



BRIEF REPORT

Department of Botany, Nehru Gram Bharati (Deemed to be University), Prayagraj, the Forest Research Centre for Eco-Rehabilitation, Prayagraj, and Ecohealth Biosciences Industries, Lucknow organise:

National Training Programme

On

Exploring bio-techniques to assess the role of Microorganisms

(June 15-21, 2023)

Participants-22

Registration Last Date- June 10, 2023

Registration Fees-2000

About the Nehru Gram Bharati (Deemed to be University), Prayagraj:

Nehru Gram Bharti (Deemed to be University) occupies an esteemed place among the ruler universities of India for over decades now. Established on 27th June 2008, it is one of the promising institutes in the state of Uttar Pradesh situated at the bank of river Ganges. It was basically conceived by our 1st Prime Minister of India, Late Pt. Jawahar Lal Nehru, who laid the foundation stone of Nehru Gram Bharti on 26th July 1962 in the village of “Rishi Durvasha Ashram” Kotwa, Jamunipur, Dubawal Complex of his popular consultancy in Prayagraj district. His dream translated into reality by Shri. J.N. Mishra, who had a clear vision and dedication to the cause of upliftment of rural message through education. As on date, the campus has emerged as a prominent establishment of professional, technical education and traditional education for meeting the aspirations of youth from rural as well as urban areas. To begin with “Rajiv Gandhi Degree College” was established in the year 1996 and upgraded to “Rajiv Gandhi Post Graduate College” from the academic session 2000 -01 which subsequently merge into the ‘Nehru Gram Bharti (Deemed to be University)’ in 2008-09 after University Grants Commission recommended to the Ministry of Human Resources and Development for granting it Deemed to be university status. The MHRD notified vide its gazette Notification no: F.9-42/2005-43(A) dated as 27th June 2008 bestowing the Deemed to be university status to Nehru Gram Bharti. University is composed of 6 campuses in encircling approximately 76 acres of land spread over within a radius of about 5 km.

About Forest Research Centre for Eco-Rehabilitation, Prayagraj:

Forest Research Centre for Eco-Rehabilitation, Prayagraj is a premier forestry research institution which aims to nurture professional excellence in the field of agro forestry and eco-rehabilitation. It was established in the year 1992, as an advanced Centre of F.R.I. under the umbrella of Indian Council of Forestry Research and Education, Dehra Dun, which is an autonomous council of Union Government of India Ministry of Environment, Forest and Climate Change, New Delhi.

About Ecohealth Bioscience Industries, Lucknow:

The Ecohealth Biosciences Industries is located in Lucknow U.P. India. This Industry is certified from Ministry of Micro Small Medium Enterprises, GOI. Its registration number is UP50A0040393, REG. UDYAM-UP-50-0005971 GST number is GSTIN: 09AAIFE4073B1ZN. Registered Under U.P. Govt. Act, 21, 1860, U.P. Gov. Reg. No. LUC/0012217U.P Pollution Control Board file No:- 14406091 with ISO 9001:2015. It is based on innovative life science research based organization, Ecohealth Biosciences Industries deal in Diagnostic, Industrial Training Placement, life Science Projects and Paramedical Courses. We are offering more than 500 research services in the field of Life Sciences. Our Services are customized to user’s requirements with the international standards of quality. Also provide NABL Consultant Services undertakes the assessment and accreditation of existing and Calibration Laboratories, in accordance with the international standard ISO / IEC 17025 and ISO 15189. It has been established in 2017.

