



OUR INSPIRATION



Prof. Sangeeta Shukla
Hon'ble Vice-Chancellor



Years of Excellence



Prof. R.J. Rao
Rector



Prof. Anand Mishra
Registrar

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Dean - Life Sciences

Head - School of Studies in Biochemistry,
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Jiwaji University, Gwalior

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Coordinator,
School of Studies in Microbiology,
Jiwaji University, Gwalior

**15 Days - Hands on - Training course on
"Recent techniques in DNA and protein analysis"**

Sponsored by

DEPARTMENT OF BIOTECHNOLOGY

Govt. of India, New Delhi

Application Form

1. Name: _____
2. Age and Sex: _____
3. Designation: _____
4. Official address: _____
5. Address for correspondence: _____
6. Educational qualifications: _____
7. Research area: _____
8. R & D facilities available at your department : _____

9. Mob. and E-mail: _____
10. How the training course will be helpful: _____

11. Whether applicant attended any such course earlier:
Yes / No
(DBT sponsored training course, If yes, provide details)
12. Whether candidate is sponsored with TA/DA;
13. Recommendation and signature of the authority with seal:

Date:

Signature of candidate

Note : Photocopied/typed registration forms will also be accepted

Jiwaji University, Gwalior

NAAC Accredited 'A' Grade University



**15 Days - Hands on - Training Course
on
"Recent techniques in DNA and protein analysis"**

**Sponsored by
DEPARTMENT OF BIOTECHNOLOGY
Govt. of India, New Delhi**

24 February to 11 March, 2018



**Organized by
School of Studies in Biotechnology**

About the Training Programme:

School of Studies in Biotechnology is organizing 15 days hands on training on “Recent techniques in DNA and protein analysis” to develop skilled human resource. The programme includes the lectures followed by practical exercises. The distinguished workers in the field will illustrate the advance techniques used in the subject.

Patron

Prof. Sangeeta Shukla
Hon'ble Vice- Chancellor, Jiwaji University, Gwalior

Co-Patron

Prof. R.J. Rao
Rector
Jiwaji University
Gwalior

Prof. Anand Mishra
Registrar
Jiwaji University
Gwalior

Course content:

The training programme offers following hands on practical sessions.

Methods of Genome Analysis

Methods of DNA isolation
DNA purity-quantitative and qualitative means
Agarose gel electrophoresis
PCR-Based markers
RAPD analysis
ISSR primers and their applications
DNA Barcoding

Methods of Protein Analysis

Protein isolation and purification methods --- an overview
Ammonium sulfate precipitation
Fast Performance Liquid Chromatography
2D- gel electrophoresis

Animal Cell Culture

Methods of maintenance of animal cell culture
Cell culture, growth/differentiation
Cytotoxicity assays and drug discovery
SRB assay
MTT assay
Apoptosis marker assays
Data analysis using bioinformatics approach

About the Jiwaji University:

Jiwaji University Gwalior, came into existence on May 23, 1964, through M.P. Govt. Ordinance no. 15 of 1963. Late Dr. Sarvapalli Radhakrishnan, the then President of India, laid the foundation stone on 11th December 1964 at a sprawling campus of over 225 acres of land at Naulakha Parade ground. The institution was christened after the name of Kailashwasi Shrimant Jiwajirao Scindia as a standing memorial to his persona. The motto of the university is embedded in its logo **Vidyaya Prapyate Tejah**.

Recently Jiwaji University has been re-accredited with "A" grade by NAAC. Jiwaji University has created a central instrumentation facility that houses several sophisticated instruments like TEM, LC-MS, XRD, FTIR, DSC and DNA sequencer etc. to name a few. Being a premier state university of Madhya Pradesh state, it draws students from all over the country. University is an affiliated one and has more than 350 colleges affiliated to it. There are 12 various other faculties covering academic disciplines ranging from biosciences, physical sciences, arts, social sciences, management, engineering etc.

Profile of the School:

The master's programme in Biotechnology was started from the academic year 1996 with a seed money of Rs. 33 lakhs from the University Grants Commission, New Delhi under emerging areas as a regular course. Thenafter, the programme as a department was raised in the status to School of Studies in Biotechnology in the year 2006. The School offers Master's and Doctoral programme in Biotechnology. Admissions to Master's and Doctoral courses in biotechnology are made through an all India entrance test conducted by the University. The teaching program is strengthened by invited lectures from expert teachers and scientists from other Universities and National laboratories respectively. These include to name few, Bhabha Atomic Research Centre Mumbai, Central Drug Research Institute, Lucknow, ICAR-National Bureau of Plant Genetic Resoueces, New Delhi etc.

The research thrust areas in the School include genomics, proteomics, pharmaceutical biotechnology, animal cell culture and plant biotechnology. The School has developed a State-of-Art laboratory facility through project funding received for research and workshops from various funding agencies such as University Grants Commission, Madhya Pradesh Council of Science and Technology, Madhya Pradesh Council of Biotechnology, Defence Research and Development

Establishment and Department of Biotechnology. Open laboratory concept as per UGC-norm 2010 is followed. A proactive strict calendar of high quality academic activity like students seminar, competitive events and continuous internal assessments etc. is adhered to.

Objectives:

To introduce under graduate, post graduate teachers and mid carrier scientists for diverse techniques in genomics, proteomics, animal cell culture and to enhance their knowledge base in the broader areas of biotechnology.

Registration :

Registration fee is not chargeable, therefore participants shall have to manage their own boarding and lodging. Preferably there will be one candidate from an institute will be admitted. The selection of participants is limited to a maximum of 20 and the discretion of selection shall be solely with the organizers.

Workshop eligibility :

Mid carrier scientists/UG and PG teachers having master's degree in any field of biological sciences is eligible to apply. Participants working in government/private organization are to apply through proper channel. Further, they need to produce a relieving letter at the time of joining failing which they will not be allowed to participate in the training programme. Certificates of participation will be strictly given to those candidates who are regular in the course work and produce not less than 90% of attendance.

How to apply:

Interested candidates may send their application in the prescribed format duly forwarded to, The Course Director, 15 days hands on training course, School of Studies in Biotechnology, Jiwaji University, Gwalior-474011 (M.P.) through post as well as a scanned copy through e-mail : judbtraining2018@gmail.com.

Venue and accommodation:

The venue of the training programme is School of Studies in Biotechnology, Jiwaji University, Gwalior. Subject to availability, the University guest house may be provided to few participants.

Important dates :

- Last date for receiving applications : **10 Feb. 2018**
- Announcement of selected candidates : **15 Feb. 2018**
- Conformation of participation : **17 Feb. 2018**
- Start of programme : **24 Feb. 2018**