



**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		
96	M.Tech -- Nanotechnology	05	01	10	22	72

*NIA*  
Coordinator

*A.K.*  
Chairman, BOS

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



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**Course wise Curriculum Analysis(R16)**

Program Code: 96

Program Name: M.Tech - Nanotechnology

Year: 1

Semester: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
NT101	Introduction to Nano materials			
NT102	Synthesis of Nano materials and Properties			
NT103	Nanomaterials Characterization	Yes	Yes	
NT104	Thin film Science and Technology	yes		Yes
Elective - I NT105	a) Surface Engineering of Nanomaterials b) Computational Nanotechnology c) Colloid and Interface Science	yes		Yes
Elective - II NT106	a) Nano Fluidics b) Piezo & Pyroelectric Nanomaterials c) Carbon Nanostructures and Applications			
NT107	Synthesis and Characterization Lab			Yes
	<b>Total</b>	<b>03</b>	<b>01</b>	<b>03</b>

*A. G. N.*



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**Course wise Curriculum Analysis(R16)**

Program Code: 96

Program Name: M.Tech - Nanotechnology

Year: 1

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
NT201	Green Nanotechnology			
NT202	Nanoelectronics			
NT203	Nanotechnology for Energy Systems			
NT204	Multifunctional Nanomaterials	Yes		
Elective-I NT205	a) Biomedical Nanotechnology b) Nano Composites and Applications c) Nano Photonics and Plasmonics	Yes		Yes
Elective-II NT206	a) Nanoscale Magnetic Materials and Devices b) MEMS and NEMS c) Micro and Nano Mechanics			Yes
NT207	Mathematical Modeling and Simulation of Nano Materials Lab			Yes
<b>Total</b>		02		03

*A. M.*



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**Course wise Curriculum Analysis(R16)**

Program Code: 96

Program Name: M.Tech - Nanotechnology

Year: 2

Semester: 3

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
	Seminar -1			
	Comprehensive Viva			Yes
	Project part-1			
				Yes
	<b>Total</b>			02

Program Code: 33

Program Name: M.Tech - Nanotechnology

Year: 2

Semester: 4

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
	Seminar - 2			
	Project part-2			Yes
				Yes
	<b>Total</b>			02

  
Coordinator

  
Chairman, Board of Studies