

## Bioinformatics “A” level (BI-A) Syllabus:

### Semester-I

Module	Category	Subject
BI-A1-R0	Core	Foundation Course in Modern Biology
BI-A2-R0	Core	Basic Bioinformatics
BI-A3-R0	Core	IT Tools and Application
BI-A4-R0	Core	Programming and Problem solving through C
BI-A5-R0	Core	Basic Mathematics, Probability and Statistics

### Semester-II

Module	Category	Subject
BI-A6-R0	Core	Introduction to Database and Web enabling technologies
BI-A7-R0	Core	PERL/PYTHON Programming and applications to Bioinformatics
BI-A8-R0	Core	Introduction to Object Oriented programming through JAVA
BI-A9-R0	Core	Elements of protein Sequence, Structure and modelling
BI-A10-R0	Core	Basics of Genomics and Proteomics

PR-1 Practical I (common to O-Level Basic Bioinformatics )

PR-2 Practical II on PERL(BI-A7-R0) and Java(BI-A8-R0)

BI-PJ Project (On Bioinformatics)

**Exemptions:** Students who have qualified BI-O-R0 would get exemption in the following subjects:-

BI-A1-R0

BI-A2-R0

BI-A3-R0

BI-A4-R0,

If the candidate has qualified equivalent paper at BI-O level  
(Programming and Problem solving through C)

PR-1