About the Programme:

The role of microorganisms in agriculture Research have been benefitted in the prime area of Agriculturally Important Crop production and soil quality improvement with the help of role of microbes in crop yield production. The isolation, identification, purification and characterization of microbes as a bio fertilizers, bio control agent, Biological soil crusts nitrogen fixing microbes combat role in soil desertification, medicinal plant production such as antibiotics production, role of microbes in Industrial aspects such as bio-ethanol, biofuel, bioenergy, acid and enzyme technology. Thus the basic requirements of Instrumentation for recycling plant materials, a large part of all micro-organisms lives in soils, sediments, aquifers and geological formation. Besides traditional method of microbes identification i.e. phenotypic, culture and biochemical methods and molecular inherent characterization. The present training for:

1. Molecular identification of microorganism

2. Microbial community analysis
3. Biological soil crusts analysis microbes analysis combat soil desertification
4. Cereals crop yield enhancement and bio control plant pathogen activity
5. Bio fertilizers production with cost effectiveness' technique
6. Bioenergy and biofuel production

Patrons:

Sri J.N. Mishra

Honorable Chancellor NGB (DU) Vice- Chancellor NGB (DU)

Prof. S.K. Srivastava

Vice- Chancellor NGB (DU)

Dr. S.C. Tiwari

Pro Vice-Chancellor NGB (DU)

Organizing Secretary:

Dr. Adi Nath

Department of Botany

Nehru Gram Bharati (Deemed to be University)

[Email-adinathupadhyay@gmail.com](mailto:adinathupadhyay@gmail.com)

Contact -9670829105

Co-convenor:

Dr. R.P. Ojha,

Director Research Centre

NGB (DU)

Convener:

Dr. Sanjay Singh

Scientist, FRC-ER, Prayagraj

Contact-9411166881

Co -Organizing Secretary:

Dr. Kaushlesh Kumar Yadav

Director, Eco-health Biosciences Industries

Lucknow

Organizing Committee

1. Mr. Pradeep Upadhyay, Deptt. of Botany, NGB
2. Dr. Shakti Nath Tripathi, Deptt. of Botany, NGB
3. Dr. Dheeraj Pandey, Deptt. of Botany, NGB
4. Dr. Anita Tomar, Scientist, FRC-ER, Prayagraj
5. Dr. Kumud Dubey, Scientist, FRC-ER, Prayagraj
6. Dr. Alok Kumar Yadav, Scientist, FRC-ER, Prayagraj
7. Dr. Anubha Srivastava, Scientist, FRC-ER, Prayagraj

Advisory Committee:

1. Prof. R.C. Tripathi, Prof. Incharge R&D, NGB
2. Prof. Rohit Ramesh, Dean, Faculty of Management, NGB
3. Sri R.L. Vishwakarma, Registrar, NGB
4. Dr. Prabuddha Mishra, Director, Jamunipur Campus, NGB
5. Dr. Asheesh Shivan, Dean, Faculty of Science, NGB
6. Dr. R.C. Mishra, Director IQAC, NGB
7. Dr. R.C. Mishra, Head, Dept. of Political Science, NGB
8. Dr. Himanshu Tandon, Associated Registrar, NGB

REGISTRATION FORM

N.B: Mode of Payment: online/NEFT/RTGS/DD

Account Details: Nehru Gram Bharati University

Account Number: 66630200000126

IFSC Code: BARB0VJHGNJ

(Fifth character is zero)

Bank Name :Bank of Baroda, Hanumanganj

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|--|------------------|
| NAME MR./MS./DR./PROF. | |
| DATE OF BIRTH | |
| DESIGNATION | |
| ORGANISATION (Full address) | |
| E-MAIL ID | |
| MOBILE NO. | ADDL. NO. |
| REGISTRATION FEE DETAILS: DD NO./DATE /NEFT/RTGS/ OR ANY OTHER ONLINE WITH REFERENCE NUMBER | |
| REMARKS (Office Use Only) | |

REGISTRATION

Please fill up the registration form and send it to **adinathupadhyay@gmail.com**

All participants try to pay the registration fee in advance and confirm through mail.

