FACULTY OF ENGINEERING & TECHNOLOGY

Proposed Teaching Scheme, Examination Scheme & Syllabus

of

B. Tech Biotechnology

(Semester-VII & VIII)

Effective from academic year 2025-26

GANPAT UNIVERSITY

U.V.PATEL COLLEGE OF ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

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GANPAT UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

TEACHING AND EXAMINATION SCHEME

Programme	Bachelor of Technology	Branch/Spec.	Biotechnology
Semester	VIII		
Effective from Academic Year	2025-26	Effective for the batch Admitted in	Jul-22

Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)					
		Credit						Hours (per week)						Theory			Practical		
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total						
2BM8101	Internship/ Project	0	0	0	15	0	15	0	0	0	30	0	30	0	0	0	200	200	400
Total		**15**						**30**						**400**					

Audit Courses:
- The online courses based on MOOCS are to be considered as an Audit Course.
* To be decided by University

Note:
Version 1.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision) L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work CE= Continuous Evaluation, SEE= Semester End Examination.

GANPAT UNIVERSITY									
FACULTY OF ENGINEERING & TECHNOLOGY									
Programme	Bachelor of Technology					Branch/Spec.	Biotechnology		
Semester	VIII					Version	1.0.0.0		
Effective from Academic Year			2025-26			Effective for the batch Admitted in			July 2022
Subject code	2BT8101		Subject Name			Major Project/Internship			
Teaching scheme						Examination scheme (Marks)			
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	-	-	15	-	15	Theory	-	-	-
Hours	-	-	30	-	30	Practical	200	200	400
Pre-requisites									

Course Outcomes	
On successful completion of the course, the students will be able to:	
CO1	**Identify** technical problems related to course, societal need, industry and research etc. by applying the acquired knowledge.
CO2	**Understand** effective tools and techniques for designing the project/internship.
CO3	**Apply** various technical tools and techniques for real life problem solution.
CO4	**Analyse** the problem and select parameters to be designed/improved.
CO5	**Achieve** accuracy when using the parts, instruments, and methods associated with and experiment.
CO6	**Effective** project report writing skills with modern IT tools

Theory syllabus

Unit	Content	Hrs.
	• Students have to do the major project individually/in the team. • A Student is required to select a major project/internship on any relevant topic from the curriculum, recent trends in technology, system/process analysis, construction/fabrication/production techniques, design methodologies etc. • The student(s) shall do major project/internship at relevant academic/R&D/industry. • Student is required to give 02 internal evaluations/presentations on his/her major project/internship during the semester as per the schedule. • At the end of semester student will be required to submit a detailed project/internship report with internship completion certificate. • A student has to defend his/her work before the examiners at the end of semester. • Each student/ Each group should be assigned the internal guide. • Student(s) has/have to submit the detail of industry external guide(s). • Internal and external guide have to help the student(s) to identify the project and guide the student(s) in carrying out the project. • External guide(s) should give feedback about progress of project work, performance of students in evaluation components. • As per guidelines 100% attendance is necessary in major project/internship. However, in genuine cases students can take a maximum of six leaves with prior permission and approval from guide and HoD. Under those circumstances the student is required to compensate for the leave taken by working on holidays or overtime.	

Mapping of CO with PO and PSO:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	3	3	2	3	2	3	0	1	1	3	2	3	2	1	0
CO2	3	3	2	3	2	3	0	1	1	3	2	3	2	2	1
CO3	3	2	3	2	2	3	3	1	2	0	2	3	3	2	1
CO4	3	2	3	2	2	3	3	1	2	0	2	3	2	2	1
CO5	3	2	3	3	3	3	2	1	2	1	2	3	1	1	0
CO6	3	3	2	2	3	2	2	2	3	3	2	2	1	1	1