



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
Kakinada-533003, Andhra Pradesh (India)

**Program wise Curriculum Analysis of (R20)**

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
05	B. Tech(CSE)	12	18	16	46	68%

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**REGISTRAR**  
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**Course wise Curriculum Analysis (R20)**

**Program Code: 05**

**Program Name: B. Tech-CSE**

**Year: 1**

**Semester: 1**

<b>Course code</b>	<b>Course name</b>	<b>Employability (Yes/No)</b>	<b>Entrepreneurship (Yes/No)</b>	<b>Skill development (Yes/No)</b>
R20HS1101	Communicative English	Yes		
R20ES1101	Computer Engineering Workshop	Yes	Yes	
ES1104	Essential of Electrical & Electronics Engineering Lab			YES
R20ES1102	Problem solving and Programming using C			YES
R20ES1103	Problem solving and Programming using C lab			YES
<b>Total</b>		<b>2</b>	<b>1</b>	<b>3</b>

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**Course wise Curriculum Analysis (R20)**

**Program Code: 05**

**Program Name: B. Tech-CSE**

**Year: 1**

**Semester: 2**

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R20ES1202	Data Structures			YES
R20ES1203	Object Oriented Programming Through C++	YES		YES
R20ES1204	Data Structures lab	Yes		YES
R20ES1205	Object Oriented Programming Through C++ lab	YES		YES
R20PR1201	Engineering Exploration Project- Design Thinking		YES	
<b>Total</b>		2	1	4

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**Program Code: 05**

**Program Name: B. Tech-CSE**

**Year: 2**

**Semester: 1**

<b>Course code</b>	<b>Course name</b>	<b>Employability (Yes/No)</b>	<b>Entrepreneurship (Yes/No)</b>	<b>Skill development (Yes/No)</b>
R20SO2101	Mobile App Development		YES	YES
R20MC2101	Research Methodology	YES		
R20PC2107	Advanced Java Programming Lab	YES		
MC2102	Employability Skills-I*	YES	YES	YES
<b>Total</b>		<b>3</b>	<b>2</b>	<b>2</b>

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**Program Code: 05**

**Program Name: B. Tech-CSE**

**Year: 2**

**Semester: 2**

<b>Course code</b>	<b>Course name</b>	<b>Employability (Yes/No)</b>	<b>Entrepreneurship (Yes/No)</b>	<b>Skill development (Yes/No)</b>
R20PC2202	Python Programming	YES	YES	
R20PC2204	Python Programming Lab		YES	
R20SO2201	Python Programming: NLP	YES		YES
<b>Total</b>		2	2	1

  
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**Course wise Curriculum Analysis (R20)**

**Program Code: 05**

**Program Name: B. Tech-CSE**

**Year: 3**

**Semester: 1**

<b>Course code</b>	<b>Course name</b>	<b>Employability (Yes/No)</b>	<b>Entrepreneurship (Yes/No)</b>	<b>Skill development (Yes/No)</b>
R20OE3101	<b>Open Elective-I</b> Open Electives offered by other departments/Optimization Techniques(Job oriented course)	YES	YES	
R20PE3101	<b>Professional Elective-I</b> 1. Artificial Intelligence 2. Software project Management 3. Distributed Systems 4. Advanced Unix Programming		YES	YES
R20SO3101	Animation course: Animation Design			YES
	Honors/Minor courses			
	Honors/Minor courses through SWAYAM			
	<b>Total</b>	1	2	2

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Kakinada-533003, Andhra Pradesh (India)

## Course wise Curriculum Analysis (R20)

Program Code: 05

Program Name: B. Tech-CSE

Year: 3

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R20PE3201	<b>Professional Elective-II</b> 1.Mobile Computing 2.Mean Stack Development 3.Object oriented Analysis and Design 4.Network Programming	YES	YES	
R20OE3201	<b>Open Elective-II</b> Open Electives offered by other departments/Natural Language Processing (Job Oriented Course)			YES
PE3202	<b>Professional Elective-III</b> 1. Software Project Management 2. Network Programming 3. Design patterns 4. MOOCS-NPTEL/SWAYAM <b>Duration: 12 Weeks Minimum</b>		YES	
	Honors/Minor courses		YES	
	Honors/Minor courses through SWAYAM		YES	
	<b>Total</b>	1	4	1



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**Course wise Curriculum Analysis (R20)**

**Program Code: 05**

**Program Name: B. Tech-CSE**

**Year: 4**

**Semester: 1**

<b>Course code</b>	<b>Course name</b>	<b>Employability (Yes/No)</b>	<b>Entrepreneurship (Yes/No)</b>	<b>Skill development (Yes/No)</b>
R20PE4101	<b>Professional Elective-III</b> 1.Cloud Computing 2.Neural Networks and Soft Computing 3.Ad-hoc and Sensor Networks 4.Cyber Security & forensics		YES	
R20PE4102	<b>Professional Elective-IV</b> 1. Deep Learning Techniques 2. Social Networks & Semantic Web 3. DevOps 4.MOOCs-NPTEL/SWAYAM	YES		
R20PE4103	<b>Professional Elective-V</b> 1.Block-Chain Technologies 2.Wireless Network Security 3.Ethical Hacking 4.MOOCs-NPTEL/SWAYAM		YES	
R20OE4101	<b>Open Elective-III</b> Open Electives offered by other departments/ Secure Coding Techniques (Job Oriented Course)			YES



R20OE4102	<b>Open Elective-IV</b> Open Electives offered by other departments/ Computational Thinking (Job Oriented Course)			YES
R20SO4101	PYTHON: Deep Learning /APSSDC offered Courses			YES
	<b>Honors/Minor courses</b>		YES	
	<b>Honors/Minor courses through SWAYAM</b>		YES	
	<b>Total</b>	1	4	3

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**Course wise Curriculum Analysis (R20)**

Program Code: 05

Program Name: B. Tech-CSE

Year: 4

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PE4201	<b>Professional Elective-VI</b> 1. MOOCSNPTEL/SWAYAM * 2. Natural Language Processing 3. Deep Learning Techniques 4. Neural Networks and Soft Computing		YES	
PE4202	<b>Professional Elective-VII</b> 1. MOOCS-NPTEL/SWAYAM * 2. Wireless Network Security 3. Ethical hacking 4. Digital Marketing		YES	
<b>Total</b>			2	

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