



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E. New Delhi & Govt. of Maharashtra Affiliated to R.T.M. Nagpur University)

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AICTE ID No. 5435581; DTE CODE No. 4123; UNIVERSITY CODE No. 278

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AN AUTONOMOUS INSTITUTE



CURRICULUM

UNDER GRADUATE PROGRAMME

B.TECH. BIOTECHNOLOGY

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. BIOTECHNOLOGY

Semester wise Credit distribution structure for Four Year B.Tech Program

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	08	10	--	--	--	--	--	--	18
Engineering Science Course		08	04	--	--	--	--	--	--	12
Programme Core Course (PCC)	Program Courses	--	02	11	08	12	11	08	--	52
Programme Elective Course (PEC)		--	--	--	--	03	08	03	06	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	02	02	04	02	04	--	14
Open Elective (OE) Other than a particular program		--	--	03	02	02	--	--	--	07
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	02	02	--	02	--	02	--	--	08
Ability Enhancement Course (AEC-0, AEC-02)	Humanities Social Science and Management (HSSM)	02	--	--	02	--	--	--	--	04
Entrepreneurship/Economics/Management Courses)		--	--	02	02	--	--	--	--	04
Indian Knowledge System (IKS)		--	02	--	--	-	-	--	--	02
Value Education Course (VEC)		--	--	02	02	--	--	--	--	04
Research Methodology	Experiential Learning Courses	--	--	--	--	--	--	03	--	03
Comm. Engg. Project (CEP)/Field Project (FP)		--	--	02	--	--	--	--	--	02
Project		--	--	--	--	--	--	04	12	16
Internship/OJT		--	--	--	--	--	--	--		
Co-curricular (CC)	Liberal Learning Courses	02	02	--	--	--	--	--	--	04
Total Credits	Total	22	22	22	20	21	23	22	18	170

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SCHEME OF EXAMINATION
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FIRST SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY1A1T	BSC	ASH	Basic calculus & differential equations	3	0	0	3	40	60	--	--	100
2	24UFY1C2T	BSC	ASH	Applied Physics	2	0	0	2	20	30	--	--	50
3	24UFY1C2P	BSC	ASH	Lab: Applied Physics	0	0	2	1	--	--	25	25	50
4	24UFY1D3T	ESC	CV	Engineering Mechanics	3	0	0	3	40	60	--	--	100
5	24UFY1D3P	ESC	CV	Lab: Engineering Mechanics	0	0	2	1	--	--	25	25	50
6	24UFY1B4T	ESC	ME	Computer Aided Graphics.	1	0	0	1	20	30	--	--	50
7	24UFY1B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1	--	--	25	25	50
8	24UFY1A5P	ESC	ME	Lab: Engineering Workshop	0	0	2	1	--	-	25	25	50
9	24UFY1B6T	AEC	ASH	Communication Skills	1	0	0	1	20	30	--	--	50
10	24UFY1B6P	AEC	ASH	Lab: Communication Skills	0	0	2	1	--	--	25	25	50
11	24UFY1A7P	SEC1	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	-	25	25	50
12	24UFY1A8T	BSC	ASH	Applied Chemistry	2	0	0	2	20	30	--	--	50
13	24UFY1A8P	BSC	ASH	Lab: Applied Chemistry	0	0	2	1	--	--	25	25	50
14	24UFY111P	CC1	ASH	Liberal Learning Course:Yoga and Meditation	0	1	2	2	--	-	50	--	50
	24UFY112P			Liberal Learning Course: Physical Education (Sports)									
	24UFY113P			Liberal Learning Course : Music									
	24UFY114P			Liberal Learning Course: National Service Scheme (NSS)									
				Total	12	2	16	22	160	240	225	175	800

