



# AIMIT

ST. ALOYSIUS INSTITUTE OF MANAGEMENT  
& INFORMATION TECHNOLOGY

**ST. ALOYSIUS COLLEGE** (Autonomous)

## Course Curriculum

**Master of Science –Bioinformatics - Course from AIMIT – Center for Bioinformatics**  
Supported by Dept of Biotechnology, Ministry of Science & Technology  
Govt of India, New Delhi

### I SEMESTER

### II SEMESTER

P521.1	Bioinformatics and Biological Databases	P 521.2	Proteomics and Genomics
P522.1	Computational & Structural Biology	P 522.2	Molecular Mechanics and Simulation
P523.1	Metabolism and Immunology	P 523.2	Biostatistics
P524.1	Cell and Molecular Biology	P 524.2	PERL- CGI & Bioperl Programming
P525.1	Programming : Java & Databases for Bioinformatics	P 525.2	Bioethics and Biosafety (Open Elective)
P526.1	Computational Biology & Bioinformatics Lab	P 526.2	Molecular Mechanics & Genomics Lab
P527.1	Programming: Java DBMS & Lab	P 527.2	Programming : PERL – CGI & Biostatics Lab
-----	Research Project - I	-----	Research Project - II



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#### III SEMESTER

#### IV SEMESTER

P521.3	Synthetic Biology and Drug Design	P521.4	Industry Internship / Dissertation
P522.3	Systems Biology & Metabolic Engineering	Add On Courses/ Activities	
		1	Wet Lab Experiments at Applied Biology Research Lab
P523.3	Bioinspired Computing and Data Mining	2	Foundations of IT Certificate Course
		3	Organizing Workshops, Seminars, Conferences
		4	Paper Presentation at National / International Level
		5	Active participation in 165 Centers BTIS Net in India
		6	Projectship / Internship through DBT, New Delhi
P524.3	Programming with Python		
P525.3	Genetic Counseling (Open Elective)		
P526.3	Systems Biology and Metabolic Engineering Lab		
P527.3	Programming : Python and Data Mining Lab		
-----	Research Project - III		