

School of Computational & Integrative Sciences

Course Structure

M.Sc in Computational and Integrative Sciences

2nd Semester (Six Courses and one practical course)

Revised M.Sc in Computational & Integrative Sciences courses	Credits		Remarks
	CB	CS	
IT 411 Mathematics-II	3		(Introduction and application of differential equations) Compulsory
IT 412 Topics in statistics and Linear Algebra	3		Compulsory
IT 415 Graphs, Networks and Concepts of system Sciences			Compulsory
IT 421 Numerical Techniques and Programming Lab	3		Course replaced with course from third semester
	3		
IT 413 Advanced topics in Physical Sciences		3	Earlier common. Now only for CS Stream. Non-credit for CB stream
IT 465 Stochastic Process : Theory and Applications		3	New Course. CS stream
IT 451 N Computational Structural Biology	3		CB Stream. Shifted from third semester*
IT 453 N Biological Sequence Analysis	3		CB Stream. Shifted from third semester*
	18		<i>* One non-credit to be prescribed from the other stream</i>

M.Sc (4th Semester)

Revised M.Sc in Computational & Integrative Sciences courses	Credits		Remarks
	CB	CS	
Elective 1	3		Electives from list of optional on advice of Course advisory committee. Maybe taken in third or fourth semester, to complete by fourth semester
Elective 2	3		
IT 431 Research Project	9		

PG Diploma Course

2nd Semester

ITPR1	Project	6 Credits
IT717	Algorithms and Practical Implementation in Bioinformatics (BioAlgorithms)	4 Credits

Elective/Optional Courses

1	IT775	Advanced Computational Methods for Optimizations (ACMO)	3 Credits
2	IT766	Genomics : Concepts, Methods and Applications	3 Credits
3	IT717	Algorithms Practical Implementation in Bioinformatics (BioAlgorithms)	4 Credits