

Dharampeth M.P.Deo Memorial Science College, Nagpur

"Add on Career Oriented Course in Bioinformatics"

(UGC Sponsored XIth Plan)

Certificate Course



About the Bioinformatics Course

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data. As an interdisciplinary field of science, bioinformatics combines computer science, statistics, mathematics, and engineering to analyze and interpret biological data. It is a new emerging field that helps in collecting, linking, and manipulating different types of biological information to discover new biological insight. This programme is targeted towards imparting theoretical as well as practical knowledge of bioinformatics to the students.

This Add on Career Oriented Course in Bioinformatics is UGC sponsored (XI Plan) Course and granted to the college in the year 2007-2008.

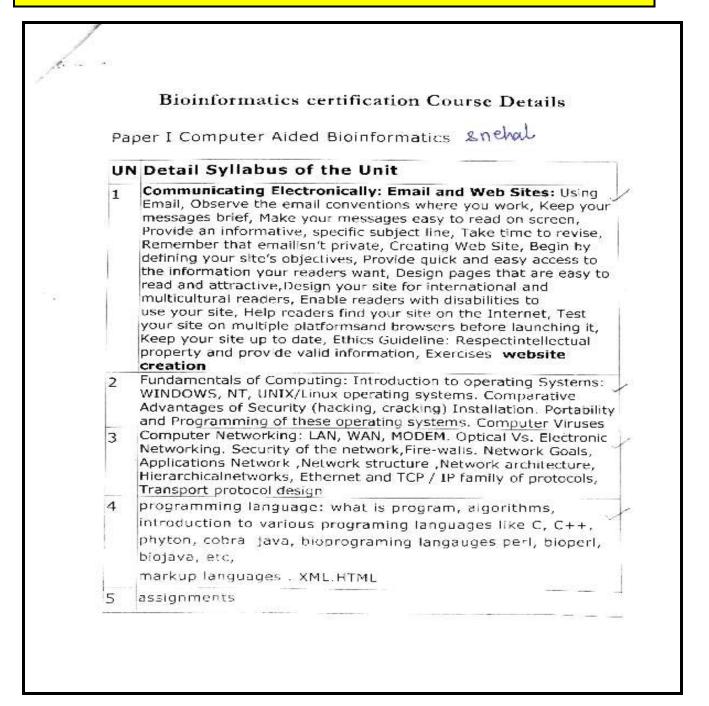
After completion of the course participant is expected to have knowledge and better understanding of sequence analysis, prediction of protein structure, genome annotation, comparative genomics, health and drug discovery, microarray profiling.

The curriculum has been designed to introduce the students to the various aspects of bioinformatics, its need and benefits in biological research.

The college is offering Certificate course at Semester I level and

Diploma Course at Semester III level

Curriculum of Certificate Course in Bioinformatics



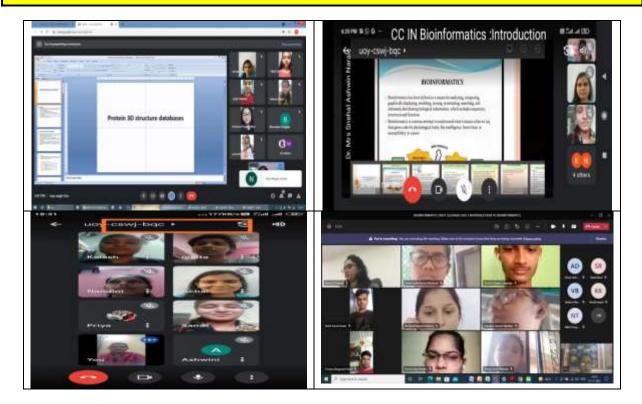
No. of Students Enrolled

Sr. No	Year	No of students Admitted
1.	2019-2020	09
2.	2020-2021	79
3.	2021-2022	88

