

# Faculty Development Programme

on

**Molecular Approaches in Plant Sciences for Bioentrepreneurship**

**August 21 - 26, 2023**



*Organized by*

**Human Resource Development Centre (HRDC)**

in Association with

**PG Department of Botany**

**Berhampur University**

**Venue: Theophrastus Seminar Hall, Department of Botany,**

**Berhampur University**



## About Berhampur University

Berhampur University (BU) is a public-funded state university established on 2<sup>nd</sup> January 1967. The campus is known as Bhanja Bihar, named after the celebrated poet of Odisha Kabi Samrat Upendra Bhanja. Spreading over lush-green campus of about 250 acres, the University is 12 kilometers and 5 kilometers away from Berhampur City and Gopalpur-On-Sea, respectively. There are 25 Post-Graduate departments on the University campus, that offer specialized subjects and Ph.D./D.Sc. Programs. The University has 173 affiliated colleges with various subjects and disciplines such as Arts, Science, Commerce, Law, Education, Medicine, Pharmacology, Homoeopathy, Ayurveda, Nursing, Military Science, Library Science and Fine Arts. The University is a permanent member of the Inter University Board of India and Sri Lanka as well as that of the Association of Commonwealth University of London.

### Mission

Berhampur University seeks to take long strides in harnessing the outcome of teaching and research in various fields by way of ensuring inclusive growth, and to prove itself to be a Center of Excellence in higher education.

It further envisions taking up the social responsibility towards the total uplift of the society at large by providing quality education in consonance with the motto of the University, i.e., "*Tamaso Ma Jyotirgamaya*" which means "Lead me from darkness unto light".

### Vision

- Promote inclusive growth to cater to the educational need of all sections of the society while striving for excellence.
- Achieve innovation in teaching, learning and research to realize goals of higher education.
- Empower students with relevant knowledge, competence and creativity to face the challenges of life.
- Create a modern teaching-learning ambience to impart quality education.
- Generate awareness of human rights, values systems, culture, heritage, scientific temper and environment.
- Preserve and promote the cultural heritage of the region through research and documentation.
- Inculcate ethical values and academic rigour amongst the students enabling them to contribute to the holistic development of society.

## About the HRDC, Berhampur University

For improving the quality of higher education, different Commissions, such as Radhakrishnan Commission (1948), Kothari Commission (1966) and National Education policies on higher education had recommended for the establishment of Academic Staff College (Presently known as Human Resource Development Centre) for the sustained development of academic staffs across the time along with changing policy vis-à-vis knowledge exploration. Keeping this into account, the Higher

Education Department, Govt. of Odisha established the Human Resource Development Centre (HRDC) at Berhampur University during 2018, and Consequently, the HRDC started as facilitator for academic up-gradation and R & D skill enrichment of the Faculty members and the Research manpower.

**The Vision of HRDC-BU is to:**

- Ensure quality improvement of teachers in teaching-learning methodology by incorporation ICT tools.
- Strive for achieving the status of Nodal Centre for training of both academic and non-academic staff of colleges/universities.
- Organize hands on Faculty Development Programmes to translate the skill among the students.
- Organize Refresher Courses, Orientation programmes, Summer/Winter School, Short term Faculty Development programmes.
- Conduct training programme for research scholars on research methodology.

### **About the Post-Graduate Department of Botany**

The department of Botany was established in the 1969 and founded by late Prof. Harihar Patanaik, a renowned algologist. Since its inception the department has grown appreciably, not only in terms of students and faculty strength but also in terms of the introduction of new courses, specializations and broadening research activities. The department is funded by the Government agencies in form of research grants from CSIR, UGC, DBT, DAE, MoEF and CC, Government of India, OFSD, S & T Department, Government of Odisha.

### **About the Programme**

Plant based drug development is the most emerging field in research with enormous scope and industrial applications. Emergence and reemergence of deadly pathogens always opened new vistas for novel therapeutics and often these natural products are highly acclaimed for their low toxicity and side effects over synthetic products. The objective of the FDP is to train the participants with the basic techniques of isolation, estimation of phytochemicals, preparation and culture of different microorganisms for testing the therapeutic values of these phytocompounds with virtual screening and molecular modeling techniques, which could be beneficial for setting small industries for production and testing of novel therapeutics.

