

## BEST PRACTICE: 1

### i) Title of the Practice:

Neighborhood Society Connect

### ii) Objectives

- Interaction with special school students
- Women Empowerment
- Awareness and conservation of water
- Workplace safety and health practices
- Introduce portable multimedia Rapid Malaria Diagnosis Devices (PMRDD)
- Engagement with local bodies
- Flood relief
- Anti-drug awareness

### iii) Context :

Catering to social, economic, environmental, occupational, and ethical needs of under privileged, marginalized students and local people.

Addressing drug addiction, catering to the handicapped, women empowerment, upliftment of housewives about water conservation, awareness about communicable diseases, health hazards at work place and energy conservation.

### iv) Practice:

- Constituted coordination committee with State Excise Department.
- Visits to MITHRAM Special School; planned and designed new block
- Free computer training given to housewives.
- Interactive Sessions conducted for "Improving Mental Health"
- NSS and women cell conducted self-defense workshop for women
- Free water testing camp for neighborhood
- "RUN for Safety" on National Safety Day
- Training imparted to primary health workers to operate PMRDD.
- Digitalizing Rural India in IT enabled services and Internet banking
- Crisis counseling and cleaning in the flood affected areas including schools

### v) Evidence of Success:



- Anti-drug awareness program yielded positive results as no disciplinary action was taken against students and no such case emerged.
- Appreciation letter from MITHRAM school, on approval of "Thanal" building project by Cochin Shipyard
- Several housewives availed free certified computer training program and placed
- Session conducted on "Improving Mental Health" for women benefitting 30 participants.
- A workshop conducted on "Self Defense Techniques" for year girls 50 students participated.
- Technical assistance to Kerala Government's "Complete Water Safety Mission", promoted water testing. Water testing unit is functioning under R & D.
- 20 housewives participated in the awareness program on water conservation.
- Organized Anti- drug awareness program and "RUN for Safety" in connection with National Safety Day for the promotion of safety and health at work place.
- Developed and supplied Portable Malaria Rapid Diagnostic Device (PMRDD), for primary health workers
- Participated in rural digitalizing program under Velloor Grama Panchayat familiarizing them with IT Enabled Services and internet banking.
- As part of the Flood Relief activities, the college formed a group of 30 volunteers under the guidance of Dr. Alex Mathew, President, Toc H. They provided crisis counseling in the flood affected areas, provided Crisis Counseling.
- As part of flood relief, NSS unit and 50 college students participated for a fortnight and built two houses along with Rapid Action Force, collected materials, including packing, loading, visiting relief camps, volunteering etc. The timely coordination kept the volunteers inspired and motivated to extend all possible help to the victims.

#### vi) Problems Encountered:

As TIST is located 30 km away from Kochi city, students and faculty members fail to dedicate time for society connect. So, a specialized academic calendar accommodating academic activities is prepared. To compensate for academic shortfall, Saturdays designated as working days. Overcoming obstacles such as resource acquisition and ensuring widespread participation, Facebook, Instagram, WhatsApp, and online meetups have been adequately used for widespread participation.

## BEST PRACTICE: 2

### vii) Title of the Practice:

Empowering Innovation Initiatives

### viii) Objectives of the Practice:

- Envisages a legitimate method that propels young minds in innovation explorations.
- Transformational change in rural development processes for sustainability
- Streamline and strengthen innovation and start-up ecosystem

### ix) Context

In the lines of vision and mission of the institute, attention diverted to engage faculty and students in innovation and entrepreneurship research activities, collaborative research fostering sustainable development to make an impact in industry, research, business, and society.

### x) Practice

#### a) IEDC

IEDC organizes and conducts workshops, competitions, supports setting up start-up, visits to startup villages and promotion of social outreach program. Provides platform to interact with entrepreneurs empowering budding entrepreneurs. Organizes Fab-lab visits to experience technical prototyping platform. Members participate in government supported projects like Map my Home project, funded and organized by Google in association with Kerala Land Records and Survey department and intercollegiate technical events like FOSS.

#### b) SPAN

Supports skill development through industry based projects; identifies students for undertaking such projects through industry specific technical tests, interacting with industry for project selection, preparation technical tests, interviews, providing technical support.

#### c) IMPaCT Lab (Innovative Methods, Projects and Community Technologies)



Focuses on innovation making beneficial impacts on society, innovations in embedded systems, IoT and other communication technologies, image processing and vision-based techniques to support agriculture, weather and disaster management, medical electronic devices, robotics and automation technologies.

#### **d) Tinkering Lab**

Establish and mentor Tinkering lab at nearby three schools, providing trainings sessions on Embedded systems and Robotics.

#### **e) Industry Interaction Cell**

Interaction Cell headed by the respective HODs bridge the gap between academia and industry through workshops/internships/visits

#### **f) IIC**

Innovation Promotion through multitudinous modes of eco-system and organizing Hackathons, idea competition etc., involving industries

#### **g) R & D**

Promotion of funded projects, leveraging research activities. Toc H is registered with DSIR and approved as SIRO.

#### **g) IPR Cell**

Promotes awareness among stakeholders' thorough research work.

#### **v) Evidence of Success:**

- TIST IEDC recognised by Kerala startup mission as TBI
- Availed Kerala Startup Mission funding of Rs.11,08830 for technology entrepreneurship promotion.
- Second runner-up in the "Top-Performer in District-Ernakulam" Innovator Category
- Best innovation award of Rs.11lakh, at 'National Engineering Projects Exhibition'
- Team Demeter comprising 3 students selected from among the top 10 teams at the National Level Samsung Solve for Tomorrow 2023 competition.
- The coverage of the project by CNN-News18 -

<https://youtu.be/w8FKCFwI0gY?si=oe1pkQbxegNk2CeE>

- AICTE acknowledges SPANS's efforts and funded activities for the year 2021-22 under the SPICES.



- **Three industry projects resulted in prestigious job offers for 8 students under the guidance of SPAN**
- Implemented four Rural Projects funded by UBA
- **Patents:** TIST has 8 granted patents and 4 published patents.

## Rankings

Authority	Rank
<b>NIRF Innovation Ranking</b>	<b>151-300</b>
<b>ARIIA</b>	<b>Band Performer</b>
<b>IIC</b>	<b>4 Star rating</b>

## vi) Problems Encountered

- Governmental funds for training and research from state/central agencies restricted, being self-financing institute.
- Due to COVID 19 impact, SIRO activities suffered and efforts on to revive it
- Plenty of generated ideas but few takers in the market