

PARUL UNIVERSITY

R/Notification-1468/2024-25

Office of the Registrar
January 20, 2025

NOTIFICATION

Sub: Syllabus and course structure for M.Sc. (Bioinformatics and Computational Biology) in Faculty of Applied Sciences in the university from AY 2024-25

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

PREAMBLE:

Dean, Faculty of Applied Sciences, for a new programme viz, M.Sc. (Bioinformatics and Computational Biology) started in Faculty of Applied Sciences in the university from the a.y. 2024-25, submitted course structure of the said programme to the Provost. The Provost has approved the proposal. Hence, the Order.

ORDER:

A new PG programme viz, M.Sc. (Bioinformatics and Computational Biology) in Faculty of Applied Sciences is started from AY 2024-25.

The course structure of M.Sc. (Bioinformatics and Computational Biology) is enclosed in the Annexure.

Dean, Faculty of Applied Sciences shall arrange to upload syllabus, teaching and examination scheme of the said programme on MIS.

By Order


Registrar

To,

Dean, Faculty of Applied Sciences and Principal, PIAS

Copy to,

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

Submitted to,

- 1) The President
- 2) The Provost

ANNEXURE

Semester- 1

Course No	Subject	Credit
1	Molecular Biology	4
2	Mathematics and Biostatistics	4
3	Introduction to Computing and Networking	4
4	Systems Biology	4
5	Basic Programming (Perl/R/C/Python)	4
6	Elective	4
7	Lab-I Molecular Biology	2
8	Lab-II Basic Programming (Perl/R/C/Python)	2
	Total	28

Semester-2

Course No	Subject	Credit
9	Computational Biology	4
10	Biological Sequence Analysis - I	4
11	Database Management System and Data Mining	4
12	Advanced Programming	4
13	Machine Learning- I	4
14	Elective	4
15	Lab-I Advanced Programming	2
16	Lab-II Computational Biology and Biological Sequence Analysis	2
	Total	28

Semester-3

Course No	Subject	Credit
17	Biological Sequence Analysis - II	4
18	Molecular Modelling and CADD	4
19	Machine Learning - II	4
20	Elective Subject	4
21	Research/ Dissertation	10
	Total	26

Semester-4

Course No	Subject	Credit
22	Research/Dissertation	20
	Total	20