Continuous Evaluation through Unit Test /Quizzes

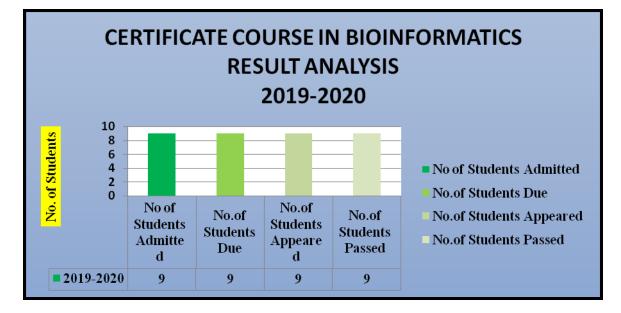
Unit Test No.	Unit	Paper	Date
Ι	II	Ι	23/6/2021
II	III	Ι	23/6/2021
III	IV	Ι	27/6/2021
IV	Ι	II	3/7/2021
V	Ι	Ι	15/7/2021
I,II,III,IV	I,II,III,IV	II & III	14/7/2021

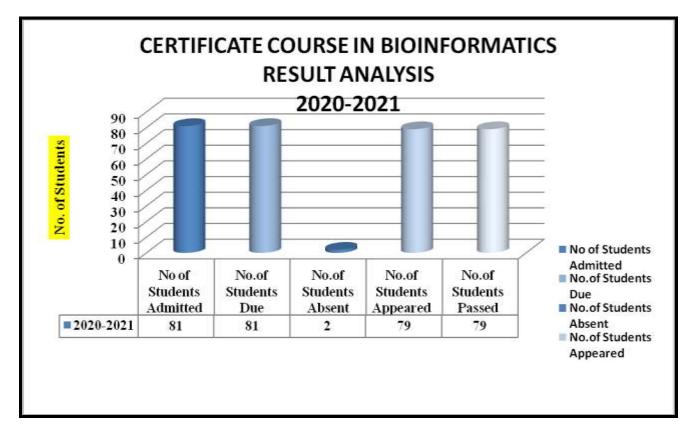
Glimpses of Online Certificate Course Underway



