




**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

Kakinada-533003, Andhra Pradesh (India)

**Program wise Curriculum Analysis of (R19)**

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
021D19	M.Tech-Soil Mechanics & Foundation Engineering	5	5	9	20	95
021D20	M.Tech-Structural Engineering	8	2	9	20	95
021A01	B.Tech Civil Engineering R20	1	8	28	67	55

  
Coordinator

  
H.O.D  
PROFESSOR & HEAD  
Department of Civil Engineering  
University College of Engineering  
JNTUK, KAKINADA-533 003

  
REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533003



**Course wise Curriculum Analysis(R20)**

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:I

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS1101	Mathematics-I(Calculus&Differential Equations)			
HS1101	Communicative English			Yes
BS1102	EngineeringPhysics			
ES1101	Building Materials and Construction			
ES1102	EngineeringGraphics			
HS1102	English Communication SkillsLab			Yes
BS1103	EngineeringPhysicsLab			Yes
ES1103	BasicsofCivilEngg.Workshop(Lab)			Yes
MC1101	Constitution of India			
	<b>Total</b>	0	0	4

  
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**Course wise Curriculum Analysis(R20)**

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:I

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS1201	Mathematics-II(LinearAlgebra& NumericalMethods)			
ES1201	Surveying			
BS1202	EngineeringChemistry			
ES1202	ProgrammingforProblemSolvingUsingC			
ES1203	EngineeringMechanics			
BS1203	EngineeringChemistryLab			Yes
ES1204	Surveying Field Work I			Yes
ES1205	ProgrammingforproblemSolvingUsingCLab			Yes
MC1201	EnvironmentalScience		Yes	
BS1204	Physics Virtual Lab			Yes
MC1202	Physical Fitness Activities			
	<b>Total</b>	0	1	4

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**Course wise Curriculum Analysis(R20)**

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:II

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS2101	Mathematics - III			
PC2101	Strength of Materials			
PC2102	Fluid Mechanics			
PC2103	Structural Analysis - I			
PC2104	Concrete Technology			
PC2105	Strength of Materials Lab			Yes
PC2106	Building Planning & Drawing			Yes
PC2107	Concrete Technology Lab			Yes
SC2101	Skill oriented course (Computer Aided Drawing LAB)			Yes
	<b>Total</b>	<b>0</b>		<b>4</b>

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## Course wise Curriculum Analysis(R20)

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:II

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS2201	Probability and Statistics/ (M-IV)			
PC2201	Structural Analysis - II			
PC2202	Hydraulics and Hydraulic Machinery			
ES2201	Engineering Geology			
HS2201	Managerial Economics and Financial Analysis			
PC2203	Surveying Field Work - II			Yes
ES2202	Engineering Geology Lab			Yes
PC2204	Fluid Mechanics & Hydraulics Machinery Lab			Yes
SC2201	Skill Oriented Course*			Yes
	Honors/ Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)			
	<b>Total</b>	0	0	4

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**Course wise Curriculum Analysis(R20)**

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:III

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PC3101	Design of Reinforced Concrete Structures		Yes	
PC3102	Geotechnical Engineering - I			
PC3103	Transportation Engineering - I			
PE3101 (PE-I)	Construction Technology & Management		Yes	
PC3104	Geotechnical Engineering Lab			Yes
PC3105	Transportation Engineering Lab			Yes
OE3101	a) Disaster Management		Yes	
	b) Environmental Pollution & Control			
	c) Elements of Civil Engineering			
	d) Green Technology			
	e) Smart Cities			
	f) Project Management			
	g) Wastewater Treatment			
	h) Intelligent Transportation Systems			
SS3101	Skill advanced course/ soft skills course* (Total Station & GPS)			Yes
SI3101	Summer Internship			Yes
<b>Total</b>		<b>0</b>	<b>3</b>	<b>4</b>

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**Course wise Curriculum Analysis(R20)**

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:III

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PC3201	Design of Steel Structures		Yes	
PC3202	Water Resources Engineering – I			
PC3203	Geotechnical Engineering - II			
PC3203	Environmental Engineering			
PE3201 (PE-II)	Estimation Specification & Contracts		Yes	
OE3101	a) Disaster Management		Yes	
	b) Environmental Pollution & Control			
	c) Elements of Civil Engineering			
	d) Green Technology			
	e) Smart Cities			
	f) Project Management			
	g) Wastewater Treatment			
	h) Intelligent Transportation Systems			
PC3204	Environmental Engineering Lab			Yes
SS3201	Skill Advanced Course/ soft skill course*			Yes
MC3201	Mandatory Course			Yes
RI3201	Industrial/ Research Internship (Mandatory 2 months)			Yes
<b>Total</b>		0	3	4

  
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Course wise Curriculum Analysis(R20)

Program Code:021A01

Program Name:B.Tech Civil Engineering

Year:IV

Semester:

I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PE4101 (PE-III)	Pre-stressed Concrete			
PE4102 (PE-IV)	Water Resources Engineering - II			
OE4101 (OE-III)	Remote Sensing & GIS			
OE4102 (OE IV)	Waste water Treatment			
HS4101 (HS4101)	IPR & Patents		Yes	
PE4103 (PE-V)	Design and Drawing of Irrigation Structures	Yes		
PE4104	Remote sensing & GIS Lab			Yes
RI4101	Industrial/ Research Internship			Yes
SS4101	Soft Skills			Yes
	<b>Total</b>	<b>1</b>	<b>1</b>	<b>3</b>

  
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Program Code:021A01

Program Name: B.Tech –Civil Engineering

Year:IV

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PROJ	Project Project Work, Seminar & internship in industry			Yes
	<b>INTERNSHIP (6 MONTHS)</b>			
	<b>Total</b>			1

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