Biotech Barta

An annual newsletter of Advanced Institutional Level Biotech Hub (Phase II) of Dhing College Volume I (2023-2024)

Workshops, Outreach & Short Term Course



Laboratory Instrumentation Techniques

A five days' Workshop cum Handson-Training program on "Laboratory Instrumentation Technique" was conducted Dhing College, Nagaon from 7th Nov-11th Nov 2023 organized by Advance Institutional Level Biotech Hub, Dhing College, Nagaon.The primary aim of the workshop was to enhance participants' understanding of fundamental instrumentation techniques employed in scientific laboratories, given their pivotal role in assessing various scientific phenomena. The workshop additionally emphasized aspects related to Research & Development, entrepreneurial ventures, and innovations within the realm of biology, encompassing diverse applications of instrumentation processes. The instructional components of the program comprised lectures and discussions, complemented by hands-on practical sessions. These practical sessions delved into Basic Laboratory Techniques, including but not limited to sample collection, serial dilution, sterilization techniques,

microscopy, media preparation,

pure culture techniques, colony counting, and titration procedures.



Herbal Medicinal Plant Processing (In collaboration with ADP College, Nagaon)

A five days' Workshop cum Hands-on-Training program on "Herbal Processing Technology" was conducted at Anandaram Dhekial Phookan College, Nagaon from 9th Oct-13th Oct 2023 organized by Advance Institutional Level Biotech Hub, Dhing College, Nagaon, in collaboration with the Department of Herbal Science and Technology, ADP College, Nagaon. The main objective of the workshop was to create awareness on the indigenous Medicinal and Aromatic plants, its conservation and sustainable use. The workshop also focused on the Research & Development and Herbal drug development strategies. The lectures and discussions were followed by hands-on practical session on Basic Laboratory Technique, Identification of Crude Drug, Solvent Extraction of Crude Drug, Phytochemical Screening of Phytopharmaceuticals and Herbal Drug Formulation.



HIGHLIGHTS ♦ SCIENCE WORKSHOP & HANDS-ON-TRAINING ON 'HERBAL MEDICINAL PLANT PROCESSING, LABORATORY INSTRUMENTATION TECHNIQUES, BASIC **LABORATORY** SKILLS ON MICROBIOLOGY WITH STUDENTS ♦ OUTREACH ACTIVITY 'FOLDSCOPIC VISUALIZATION P SCHOOL CHILDRIN YILLAGE LIMEL COVIL COVID AWARENESS CAMP, NATUROF AT AND YOGA ♦ INTERACTIVE SESSIONS WITH RESEARCH SCHOLARS ATTENDINE SEMINARS/LECTURES ♦ SHORT TERM COURSE PROGRAMMES "BLENDED TEACHING &LEARNING FOR SCHOOL TEACHERS" IN ASSOCIATION WITH SCERT, ASSAM

Workshops, Outreach & Short Term Course



Yoga Camp



Foldscopic Visualization for School Children

A two days' Outreach programme program on "Foldscopic Visualization for School Children" was conducted at Dhing K.B.H.S, Nagaon from 29th Nov-30th Nov 2023 organized by Advance Institutional Level Biotech Hub, Dhing College, Nagaon. The primary aim of the programme was to enhance school students' understanding of fundamental knowledge on microscopic techniques, given their pivotal role in assessing various scientific phenomena. The outreach programme additionally helped students to self assemble foldscopes for slide viewing, importance of foldscopes, their applications and benefits. The instructional components of the program comprised lectures and demonstrations, complemented by self assembling of foldscopes by each groups of students.

Naturopathy and

A three days' Outreach Programme on "Naturopathy and Yoga Camp" was conducted Dhing College, Nagaon from 9th Feb-11th Feb 2024 organized by Advance Institutional Level Biotech Hub, Dhing College, Nagaon in association with Arogya Yoga Kendra, Nagaon. The main objective of the Naturopathy and Yoga camp was to deepen participants' knowledge and practical experience in the principles and techniques of naturopathy and yoga, recognizing their integral roles in fostering holistic wellbeing. In addition to exploring the foundational aspects of naturopathy and yoga, the camp placed a significant emphasis on practical applications and their real-world implications. Participants engaged in immersive sessions that not only covered the theoretical underpinnings but also provided hands-on experiences in various naturopathic and yogic practices. This approach aimed to empower participants with the skills and insights necessary to incorporate these holistic disciplines into their daily lives.

