

University and PG Teachers Training Program

in

Biology / Life science

19th June to 9th July, 2017 (21 days)



Center of Excellence in Science and
Mathematics Education

Indian Institute of Science

at its

Challakere Campus, Chitradurga-577536

Under

Pandit Madan Mohan Malaviya National
Mission on Teachers and Training
(PMMMNTT), MHRD, Govt. of India.



The IISc at Challakere Campus offers a great opportunity for the University / PG college teachers teaching M.Sc classes in Biology /

Life science. This is a three weeks (21 days) residential training program equivalent to UGC refresher courses approved by the MHRD, Govt. of India. The unique features of this training program is learning Biology by doing experiments. This will allow the teachers to understand the concepts and the theories behind the phenomena, and apply their understanding to do new innovative experiments.

Contact hours of the program will be more than 180 hrs.

- 80 hrs. Lectures (8.00 am - 12.00pm).
- 100 hrs. Experiments (in the afternoon 1.00 pm- 6.30pm).
- 3-5 Experiments per day.
- Lecture will be delivered by Faculty members from IISc.

The training program will cover the two major braches of biology- **Microbiology** and **Molecular biology**.

Well defined experiments covering various aspects are developed to be performed individually by teachers themselves. More than 50 experiments dealing with isolation of microorganisms, microscopy, micrometry, microbial identification systems, bacterial growth, analysis of proteins/ carbohydrates, enzyme assays, biochemical estimations, isolation of DNA/RNA from different sources, plasmid DNA isolation, Electrophoresis, DNA restriction digestion, ligation, transformation, cloning, recombinant selection, SDS PAGE, PCR, ELISA, differential blood counts, blood

constituents, disease diagnosis, *Drosophila* genetics, chlorophyll biosynthesis, plant embryology, plant morphology and development, cell/tissue culture technology, spectroscopy, bioinformatics and other techniques will be carried out.

Applications are invited from Indian citizens who are involved in teaching M.Sc. students in any biological discipline. Those who have undergone UGC courses can also apply. Contract and guest lectures can also apply.

Send your application mentioning

1. Name, Address, E-mail & Phone No.
2. Date of Birth
3. Qualification (with affiliating institution)
4. Place of work; Experience and specialization
5. Endorsement by Principal/Head of Institute.

**Last date to receive application:
May 30, 2017**

Send your application to

**Dr. S. Aravinda,
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TDC, IISc Kudapura – 577536
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**For more details please visit-
tdc.iisc.ernet.in**