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SECOND SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1.	24UFY2D1T	BSC	ASH	Advanced Calculus Fourier Series & Statistics	3	1	0	4	40	60	--	--	100
2.	24UFY2C2T	BSC	ASH	Material Science	2	0	0	2	20	30	--	--	50
3.	24UFY2C2P	BSC	ASH	Lab: Material Science	0	0	2	1	--	--	25	25	50
4.	24UFY2A8T	ESC	CSE	Applied Physical Chemistry	2	0	0	2	20	30	--	--	50
5.	24UFY2A8P	ESC	CSE	Lab: Applied Physical Chemistry	0	0	2	1	--	--	25	25	50
6.	24UFY2A4T	ESC	EE	Basics of Electrical & Electronics Engineering	3	0	0	3	40	60	--	--	100
7.	24UFY2A4P	ESC	EE	Lab: Basics of Electrical & Electronics Engineering	0	0	2	1	--	--	25	25	50
8.	24UFY226T	PCC	BIO	Fundamentals in Life Sciences	2	0	0	2	20	30	--	--	50
9.	24UFY2A5T	IKS	ASH	Indian Traditionalknowledge	2	0	0	2	20	30	--	--	50
10.	24UFY2A6P	SEC2	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
11.	24UFY211P	CC2	ASH	Liberal Learning Course: Creative Arts	0	1	2	2	--	--	50	--	50
	24UFY212P			Liberal Learning Course: Professional Skills									
	24UFY213P			Liberal Learning Course: Photography & Film Making									
	24UFY214P			Liberal Learning Course: Foreign Language (German Or French)									
				Total	14	3	10	22	160	240	150	100	650

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THIRD SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
					L	T	P	Credits	Theory		Practical		
									CE	ESE	CE	ESE	
1	24UBT301T	PCC	BIO	Biochemistry	3	0	0	3	40	60	-	-	100
2	24UBT301P	PCC	BIO	Lab: Biochemistry	0	0	2	1	-	-	25	25	50
3	24UBT302T	PCC	BIO	Microbiology	3	0	0	3	40	60	-	-	100
4	24UBT302P	PCC	BIO	Lab: Microbiology	0	0	2	1	-	-	25	25	50
5	24UBT303T	PCC	BIO	Bioprocess Calculations	3	0	0	3	40	60	-	-	100
6	24UBS403T	MDM	CHE	Multidisciplinary Minor: 01	2	0	0	2	20	30	-	-	50
7	24UOE3XXT	OE	BIO	Open Elective:01	3	0	0	3	40	60	-	-	100
8	24UBS306T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	-	-	50
9	24UBS307T	VEC	ASH	Universal Human Values	2	0	0	2	20	30	-	-	50
10	24UBT308P	FP	BIO	Field Project	-	-	4	2	-	-	50	-	50
				Total	18	0	8	22	220	330	100	50	700

Open Elective:01

S.N.	Course Code	Course Name
1	24UOE325T	Green Biotechnology & pollution Amendment
2	24UOE326T	Design Thinking for Biotechnology
3	24UOE327T	Environment and Sustainability

Multidisciplinary Minor: 01

S.N.	Course Code	Course Name
1	24UBS403T	Design Thinking

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FOURTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UBT401T	PCC	Biotech	Biochemistry Metabolism	3	0	0	3	40	60	-	-	100
2	24UBT401P	PCC	Biotech	Lab: Biochemistry Metabolism	0	0	2	1	-	-	25	25	50
3	24UBT402T		Biotech	Analytical Techniques	3	0	0	3	40	60	-	-	100
4	24UBT402P	PCC	Biotech	Lab: Analytical Techniques	0	0	2	1	-	-	25	25	50
5	24UBT403P	VSEC	Biotech	Skill Enhancement in Analytical Biotechnology	0	0	4	2	-	-	25	25	50
6	24UBS402T/ 24UCH404T	MDM	ASH	Multidisciplinary Minor:02	2	0	0	2	20	30	-	-	50
7	24UOEXXXT	OE	Biotech	Open Elective :02	2	0	0	2	20	30	-	-	50
8	24UBS407T	AEC	ASH	Professional Communication	2	0	0	2	20	30	-	-	50
9	24UBS408T	EMC	ASH	Entrepreneurship Development & Startup	2	0	0	2	20	30	-	-	50
10	24UBS409T	VEC	ASH	Professional Ethics for Engineers	2	0	0	2	20	30	-	-	50
				Total	16	0	8	20	180	270	75	75	600

Open Elective:02

S.N.	Course Code	Course Name
1	24UOE425T	Green Economy and Sustainability
2	24UOE426T	Bioterrorism & National Security
3	24UOE427T	Sustainable Waste Management

Multidisciplinary Minor:02

S.N.	Course Code	Course Name
1	24UBS402T	Biostatistics
2	24UCH404T	Energy Engineering

