103	Workshop Practice			
R19 ES1104	Essentials of Electrical & Electronics Engineering Lab	<u> </u>		YES
R19 MC1101	Environmental Science		1	
R19 MC1102	Physical Fitness Activities			
	Total			3

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name: B. Tech - CE

Year: I

Semester: II

Course	Course name	Employability	Entrepreneurship	Skill development
code		(Yes/No)	(Yes/No)	(Yes/No)
R19 BS1201	Mathematics – Ii	<u> </u>		
R19 BS1202	Mathematics – III		- 4	
R19 BS1203	Applied/ Engineering Physics			
R19 ES1201	Problem Solving& Programming Using C			7
R19 ES1202	Engineering Mechanics			
R19 BS1204	Applied/ Engineering Physics Lab			Yes
R19 HS1201	English Communication Skills Lab – II	·		Yes
R19 BS1205	Physic Virtua! Lab			Yes
R19 ES1203	Problem Solving & Programming using C Lab			Yes
R19 PR1201	Engineering Exploration Project & Design Thinking	_		
R19 MC1201	Constitution of India			<u> </u>
	Total	<u> </u>		4

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Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name:B.Tech - CE

Year: II

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 BS2101	Probability and Statistics/ M4	<u> </u>		
R19 PC2102	Fluid Mechanics		ļ	
R19 ES2101	Surveying			
R19 ES2102	Engineering Geology		<u> </u>	
R19 PC2103	Building Materials and Construction	<u> </u>		
R19 PC2104	Strength of Materials Lab			Yes
R19 ES2103	Surveying Field Work – I			
R19 ES2104	Engineering Geology Lab			Yes
<u> </u>	Tota	1		2

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Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name:B.Tech - CE

Year: II

Semester: II

Course	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 PC2201	Transportation Engineering – I			
R19 PC2202	Hydraulics and Hydraulic Machinery			
R19 ES2201	Structural Analysis – I			
R19 PC2203	Building Planning and Drawing	"		
R19 PC2204	Concrete Technology			· · ·
R19 PC2205	Managerial Economics and Financial Analysis		Yes	
R19 ES2202	Surveying Field work – II			
R19 PC2206	Fluid Mechanics Lab			Yes
R19 MC2201	Socially Relevant Projects			
R19 MC2202	Essence of Indian Traditional Knowledge/Professional Ethics and Human Values	VCCSNOVIN-		
	Total	4	1	1

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Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name: B. Tech - CE

Year: III

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 PC3101	Structural Analysis - II		*! A	
R19 PC3102	Design of Reinforced Concrete Structures	달		
R19 PC3103	Environmental Engineering - I		2	
R19 PC3104	Geotechnical Engineering - I			
R19 PC3105	Water Resources Engineering - I			
R19 PC3106	Geotechnical Engineering Lab			Yes
R19 PC3107	Concrete Technology Lab			Yes
R19 PC3108	Hydraulic Machinery Lab			Yes
R19 MC3101	Socially Relevant Projects	Yes		
	Total	1	(9)	3

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Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name:B.Tech - CE

Year: III

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 PC3201	Design of Steel Structures			
R19 PC3202	Geotechnical Engineering – II			
R19 PC3203	Transportation Engineering - II			
R19 PE3201	Construction Technology & Management			
R19 PC3204	Environmental Engineering – II			
	Disaster Management	Yes	5	
R19 OE3201b	Environmental Pollution & Control	Yes		
R19 OE3201c	Elements Of Civil Engineering	Yes		
R19 OE3201d (Green Technology	Yes		
R19 OE3201e	Smart Cities	Yes	<u> </u>	
R19 OE3201f	Project Management	Yes	<u> </u>	
R19 OE3201g	Traffic Safety	Yes		
R19 OE3201h	Wastewater Treatment	Yes		
	Environmental Engineering Lab			Yes
	Transportation Engineering Lab			Yes
1	Indian Traditional Knowledge/ Research Methodology/ Professional Ethics and Human Values			
	Total	8		2

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name:B.Tech - CE

Year: IV

Semester: i

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 PC4101	Water Resources Engineering - II			
R19 PE4101	Estimation Specifications and Contracts			
R19 PE4102	Remote Sensing & GIS	- 10		
R19 PE4103	Ground Improvement Techniques			
R19 OE4101a	DISASTER MANAGEMENT	Yes		
R19 OE4101b	ENVIRONMENTAL POLLUTION AND CONTROL	Yes		
R19 OE4101c	ELEMENTS OF CIVIL ENGINEERING	Yes		
R19 OE4101d	GREEN TECHNOLOGY	Yes		
R19 OE4101e	SMART CITIES	Yes		
R19 OE4101f	PROJECT MANAGEMENT	Yes Yes		
R19 OE4101g	TRAFFIC STUDY	Yes	<u> </u>	
R19 OE4101h	GEO-SPACIAL TECHNOLOGIES	Yes		
R19 OE4101i	WASTEWATER TREATMENT	Yes		
R19 PC4102	GIS & CAD Lab			Yes
•	Design & Drawing of Concrete Structures and Steel			
R19 PC4103	Structures			
R19 PR4101	Industrial Training/ Skill Development Programs/Research Project Project Work Phase-I			Yes
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Course wise Curriculum Analysis(R19)

Program Code: 01

Program Name: B.Tech-CE

Year: IV

Semester: II

Course code	Course name		Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R19 PE4201	Design and Drawing of Irrigation Structures				
R19 PE4202	Bridge Engineering			Yes	
R19 PE4203	Pre-stressed Concrete				
R19PR4201	Project Work Phase-II				Yes
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