
Doc.No. (E-YUVA/AU/EVT/2023/)

Program Report

Hand's On Skill Development Workshop on Basic Tools in Biotechnology

- 1. Program Type:** Skill Development workshop
- 2. Organized By:** E-YUVA Centre, Adamas University (Supported by BIRAC) and Brahmananda Keshab Chandra College
- 3. Theme:** Hands on training 'Basic tools in Biotechnology'
- 4. Academic Year:**
- 5. Quarter:**
- 6. Date:** 25th April- 8th May ,2023
- 7. Total number of participants:** 20
- 8. Mode:** Offline
- 9. Budget/ Expenditure:** 10388.50

Summary of Event:

On 25th April, 2023 E-YUVA Centre, Adams University (Supported by BIRAC) and Brahmananda Keshab Chandra College jointly organized a hands on training workshop on 'Basic Tools in Biotechnology'. Students of Brahmananda Keshab Chandra enrolled for the workshop. The resource persons of the workshop were faculties of E-YUVA centre and Brahmananda Keshab Chandra College. Around 20 students from Zoology and Botany department of Brahmananda Keshab Chandra College participated in this offline training program and learnt a lot about basic biotechnology practical methods. At the end of the session their practical knowledge was examined by an assessment also and they all get the certificates for completing the course.

Objective: Trained the students in Biotechnology tools and techniques for skill development

Event details:

On 25th April, 2023 E-YUVA Centre, Adams University (Supported by BIRAC) and Brahmananda Keshab Chandra College jointly organized a hands on training workshop on 'Basic Tools in Biotechnology'. The resource persons of the workshop were Dr. Saptarshi Chatterjee (Chief Coordinator, E-YUVA Centre, Supported by BIRAC, Associate Professor Microbiology Dept. Adamas University), Dr. Sourav Sikdar (Assistant Professor, Dept. of Zoology BKC College), Dr. Neelakshi Sarkar (Assistant Professor, Dept. of Zoology BKC College), Dr. Mousumi Saha (Project Coordinator E-YUVA Centre Adamas University Supported by BIRAC), Dr. Arijit Bhattacharya (Associate Professor & HOD , Dept. of Biological Sciences Adamas University), Dr. Soumalya Mukherjee (Assistant Professor,& HOD , Dept. of Zoology BKC College) , Dr. Samrat Paul (Innovation Fellow (PDF), E-YUV Centre, Adamas University , Supported by BIRAC) and Dr. Goutam Mukherjee (Innovation Fellow (PDF), E-YUV Centre, Adamas University , Supported by BIRAC). Also an Industrial Session was occurred by SynBiogenesis and ProteiNext India Pvt. Ltd.

1st Day of Workshop

On 25th April the inauguration ceremony was arranged in smart classroom of E-YUVA Centre. Our Honorable Pro Vice Chancellor Prof. Dr. Dipankar Bhattacharyay, Honorable Prof. and Dean , School of Life Science & Biotechnology Prof. Rudra Prasad Saha were present with others. All of them spoke about the main concern about this hands on workshop. After this Dr. Arijit Bhattacharya (Associate Professor & HOD, Dept. of Biological Sciences Adamas University) took a session on Genomics. Next industrial session was taken by Debjit Safui (founder of ProteiNext India Pvt. Ltd.) and Mr. Debabrata Mandal (founder of SynBiogenesis) respectively.

2nd Day of Workshop

On the occasion of IP Day Celebration the students were attend skill development workshop: "An Industry-Academia Initiative". Various speaker attend the program and delivered speech on various topics like IPR, Patent apply, entrepreneurship etc. Also participated in Poster Presentation competition.

3rd Day of Workshop

Next day, for the celebration of World IP Day and Inauguration of IPR Cell Supported by DSTBT Govt. of West Bengal students were attending the program.

4th Day of Workshop

Dr. Saptarshi Chatterjee took a theory class on Basic concept of DNA and introduced all the lab instruments of microbiology and cell culture lab. Next Dr. Samrat Paul taught about reagents and buffer preparation. In the second half, students were trained about the culture techniques of bacteria under the guidance of Dr. Mousumi Saha.

5th Day of Workshop

On 2nd May, Dr. Neelakshi Sarkar gave a theory session on DNA isolation techniques. Then students were divided for the practical session in two groups of ten students. Then one group worked under Dr. Gautam Mukherjee on isolation of bacterial genomic DNA and another group was trained on genomic DNA isolation from human blood sample by Dr. Samrat Paul.

6th Day of Workshop

Dr. Sourav Sikdar took a theory class on Agarose Gel Electrophoresis .Next purity checking of isolated DNA by spectrophotometer was done. After this, students did the gel electrophoresis and using UV translumintor to observe DNA bands.

7th Day of Workshop

A theory session of PCR and Primer Designing was taken by Dr. Soumalyo Mukherjee. Next they had a practical of PCR with visualization under the guidance of Dr. Goutam Mukherjee.

8th Day of Workshop

On last day, bioinformatics theory and practical classes were taken by Dr. Mousumi Saha. After that students gave an assessment based on their training. After the valedictory session all students got the certificates and enriched with skills.