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FIFTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UBT501T	PCC	Biotech	Cell & Molecular Biology	3	0	0	3	40	60	-	-	100
2	25UBT501P	PCC	Biotech	Lab: Cell & Molecular Biology	0	0	2	1	-	-	25	25	50
3	25UBT502T	PCC	Biotech	Immunology	3	0	0	3	40	60	-	-	100
4	25UBT502P	PCC	Biotech	Lab: Immunology	0	0	2	1	-	-	25	25	50
5	25UBT503T	PCC	Biotech	Bioprocess Engineering	2	1	0	3	20	30	-	-	50
6	25UBT503P	PCC	Biotech	Lab: Bioprocess Engineering	0	0	2	1	-	-	25	25	50
7	25UBT5XXT	PEC	Biotech	Program Elective Course: 01	3	0	0	3	40	60	-	-	100
8	25UCH504T/ 25UCS508T	MDM	CSE /CH	Multidisciplinary Minor:03	3	0	0	3	40	60	-	-	100
9	25UCH504P/ 25UCS508P	MDM	CSE /CH	Lab: Multidisciplinary Minor:03	0	0	2	1	-	-	25	25	50
10	25UOE5XXT	OE	Biotech	Open Elective:03	2	0	0	2	20	30	-	-	50
				Total	16	1	8	21	200	300	100	100	700

Open Elective:03		
S.N.	Course Code	Course Name
1	25UOE525T	Biology For Engineers
2	25UOE526T	Renewable Energy
3	25UOE527T	Bioinformatics

Program Elective Course:01		
S.N.	Course Code	Course Name
1	25UBT521T	Stem Cell Technology
2	25UBT522T	Food & Nutrition
3	25UBT523T	Pharmaceutical Technology

Multidisciplinary Minor:03		
S.N.	Course Code	Course Name
1	25UCH504T	Chemical Reactor Design
2	25UCH504P	Lab: Chemical Reactor Design
3	25UCS508T	Data Structures with Python
4	25UCS508P	Lab: Data Structures with Python

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B. TECH. BIOTECHNOLOGY

SIXTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UBT601T	PCC	Biotech	Mass Transfer in iotechnology B	2	1	0	3	20	30	-	-	50
2	25UBT601P	PCC	Biotech	Lab: Mass Transfer in Biotechnology	0	0	2	1	-	-	25	25	50
3	25UBT602T	PCC	Biotech	Genetic Engineering	3	0	0	3	40	60	-	-	100
4	25UBT602P	PCC	Biotech	Lab: Genetic Engineering	0	0	2	1	-	-	25	25	50
5	25UBT603T	PCC	Biotech	Bioseparation Engineering	3	0	0	3	40	60	-	-	100
6	25UBT6XXT	PEC	Biotech	Program Elective Course :02	3	0	0	3	40	60	-	-	100
7	25UBT6XXP	PEC	Biotech	Lab: Program Elective Course: 02	0	0	2	1	-	-	25	25	50
8	25UBT6XXT	PEC	Biotech	Program Elective Course: 03	2	1	0	3	20	30	-	-	50
9	25UBT6XXP	PEC	Biotech	Lab: Program Elective Course :03	0	0	2	1	-	-	25	25	50
10	25UBT604P	MDM	Biotech	Multidisciplinary Minor:04	0	0	4	2	-	-	100	-	100
11	25UBT605P	VSEC	Biotech	Lab: Detection Techniques	0	0	4	2	-	-	25	25	50
				Total	13	2	16	23	160	240	225	125	750

Program Elective Course:02			Program Elective Course:03		
S.N.	Course Code	Course Name	S. N.	Course Code	Course Name
1	25UBT621T	Tissue Culture Technology	1	25UBT631T	Instrumentation & Bioprocess Control
2	25UBT621P	Lab: Tissue Culture Technology	2	25UBT631P	Lab: Instrumentation & Bioprocess Control
3	25UBT622T	Fermentation Technology	3	25UBT632T	Fluid Mechanic and solid Handling
4	25UBT622P	Lab: Fermentation Technology	4	25UBT632P	Lab: Fluid Mechanic and solid Handling
5	25UBT623T	Bioprocess Equipment Design	5	25UBT633T	Heat Transfer in Biotechnology
6	25UBT623P	Lab: Bioprocess Equipment Design	6	25UBT633P	Lab: Heat Transfer in Biotechnology

Multidisciplinary Minor:04		
S.N.	Course Code	Course Name
1	25UBT604P	Employability Enhancement Skills


