



**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		
05	B.TECH-CSE	55	6	26	103	80

*Nh9*  
Coordinator

*OSKant*  
HOD  
Head of the Department  
Dept. of Computer Science & Eng.  
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JNT University, Kakinada - 533 003

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



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

## Course wise Curriculum Analysis(R19)

Program Code: 04

Program Name: B.Tech -CSE

Year: I

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS1101	Mathematics-I	YES		
HS1101	Communicative English			YES
BS1102	Applied Chemistry	YES		
ES1101	Essential of Electrical & Electronics Engineering	YES		
ES1102	Engineering Drawing			YES
HS1102	English Communication Skills Lab-I			YES
BS1103	Applied Chemistry Lab			YES
ES1103	IT workshop			YES
ES1104	Essential of Electrical & Electronics Engineering Lab			YES
MC1101	Environment Science		YES	
MC1102	Physical Fitness Activities			YES
	<b>Total</b>	<b>3</b>	<b>1</b>	<b>7</b>

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**Course wise Curriculum Analysis(R19)**

Program Code: 04

Program Name: B.Tech - CSE

Year: I

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS1202	Mathematics-III	Yes		
BS1203	Applied Physics	Yes		
ES1201	Problem Solving and Programming Using C	Yes		
ES1202	Digital Logic Design	Yes		
BS1204	Applied Physics Lab	Yes		
HS1201	English Communication Skills Lab-II			Yes
BS1205	Applied Physics Virtual Lab			Yes
ES1203	Problem Solving and Programming Using C Lab			Yes
HS1202	Engineering Exploration Project- Design Thinking (15 Hrs Per Semester)			Yes
MC1201	Constitution of India			Yes
	<b>Total</b>	<b>5</b>		<b>5</b>

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## Course wise Curriculum Analysis(R19)

Program Code: 05

Program Name: B.Tech -CSE

Year: II

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PCC2101	Mathematical Foundations of Computer Science	Yes		
PCC2102	Software Engineering	Yes		
PCC2103	OOP Through Java	Yes		
PCC2104	Data Structures through C	Yes		
ES2101	Computer Organization	Yes		
ES2102	Computer Graphics	Yes		
PCC2105	OOP Through Java Lab			Yes
PCC2106	Data Structures through C Lab			Yes
MC2101	Essence of Indian Traditional Knowledge		Yes	
MC2102	Employability Skills-I*			Yes
<b>Total</b>		<b>6</b>	<b>1</b>	<b>3</b>

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**Course wise Curriculum Analysis(R19)**

Program Code: 05

Program Name: B.Tech - CSE

Year: II

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
BS2201	Probability and Statistics	Yes		
PCC2201	Web Technologies	Yes		
PCC2202	Operating Systems	Yes		
PCC2203	Data Base Management Systems	Yes		
PCC2204	Formal Languages and Automata Theory	Yes		
PCC2205	Operating System & LINUX Lab			Yes
PCC2206	Web Technologies Lab			Yes
PCC2207	Data Base Management Systems Lab			Yes
PR2201	Socially Relevant Projects (15 Hrs /Semester)		Yes	
MC2201	Human Values & Professional Ethics		Yes	
MC2202	Physical Fitness Activities			
	<b>Total</b>	<b>5</b>	<b>2</b>	<b>3</b>

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**Course wise Curriculum Analysis(R19)**

Program Code: 04

Program Name: B.Tech - CSE

Year: III

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PCC3101	Data Warehousing and Data Mining	Yes		
PCC3102	Computer Networks	Yes		
PCC3103	Compiler Design	Yes		
PCC3104	Artificial Intelligence	Yes		
PE3101	Professional Elective-I1. Principles of Programming Languages	Yes		
PE3101	Professional Elective-I2. Digital Image Processing	Yes		
PE3101	Professional Elective-I3. Advanced Unix Programming	Yes		
PE3101	Professional Elective-I4. Advanced Computer Architecture	Yes		
PE3101	Professional Elective-I5. Object Oriented analysis and design	Yes		
PCC3105	Computer Networks & Compiler Design Lab			Yes
PCC3106	AI Tools & Techniques Lab			Yes
PCC3107	Data Warehousing and Data Mining Lab			Yes
PR3101	Socially Relevant Projects(15 Hrs /Semester)		Yes	
MC3101	Employability Skills-II*		Yes	
MC3102	Physical Fitness Activities	Yes		
	<b>Total</b>	<b>10</b>	<b>2</b>	<b>3</b>