(Signature of Participant)

Technical Details:

Thursday, 15TH June, 2023

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| Venue | Nehru Gram Bharati Deemed to be University Research Centre Shashi Campus, Prayagraj |
| 9:00Am – 10:00am | Reception and Registration |
| Key note Address 11:30-12:00 | (Chief Guest) Prof. Shanthy Sundaram, Dean Student Welfare, Professor Centre of Biotechnology, University of Allahabad, Prayagraj |
| 12:00-1:00 | PL 1- Dr. Sanjay Singh , Head, FRC-ER, Prayagraj |

DEMONSTRATION SESSION I

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| Venue | Nehru Gram Bharati Deemed to be University Research Centre Shashi Campus, Prayagraj |
| Wet-Lab-I | Cyanobacteria, Microalgae, Bacteria and Fungus Culture Lab Visit, Growth Kinetics, Pigment Estimation (Chlorophyll-a & b, Phycocyanin, Allophycyanin, Phyerythrin Estimation, Carotenoid estimation from various model organism and comparative yield quantification |
| 02:00pm-05:30pm | Dr. R. P. Ojha, Dr. Kaushlesh Yadav &Dr. Adi Nath Training Address and Instruments description |
| 05:30pm | Tea |

16TH JUNE 2023 IInd Day

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| Venue | Nehru Gram Bharati Deemed to be University, Department of Botany, Research Laboratory, Prayagraj |
| Theme | Physiological Aspect |
| 9:45am-11:30 am | IL-Dr. Shweta Chaturvedi, Department of Atmospheric and Ocean Science, University of Allahabad Dr. Dheeraj Pandey, Department of Botany, NGBDU |
| 11: 30-12:40 | Dr. Adi Nath & Dr. Kaushlesh Team Nehru Gram Bharati Deemed to be University, Department of Botany, Research Laboratory, Prayagraj |

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| 01:26pm – 04:45pm | Pulse Amplitude Modulation (PAM)-Photochemical and Non photochemical quenching analysis, Plant Efficiency Analyzer, Kautsky Effect, OKJIP Stress Testing, Photosynthetic Quantum Yield Analysis, Light and Dark Biochemistry, Photoinhibitor effect-DCMU, DBMIB, Protonation and De-protonation in Cholophyll and protein environment. |
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17TH JUNE, 2023, III Day

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| Venue | Nehru Gram Bharati Deemed to be University Research Centre Shashi Campus, Prayagraj |
| Theme: | Biochemical aspect |
| 09:00am – 11:30am | IL.-1 Dr. Kumud Dubey, Scientist, FRE-ER, Prayagraj IL.-2 Dr. Shailendra K. Singh, Postdoctoral Fellow, Centre of Biotechnology, University of Allahabad |
| 11:30am – 12:30am | Dr. Adi Nath & Dr. Kaushlesh Team Venue- Nehru Gram Bharati Deemed to be University Department of Botany, Research Laboratory, Prayagraj |
| 01:00pm – 05:00pm | Biochemical Estimation- Protein Estimation by Lowry method, Bradford method and Spectroscopic and comparative study for high yield Carbohydrate Estimation- Total Sugar Estimation by Anthrone method Reducing sugar estimation by Nelson-Samogyi Method, DNS method and Comparative study in various model organism |

18TH June, 2023 IVth Day

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| Venue | Nehru Gram Bharati (Deemed to be University) Prayagraj |
| Theme | Bio-fuel, Biohydrogen, Biomethanol, Biomethanol production |
| 09:45am - 12:30noon | IL- Dr. Vijay Kumar, Department of Microbiology, Career Point University, Hamirpur, H.P.-176041 |
| 01:00pm - 05:30pm | Dr. Adi Nath & Dr. Kaushlesh Team Venue- Nehru Gram Bharati Deemed to be University, Department of Botany, Research Laboratory, Prayagraj |
| Laboratory | Lipid Estimation by Folch Method , Shanon Method and Bligh & Dyer method comparison for higher yield, Transesterification, Evaporation, Bio-fuel conversion and quantification |

19TH June , 2023 (V Day)