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SCHEME OF EXAMINATION
B. TECH. BIOTECHNOLOGY

SEVENTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CEESE	CE	ESE		
1	26UBT701T	PCC	Biotech	Bioinformatics	3	0	0	3	40	60	-	-	100
2	26UBT701P	PCC	Biotech	Lab: Bioinformatics	0	0	2	1	-	-	25	25	50
3	26UBT702T	PCC	Biotech	Data Analysis & Simulation	3	1	0	4	40	60	-	-	100
4	26UBT702P	PCC	Biotech	Lab: Data Analysis & Simulation	0	0	2	1	-	-	25	25	50
5	26UBT703T	RM	Biotech	Research Methodology	2	0	0	2	20	30	-	-	50
6	26UBT7XXT	PEC	Biotech	Program Elective Course: 04	3	0	0	3	40	60	-	-	100
7	26UCH706T/ 26UCS709T	MDM	CSE/CH	Multidisciplinary Minor :05	3	0	0	3	40	60	-	-	100
8	26UCH706P/ 26UCS709P	MDM	CSE/CH	Lab : Multidisciplinary Minor: 05	0	0	2	1	-	-	25	25	50
9	26UBT704P	Project	Biotech	Mini Project	0	0	8	4	-	-	50	50	100
				Total	14	1	14	22	180	270	125	125	700

Multidisciplinary Minor: 05			
S.N .	Course Code	BOS/ Dept	Course Name
1	26UCH706T	CH	Optimization of Chemical Engineering System
2	26UCH706P	CH	Lab: Optimization of Chemical Engineering System
3	26UCS709T	CSE	Data Science
4	26UCS709P	CSE	Lab: Data Science

Program Elective Course :04		
S.N .	Course Code	Course Name
1	26UBT721T	Biosimilar Technology
2	26UBT722T	Biomaterials
3	26UBT723T	Industrial Safety Management

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B. TECH. BIOTECHNOLOGY

EIGHTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UBT8XXT	PEC	Biotech	Program Elective Course: 05 (MOOC)*	3	0	0	3	100	-	-	-	100
2	26UBT8XXT	PEC	Biotech	Program Elective Course:06 MOOC)*	3	0	0	3	100	-	-	-	100
3	26UBT801P	Internship/ OJT	Biotech	Internship/ Project	0	0	24	12	-	-	150	150	300
				Total	6	0	24	18	200	-	100	100	500

*The list for MOOC Courses will be shared at the beginning of semester.
End Semester Examination will be conducted by Priyadarshini College of Engineering.

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SCHEME OF EXAMINATION
B. TECH. BIOTECHNOLOGY

Annexure-1
Basket of Multidisciplinary Minor Subjects
Basket : Data Science

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1.	III	24UBS403T	CSE	Design Thinking	2
2.	IV	24UBS402T	ASH	Biostatistics	2
3.	V	25UCH504T	CSE	Data Structures with Python	3
4.	V	25UCH504P	CSE	Lab Data Structures with Python	1
5.	VI	25UBT604P	BT	Employability Enhancement Skills	2
6.	VII	26UCH706T	CSE	Data Science	3
7.	VII	26UCH706P	CSE	Lab Data Science	1
Total					14

Basket : Chemical Engineering

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UBS403T	CH	Design Thinking	2
2	IV	24UCH404T	CH	Energy Engineering	2
3	V	25UCS508T	CH	Chemical Reactor Design	3
4	V	25UCS508P	CH	Lab: Chemical Reactor Design	1
5	VI	25UBT604P	BT	Employability Enhancement Skills	2
6	VII	26UCS709T	CH	Optimization of Chemical Engineering System	3
7	VII	26UCS709T	CH	Lab: Optimization of Chemical Engineering System	1
Total					14

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE325T	Green Biotechnology & pollution Amendment
2.	24UOE326T	Design Thinking for Biotechnology
3.	24UOE327T	Environment and Sustainability

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	24UOE425T	Green Economy and Sustainability
2.	24UOE426T	Bioterrorism & National Security
3.	24UOE427T	Sustainable Waste Management

Semester V

Sr. No.	Course Code	Course Name OE:03
1.	25UOE525T	Biology For Engineers
2.	25UOE526T	Renewable Energy
3.	25UOE527T	Bioinformatics

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Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

Sr. No.	Course Code	Course Name PEC-01
1.	25UBT521T	Stem Cell Technology
2.	25UBT522T	Food & Nutrition
3.	25UBT523T	Pharmaceutical Technology

