

PARUL UNIVERSITY

Office of the Registrar
January 23, 2025

R/Notification - 1477/2024-25

NOTIFICATION

Sub: - Revised Syllabus and Course Structures of B.Sc. in Biofarming (Honours)/ B.Sc. in Biofarming (Honours with Research) and M.Sc. in Biofarming in Faculty of Applied Sciences from a.y. 2024-25.

**Ref: (i) Proposal submitted by Dean, Faculty of Applied Sciences and Principal, PIAS
(ii) Approval of the Provost**

PREAMBLE:

Dean, Faculty of Applied Sciences proposed revised Syllabus and Course Structures of B.Sc. in Biofarming (Honours)/ B.Sc. in Biofarming (Honours with Research) and M.Sc. in Biofarming in Faculty of Applied Sciences from a.y. 2024-25 to the Provost for his consideration and approval. The Provost has approved the proposal. Hence, the order.

ORDER:

Revised Course structures of B.Sc. in Biofarming (Honours)/ B.Sc. in Biofarming (Honours with Research) and M.Sc. in Biofarming are enclosed in the annexure.

Dean, Faculty of Applied Sciences shall arrange to upload syllabus and course structure of "B.Sc. in Biofarming (Honours)"/ "B.Sc. in Biofarming (Honours with Research)" and "M.Sc. in Biofarming" on MIS.

This is subject to the approval of the Academic Council and the Governing Body.

By Order


Registrar

To,
Dean, Faculty of Applied Sciences and Principal, PIAS

Copy to,

- The Controller of Examinations
- Director (IQAC)
- PUMIS Coordinator

Submitted to,

- The President
- The Provost

ANNEXURE

Course Structure of B.Sc. in Biofarming (Honours)/ B.Sc. in Biofarming (Honours with Research)

Semester-1

Course No.	Subject Name	Credit
1	MIL-1	2
2	VAC-1 (Climate change & sustainable environment)	2
3	SEC-1 (Laboratory best practices)	2
4	Cell Biology	4
5	Basics of Plant Physiology	4
6	Lab-1- Cell Biology	2
7	Lab-2- Plant Physiology	2
8	University Elective - 1	4
	Total	22

Semester-2

Course No.	Subject Name	Credit
9	MIL-2	2
10	SEC-2	2
11	VAC-2	2
12	Plant Biochemistry	4
13	University Elective - 2	4
14	Fundamentals of Microbiology	4
15	Lab-1- Plant Biochemistry	2
16	Lab-2-Fundamentals of Microbiology	2
	Total	22

Semester-3

Course No	Subject Name	Credit
17	MEL-1	2
18	VAC-3 (IPDC including history and culture of India and IKS - 2)	2
19	SEC-3	2
20	Plant Agronomy	4
21	University Elective 3	4
22	Soil Science	4
23	Lab-1- Plant Agronomy	2
24	Lab 2- Soil Science	2
	Total	22

Semester-4

Course No.	Subject Name	Credit
25	MEL-2	2
26	[SEC-5 (Bioinstrumentation)	2
27	Entomology	4
28	Positive mental health	2
29	Principles of plant genetics	4
30	Biochemical pathways	4
31	Lab-1-Entomology	2
32	Lab-2- Plant Genetics	2
	Total	22

Semester-5

Course No.	Subject Name	Credit
33	Plant anatomy and physiology	4
34	Developmental Biology	4
35	Genetic Engineering	4
36	SEC - Digital Literacy	2
37	Nutrient Management	4
38	Lab-1- Plant Anatomy and physiology	2
39	Lab-2-Genetic engineering	2
	Total	22

Semester- 6

Course No.	Subject Name	Credit
40	Plant Biomolecules	4
41	Agro Chemicals	4
42	Nutritional Biochemistry	4
43	Professional ethics and communication	2
44	Lab-1 Plant biochemistry	2
45	Lab-2-Nutritional Biochemistry	2
46	Internship/Mini Project	4
	Total	22

Semester 7 (Hons)

Course No.	Subject Name	Credit
47	Research Methodology	4
48	Agriculture Marketing	4
49	Horticulture Production	4
50	Organic Farming	2
51	Biopesticides	2
52	On Job Training	6
	Total	22

Semester 7 (Hons Research)

Course No.	Subject Name	Credit
47	Research Methodology	4
48	Agriculture Marketing	4
49	Horticulture Production	4
50	Organic Farming	2
51	Biopesticides	2
52	Research	6
	Total	22

Semester 8 (Hons)

Course No.	Subject Name	Credit
53	Analytical Techniques for Soil, Water and Plants	3
54	Bioethics and IPR	3
55	Post Harvest Management	3
56	Integrated Pest Management	3
57	Bioproduction Technology of Crops	4
58	On Job Training	6
	Total	22

Semester 8 (Hons Research)

Course No.	Subject Name	Credit
53	Analytical Techniques for Soil, Water and Plants	3
54	Bioethics and IPR	3
55	Post Harvest Management	3
56	Integrated Pest Management	3
57	Bioproduction Technology of Crops	4
58	Research	6
	Total	22

Course Structure of M.Sc. in Biofarming

Semester - 1

Course No.	Subject	Credit
1	Fundamentals of Agronomy	4
2	Fundamentals of Soil Science	3
3	Fundamentals of Entomology	3
4	Fundamentals of Plant Pathology	3
5	Fundamentals of Crop Physiology and Plant Biochemistry	3
6	Agricultural Extension and Entrepreneurship Development	3
7	Communication Skills and Personality Development	3
8	Research Methodology	2
9	Lab-1	2
10	Lab-2	2
	Total	28

Semester- 2

Course No.	Subject	Credit
11	Principles and Practices in Organic Farming	3
12	Soil Fertility and Nutrient Management in Organic Farming	3
13	Organic Production Technology of Field Crops	3
14	Organic Horticulture Production	3
15	Pest of crops and their Management	3
16	Diseases of crops and their management	3
17	Introduction to Agrochemicals	2
18	Agricultural Marketing and Value Chain Management	3
19	Lab-1	2
20	Lab-2	2
	Total	27

Semester-3

Course No.	Subject	Credit
21	Bio pesticides and Bio agents in Organic Farming	3
22	Soil Health Management in Organic Farming	3
23	Analytical techniques for Soil, Water and Plant Analysis	4
24	Organic Certification Standards and Regulation	3
25	Microbes in Organic Farming	3
26	Post Harvest Management of Organic Produce	2
27	Integrated Pest and Disease Management in Organic Farming	3
28	Lab-1	2
29	Lab-2	2
	Total	25

Semester-4

Course No.	Subject	Credit
24	Seminar	2
25	Research / Dissertation	20
	Total	22