11. Mandatory Submission:

a) Flyer

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PURSUE EXCELLENCE

ADAMAS UNIVERSITY
CENTER FOR INCUBATION

E-YUVA CENTRE
ADAMAS UNIVERSITY

birac
Ignite Innovation in India

**Hand's On Skill Development Workshop
(One Week Certificate Course)
On
"Basic Tools in Biotechnology"**

Jointly Organized by
E-YUVA Centre, Department of Zoology,
Adamas University, Brahmananda Keshab Chandra College
(Supported by BIRAC) (Affiliated to West Bengal
State University)

Date: From 17th to 29th April, 2023, **Time:** 9.30 am to 5:00 pm
Venue: E-YUVA Centre, Adamas University (Supported by BIRAC)

Registration Fee: Rs. 1200/-
Bank Details for Registration Fees
Bank name: Bank of India; Branch name: AIT Campus;
Account No.: 415620110000036;
Account Name: Adamas University; IFSC code: BKID0004156
Last date of Registration: 12th April, 2023

Scan for Registration

Course Attraction:
Introduction to a Molecular Biology Laboratory and Equipment | Isolation of Bacterial genomic or plasmid DNA from traditional method and Kit | Quantification and Purity Assessment of DNA | Agarose Gel Electrophoresis with Gel Documentation | Basic on Primer Designing | Demonstration of Polymerase Chain Reaction (PCR) with the isolated DNA | Basic Bioinformatics | Research Talk on Genomics | Hands-on training of all enrolled students | Student Evaluation and felicitation, Certificates to all participants.

Patrons
Prof. (Dr.) Samit Ray
Hon'ble Chancellor,
Adamas University

Prof. Papia Chakrabarti
Principal, Brahmananda Keshab
Chandra College

Conveners
Dr. Saptarshi Chatterjee
Chief Coordinator, E-YUVA Centre, (Supported by BIRAC)
Associate Director, Center for Incubation
Associate Professor, Microbiology, Adamas University

Dr. Sourav Sikdar
Assistant Professor, Dept. of Zoology,
Brahmananda Keshab Chandra College

Organizing Secretary
Dr. Mousumi Saha
Project Coordinator, E-YUVA Centre
Adamas University (Supported by BIRAC)

Dr. Neelakshi Sarkar
Assistant Professor, Dept. of Zoology,
Brahmananda Keshab Chandra College

ADAMAS UNIVERSITY
E-YUVA CENTRE
BIRAC
SYNBIOTIC CENTRE
INDIA

Hand's On Skill Development Workshop (One Week Certificate Course) On "Basic Tools in Biotechnology"

Jointly Organized by
 E-YUVA Centre, Department of Zoology,
 Adamas University, Brahmananda Keshab Chandra College
 (Supported by BIRAC) (Affiliated to West Bengal State University)

Date: 25th April to 5th May, 2023 **Time:** 9.30 am to 5:00 pm
Venue: E-YUVA Centre, Adamas University (Supported by BIRAC)

Resource Persons

 Dr. Saptarshi Chatterjee Chief Coordinator, E-YUVA Centre, (Supported by BIRAC) Associate Professor, Microbiology Adamas University	 Dr. Sourav Sikdar Assistant Professor, Dept. of Zoology, Brahmananda Keshab Chandra College	 Dr. Neelakshi Sarkar Assistant Professor, Dept. of Zoology, Brahmananda Keshab Chandra College	 Dr. Mousumi Saha Project Coordinator E-YUVA Centre, Adamas University (Supported by BIRAC)
 Dr. Arijit Bhattacharya Associate Professor & HOD, Dept. of Biological Sciences, Adamas University	 Dr. Soumya Mukherjee Assistant Professor, Dept. of Zoology, Brahmananda Keshab Chandra College	 Dr. Samrat Paul Innovation Fellow (PIF), E-YUVA Centre, Adamas University (Supported by BIRAC)	 Dr. Goutam Mukherjee Innovation Fellow (PIF), E-YUVA Centre, Adamas University (Supported by BIRAC)

Industrial Session will be conducted by
Synbiogenesis and ProteiNext India Pvt. Ltd




b) Social Media Link:

LinkedIn Link:

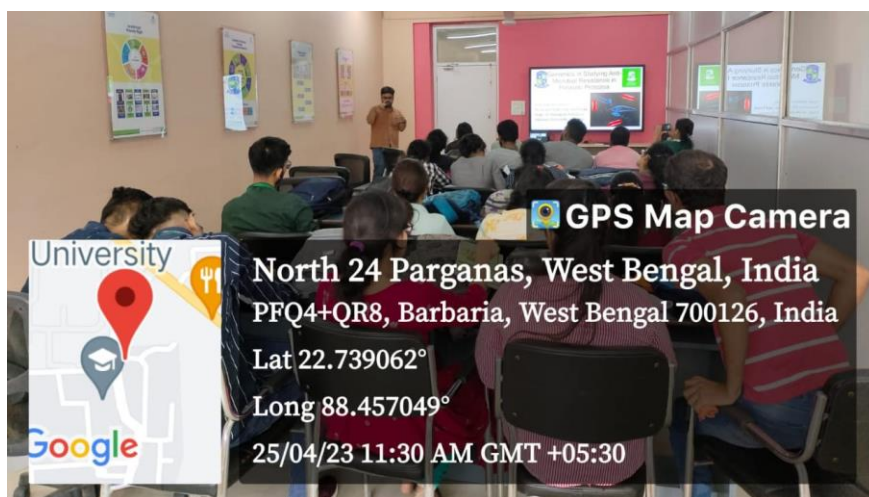
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Facebook Link:

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c) Photos





Glimpse of Workshop

Signature:

Dr. Saptarshi Chatterjee
Chief Coordinator and Principal Project Investigator
E-YUVA Centre
Supported by BIRAC (A Govt. of India Enterprise)
Adamas University