Basic Laboratory Skills on Microbiology

A five days' weekshop Programme on "Basic Laboratory Skills on Microbiology was conducted Dhire; College, Nagaon from 21 March-2 March 2024 organized Advance Institutional Level Biotech Hub, lating College, Nagaon. The objective of the Basic Laborator Skills course in Microbiology is to equip students with foundational knowledge and practical profesioncy essential for conducting haboratory experiments in the field of microbiology. Through hands-on training and theoretical instruction, students will develop competency in fundamental laboratory techniques, including aseptic techniques, microscopy, culturing and staining methods, and biochemical assays. Additionally, the course aims to instill a strong understanding of laboratory safety protocols, data interpretation, and recordkeeping practices. By fostering these essential skills, students will be better prepared to pursue advanced studies or careers in microbiology-related fields, contributing to scientific research, healthcare, and biotechnology sectors.

Workshops, Outreach & Short Term Course



Blended Teaching & Learning for School Teachers

A five days' Short Term Course (STC) programme on "Blended Teaching & Learning for School Teachers" was conducted Dhing College, Nagaon from 6th Feb-10th Feb 2024 organized by Advance Institutional Level Biotech Hub, Dhing College, Nagaon in association with SCERT, Assam. The primary aim of the workshop was to enhance teacher's understanding of Blended teaching and learning for school teachers that combines traditional face-to-face instruction with online or digital learning experiences. And employ this hybrid model to leverage the strengths of both traditional classroom methods and technology-mediated learning to create a more flexible and effective learning environment.



Five-day-long DBT-sponsored short-term course for school teachers concluded at Dhing College

CORRESPONDENT

NAGAON, Feb 13: As NAGAON, Feb 13: An Advance Institutional Level Biotech Hub, Dhing College, in association with the SCERT, Assam, organised a five-day DBT-sponsored short-term curuse on "blended teaching and learning for school teachers' at the college from February 6.

tional classroom methods and technology-mediated learning to create a more flexible as well as effective learning environment. Dr. Biman Hazarika, principal of the college, naugurated the programme, while Dr. Sanjeeb &r Nath, coordinator of the Advance Institutional K Nath, coordinator of the Advance Institutional Level Biotech Hub and HoD. Department of Botany, clucidated the objectives of the shorterm course on blended teaching and learning for school teachers. Chayaniaka Sankia from DIET, Nagaon, attended the programme as the keynote speaker.

Over 38 particulars.

Speaker.

Over 38 participants
deputed from various high
schools, ME, and lower

primary schools by the Inspector of Schools, as well as BEEO, Nagaon, took part in the pro-

took part in the pro-gramme.

Chayanika Saikia, a lecturer of DIET, Nagaon Dr. Ranjeeta Kakoti, assistant professor, Department of Educa-tion, Dr. BKB College; Dr. Tribeni Saikia from Srimanta Sankardev Wichmanidyalawa: Dr. Vishwavidyalaya; Dr. Sikha Bhagawati, Sikha Bhagawati, assistant professor, Nowgong Girls' College Dr. Sewali Borah from the College of Teachers Education, Nagaon; Dr. Nabanita Baishya, Dhing College; and Dr. Kangka na Sarma were present in the programme as re-source persons.



Village Level COVID & Post COVID awareness Camp

The two-day Post Covid Women Entrepreneurial Programme held from March 27th to 28th, 2024, at the Advanced Institutional Level Biotech Hub, Dhing College, Nagaon, was a significant initiative aimed at empowering women entrepreneurs adversely affected by the pandemic. The program's overarching goal was to provide these women with the necessary tools, resources, and skills to not only recover from the challenges posed by the pandemic but also to thrive in the transformed economic landscape.



