

Technology Business Incubator (TBI)

Govt. Engineering College, Palakkad

Activity Report as on 31-03-2023

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Technology Business Incubator (TBI) is one of the flagship projects of Govt. Engineering College, Palakkad. The facility provides infrastructural, academic and technical support to upcoming entrepreneurs to fulfill their dreams. The team of academicians, industry experts and mentors provide the necessary guidance and motivation to create the pathway to success for anyone who steps into the facility. TBI is committed to inculcating the knowledge and skills to foster young engineers to become successful entrepreneurs, providing employment, developing innovative products and services and thereby building up an indigenous self-reliant nation.

Within the last six years, TBI at GEC Palakkad was able to set up Infrastructure to hold 8 physical incubation units, a seminar hall, a mini fabrication lab and an amenity area for the incubates. It also provides basic IT infrastructures like Personal Computers, sharable Printers, high-speed Internet services, Mini fabrication lab etc.

Currently, a single firm M/s. TeQlot Innovations is working at TBI and the firm is completing tenure this year. All other firms dropped out for trivial reasons. Opting for higher studies and lack of seed funds is the reason for disengagement. M/s. TeQlot Innovantz was the only firm that conducted its business throughout the pandemic period. They have launched an array of new products and sustained in the market throughout the year.

After the COVID-19 pandemic, the market is rapidly picking up. Even though the production and R&D activities are still at a slow pace. To fuel up, it requires sufficient seed funding and proper guidance. Collaboration with pioneer institutions and industries like NIT Calicut, IISc. Bangalore, HAL, etc. will help us to grow further. Association with the Technology Innovation Foundation of the Indian Institute Of Technology, Palakkad (**TECHIN**) was a good initiative. Our students and incumbents participated in various programs at the Technology Innovation Foundation of **IIT Palakkad (TECHIN)**. Though we have MoU with the institution we enjoy the liberty of attending most of the sessions free of cost.

We got the opportunity to participate in several offline and online programs hosted by prestigious institutions like IIT Palakkad, IIT Karaghapur, HAL-IISc. Bangalore, DIC-Palakkad, MSME-DI Trissur and many more. Our students participated IEDC Summit, IEEE events and Hackathon hosted by various institutions at the state level and national levels. Students also participated in MSME IDEA Hackathon 2.0 for seed funding.

To enhance the skills and employability we conducted Induction Program for pre-final and final year BTech students of all branches of our institution on Entrepreneurship and the various government initiatives for the promotion of the startup ecosystem.



Fig1: Three days workshop

Three days district level resident workshop “സ്കൂളോൾഡ് 2023” for Higher secondary students under the Samagra Siksha Kerala by the Department of General Education, Govt. of Kerala was conducted at GEC Palakkad in association with BRC Cheruppalasserry, Palakkad Kerala. TBI associated with the program and conducted sessions to imbibe scientific temper and develop entrepreneurial skills in the youth of society.



Fig 2 : Internship Program for ITI students

To nature skill full artisans by inculcating quality education and hands-on experience is one of our primary objectives. To execute this TBI in association with M/s. TeQlot Innovations conducted two


weeks intensive training program for Industrial Training Institute students as a part of their Internship program. The syllabus covered basic industrial safety to core domain topics in electronics and software development. The feedback indicates that the program gave an overview and experience of how various products are designed & developed in the industry. Forty students from PKM ITI, Kottappuram, Kerala participated in the program.







List of training programs hosted at TBI

2022-23 fiscal we had planned to conduct four hi-intensity training programs at a total expense of ₹1 lakh. The administrative sanction of ₹1 lakh was also sanctioned wide proceedings no. L4/30517/22/DTE dated 08-01-2023. Due to unsaid reasons, the advance payment request was delayed indefinitely and due to insufficient funds PTA also denied the request. We humbly request to sanction the funds for the training program and others before the rush of the financial year ends. This will be helpful in planning and getting apt resource persons, providing enough time to prepare, practice and deliver good content to the needed pupils. So none of the training programs proposed were conducted in 2022-23.

Sl. No	Name of the program	Venue	Date	Amount
NIL				

List of training programs participated by our incubatees/trainees

Sl. No	Course Title	Organized by	Date	Mode	No. of Participants (Approx.)
01	MSME Sustainable (ZED) certification is an extensive drive to create awareness amongst MSMEs about Zero Defect Zero Effect practices.	 MSME DI Thrissur	06 May 2022	Online	5

02	Webinar on IPR and Patenting rules in India	 <p>MSME MICRO, SMALL & MEDIUM ENTERPRISES Development & Facilitation Office MSME-DI Thrissur</p>	16 Mar 2022	Online	20
03	Learn 3D printing 101	 <p>District Industries Centre(DIC Palakkad) in association with SNLCTE LLP. Kerala</p>	29 April 2022	Online	15
04	IEDC SUMMIT 2023	 <p>Kerala Startup mission</p>	04 Mar 2023	Offline	15
05	SAMASTHA - Technical workshop	 <p>TECHIN - IIT Palakkad</p>	05 July 2022	Online	5
06	UDYAMi - <i>Ultimate Dream of Young and Modern India</i>	 <p>MSME India.</p>	16 Sept 2022	Online	15
07	5 th Machinery Expo 2023 hosted by the Govt. of Kerala and Dept. of Industries & Commerce at Kaloor Ground, Cochin.	 <p>Govt. of Kerala</p>	11 March 2023	Offline	5

