

## EVENTS & HAPPENINGS

### ToT Program for Gujarat ITI Trainers

A Training of Trainers (ToT) Program held at SDI-B for Gujarat ITI Instructors in Electrician Trade, under the GATI Project in Gujarat, was held from 10th to 20th January 2023. This program was specifically designed to train the participants in basics as well as advanced

level knowledge and skills in electrical trade. The program provided an invaluable opportunity for instructors to gain knowledge and skills necessary to effectively train ITI students in this trade. A total of 15 participants attended the program. In the valedictory ceremony, Sh. Sanjay Srivastava, CEO SDI-B distributed certificates to the participants



January 17, 2023. In a meeting presided over by Mr Padyut Bordoloi (MP), the Committee members were briefed about SDI Bhubaneswar - its genesis, working and future challenges - in the presence of Mr Rohit Mathur, Jt Secretary, MoP&NG; Mr Ranjan Ku Mohapatra, Director (HR), IndianOil & Chairman, SDI-B and other senior officials of IndianOil and SDI-B.

### Workshop on High-end Instruments by ICT-IOC Bhubaneswar

A one-week workshop on hands-on experiences with high-end instruments was organized by ICT-IOC Bhubaneswar at SDI-B from 3rd to 7th January 2023. The event aimed to bring together teachers and researchers from various colleges and universities to provide

access to quality knowledge and training in the utilization of high-end instruments, such as Field emission scanning electron microscopy (FESEM), Field emission scanning electron microscopy (TEM), X-ray powder diffraction (XRD), and Nuclear magnetic resonance (NMR). The program's objective was to upgrade the skills and knowledge of teachers and researchers give them exposure to advanced research technologies related to characterization techniques.



The CEO, SDI-B presented an overview of the initiative and its journey thus far. He highlighted the hard work and dedication that had gone into making the institute a success for the positive impact it had on the society. Later, The committee members were taken on a tour of the campus, where they were shown the facilities, laboratories, and Centers of Excellence established at SDI-B.

### Visit of Standing Committee on Petroleum and Natural Gas

The Standing Committee on Petroleum and Natural Gas visited SDI-B on



## 74<sup>th</sup> Republic Day Celebrations

SDI Bhubaneswar celebrated 74th Republic Day with patriotic fervour. The event commenced with unfurling of the National Flag by Shri Rajesh Tripathy, COO, SDI-B followed by National Anthem. Students, faculty members, all other senior officials and Heads of Training Partners were also attended the ceremony.

After unfurling the flag, the Chief Operating Officer addressed the gathering, emphasizing the importance of the Constitution and the responsibility of protecting our independent nation, which our ancestors have bequeathed to us. He highlighted the need to protect India from poverty, unemployment, energy shortages, global recession, trade deficits, and international war threats, and urged the younger generation to

understand the significance of becoming responsible citizens. He concluded by adding that patriotism also means connecting with the vibes of nationalism. As part of the Republic Day celebration, the students of the institute organized a cultural program. The cultural ceremony commenced with the Odisha State Anthem followed by a series of captivating performances by the students.



## Project Demonstration by Embedded Full Stack IoT Analyst Students

The inaugural batch of students enrolled in the Embedded Full Stack IoT Analyst program, being run in collaboration with Phytex, has achieved remarkable success, creating a range of project ideas having potential for both commercial and domestic applications. The 6-month course, designed for engineering graduates, offers a great opportunity to gain knowledge and experience in this rapidly growing field.

The projects on display covered a wide range of application areas such as access control system, automatic temperature control system, case echo back tool, electrical panel automation system, GPS monitoring system, hydroponic farming, patient monitoring system, and smart shop and smart street light controller. With these projects, the students demonstrated their learning and creativity, and

have shown that they can produce innovative solutions to complex problems. Glimpses of two such projects are given below:

**Hydroponic Farming (Smart Agriculture)** - As the global population continues to grow, the demand for food is also increasing exponentially. To meet this demand, agricultural land must be expanded, or current resources must be utilized efficiently to produce sufficient yield. Unfortunately, in a rapidly changing world, reduced water availability could impede any progress made in crop productivity, and this could have a disproportionate effect on different parts of the world.

