

**Activity Report of Technology Business Incubator(TBI) at  
Govt. Engineering College, Sreekrishnapuram as on 31-03-2020**

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**Report**

Since the inception of TBI, eighteen companies initiated their Start-ups at our TBI. Some of the companies from our TBI made steep progress and were able to create a space in the market. Two companies had moved out for further expansion. iAuto Tech LLP had completed their first overseas assignment for a multi-national company at UAE. iAuto Tech LLP. also launched their first **IoT** based **Farmer Assistant Tool** in market. Digital Orb Analytics(DOA) headed by Mr. Harry Martin, have delivered a Android/iOS based Learning Management System (LMS) for IAS training and is available on Google Playstore gaining great popularity. Mr. Sreerag N S, from SNS Associates conducted pilot study on production based industries for defense and attended **Make in India** promotion program for Indigenization of Military Defense Equipments at Chandigarh, Punjab.

Mr. Vishnu Murukan, CEO of NAVA Technologies had filed patent application for his new concept petrol engine titled "**Twin Sweep Engine with Pentahedral Chamber**" with the IP Cell, Kerala State Council for Science, Technology & Environment (KSCTE), Sasthra Bhavan, Pattom, Thiruvananthapuram. The novelty is approved and the application has been forwarded to the TIFAC, New Delhi for further actions.

Viento Technologies is conducting R&D on renewable energy and they have come out with a revolutionary water pump system which can be operate without power source. We are trying to obtain a patent for the concept/idea.

We also got sanction from the **Department of Industries and Commerce, Govt. of Kerala** to start an **ED Club** at our institution. Annual grant of Rs. 20,000/- will be awarded for the activities of entrepreneurship promotional programs.

The following firms are currently working at our TBI:

| Sl. No | Name of the Firm           | Name of the CEO         | Description of project   |
|--------|----------------------------|-------------------------|--|
| 01     | i-Auto LLP.                | Mr. Nithin Kurian       | 5D Printing technology, IoT based farm automation tool, Industrial automation systems. |
| 02     | Digital Orb Analytics(DOA) | Mr. Harry Martin        | Cloud based tools for web development, design, SEO, digital marketing etc.             |
| 03     | TeQlot Solutions           | Miss. Akhila U          | Development of modernization of kitchen.   |
| 04     | SNS Associates             | Mr. Sreerag N S         | Pilot study and planning for the manufacturing of Defence equipments/ parts.           |
| 05     | FITZARCH                   | Mr. Amal Mohammed       | IoT enabled home automation  |
| 06     | Viento Technologies        | Mr. Wilson George       | Renewable energy systems, windmill guidance system                                     |
| 07     | Little Things              | Miss. Athira Nechikadan | Women empowerment through small/micro enterprises.                                     |

## Workshop and Training calendar 2019-20

| Sl. No | Name of the program  | Date                  | Venue | No. of participants |
|--------|--|-----------------------|-------|---------------------|
| 01     | STTP on Mobile Cross Platform development using <b>Xamarin Forms</b>       | 11-15<br>Jan 2019     | TBI   | 30                  |
| 02     | Short term training programme on <b>“Digital Marketing for Startups”</b>   | 28 Sept,<br>2019      | TBI   | 30                  |
| 03     | STTP on <b>Entrepreneurship for beginners</b>                              | 04 & 06,<br>Sept 2019 | TBI   | 30                  |
| 04     | <b>Industrial Robotics - SCARA</b>   | 04-05,<br>Feb 2020    | TBI   | 31                  |
| 05     | <b>Chip Level Servicing of Laptop and LED/LCD Monitors</b>                 | 06-07,<br>Feb 2020    | TBI   | 34                  |
| 06     | STTP on <b>Web Application development using JAVA</b> (For SC/ST students) | 12-13,<br>Feb 2020    | TBI   | 33                  |