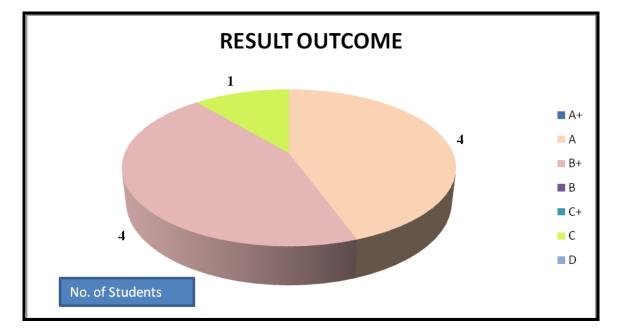
Result Analysis

2019-2020

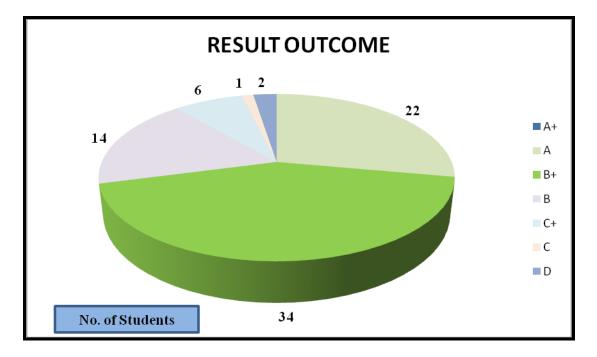




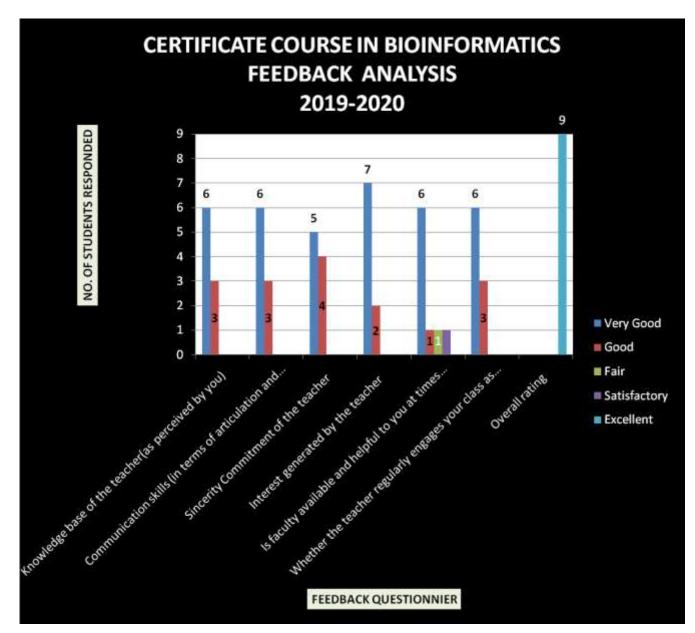
Result Outcome

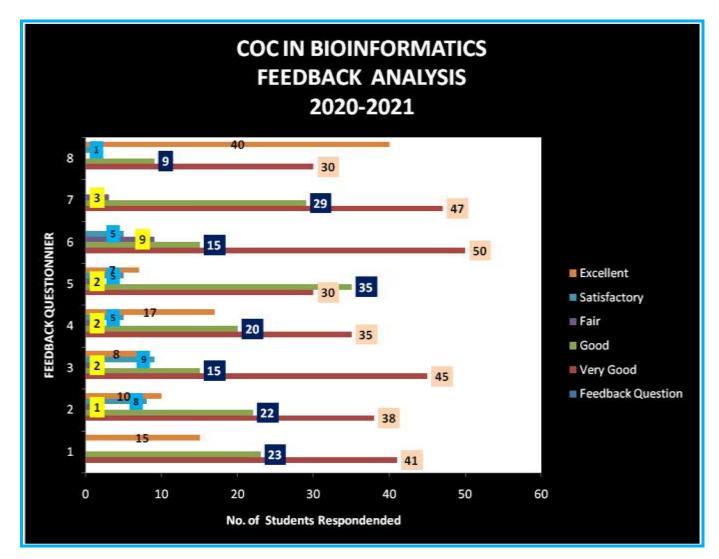


2020-2021



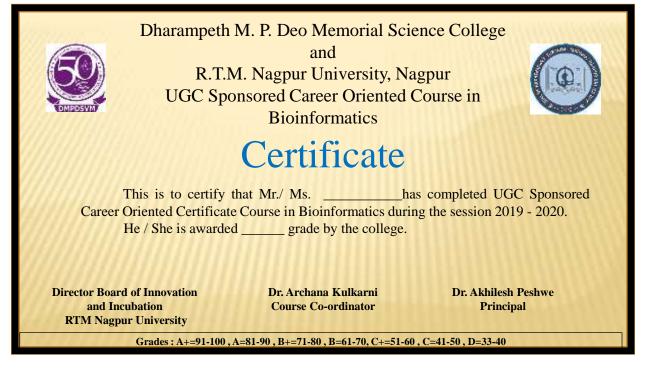
Feedback Analysis





Certificates Awarded

2019-2020





Course Outcome

On completion of this course, students will develop their skills regarding:

- Software's used in Bioinformatics.
- > Different computational methods used in basic biostatistics.
- Biological databases for proteins and nucleic acids and its sequence analysis, prediction of protein structure, genome annotation, comparative genomics, health and drug discovery, microarray profiling.
- > Multivariate analysis of bioinformatics.
- Students gain knowledge about extensible markup languages to develop basic web page.
- Students learnt about basics of programming languages like C, CPP, JAVA, Bioperl etc... which would help them to develop different tools in bioinformatics.

Career Opportunities

- They become entrepreneurs
- ➢ IT Industry
- Government sector and many more