To combat this issue, a model on hydroponic farming has been developed. This innovative method of farming utilizes a nutrient-rich water solution to grow crops, eliminating the need for soil and reducing water consumption. Hydroponic farming is a sustainable and efficient way to produce food, and it could be the key to meeting the world's growing

demand for food. The model continuously monitors the environment temperature, humidity, and water level throughout the system using various sensors. The DHTR11 sensor provides temperature and humidity readings to determine whether the environment is suitable for the crops. All sensor data is sent to the cloud, allowing users to monitor the data remotely and receive notifications on their mobile devices.

This model is the ideal solution for farming, as it provides good quality water, sufficient agricultural land, and the right environment for crops with minimal human involvement.





## Smart Street Light Controller

Nowadays, Efficient electricity consumption is of utmost importance to avoid wastage of energy at various places such as streets, public sectors, roads, and railway stations. To address this problem, a model has been designed that automati-

cally turns on/off the lamps with partial brightness as per the variation in the lux level of the place. Additionally, when someone approaches a streetlight, it will turn on with full brightness. The project aims to design a system of street light controllers for efficient use of electricity thereby reducing power consumption. This project is designed using a Light

Dependent Resistor (LDR), Passive Infrared Sensor (PIR), and LED. It has resulted in energy saving of approx. 42.45%. Therefore, the system can save electricity consumption up to 40 to 45%, making it an effective and efficient solution to reduce energy wastage.



## STUDENT SPEAK

I am Rabindra Swain, coming from an Odia lower middle-class background. I joined Asst Trainee Chef course in August 2022 and the exposure at SDI-B has left me amazed. The environment at the Institute helps you enhance academic and non-academic skills to make you industry ready. The three amazing months just passed in the blink of an eye. This training program explores various concepts of skill development, personality development, practical skill as per the industry requirement. The trainers guide and support us in every step of success and failure to motivate and teach us. After getting placement in Taj SAT, Bangalore, I can look forward to a bright future ahead for which I am extremely thankful to SDI-B that provided me a platform to enhance and develop my abilities and gave me an opportunity to showcase them.

## CYBERSECURITY QUIZ-JAN 2023

Congratulations! Last month's quiz was a huge success, with an overwhelming response from over 100 students. Answers with detailed explanation are uploaded in the intranet portal. Please go through to update your knowledge on Cyber Security. The top 3 winners of Dec 2022 Quiz are Rishabh Jaiswal, Sanjay Kumar Toppo, Shaktisai Mishra... Congratulations!

Take part in the January 2023 quiz before 25th Feb 2023. The top 3 winners will get honorable mention in the next edition of SDI-B Pulse. To participate in the quiz, please scan the QR given alongside



# KNOWLEDGE POST

## Preventive Health Care

Preventive health care is an important part of remaining healthy and strong - it's not just about getting a checkup every now and then, but rather taking the initiative to ensure that risks are minimized through lifestyle choices. This means engaging in regular physical activity and avoiding riskier behaviors such as smoking or excessive consumption of alcohol. It also involves learning about proper nutrition, practicing stress management techniques, accessing preventive medical services, as well as doing things like taking advantage of workplace wellness programs or attending educational events on health topics. Doing this can go a long way towards helping you stay healthy and feeling your best.



## Presentation Tips

### 10 Tips to Make World Class Business Presentations



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Contact us:

Skill Development Institute, Bhubaneswar (SDI-B)

At/P.O.-Taraboi, PS-Jatni, Dist-Khordha, Odisha, Pin-752050

Ph. No.: 0674 3520200, 8280109799, Email: [contact@sdibhubaneswar.co.in](mailto:contact@sdibhubaneswar.co.in)

Follow us : [f](#) skilldevelopmentinstitutebhubaneswar [t](#) sdibhubaneswar

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