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| Venue | Nehru Gram Bharati (Deemed to be University) Prayagraj |
| Theme: | Bio-control agent, Nanotechnology Approach |
| 09:45am - 12:30noon | IL- Dr. Abhishek Bhardwaj, Deptt. of Environmental Sciences, Amity University, Gwalior |
| 01:00pm - 05:30pm | Dr. Kaushlesh Yadav Team &Dr. Adi Nath Venue- Nehru Gram Bharati Deemed to be University, Department of Botany, Research Laboratory, Prayagraj |
| Laboratory | Genomic DNA Isolation From Cyanobacterium Synechocystis PCC 6808, Protein Profiling by SDS –PAGE |

20TH June, 2023 (VI Day)

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| Venue | Nehru Gram Bharati (Deemed to be University) Prayagraj |
| Theme: | Medicinal and Carcinogenic Aspect |
| 09:45am - 12:30noon | Dr. Munish Kumar, Deptt. of Biochemistry, University of Allahabad |
| 01:00pm - 05:30pm | Dr. Kaushlesh Yadav Team &Dr. Adi Nath Venue- Nehru Gram Bharati Deemed to be University, Department of Botany, Research Laboratory, Prayagraj |
| Laboratory | EMS, MMS Chemical Mutagenesis, UV-B Physical Mutagenesis, Comparison with mutagen with their wild type, Replica plating |

21TH June, 2023 (VII Day)

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| Venue | Nehru Gram Bharati (Deemed to be University) Prayagraj |
| Theme: | Gene Therapy |
| 09:45am - 12:30noon | Dr. Veer Singh, Young Scientist (DHR) ICMR-Rajendra Memorial Research Institute of ,Medical Sciences Patna |
| 01:00pm - 04:30pm | Dr. Kaushlesh Yadav Team &Dr. Adi Nath Venue- Nehru Gram Bharati Deemed to be University Research Centre Shashi Campus, Prayagraj |
| Laboratory | Proteomics, Genomics |
| 04:30-05:00pm Valedictory and Certificate Distribution | Prof. D.K. Chauhan, Ex- Head, Dept. of Botany, University of Allahabad |

Participants Detail:

Dr. Arpita Tripathi, Faculty, TMU, Moradabad
 Ms. Shivanki Rani Rajpoot, Faculty, TMU, Moradabad
 Dr. Aakash Mishra, Faculty, Garhwal University, Uttara Khand
 Dr. Hemlata Pant, Faculty, CMP, University of Allahabad
 Mr. Pradeep Upadhyay, Faculty, NGB (DU), Prayagraj
 Dr. Kiran Gupta, Faculty, NGB (DU), Prayagraj



19.06.2023 12:38
23.45364, 81.85014 (±7m)
Altitude: 34m
13, Kamla Nehru Rd, Police Line, Prayagraj



16.06.2023 12:07
23.38366, 82.00086 (±46m)
Altitude: 10m
92M2+639, Dalapur



18.06.2023 12:43
23.45977, 81.84998 (±18m)
Altitude: 54m
FRSX+VVR, Colnel Ganj, George Town, Prayagraj



21.06.2023 15:06

इतनी छोटी मानसिकता के लोग हैं।

प्लांट गोथ प्रमोटींग रजिजोवैक्टरिया फसल उत्पादन में अति महत्वपूर्ण

लोकप्रिय ब्यूरो

प्रयागराज। नेहरू ग्राम भारती मानित विश्वविद्यालय के वनस्पति विज्ञान विभाग, फॉरेस्ट रिसर्च सेंटर, प्रयागराज तथा इको हेल्थ बायोसाइंस इंस्टीट्यूट, लखनऊ के संयुक्त तत्वावधान में चल रहे सात दिवसीय कार्यशाला सूक्ष्मजीवों के विश्लेषण को जैवप्रमोटींगकी निष्कर्षण के द्वितीय दिन कि आगोजित वक्ता डॉ. कुमुद दुबे, एक अर सोई आर प्रयागराज ने बताया कि प्लांट गोथ प्रमोटींग रजिजोवैक्टरिया फसल उत्पादन में अति महत्वपूर्ण है। लखनऊ विश्वविद्यालय के वनस्पति विज्ञान के सहायक आचार्य डॉ. अजय सिंह ने पादप कार्यिकी के प्राथमिक कार्यान्वयन पर प्रभाव और पादप तन्त्र पर स्टीपत किया। कार्यक्रम का संचालन प्रदीप उपाध्याय ने किया इस अवसर पर डॉ. शक्ति नाथ विपरीत