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**Course wise Curriculum Analysis(R19)**

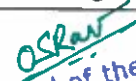
Program Code: 04

Program Name: B.Tech - CSE

Year: III

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PCC3203	Machine Learning using Python Lab	Yes		
PCC3204	Data Analytics using R lab	Yes		
MC3201	IPR & Patenting	Yes		
PCC4101	Cryptography and Network Security	Yes		
PCC4102	Big Data Analytics	Yes		
PE4101	Professional Elective-IV1. Mobile Computing	Yes		
PE4101	Professional Elective-IV2. Mean Stack Development	Yes		
PE4101	Professional Elective-IV3. Internet of Things	Yes		
PE4101	Professional Elective-IV4. Parallel Computing	Yes		
PE4102	Professional Elective-V1. Cloud computing	Yes		
PE4102	Professional Elective-V2. Social Networks & Semantic web	Yes		
PE4102	Professional Elective-V3. Ad-hoc and Sensor Networks	Yes		
PE4102	Professional Elective-V4. Cyber Security & Forensic	Yes		
OE4101	Open Elective-II (Inter Disciplinary)	Yes		
PCC4103	Big Data Analytics Lab	Yes		
PCC4104	Cryptography & Network Security Lab			Yes
PR4101	Project-I			Yes
PR4102	Industrial Training /Internship/Research Project in National Laboratories/Academic Institutions			
MC4101	Physical Fitness Activities	Yes		
PCC3203	Machine Learning using Python Lab			Yes
<b>Total</b>		<b>16</b>		<b>3</b>

  
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Kakinada-533003, Andhra Pradesh (India)

## Course wise Curriculum Analysis(R19)

Program Code: 05

Program Name: B.Tech - CSE

Year: IV

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PCC4101	Cryptography and Network Security	Yes		
PCC4102	Big Data Analytics	Yes		
PE4101	Mobile Computing 2. Mean Stack Development 3. Network Programming 4. Internet of Things 5. Parallel Computing	Yes		
PE4102	Cloud computing 2. Social Networks & Semantic web 3. Ad-hoc and Sensor Networks 4. Cyber Security & Forensics 5. Design patterns	Yes		
OE4101	Big Data 2. AI Tools & Techniques 3. Image Processing 4. Information Security 5. Mobile Application Development 6. Sensor Networks	Yes		
PCC4103	PCC4103	Yes		
PCC4104	Cryptography & Network Security Lab			Yes
PR4101	Project-I			Yes
PR4102	Industrial Training / Internship/Research Project in National Laboratories/Academic Institutions			
MC4101	Physical Fitness Activities	Yes		
	<b>Total</b>	<b>7</b>		<b>2</b>

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**Course wise Curriculum Analysis(R19)**

Program Code: 05

Program Name : CSE

Year: IV

Semester: II

<b>Course code</b>	<b>Course name</b>	<b>Employability (Yes/No)</b>	<b>Entrepreneurship (Yes/No)</b>	<b>Skill development (Yes/No)</b>
PE4201	Natural Language Processing 3. Deep Learning Techniques 4. Neural Networks and Soft Computing 5. Information Security Audit	Yes		
PE4202	MOOCS-NPTEL/SWAYAM * 2. Block Chain Technologies 3. Wireless Network Security 4. Ethical hacking 5. Digital Marketing	Yes		
OE4201	1. Operating Systems 2. Python Programming 3. Web Technologies 4. Soft Computing 5. Distributed Computing 6. AI and ML for Robotics	Yes		
PR4201	Project-II	Yes		
	<b>TOTAL</b>	<b>4</b>		

*(Signature)*  
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