Post Graduate Diploma in Bio Informatics

Program Overview

Department of Genetics in collaborative with Innobiome Technologies is offering one-year PG Diploma Program in Bio Informatics. This program helps exploiting resources and expertise to an optimum extent needed to benefit the students undertaking this program.

Program Highlights

- MoU with Innobiome Technologies which offers training programs, technical services and collaborative research programs to the Academia.
- Course structure designed to meet the requirements of industries and research sectors in the field of Bioinformatics.
- Classes taken by scientific experts and professionals in the field of Bioinformatics and Computational Biology.
- Three-month industrial internship will be provided to the selected candidates which will help the candidates to get industrial exposure.

Program Objectives

This course is expected to bring direct benefit to students of this university, strengthening on going University research in the area of life sciences:

- To develop an expert manpower to help bioinformatics industry, academia and thereby society.
- Protein structure prediction and gene prediction methods.
- Drug designing and discovery.
- Create an advanced research facility to carry out research in frontier areas of bioinformatics and computational biology.
- Microbial taxonomical studies.

Program Outcomes

- Marvelous career in the drug designing and computation biology Hone your skills to get placed in the reputed industrial R&D labs.
- Excels your Bioinformatics research skills (Drug designing, Protein modelling, Phylogenic analysis etc.)
- Add on benefit for the students seeking higher studies abroad.

Contact

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Eligibility Criteria

B.Sc./M.Sc./ B. Tech/ M. Tech /B. Pharma/M. Pharma/Ph.D. in Biological Sciences, Biotechnology, Pharmaceutical Sciences.

Selection Procedure- Academic Merit

Course Details

Duration of the course: ONE YEAR (Two Semesters)

Timings of the sessions

- Monday to Friday: 6.00 pm to 8.00 pm (Online)
- Saturday: 09.30 am to 1.00 pm (Offline)

Course Structure

Semester-I	
Course Title	**Credits**
Intro to Informatics (Four units per paper for All)	4
Databases	4
Cell Biology	4
Biological Chemistry	4
PRACTICALS	
Lab 1 (1,2,3 sessions) Basic Computers I	1
Lab 1 (4,5,6 sessions) Basic Computers II	1
Lab 1 (7,8,9 sessions) Databases I	1
Lab 1 (10,11,12,13 Sessions) Databases II	1
Total	**20**

Semester- II	
Course Title	**Credits**
Genomics	4
Proteomics	4
Structural Bioinformatics	4
Drug Design & Discovery	4
PRACTICALS	
Lab 2 (1,2,3,4 sessions) Hands on in Genomics	1
Lab 2 (5,6 ,7,8 sessions) Hands on in Proteomics	1
Lab 2 (9,10,11,12 sessions) Hands on in Structural Bioinformatics	1
Lab 2 (13,14 Sessions) Hands on in Drug Design & Discovery	11
Total	**30**