08	Industrial Visit to CIPET (Central Institute of Plastics Engineering & Technology) at Defense Park, Ottappalam.	 CIPET (Central Institute of Plastics Engineering & Technology)	01 Dec 2022	Offline	5
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✚ Miss. Anjima Prabhakar of the EEE branch successfully completed 10-day residential program **Women Entrepreneurship Program (WEP)** conducted by Kerala Institute for Entrepreneurship Development (KIED) at Kalamassery, Kochi, Kerala from 15-22 November 2022.

✚ Science and Engineering Research Board (SERB) and the Indian National Academy of Engineering (INAE) Kanpur chapter jointly conducted the program “Atmanirbhar Technologies: Engineering a secure future.” Three students of the ECE branch participated and presented their idea in the SERB-INAE CONCLAVE held at IIT Kharagpur. The idea is on a novel haptic technology named DATSAT which is an acronym for Detection, Analysis and Transfer of Smell and Touch. The team developed and modelled the idea with the help of the TBI facility at GEC Palakkad.



SERB INAE CONCLAVE two-day national level conclave at IIT Kanpur

Product Launch



Product Launch by Zeal infotech

AUTOMATIC TOKEN DISPENSER

Fig 3: Product Launch by M/s. Zeal

On 05th August 2022, M/s. ZEAL launched their debut product “An IoT-based automated token dispenser” for hospitals and other public facilities for crowd management and maintaining social distancing.

Idea pitching, Hackathon, etc.

Sl. No	Title of Program	Organized by	No. of Participants
01	MSME Idea Hackathon 2.0	MSME Govt. of India	11



MSME Idea Hackathon is an initiative of the Ministry of Micro Small and Medium Enterprises (MSME) Government of India, conducted at the national level. The benefits include financial assistance of up-to ₹ 15 lakh per approved idea for developing and nurturing of the idea into a prototype. As the host institution of MSME in Palakkad district GEC Palakkad hosted the event and conducted the preliminary scrutiny of the contestants'. Thirteen teams were registered out of which 11 are from our institute itself. The procedures were completed and the results were uploaded to the MSME portal within the stipulated time.

TBI Drive 2023

We have conducted a screening test “**TBI Drive 2023**” for selecting potential incubates for the vacant slots at the facility TBI Screening Interview was conducted on 29-03-2023 at Edusat conference hall, GEC Palakkad. Applications were invited through our website, media, newspapers and notice boards of various Govt. institutions. 14 teams registered and pitched their idea to the screening committee of TBI, GEC Palakkad. The selection committee is constituted by the Principal, TBI Coordinator, HoDs of various departments (Domain Experts), Manager of Nationalized Bank (Financial Expert), and Extension Officer – Dept. of Industries and Commerce, Govt. of Kerala. The competition was tight and most of them come up with promising ideas which can impact the market and simplify our everyday life. Seven teams were selected and invited to start their venture at our incubation facility.

Firms selected for incubation 2023

Sl.No	Name of the CEO	Description of the project/product
1	Miss. Anjima Prabhakar	Lift App
2	Miss. Sreelakshmi M	LIMS using FOSS
3	Mr. Vishnu B	Shredator Waste Mgt.
4	Mr. Gireesh T	Cloth drier
5	Mr. Since Joy	Forest fire preventer
6	Miss. Amritha T Unni	Holosync
7	Mr. Ajith P	Hybrid induction cooker

Expenditure 2022-23

In the 2022-23 fiscal, four lakh fifty thousand rupees were sanctioned by the DTE. (Ref No: D3/45704/22/DTE Dated: 17-12-2022 and L4/30517/22/DTE dated 08-01-2023). Complying with the store purchase rules we completed the procedures of E-Tender for the air conditioner system (4 units), The total expenditure for the fiscal is ₹2,90,000.00.

Activities planned for 2023-24

Sl. No	Item/ Description	Estimate Amount
01	Digital Storage Oscilloscope, Digital PSU, Tools for Mini fabrication lab, Basic components for electronics, Component rack etc.	₹ 2 Lakhs
02	Hi Intensity Training programs, attending seminars, paper presentations, IPR etc.	₹ 1.5 Lakhs
03	Website hosting with domain charges, Cloud Software subscription for 3D design and PCB designing	₹ 0.5 Lakh
03	Solar Panel and charge controller of UPS, Common access control system for students and incubates, electrical and structured caballing etc.	₹ 1 Lakh
TOTAL		₹ 5 Lakhs

The initiatives like **“Make in INDIA”** and **“Atmanirbhar Bharat Abhiyaan”** will definitely help to develop our own manufacturing units. As a host institution of the Micro Small and Medium Enterprise (MSME) department we are planning to conduct several programs in association with MSME DI for entrepreneurs and new incubates in 2023-24.

Glimpse of activities 2022-23



TBI DRIVE '23

• 29-03-2023 •