Workshop on herbal processing technology held

A CORRESPONDENT

NAGAON, Oct 18: Advance Institutional Level Biotech Hub, Dhing College, in collaboration with the Department of

Herbal Science and Technology, ADP
College, Nagaon organized a five-day
long workshop-cum-hands-on training
programme on 'Herbal processing technology' at ADP College from October 3
to October 3.
The prime objective of the workshop
was to create awareness on indigenous
medicinal and aromatic plants, their conservation, and sustainable use as well as
to focus on research and herbal drug de-

The Assam Rising

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Workshop on Laboratory Instrumentation Technique held

scientific phenomena. It also emphasized aspects related to Research & Development, entrepreneural aventures and innovations within the realin of biology, encompassing diverse applications of instrumentation processes. The instructional components of the programme compress less complemented by handson practical sessions. These practical sessions for cused on Basic Laboratory Techniques, including sample collection, serial di-little distribution, at certification levels.

tivities. Iccinical seasons followed after the inaugural season, The programme witnessed the active participation of 110 undergraduate students from the Departments of Botany, Zoology, Physics and Chemistry of Dhing College, Dhing Over 125 participants, comprising students, faculty, and resource persons, actively participated in the comprehensive event. Dr Tapan Dutta, principal, JN College, Boko, Dr Bula Choudhury, senior scientist, Guwahati Biotech 11st, Guwahati Biotech

Sharma, senior technical officer, CIF Department, IIT Guwahati. Inamul Haque, Application Sup-port Executive, CIF Department, IIT Gawahati, Kishare Mohan Tahakdar, Applica-

Workshop on Laboratory Instrumentation Technique held

Assam Rislag
Nagana, Nevember 12: A
five day long DBT sponored workshop cum
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programme on Laboratory
natrumentation Technique
was organized by Advance
natitutional Level Biotech
tub, Dhing College,
Lagaon from Nov 7 to Nov
1, 2023 here. The primary
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importance in the controllege of th

scientific phenomena. It also emphasized aspects related to Research & Development, entrepreneurial within the realm of biology, encompassing diverse applications of instrumentation processes. The instrucplications of instrumenta-tion processes. The instruc-tional components of the programme comprised lec-tures and discussions, complemented by hands-on practical sessions.

preparation, pure culture techniques, colony counting, titration procedures to Binnan Hazarka, principal of Dhing College, inaugurated the programme Dr Tapan Dutta, Principal of TN College, Boko, attended the inaugural session as the chief guest and Dr Manol F. Manol F. Sakia, Associate professor (Rtd.), Department of Botany, Zoolegy, Physics and Chemistry, of Dhing College, delivered the keynote address.

officer, CIF Department, IIT Guivahati, Inamul Haque, Application Support Executive, CIF Department, IIT Guivahati, Rahve Mohan Talukdar, Application Support Executive, CIF Department, IIT Guivahati, Dr Ujiaynta Das, Zoology Department, Ding Gollege, Dr Makut Moni Saikis, Department of Chemistry,

Editorial

It is with great pleasure we are presenting the Advanced Institutional Level Biotech Hub, Dhing College newsletter the "Biotech Barta" to our esteemed readers. The scope of the newsletter is to enhance the scientific aspect for undergraduate students of Botany and also to highlight the various innovative activities of the Department which has been carried out throughout the year. This is an initiative on our part.

DBT sponsored naturopathy and yoga camp held

Assam Rising, Nagaon, February 18: Advance In-stitutional Level Biotech Hub, Dhing College in association with Arogya Yoga Kendra, Dhing organized a three day long outreach ne on na turopathy

by DBT. The objective of the programme was to en-hance the students about how they heal their bodies by using natural elements like air, water, soil, etc through naturopathy and and yoga camp at the col-lege premise from February 9 to February 11 here. The techniques of naturopathy

through which one can cleanse to remove toxins from the body. Dr Biman Hazarika, principal of the college inau-gurated the programme while Rupjyoti Kar, secretary of Arogya Yoga Kendra, Dhing attended the programme as the resource person. Gobin Ch Bhamli, Department of Chemistry, was present as

the keynote speaker in the camp. Dr Sanjceb Kr Nath, coordinator to Advance In-stitutional Level Biotech Hub and HoD, Department of Botany, elucidated the objectives of the programme. Over 60 students from the college participated in the programme, a press note asserted here.



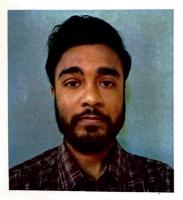
DR. MONOJ KUMAR SAIKIA



DR. SANJEEB KUMAR NATH



MS. CHANDAMITA GOSWAMI



MR. UDDHAB TALUKDAR



DR. UJJAYANTA DAS

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