

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Program wise Curriculum Analysis(R19)

rogram		No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development	- Total Courses	reirenrage
03	M.Tech – Biotechnology	0	-	own development		
		9	1	7	17	85%

Coordinator

Chairman, Board of Studies

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: 03

Program Name: M.Tech -Biotechnology

Year: 1

Semester: 1

Course		rear;	- 3	emester: 1
code	Course name	Employability (Yes/No)	Entrepreneurship	Skill development
Core-2	Advanced Bioprocess Engineering Immune technology	Yes	(Yes/No)	(Yes/No)
Elective-1	1. Protein Engineering	yes		
	 Advances in Fermentation Technology & Downstream Tissue Engineering. 	Yes		
Elective-2	MedicalBiotechnology. Modeling, Simulation and Optimization of Bioprocess. Biological treatment of wastewater.	Yes		
Core	Research Methodology and IPR		Yes	
.ab-1	Advanced Bioprocess & Downstream processing Laboratory			Yes
ab-2	Immunotechnology Laboratory			
\udit –1	Audit Course –1			Yes
	Total	4	1	2



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Course wise Curriculum Analysis(R19)

Program Code: 03

Program Name: M.Tech - Biotechnology

Year: 1

Semester: 2

Course	Course name			emester: 2
code		Employability (Yes/No)	Entrepreneurship	Skill developmen
Core-3	Molecular Biology & Genetic Engineering	Yes	(Yes/No)	(Yes/No)
Core-4	Systems Biology			
Elective-3	1. Advances in Bioinformatics.	Yes		
	2. Advancements in Bioreactor Design.3. Agriculture Biotechnology	Yes		
Elective-4	 Membrane Biology & Signal Transduction. Biofuels & Bioenergy. Advanced Biostatistics. 	YES		
Lab-3	Molecular Biology & Genetic Engineering Laboratory			<u></u>
Lab-4	Bioinformatics laboratory			yes
Core	Mini Project with Seminar			yes
Audit –2	Audit Course –1			yes
	Total	4		
	1701			3



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Course wise Curriculum Analysis (R19)

Program Code: 03

Program Name: M.Tech -Biotechnology

Year: 2

Semester: 3

		rear.	2 Se.	meșter: 3
Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Elective-V	 Bioprocess Control and Instrumentation. Molecular Modelling and Drug Design. Bio-nanotechnology 	Yes	(103/110)	(res/No)
Open Elective	1. Business Analytics 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy			
Dissertation	Dissertation Phase-I / Industrial Project (To be continued and Evaluated next Semester)*			yes
-	Total	1		1

Program Code: 03

Program Name: M.Tech - Biotechnology

Year: 2

Semester: 4

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