

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

BIOTECHNOLOGY

(Applicable for batches admitted from 2016-2017)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

I Semester

S.No	Subject	L	P	C
1	Microbial Technology	4	--	3
2	Bioprocess Engineering	4	--	3
3	Bioinformatics	4	--	3
4	Immuno-technology	4	--	3
5	Elective-I 1. Cancer Biology 2. Protein Engineering 3. Fermentation Technology	4	--	3
6	Elective-II 1. Medical Biotechnology 2. Biological Treatment of Waste water 3. Green Energy Technology	4	--	3
7	Immunology & bio process Lab	--	3	2
Total Credits				20

II Semester

S.No	Subject	L	P	C
1	Recombinant DNA Technology	4	--	3
2	Metabolic Engineering	4	--	3
3	Bioreactor design	4	--	3
4	Stem cell Technology	4	--	3
5	Elective-III 1. Biopharmaceutical Technology 2. Membrane Biology and Signal Transduction 3. Biofuels	4	--	3
6	Elective-IV 1. Molecular modeling & Drug Design 2. Food Biotechnology 3. Bio-Nanotechnology	4	--	3
7	r-DNA Technology & Bioinformatics lab	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part – I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20