

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**M.Tech (Nanotechnology) with effect from 2016**  
**Course Structure**

**I- SEMESTER**

S.No.	Code	Subject	T	L	P	Credits
1	NT101	Introduction to Nanomaterials	4	-	-	3
2	NT102	Synthesis of Nanomaterials and Properties	4	-	-	3
3	NT103	Nanomaterials Characterization	4	-	-	3
4	NT104	Thin film Science and Technology	4	-	-	3
5	Elective - I NT105	NT1051	4	-		3
		Surface Engineering of Nanomaterials				
		NT1052				
NT1053	Colloid and Interface Science					
6	Elective – II NT106	NT1061	4	-	-	3
		Nano Fluidics				
		NT1062				
NT1063	Carbon Nanostructures and Applications					
7	NT107	Synthesis and Characterization Lab		3	3	2
		Total	24	3	3	20

## II - SEMESTER

S.No.	Code	Subject	T	L	P	Credits	
1	NT201	Green Nanotechnology	4	-	-	3	
2	NT202	Nanoelectronics	4	-	-	3	
3	NT203	Nanotechnology for Energy Systems	4	-	-	3	
4	NT204	Multifunctional Nanomaterials	4	-	-	3	
5	Elective-I NT205	NT2051	4		-	3	
		NT2052					Nano Composites and Applications
		NT2053					Nano Photonics and Plasmonics
6	Elective-II NT206	NT2061	4	-	-	3	
		NT2062					MEMS and NEMS
		NT2063					Micro and Nano Mechanics
7	NT207	Mathematical Modeling and Simulation of Nano Materials Lab	-	3	3	2	
		Total	24	3	3	20	

<b>S.No</b>	<b>Name of the Subject</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	Seminar -1	-	-	2
2	Comprehensive Viva			2
3	Project part-1	-	-	16
	<b>Total</b>	-	-	<b>20</b>

<b>S.No</b>	<b>Name of the Subject</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	Seminar – 2	-	-	2
2	Project part-2			18
	<b>Total</b>	-	-	<b>20</b>

**III – SEMESTER**

**IV- SEMESTER**