### Glimpse to our programs

#### STTP Entrepreneurship for beginners

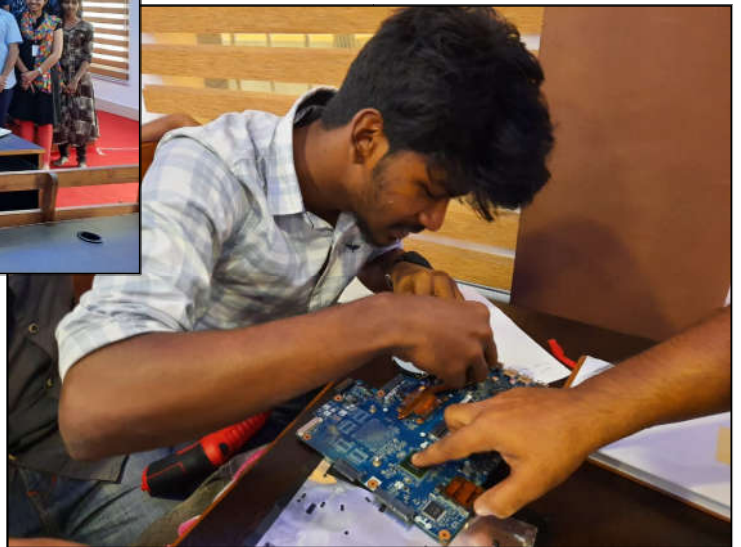




**STTP on Web Application development using JAVA**



**Hands-on Training program on  
Chip Level Servicing of Laptop and LED/LCD  
Monitors**



## External programs attended by our members and Faculty

- ❖ Mr. Tom Jose and Mr. Shafeeq, S6 ECE attended the **Enlight 2020 - ED Club Conclave 2020** organized by Department of Industries & Commerce at Keltron Campus, Vellayambalam, and Thiruvananthapuram on 13.02.2020



- ❖ Apart from this, five members from TBI had participated in training programs conducted by the District Industries Centre, Palakkad, Govt. of Kerala namely **Technology Clinic** in association with various other departments and Industry experts.
- ❖ Our members participated in events like The **Aerospace and Defence Manufacturing Show (ADMS)** at HAL convention centre, Bangalore.
- ❖ Mr. Sreerag N S, from SNS Associates conducted a pilot study on production based industries for defense and attended **Make in India** promotion program on **Combined Defense Indigenization Program** at Chandigarh.
- ❖ Dr A Selvakumar, Associate Professor, Mechanical Dept. attended meeting on behalf of TBI, GEC Palakkad for preparing the DRAFT proposal for the Common Facility Centre (CFC) for **Shoranur Agricultural Implements Cluster (SAICO)** with MSME, Govt. of India and Metal Industries Ltd., Govt. of Kerala.

## Awards and Commendations

- ❖ Mr. Amal Babu and team (NAVA) presented the novel project “Non lethal automatic firearm” at the **AICTE Vishwakarma Award 2020**, National level contest held at New Delhi on and won commendation certificate.
- ❖ Novelty approved for the patent application of Mr. Vishnu Murukan former student and TBI incumbent, now doing higher education at GEC Thrissur, for his new concept petrol engine titled “**Twin Sweep Engine with Pentahedral Chamber**”

## Expenditure 2019-20

In 2019-20 financial year, DTE sanctioned 28,00,000/- (Ref. L4/40820/19/DTE Dt: 18/11/2019) for our infrastructure development, training programs and other expenses. With this amount we were able to renovate the old PTA Block and thereby enhancing the space for TBI activities. This will help to fulfill the new ventures of TBI like “**Earn While you Learn**” program for our students in the coming future. We were able to spend almost 70% of the fund. The procurement of tools and machineries for the Mini fabrication was not completed because of the outbreak of COVID-19 pandemic and lockdown.

The details are as follows

| Sl. No       | Components  | Expenditure         |
|--------------|---|---------------------|
| 1            | False ceiling with LED light (Old PTA Block)                        | 3,74,485.00         |
| 2            | Minor civil works (Old PTA Block)                                   | 1,49,860.00         |
| 3            | Partitioning TBI room Room 317                                      | 15,000.00           |
| 4            | Furnishing of TBI Room Room 317                                     | 3,99,926.00         |
| 5            | Large format display for information kiosk                          | 1,39,000.00         |
| 6            | Computer work station for TBI office and incubates ( <b>CPRCS</b> ) | 4,95,275.00         |
| 7            | High Intensity training program (Program list attached)             | 88,704.00           |
| 8            | Training to SC/ST   | 24,940.00           |
| <b>Total</b> |   | <b>17,12,130.00</b> |

### Activities planned for 2020-21

Our new block need to be furnished, equipped with UPS, computers etc. We also need to hookup fiber connectivity and weather conditioning system for the same. This facility will be used for the “**Earn While you Learn**” program for our students. Here we are planning to have multiple production facility for Electronics, Mechanical and IT based products. By this our students can achieve good industry exposure and become self reliant.

| Sl. No       | Components  | Financial Targets<br>(Rupees in Lakhs) |
|--------------|---|--|
| 1            | NW components, Structural Cabling and OFC connectivity to Old PTA Block | 3.5                                    |
| 2            | Electrical Wiring   | 3                                      |
| 3            | 10 KVA Online UPS x 2Nos.   | 4                                      |
| 4            | Air conditioning system   | 6                                      |
| 5            | Minor Civil works at Old PTA Block                                      | 7                                      |
| 6            | Modular Partitioning at Old PTA Block                                   | 10                                     |
| 7            | Executive Chairs 30 Nos.  | 2.5                                    |
| 8            | Electrical wall fan, Purified water etc.                                | 2                                      |
| 9            | High Intensity training programs, IPR, FDP and Conferences              | 1.5                                    |
| 10           | Training to SC/ST (if applied)  | 0.25                                   |
| 11           | Maintenance and Misc.   | 1                                      |
| <b>Total</b> |   | <b>40.75</b>                           |