



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

**Program wise Curriculum Analysis of (R16)**

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
05	B.TECH-CSE	20	3	25	82	56

*NK*  
Coordinator

*Sudesh*  
**REGISTRAR**  
J.N.T. University Kakinada  
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*PSR*  
**HOD/Director**  
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Kakinada-533003, Andhra Pradesh (India)

**Course wise Curriculum Analysis(R16)**

Program Code: 05

Program Name: B.Tech -CSE

Year: I

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R16CS111	English – I			
R16CS112	Mathematics - I			
R16CS113	Mathematics – II (Computational Mathematics)			
R16CS114	Applied Physics			
R16CS115	Computer Programming using C			
R16CS116	Engineering Drawing			
R16CS117	English - Communication Skills Lab I			YES
R16CS118	Applied Physics Lab			YES
R16CS119	C-Programming Lab			YES
	Applied Physics- Virtual Lab-Assignments			YES
	<b>Total</b>			<b>4</b>

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Kakinada-533003, Andhra Pradesh (India)

## Course wise Curriculum Analysis(R16)

Program Code: 05

Program Name: B.Tech - CSE

Year: I

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R16CS121	English – II			
R16CS122	Object Oriented Programming through C++	Yes		
R16CS123	Applied Chemistry			
R16CS124	Engineering Mechanics			
R16CS125	Environmental Studies			
R16CS126	Mathematics III			
R16CS127	Applied Chemistry Lab			Yes
R16CS128	Object Oriented Programming Lab			Yes
R16CS129	English Communication Skills Lab II			Yes
	<b>Total</b>			<b>3</b>

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**Course wise Curriculum Analysis(R16)**

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)
R16CS211	Statistics with R Programming	Yes		
R16CS212	Mathematical Foundations of Computer Science			
R16CS213	Digital Logic Design			
R16CS214	Java Programming	YES		
R16CS215	Data Structures through C++	Yes		
R16CS216	Computer Graphics	Yes		
R16CS217	Data Structures through C++Lab			Yes
R16CS218	Java Programming Lab			Yes
	<b>Total</b>	<b>3</b>		<b>2</b>

  
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**Course wise Curriculum Analysis(R16)**

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)
R16CS221	Software Engineering		YES	
R16CS222	Python Programming	YES		
R16CS223	Advanced Data Structures			
R16CS224	Computer Organization			
R16CS225	Formal Languages and Automata Theory			
R16CS226	Principles of Programming Languages	YES		Yes
R16CS227	Advanced Data Structures Lab			Yes
R16CS228	Python Programming Lab			Yes
R16CS229	Professional Ethics & Human Values			
	<b>Total</b>	<b>2</b>	<b>1</b>	<b>3</b>

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**Course wise Curriculum Analysis(R16)**

Program Code: 05

Program Name: B.Tech - CSE

Year: III

Semester: I

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R16CS311	Compiler Design	YES		
R16CS312	Unix Programming	YES		
R16CS313	Object Oriented Analysis and Design using UML	YES		
R16CS314	Database Management Systems	YES		
R16CS315	Operating Systems	YES		
R16CS316	Object Oriented Analysis and Design Lab using UML			YES
R16CS317	Operating Systems & Linux Programming Lab			YES
R16CS318	Database Management Systems Lab			YES
R16CS319	Intellectual Property Rights & Patents		YES	
R16CS321	Computer Networks			
	<b>Total</b>	<b>5</b>	<b>1</b>	<b>3</b>

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## Course wise Curriculum Analysis(R16)

Program Code: 05

Program Name: B.Tech - CSE

Year: III

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R16CS321	Computer Networks	YES		
R16CS322	Data Warehousing and Mining	YES		
R16CS323	Design and Analysis of Algorithms	YES		
R16CS324	Software Testing Methodologies	YES		
R16CS325A	Artificial Intelligence: Search Methods for Problem Solving (MOOCS-SWAYAM/NPTEL)			YES
R16CS325B	Internet of Things			
R16CS325C	Cyber Security			
R16CS325D	Digital Signal Processing	YES		
R16CS325E	Embedded Systems			
R16CS325F	Robotics			YES
R16CS326	Computer Networks Lab			YES
R16CS327	Software Testing Lab			YES
R16CS328	Data Warehousing and Mining Lab			YES
	<b>Total</b>	<b>5</b>		<b>5</b>

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## Course wise Curriculum Analysis(R16)

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)
R16CS411	Cryptography and Network Security	YES		
R16CS412	Big Data Analytics			YES
R16CS413	Web Technologies			YES
R16CS414	Managerial Economics and Financial Analysis		YES	
R16CS415A	Software Architecture & Design Patterns			
R16CS415B	Information Retrieval Systems			
R16CS415C	Mobile Computing			
R16CS415D	Natural Language Processing			
R16CS416A	Cloud Computing	YES		
R16CS416B	Artificial Neural Networks			
R16CS416C	Ad Hoc & Sensor Networks			
R16CS416D	Privacy and Security in Online			
R16CS416F	Elective-Social Media (MOOCS-SWAYAM / NPTEL)			
R16CS417	Big Data Analytics Lab			YES
R16CS418	Web Technologies Lab			YES
	<b>Total</b>	<b>2</b>	<b>1</b>	<b>4</b>

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**Course wise Curriculum Analysis(R16)**

Program Code: 05

Program Name : CSE

Year: IV

Semester: II

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
R16CS421	Distributed Systems	YES		
R16CS422	Management Science			
R16CS423	Machine Learning	YES		
R16CS424A	Concurrent and Parallel Programming			
R16CS424B	Software Project Management	YES		
R16CS424C	Operations Research			
R16CS424D	Deep Learning for Visual Computing under moocs			
R16CS425	Seminar			YES
R16CS426	Project			YES
	<b>TOTAL</b>	<b>3</b>		<b>2</b>

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