

PARUL UNIVERSITY

R/Notification-1402/2024-25

Office of the Registrar
December 17, 2024

NOTIFICATION

Sub: Revision in Course structure of semester 1st to 6th of Diploma in Biotechnology programme and Syllabus of 1st and 2nd semester for the Curriculum year 2024 – 25

Ref: (i) Proceedings of the Eighteenth Meeting of the Governing Body held on December 2, 2024

(ii) Orders of the Provost

PREAMBLE:

Dean, Faculty of Engineering & Technology proposed Revision in Course structure of semester 1st to 6th of Diploma in Biotechnology programme and Syllabus of 1st and 2nd semester for the Curriculum year 2024 – 25 during the Eighteenth Meeting of the Governing Body held on December 2, 2024 which was approved by the Governing Body. Hence, the Order.

ORDER:

The revised Course structure of semester 1st to 6th of Diploma in Biotechnology programme for the Curriculum year 2024 – 25 is enclosed in the annexure.

Dean, FE & T is informed to arrange to upload syllabus of semester 1st to 6th of Diploma in Biotechnology programme for the Curriculum year 2024 – 25 on MIS.

By Order


Registrar

To,

1. Dean, Faculty of Engineering & Technology and Principal, PIET
2. Principal, PIT/PPI/PIET (DS)

Copy to,

- 1) The Controller of Examinations
- 2) Director (IQAC)
- 3) PUMIS Coordinator

Submitted to,

- 1) The President
- 2) The Provost

ANNEXURE

Faculty of Engineering and Technology - PIT-DS		
Diploma in Biotechnology		
Semester - 1		
S. No.	Name of the Subject	Credits
1	Applied Chemistry	3
2	Applied Chemistry Lab	1
3	Environmental Science	0
4	Introduction to IT Systems Lab	2
5	Introduction to Biotechnology	2
6	Fluid Mechanics	2
7	Fluid Mechanics Lab	1
8	Mathematics – I	3
9	Basic Physics Lab	1
10	Basic Physics	3
11	Communication Skills - I	1
Total		19
Semester - 2		
S. No.	Name of the Subject	Credits
12	Organic Chemistry	4
13	Organic Chemistry lab	1
14	Engineering Workshop Practice	2
15	Molecular Biology	3
16	Basic of Chemical Engineering Thermodynamics	3
17	Basics of Immunology	2
18	Fundamentals of Microbiology	2
19	Fundamentals of Microbiology Lab	1
20	Mathematics-II	4
21	Communication Skills -II	1
Total		23
Semester - 3		
S. No.	Name of the Subject	Credits
22	Entrepreneurship and Start-ups	1
23	Biochemical Calculations	4
24	Life science-I	4
25	Bioenergetics	4
26	Bioprocess Engineering	4
27	Bioprocess Engineering Lab	1
28	Professional Communication and Critical Thinking	1
Total		19
Semester - 4		
S. No.	Name of the Subject	Credits
29	Essence of Indian Knowledge and Tradition	0
30	Cell Biology	3
31	Analytical Instruments for Biotechnology	3
32	Analytical Instruments for Biotechnology Lab	1
33	Fundamentals of Process Engineering	3

34	Basics of Food Processing	3
35	Basics of Food Processing Lab	1
36	Life Science-II	4
37	Minor Project	1
38	Employability Skills	1
Total		20
Semester - 5		
S. No.	Name of the Subject	Credits
39	Biochemistry	4
40	Biochemistry Lab	1
41	Bioinformatics	4
42	Bioinformatics Lab	1
43	Environmental Biotechnology	3
44	Bioethics, IPR and Biosafety	3
45	Major Project-I	6
46	Summer Internship	2
Total		24
Semester - 6		
S. No.	Name of the Subject	Credits
47	Indian Constitution	0
48	Plant Tissue Culture	4
49	Plant Tissue Culture Lab	1
50	Genetic Engineering	4
51	Genetic Engineering Lab	1
52	Major Project-II	6
53	Program Elective - 01 (Compulsory Subjects :1)	3
54	Program Elective - 02 (Compulsory Subjects :1)	3
Total		22
Semester – 6 (Program Elective 01)		
1	Metabolic Engineering	3
2	Entrepreneurship in Biotechnology	3
Semester – 6 (Program Elective 02)		
1	Biomaterials and Implants	3
2	Genomics and Proteomics	3
Grand Total		127