### Registration Details

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<td>University/College/Institution</td>
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### Chief Patron

- **Dr. P. Shyama Raju**  
  Chancellor, REVA University

### Patrons

- **Dr. S.Y. Kulkarni**  
  Vice Chancellor, REVA University
- **Dr. V. G. Talawar**  
  Advisor, REVA University
- **Dr. M. Dhanamjaya**  
  Registrar, REVA University
- **Dr. N. Ramesh**  
  Dean, School of Applied Sciences, REVA University
- **Dr. B. P. Divakar**  
  Dean, Research & Innovation, REVA University
- **Dr. Beena G.**  
  Associate Dean, School of Applied Sciences, REVA University

### Contact Details

- **Mr. Prashantha C. N.**  
  Assistant Professor, Department of Biotechnology  
  REVA University  
  Email: prashantha.cn@reva.edu.in  
  Phone: +91-9844158444

### Certificate Course on Whole Genome Sequencing

**Data Analytics**

**Organized by**  
Department of Biotechnology  
School of Applied Sciences

![Route Map](image)
Course Overview

Department of Biotechnology, REVA University in association with Clovergen Life Sciences Pvt Ltd is collaboratively conducting industry oriented hands-on training on genome data analysis and computational drug discovery. Precision medicine has the potential to change fundamentally how healthcare is practiced, but requires a healthcare workforce that understands the complexities of this field. One important component of Precision Medicine is the use of an individual’s genomic information to offer targeted treatment, tailored to the individual. We offer in-person training courses at our training center, as well as live online training to each individual student and make sure to offer expertise on genomic data analysis for precision medicine and drug discovery. This course begins with a series of classes illustrating the power of computing programming and statistical methods, computational chemistry and drug development in modern healthcare system.

What you’ll learn
- Basic Linux programmes used to understand algorithms, software’s & tools
- Scripting languages include Python & Perl programs to solve various tasks you may encounter.
- Bio statistical methods & computational methods from an informal biological problem
- To develop algorithms for solving computational problems and to evaluate the effectiveness of algorithms
- To apply existing software to actual biological datasets

Eligibility Criteria
- B.Tech/MTech- Biotechnology/ Biochemistry/ any other Life Sciences
- M.Sc. - Biotechnology, Biochemistry, Molecular biology, Genetics, Bioinformatics or any other Life Science stream
- Ph. D. on Biological Science
- Research Associates
- Professors, Associate and Assistant Professors
- Industry professionals

Course Fees

<table>
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<tr>
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<th>Academic Students</th>
<th>Research Scholars</th>
<th>Professors / Teachers</th>
<th>Industrial Professionals</th>
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<td>13000</td>
<td>18000</td>
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Registration fees to be paid through online via NEFT (Remaining amount to be paid on the first day of internship)

Online Transfer

REVA UNIVERSITY,
The Karnataka Bank, Ltd,
Ac/No: 6662000100000901,
REVA University Branch,
IFSC CODE: KARB000666

Venue

Bioinformatics Lab, 3rd Floor
Department of Biotechnology,
School of Applied Sciences, REVA University

Course Content

Month: 1
- Deep learning on Genomics
- Understanding the Linux programming
- Biostatistical Methods to understand biological data
- Scripting languages (Perl and Python programming)
- Basic Unix programming

Month: 2
- Hands on training on Genomic data analysis (RNA-seq, ChIP-seq, Exome-Seq)
- R programming to learn genomic data analysis and expression studies
- Differential gene expression analysis
- Methylation Studies
- Mutational analysis of genome sequencing
- Functional genome annotation and enrichment analysis

Month: 3
- Industry project with Hands on training or corporate world
- Report generation and submit sequencing to NCBI database
- Certificate Distribution- to become Genome data anlyst