

Degree College Teachers Training Program

in

Biology / Life science

22nd November to 12th December, 2019



**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
(PMMNMTT), MHRD, Govt. of India.**



The IISc at Challakere Campus offers a great opportunity for the degree college teachers. This is a three weeks (21 days) residential training program equal to UGC refresher

courses approved by the MHRD, Govt. of India and supported by L&T Technology Services under CSR. The unique features of this training program are learning subject by doing experiments. This will allow the teachers to understand the concepts and the theories behind the phenomena, test hypotheses, and also 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 (1.00 pm - 6.30pm).
- 3 - 5 Experiments per day.
- Lecture will be delivered by Eminent Faculty members from IISc and other institute.

Theory lectures will be based on UGC model curriculum, which includes Biochemistry, Biotechnology, Botany, Ecology, Genetics, Immunology, Microbiology, Molecular biology, Physiology, Structural biology and Zoology.

Well defined experiments covering various aspects are developed to be performed individually by teachers themselves. Nearly 100 experiments dealing with isolation of microorganisms, microscopy, micrometry, bio-fertilizers, bio-control agents, biomolecules, analysis of proteins/carbohydrates, enzymes assays, biochemical estimations, isolation of DNA/RNA from different sources, Electrophoresis, DNA

restriction digestion, ligation, transformation, PCR, PAGE/SDS PAGE, differential blood counts, blood constituents, urine analysis, disease diagnosis, *Drosophila* genetics, chlorophyll isolation and estimation biosynthesis, plant embryology, plant morphology and development, plant tissue culture technology, bioinformatics tools, protein/nucleotide sequence analysis, Cloning, Expression, Purification and its Characterization, databases, computational biology, spectroscopy, and other techniques are carried out.

Applications are invited from Indian citizen who is involved in teaching B.Sc. students in any biological discipline and enthusiastic contract teachers can also apply.

Selection will be based on the first come first serve bases.

Download application form and Send your application form to

gajananaj@iisc.ac.in

**Dr. S. Aravinda,
Coordinator Biology
TDC, IISc Kudapura – 577536
Phone No: 9487637218
E-mail: aravindas@iisc.ac.in**

**For more details please visit-
tdc.iisc.ac.in**

**Last date to receive application:
October 20, 2019**