Semester-VI

Sr. No.	Course Code	Course Name PEC-02	Course Code	Course Name PEC-03
1.	25UBT621T	Tissue Culture Technology	25UBT631T	Instrumentation & Bioprocess Control
2.	25UBT621P	Lab: Tissue Culture Technology	25UBT631P	Lab: Instrumentation & Bioprocess Control
3.	25UBT622T	Fermentation Technology	25UBT632T	Fluid Mechanic and Solid Handling
4.	25UBT622P	Lab: Fermentation Technology	25UBT632P	Lab: Fluid Mechanic and Solid Handling
5.	25UBT623T	Bioprocess Equipment Design	25UBT633T	Heat Transfer in Biotechnology
6.	25UBT623P	Lab: Bioprocess Equipment Design	25UBT633P	Lab: Heat Transfer in Biotechnology

Semester-VII

Sr. No.	Course Code	Course Name PEC-04
1.	26UBT721T	Biosimilar Technology
2.	26UBT722T	Biomaterials
3.	26UBT723T	Industrial Safety Management

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Annexure-4

B. Tech. Honors in Advances in Biotechnology

Sr.No.	Sem	Course Code	Course Name	Contact Hours				Marks				Total Marks
								Theory		Practical		
				L	T	P	Credits	CE	ESE	CE	ESE	
1.	IV	24UHSBT4T	Protein Folding and Molecular Interactions	2	0	0	2	20	30	-	-	50
2.	IV	24UHSBT4T	Proteomics and Metabolomics	2	0	0	2	20	30	-	-	50
3.	V	25UHSBT5T	Advanced Immunology and Vaccine Development	2	0	0	2	20	30	-	-	50
4.	V	25UHSBT5T	Drug Delivery Systems using Nanomaterials	2	0	0	2	20	30	-	-	50
5.	VI	25UHSBT6T	AI and Machine Learning in Biotechnology	3	0	0	3	40	60	-	-	100
6.	VI	25UHSBT6P	Lab :AI and Machine Learning in Biotechnology	0	0	2	1	-	-	25	25	50
7.	VII	26UHSBT7T	DNA Fingerprinting and Forensic Analysis	3	0	0	3	20	30	-	-	50
8.	VII	26UHSBT7T	Genome Editing Technologies	3	0	0	3	20	30	-	-	50
			Total	17	0	2	18	160	240	25	25	450

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Annexure-5

B. Tech. Double Minor (Multidisciplinary)
Fundamentals of Bioengineering

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UDMBT4T	PCC	BT	Introduction to Biotechnology	3	0	0	3	40	60	-	-	100
2	IV	24UDMBT4P	PCC	BT	Lab: Introduction to Biotechnology	0	0	2	1	-	-	25	25	50
3	V	25UDMBT5T	PCC	BT	Fundamental of Biochemistry	3	0	0	3	40	60	-	-	100
4	V	25UDMBT5P	PCC	BT	Lab: Fundamental of Biochemistry	0	0	2	1	-	-	25	25	50
5	VI	25UDMBT5T	PCC	BT	Introduction to Immunology	3	0	0	3	40	60	-	-	100
6	VI	25UDMBT5P	PCC	BT	Lab: Introduction to Immunology	0	0	2	1	-	-	25	25	50
7	VII	26UDMBT5T	PCC	BT	Basics of Molecular Biology and Genetic Engineering	3	0	0	3	40	60	-	-	100
8	VII	26UDMBT5P	PCC	BT	Lab: Fundamental of Bioprocess Engineering	3	0	0	3	40	60	-	-	100
					Total	15	0	6	18	200	300	75	75	650

BOS Chairman
Dr. M. A. Soni

Dean Academics
Dr. (Mrs.) S. N. Rao

Principal
Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. BIOTECHNOLOGY

Exit Scheme

Certificate Course After B.Tech First Year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCBTT	PCC	Biotech	Introduction to Biotechnology	4	0	0	4	40	60	-	-	100
2	24UECCBTP	PCC	Biotech	Skill Based Lab/Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

Diploma Course After B.Tech Second Year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCBTT	PCC	Biotech	Advance Biotechnology	4	0	0	4	40	60	-	-	100
2	25UEDCBTP	PCC	Biotech	Skill Based Lab/Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

B.Vocational Course After B.tech Third Year (08 Credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVBTT	PCC	Biotech	Applied Biotechnology	4	0	0	4	40	60	-	-	100
2	26UEBVBTP	PCC	Biotech	Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational
BT: Biotechnology

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