Registration Details

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, School of Applied Sciences
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Phone: +91-9844184444

Certificate Course on

Genome Analysis and Computational Drug Discovery

Organized by

Department of Biotechnology
School of Applied Sciences

REVA University
Rukmini Knowledge Park
Kattigenahalli, Yelahanka, Bengaluru - 560064
Phone: +91-80-6622 6622

www.reva.edu.in
About REVA University

REVA University has been established under the REVA University Act 2012 with the vision to instill awareness, a zeal for higher learning and direct curiosity through education. REVA University was conceptualized with a view to enable change; a revisionalization of the present Indian academic scenario. It breathes and practices the ideology of taking education to greater heights by touching each learner. The Founders of REVA University believe in the adage ‘Knowledge is Power’. Driven by this power of transforming lives, REVA thrives. Creating knowledge societies, building futures and imparting education. An involvement of this level, that REVA exhibits is complemented and enhanced by its environs, a colossal landscape blanketed over 45 acres of land that is a standing testimony to inspiring learning and fluid exchange of ideas. The University prides itself in contributing to every student’s holistic development. The University currently offers 33 full-time Under Graduate Programs, 24 full-time Post Graduate programs, 2 part-time Post Graduate programs, several Certificate/Diploma and Post Graduate Diploma programs in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law, Arts & Humanities and Performing Arts. Above all, the University facilitates research leading to Doctoral Degree in all disciplines. The programs offered by REVA University are well planned and designed based on methodical analysis and research with emphasis on knowledge assimilation, practical applications, hands-on training, global and industrial relevance and their social significance.

About School of Biotechnology

Departments under the School of Applied Sciences offers graduate and post graduate programs which are project and research oriented. Greater emphasis is given on multi-disciplinary areas of study. They focus to attract talented youth and train them to acquire knowledge and skills which are useful in Industrial sectors, Research and Educational institutions.

The School presently offers programmes such as B.Sc. - Biochemistry, Genetics, Biotechnology & Bioinformatics, B.Sc. MTI and M.Sc. in Biochemistry & Biotechnology. It also facilitates research leading to Ph.D. in various Biological disciplines.

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 health care is practiced, but requires a health care 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 students and make sure to offer expertise on genome 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 systems.

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

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

Registration Fees for Confirmation
- 2,000/- 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: 6662001000005901,
- REVA University Branch,
- IFSC CODE: KARB0006666

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
- Computational Drug discovery, pharmcophore and pharmacokinetic analysis
- Industry project with Hands on training or corporate world
- Report generation and submit sequencing to NCBI database
- Certificate Distribution- to become Genome data analyst and drug discovery professional

Course Fees

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<thead>
<tr>
<th></th>
<th>Academic Students</th>
<th>Research Scholars</th>
<th>Professors / Teachers</th>
<th>Industrial Professionals</th>
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<tbody>
<tr>
<td>Tuition Fees</td>
<td>15000</td>
<td>20000</td>
<td>23000</td>
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