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		
96	M.Tech – Nanotechnology	6	2	7	15	75%

Coordinator

Chairman,BOS

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: 96   Program Name: M.Tech - Nanotechnology   Year: 1   Semester: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Core-1	Introduction to Nano materials and Applications			
Core-2	Synthesis of Nano materials			
Elective-1	a) Thin film Science and Technology b) Nanomaterials for Energy Systems c) Nano Photonics & Plasmonics	Yes		
Elective-2	a) Nano Fluidics b) Nanoscopic Dielectric and Ferroelectric materials c) Carbon Nanostructures and Applications	Yes		
Core	Research Methodology and IPR		Yes	
Lab-1	Nanomaterials synthesis Lab			Yes
Lab-2	Nanomaterials Simulation Lab			Yes
Audit –1	Writing skills for Scientific Communication			
	Total	**2**	**1**	**2**

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis (R19)

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)
Core-3	Nano Material Characterization Techniques			
Core-4	Nano Sensors and its Applications	Yes		
Elective-3	a) Biomedical Nanotechnology	Yes		
	b) Nano Composites and Applications			
	c) Computational Nanotechnology			
Elective-4	a) Nanoscale Magnetic Materials and Devices	Yes		
	b) MEMS and NEMS			
	c) Multifunctional Nanomaterials			
Lab-3	Nanomaterials Characterization Lab			Yes
Lab-4	Advanced Nanotechnology Laboratory			Yes
Core	Mini Project with Seminar			Yes
Audit –2	Personality development through life-enlightenment skills			
	Total	3		3

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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis (R19)

Program Code: 96　　　Program Name: M.Tech - Remote Sensing　　　Year: 2　　　Semester: 3

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Elective-V	a) MOOCS b Societal impact of Nanotechnology c) Nano Electronics	Yes		
Open Elective	a) Nanotechnology and its Engineering Applications b) Nano sensors and Applications c) NEMS and MEMS d) Nanotechnology for energy systems		Yes	
Dissertation	Dissertation Phase-I / Industrial Project (To be continued and Evaluated next Semester)*			Yes
	Total	1	1	1

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

Course wise Curriculum Analysis (R19)

Program Code: 06   Program Name: M.Tech - Remote Sensing   Year: 2   Semester: 4

Course code	Course name	Employability (Yes/No)	Entrepreneur ship (Yes/No)	Skill development (Yes/No)
Dissertation	Dissertation Phase II (Continued from III semester)			Yes
				1

Coordinator

Chairman, Board of Studies