### **During the FDP, hands-on-training will be provided on**

- Plant extract preparation
- Phytochemical analysis (qualitative)
- Phytochemical analysis (quantitative)
- Media preparation and culture of microbes
- Basic Bioinformatics Tools
- Virtual screening and molecular docking of phytochemicals

## Details of the FDP-cum-Hands-on-Training Program

<b>Title of the FDP:</b>	<b>Molecular approaches in Plant Sciences for Bioentrepreneurship</b>
<b>Duration:</b>	21-08-2023 to 26-08-2023 (One Week)
<b>Timing of Sessions:</b>	Two sessions per day: 10.30 AM to 01.30 pm (Lecture Session) and 2.30 PM to 5.30 PM (Lab. Session)
<b>Eligibility:</b>	Faculty members involved in teaching UG and PG courses in Botany, Zoology, Life Science, Microbiology and Biotechnology in various colleges are eligible to apply. The number of participants is restricted to 25.
<b>Mode of the FDP:</b>	Physical Mode (Offline)
<b>Venue of the Programme:</b>	<b>Theophrastus Seminar Hall, Department of Botany, Berhampur University</b>
<b>Last Date for Registration:</b>	<b>16-08-2023</b>
<b>Registration Fee:</b>	Rs. <b>2000.00</b> (to be paid online or NEFT). The amount should be paid in favour of Director, HRDC-BU (A/c No. 6371101000698; IFSC Code. CNRB0006371)
<b>Boarding and Lodging:</b>	Outstation candidates can be given free accommodation. All the participants will be provided working lunch and snack/tea during afternoon only. <b>No TA and DA will be provided for participation</b>
<b>Registration Link:</b>	<a href="https://forms.gle/gfzBc95GzQbYZPJm6">https://forms.gle/gfzBc95GzQbYZPJm6</a>

### Certification:

Certificates will be issued subject to the participants qualifying the following conditions:

- Minimum 75% attendance.
- Minimum 50% marks in the exam conducted on last day of the programme.

### Advisory Committee of HRDC

**Prof. Geetanjali Dash**, Vice-Chancellor, Berhampur University

**Prof. S. K. Baral**, Chairman, PG Council, Berhampur University

**Shri Sachidananda Nayak, OAS(S)**, Registrar, Berhampur University

**Prof. Sukant Ku. Tripathy**, Director, R &D Cell, Berhampur University

**Prof. Sudhakar Patra**, Director, IQAC Cell, Berhampur University

**Prof. Shruti Dash**, HoD, Dept. of English, Berhampur University

### **Organizing Committee of HRDC**

**Prof. Jogeswar Panigrahi**, Director, HRDC-BU

**Dr. B. Anjan Kumar Prusty**, Joint Director, HRDC-BU

**Dr. Tapan Kumar Barik**, Member

**Dr. Biswajit Prasad Chhatoi**, Member

**Dr. Laxmidhar Rout**, Member

**Dr. Saswat Sourav Mohapatra**, Member

**Dr. Aditya Kumar Panda**, Member

**Dr. Raj Kishore Kampa**, Member

**Dr. Neha Pandey**, Member

**Dr. B. Venkateswar Rao**, Member

### **FDP Programme Convener**

- **Dr. Biswa Ranjan Meher**, Assistant Professor & Coordinator, Dept. of Botany

### **FDP Program Coordinator**

- **Dr. Mrutyunjay Jena**, Assistant Professor, Dept. of Botany, BU

### **FDP Programme Organizing Members**

- **Dr. Sarita Das**, Assistant Professor, Dept. of Botany, BU
- **Dr. A. Leelaveni**, Assistant Professor, Dept. of Botany, BU
- **Dr. Padmalochan Hembram**, Assistant Professor, Dept. of Botany, BU

### **Contact Details:**

**Dr. Biswa Ranjan Meher**

Program Convener,

Dept. of Botany, Berhampur University

Phone: 9686697197

Email: brm.bot@buodisha.edu.in

Web: [www.buodisha.edu.in](http://www.buodisha.edu.in)

**Dr. Mrutyunjay Jena**

Program Coordinator,

Dept. of Botany, Berhampur University

Phone: 7978478950

Email: mj.bot@buodisha.edu.in

REGISTRATION FORM

**Faculty Development Programme**

*on*

**Molecular approaches in Plant Sciences for Bioentrepreneurship**

**August 21 - 26, 2023**

1. Name in full: Dr./Mr./Mrs./Ms. ....
2. Designation: .....
3. Organization/Institution: .....
4. Address: .....  
.....  
Phone: ....., Mobile: ....., Fax: .....  
e-mail: .....
5. Details of Registration fee: Amount. Rs. 2000.00 (Rupees Two Thousand) only  
Details of DD/ NEFT/ Online payment.....  
(Proof of Payment need to be enclosed)

Place: .....

Signature of the Candidate

Date: .....

**Forwarded by Supervisor/Guide/Head of the Department/Principal**

I hereby forwarding the application of Dr./Mr./Ms. ....

to enrol in the FDP on “**Molecular Approaches in Plant Sciences for Bioentrepreneurship**”, during 21-26 August 2023, organized by HRDC-BU in association with PG Dept. of Botany.

**(Signature of Competent Authority with Seal)**

***All the participants will have to make their own travel arrangements, and accommodation shall be provided in HRDC, BU upon request. NO TA & DA will be paid for participation in FDP.***