

**Registration fee:**  
**Five thousand rupees only (Rs. 5000/-)**

**Eligibility:**

Faculty/ Research Scholars from Life Sciences, Biotechnology, Agriculture, Environmental Science and any other allied discipline can also attend.

**Note:**

- The number of participants is restricted to 30
- Fee is non-refundable & non-transferable
- Registration fee includes, hands-on-training kit, working lunch and high tea
- Working lunch & high tea will be provided for 3 days only (16<sup>th</sup> -18<sup>th</sup> Aug, 2022)
- Certificates will be provided on the last day of hands-on-training
- Registration fee do not include accommodation or travel expenses
- Accommodation will be arranged based on request, with additional charges in boys and girls hostels

**Timeline:**

Last date for receipt of application is 1<sup>st</sup> August, 2022

**Payment Details:**

Payments should be made by bank transfer at:

Bank Name : UCO Bank  
Branch : Vadlamudi  
Account owner : VFSTR-MISCELLANEOUS  
Account Number : 21890210000151  
IFSC Code : UCBA0002189  
SWIFT Code : UCBAINBB316

**Note:**

Payment proof such as transaction no./ screen shot of the payment should be attached with the registration form.

**Website**

<https://www.vignan.ac.in/rampbaa>

**Registration Link / QR CODE**

<https://tinyurl.com/bdewcwf>



[www.vignan.ac.in](http://www.vignan.ac.in)



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**Course Director & Chief Resource Person**

Dr. Onkar Nath Tiwari, Principal Scientist, ICAR-IARI New Delhi

**Convenor**

Dr. CH. Anjani Devi, Assoc. Prof., BT

**Co-Convenor**

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Dr. Charles David, Asst. Prof., BT  
Dr. Abhinav Parashar, Asst. Prof., BT

**Organizing Committee**

Faculty, Supporting staff, Research scholars & Students, BT

**Contact & registration**

Dr. CH. Anjani Devi (+91 9121357358)  
Dr. N.S. Sampath Kumar (+91 9573583676)

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[www.vignan.ac.in](http://www.vignan.ac.in)

**Three days**  
**HANDS-ON-TRAINING**

on

**Recent Advances in Microbes & Plants: Basic to Applied Aspects**

Dates : 16<sup>th</sup> - 18<sup>th</sup> August, 2022

Organized by **Department of Biotechnology**  
In collaboration with **DST STI HUB – VFSTR**



**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be **UNIVERSITY**)



-Estd. u/s 3 of UGC Act 1956

Vadlamudi, Guntur - 522 213. Andhra Pradesh.  
Tel : 0863 2344700

## About the Institution

Vignan's Foundation for Science, Technology and Research (VFSTR) Deemed to be University is one of the top-ranking Universities and the most premier engineering destinations in India, which was established in 2008 by Shri Dr. Lavu Rathaiah, located in the serene environs of Vadlamudi of Guntur – Tenali highway, Guntur in Andhra Pradesh with over 10000 students and 700 faculty members. It offers a wide range of programs to students to pursue undergraduate, postgraduate and doctoral programs in Engineering, Management, Sciences and Humanities.

VFSTR has been engaged in nurturing minds through a rich heritage of academic excellence. Essentially a hub of bustling students' activities, the green and beautiful campus has been a thriving educational institution to thousands of students in their journey to pursue higher education. There is a wide range of scholarships open to students at the University. Scholarships are offered to the best and brightest applicants from undergraduate to postgraduate programs. Vignan collaborates with foreign universities to set out opportunities and to create positive academic engagement among them. MOUs include the development of joint research activities and student training cum development. Now the institute enjoys the preferred manpower source for vision to be recognized as a world-class learning institution. VFSTR was accredited by NAAC with an 'A+' Grade.