छात्र मालवीय, डॉ. आदिनाथ तर्कनीकी सत्र का संचालन डॉ. इको हेल्थ बायोसाइंस प्रमुख डॉ. कोमलेश यादव, डॉ. जमाल सिद्दीकी, श्री रामनिवास, डॉ. आरि नाथ, प्रदीप उपाध्याय, ने प्रतिभागियों को करके और छात्रों ने स्वयं अभ्यास किया।

प्रतिभागियों में डॉ. अरिना त्रिपाठी, तीर्थकर महावीर विश्वविद्यालय, मुगलबाद तथा स्वर्णि शुकला ने प्रश्नों का संचालन किया। साथ ही श्री भजन शरद, अंहुमान दुबे, धर्म मूल नवीन मोहल बी.एससी. अंतिम सेमेस्टर के छात्रों भी सम्मिलित रहे।

सूक्ष्म शैवाल गंदे जल के शुद्धिकरण में आवश्यक झुंसी।

नेहरू ग्राम भारती मानित विश्वविद्यालय के वनस्पति विज्ञान विभाग में चल रहे सात दिवसीय कार्यशाला के तीसरे दिन शनिवार को वक्ता सहायक आचार्य, जैव रसायन विभाग, एसएस खन्ना गर्ल्स डिग्री कालेज के डॉ. शैलेन्द्र सिंह ने बताया कि सूक्ष्म शैवाल तथा नील हरित शैवाल के स्टार्टअप आधारित तकनीकी के प्रयोग से भारतीय बाजार में बायोजोरप्शन द्वारा गंदे जल के शुद्धिकरण करने में महत्वपूर्ण है। संवाद



सूक्ष्म जीवों का विश्लेषण मानव रक्षा के लिए जरूरी : प्रो. शांति सुंदरम

झुंसी। नेहरू ग्राम भारती मानित विश्वविद्यालय के वनस्पति विज्ञान विभाग, फॉरेस्ट रिसर्च सेंटर, प्रयागराज एवं इको हेल्थ बायो साइंस इंस्टीट्यूट, लखनऊ के संयुक्त तत्वावधान में सात दिवसीय कार्यशाला का शुभारंभ बृहस्पतिवार को किया गया। प्रमुख वक्ता प्रो. शांति सुंदरम ने कहा कि सूक्ष्म जीवों का विश्लेषण वैश्विक पर्यावरणीय परिवर्तन, प्रति सूक्ष्मजीवी ड्रग रेंजिस्टर्स के लिए जीन और जीनोम मानव रक्षार्थ के लिए जरूरी है। विश्वविद्यालय के कुलाधिपति जेएन मिश्र ने कहा कि वैज्ञानिक तकनीकी के क्लिष्ट शब्दावली को प्रदर्शित करके ग्रामीण परिवेश के शोध छात्रों को वैश्विक विकास को कड़ी में अग्रिम बनाना होगा।

विश्वविद्यालय के कुलपति प्रो. संजय कुमार श्रीवास्तव ने कहा कि प्राकृतिक संसाधनों को मानवता के शोध में बायो एंथिक्स को प्रशिक्षण में संज्ञान में लाना जरूरी है। विश्वविद्यालय के सम कुलपति डॉ. एससी तिवारी ने सूक्ष्म जीवों को कृषि प्रौद्योगिकी में उन्नति के लिए अति आवश्यक है। क्योंकि आज मृदा लीचिंग सामान्य समस्या बन गई है। संवाद



