

Response to 1.2.2 DVV-4) Structure of the program: M.Sc. Bioinformatics

Semester - I

Type	Code and Nomenclature	Credits
Major	BIN 415 Basics of Biochemistry	2
	BIN 416 Cell and Molecular Biology	2
	BIN 417 Statistical Methods	4
	BIN 418 Linux and Shell Scripting Lab	2
Minor	BIN 419 Sequence Analysis	2
	BIN 420 Biomolecular Structure Analysis	2
Vocational	BIN 421 Python Programming Lab I	2
	BIN 422 Sequence and Structure Analysis Lab	2
IKS	University wide	2

Semester - II

Major	BIN 465 Computer Aided Drug Discovery	4
	BIN 465 Computational Genomics and Proteomics	4
	BIN 467 Algorithms in Bioinformatics	4
Minor	BIN 468 Fundamentals of Machine Learning	2
	BIN 469 Fundamentals of Molecular Dynamics simulations	2
Vocational	BIN 470 Python Programming Lab II	2
IKS	BIN 471 History of Science in India	2

Semester - III

Major (Any for credits equivalent to 4)	BIN 515 Biological Databases and Management System	2
	BIN 516 Systems Biology and Biological Networks	4
	BIN 517 Essentials of Immunology	2
Minor	BIN 518 Research Methodology	4
Vocational	BIN 519 Computer Aided Drug Design Lab	2
	BIN 520 Systems Biology Lab	2
Review	BIN 521 Review of Literature and research proposal	8

Semester - IV

Major (Any for credits equivalent to 4)	BIN 565 Statistical Genetics	2
	BIN 566 Molecular Evolution	4
	BIN 567 Introduction of Synthetic Biology	2
Minor	BIN 568 Academic Writings	2
	BIN 569 Paper publication/ seminar/ conference	2
Vocational	BIN 570 Molecular Dynamics Simulation Lab	2
	BIN 571 Data Analysis Lab	2
Dissertation	BIN 595 Dissertation	8
Total		80

प्रदेशिक / Director

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