## About the Department

The Department of Biotechnology signifies a marked difference from customary practices of teaching and learning. It offers Engineering education as a pleasant pursuit by introducing innovative practices for budding Biotechnologists since 2006. Department offers B.Tech (Biotechnology and Bioinformatics), B.Tech. (Hons), M.Tech (Biotechnology) and Ph.D. Programs. B.Tech. Biotechnology was accredited by NBA in the year 2020. Department has highly qualified and experienced faculty with strong research and professional expertise. Every academic year, 80% of students get placements in various industries/ research organizations and the remaining students go for higher studies. Besides teaching, the faculty members are engaged in a broad range of research and relative development areas. The Department is very well established with state-of-the-art facilities like CoEx in Bio-resource Management, Animal cell culture facility, Bioprocessing lab, Plant tissue culture lab, Bioinformatics lab, Animal house, Cleanroom, and Biogas plant, with an ample strength of students and faculty. The Department has been supported by DST-FIST and has attracted funding from Govt. agencies like DST, DBT, UGC, SERB, MoEF, etc. Department is also actively and extensively involved in conducting Workshops, Seminars, Conferences, and other collaborative works.

## Vision

To be a centre of excellence in the field of biotechnology with high quality academics and state-of-the-art research to produce multifaceted, internationally accepted employable professionals.

## Mission

- Providing state-of-the-art curriculum with skill based practices in teaching and learning to pursue career opportunities in biological and bioprocess related fields.
- Offering adequate laboratory facilities with conducive research vicinity to make students ready for industry and update to pursue higher education, research and consultancy.
- Transforming into committed professionals with sense of belonging, leadership abilities, managerial competencies, team participation, social awareness, human values and ethics.

## About the Hands-On-Training

Biotechnology is a fast growing multidisciplinary applied science for human life. The program "Recent Advances in Microbes & Plants: Basic to Applied Aspects" aims to provide a platform to interact with the experts in the field and have hands on training on state of the art techniques in Biotechnology. The workshop especially emphasizes and promotes early-career researchers/faculty in the following three themes:

- Isolation, identification and mass cultivation of Blue Green Algae
- Cultivation of Medicinal Plants
- Sustainable Production of Biogas

The lecture sessions are carefully designed to give the necessary theoretical background. The laboratory exercises include problems drawn from all the core areas to refresh basics and understand the practical application of the concepts. In addition, mass cultivation of Blue-green algae, maintenance of Herbal garden and management of Biogas unit will be familiarized during field visits.

## About the Resource Persons



### Dr. Onkar Nath Tiwari

Principal Scientist,  
Centre for Conservation and  
Utilization of Blue Green Algae,  
Division of Microbiology,  
ICAR-IARI, New Delhi.

Dr. O. N. Tiwari is working as Principal Scientist & PI. DST & ICAR. Dr. Tiwari is a task force member in DST and FSSAI, GOI since 2009. He acted as national coordinator for DBT, algal biofuel programme during 2009. He worked as visiting professor at Culture Collection of Algae, University of Texas at Austin, TX-USA during 2012-2013. He has successfully completed 11 mega projects each worth of more than 100 lakhs and he is handling 3 external funded projects. He has published more than 150 papers in peer

reviewed Journals. He has produced 17 Ph.D. thesis. Besides, he was a Member of Board of Directors; Algal biomass research and commercialization; Intelligent Biotechnologies, Austin, TX, USA (2014).



### Prof. Gopinath Halder

Chemical Engineering,  
National Institute of Technology,  
Durgapur.

Dr. Gopinath Halder has 21 years of research, 18 years of teaching and 1-year industrial experience. His research area of interest includes Biofuel, Waste water and Solid waste management. He has published 145 papers in SCI Journals. Dr. Halder handled 10 projects sponsored by funding agencies such as DST & DBT, Govt. of India. He is a member of Royal Society of Chemistry, London; American Society of Chemical Engineers, USA etc.

## Day wise Activities

### 16<sup>th</sup> August, 2022

#### Isolation, Identification and mass cultivation of Blue Green Algae

- Collection of samples
- Media preparation
- Inoculation and culturing the BGA
- Microscopic identification
- Biochemical & molecular characterization
- Mass cultivation of BGA
- Bio-fertilizer preparation

### 17<sup>th</sup> August, 2022

#### Cultivation of Medicinal Plants

- *In vitro* conservation of MAPs using PTC techniques
- Screening of active components using different solvents from selected medicinal plants
- Visit to herbal garden, STI-HUB and other facilities at VFSTR

### 18<sup>th</sup> August, 2022

#### Sustainable Production of Biogas

- Small Scale Biodigesters
- Bioconversion of farm wastes
- Concept: Waste to Wealth
- Agro/Cattle Solid waste management
- Benefits of Liquid Plant conditioners from Biodigesters.

