

BIOINFORMATICS: INTRODUCTION & METHODS

VIRTUAL SHORT COURSE

**JOINTLY
ORGANIZED BY**

Postgraduate Institute of Science (PGIS) &
Postgraduate Institute of Agriculture (PGIA),
University of Peradeniya, Sri Lanka



**REGISTRATIONS
OPENING**
28th June 2023



**REGISTRATIONS
DEADLINE**
16th July 2023



**COURSE
STARTING DATE**
24th July 2023

12 WEEKS



**END OF
THE COURSE**
October 2023

RESOURCE PERSONS

Dr. Sachith Abeysundera
Department of Statistics and Computer Science,
Faculty of Science, University of Peradeniya

Dr. Chandima Ariyaratne
Department of Botany, Faculty of Science,
University of Peradeniya

Dr. Auchithya Dissanayaka
Coconut Research Institute, Sri Lanka

Associate Prof. Colleen Doherty
North Carolina State University, USA

Dr. Vihara Kaluthantri
Department of Plant & Molecular Biology,
Faculty of Science, University of Kelaniya

Dr. Dimanthi Jayatilake
Department of Agricultural Biology,
Faculty of Agriculture, University of Peradeniya

Dr. Lochana C. Menikarachchi
Department of Pharmacy, Faculty of Allied Health
Sciences, University of Peradeniya

Prof. Chandrika Perera
Department of Agricultural Biology,
Faculty of Agriculture, University of Peradeniya

Dr. Subhani Ranasinghe
National Herbarium,
Department of National Botanic Gardens,
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Dr. Nipuni Sirimalwatta
Department of Agricultural Biology,
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Department of Statistics and Computer Science,
Faculty of Science, University of Peradeniya

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Dr. Anushka Wickramasuriya
Department of Plant Sciences,
Faculty of Science, University of Colombo.

Dr. Priyanga Wijesinghe
Department of Botany, Faculty of Science,
University of Peradeniya

Prof. Deepthi Yakandawala
Department of Botany, Faculty of Science,
University of Peradeniya

COURSE MODULES

- Module I Central Dogma & Biomolecules
- Module II Basic Statistics
- Module III Biological Databases, Sequence Alignments
Downstream Sequence Analysis
- Module IV Basic Computing
- Module V Molecular Visualization and Analysis

Projects

- Molecular diversity and population structure analysis
- Phylogenetic analysis
- Molecular mapping
- Transcriptome analysis

Completion of one project is compulsory

Only **40** participants will be selected,
First come first serve basis

REGISTRATION LINK

<https://forms.gle/kSAxEBfxm71BzD3j6>



**MODE OF
DELIVERY**
ZOOM & PGIS LMS



COURSE FEE
LOCAL: 15000 LKR
FOREIGN: 70 USD

Contact

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Course Website:

www.pgis.lk/tools4biologists

<http://www.pgis.pdn.ac.lk>
<http://www.pgia.pdn.ac.lk>



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