



**A
STEP
TOWARDS
SMART TIRUNELVELI**



ANNA UNIVERSITY REGIONAL CAMPUS - TIRUNELVELI

Anna University, is a pioneering institution in the field of Engineering and Technology in the country

Anna University Regional Campus-Tirunelveli is committed to grooming competent professionals also through learning and research. It has with it, an excellent board of mentors who can inspire, ignite the imagination and instill a love for learning, making the campus an excellent arena for education.

Our institution has proficient and well trained faculty in all disciplines. Periodical lectures by visiting Professors, Scientists corporate executives and Administrators are arranged to augment the knowledge of students and staff in their corresponding fields of education. The institution oversees the management of 74 Engineering colleges in four different districts namely Virudhunagar, Tirunelveli, Thoothukudi and Kanyakumari.

Entrepreneurship Development and Innovation Institute, Chennai has selected Anna University Regional Campus - Tirunelveli as one of its hubs since May 2017. A number of programmes are being organized with the intention of improving the technical and entrepreneurial skills of the students in the region.

TAMIL NADU INNOVATION GRAND CHALLENGE

Entrepreneurship Development and Innovation Institute (EDII), Govt. of Tamil Nadu and Forge have partnered to plan, finance, operate and manage a 5-year strategic program called Startup Activation and Acceleration Program (SAAP).

This state level program is aimed at discovering, nurturing, and funding innovative ideas that have the potential to become innovative products and successful enterprises. Every year the program shall aim to create a minimum of 10 innovative and high-potential enterprises from among students, researchers and young professionals. In addition the program shall also accelerate the transformation of minimum 10 to 15 MSMEs annually by achieving higher performance and growth through technology enabled innovation and innovation led business model and strategies.

In order to activate a strong pipeline of innovative ideas that aim to solve the most pressing problems faced by consumers, citizens, government and industry. EDII and Forge are launching the Tamil Nadu Innovation Grand Challenge (TN IGC 2017) program to seed the next generation of breakthrough ideas that apply the power of technology to offer innovative solutions.

As the first step of the TN IGC 2017, a series of 1-day workshops called **Think Tanks** are being organized to facilitate an intensive brainstorming discussion among executives, entrepreneurs, officials, technocrats, end users etc.

The primary objective of these workshops is to identify and validate problem statements in the target sector. It also including documenting additional information that will fast-track the innovation process, and will make it more outcome-oriented and cost effective.

THINKTANK OUTLINE

A core group of experts and end users in Tirunelveli region with experience in technology, policy making, business, and research & development will come together to envision a strategy and roadmap for catalysing innovation using tools and platforms available in the ecosystem.

The ThinkTank on Smart Tirunelveli is the first step undertaken to put into action a systematic and professionally managed innovation and enterprise creation process that results in the development, deployment, and commercialisation of solutions for better living.

The following outcomes from the ThinkTank are imperative in jumping straight into action and in paving way for managing the process of product innovation, production and enterprise creation:

- Identifying the problem statements related to Tirunelveli that can be solved by harnessing technology.
- Defining the product (MVP-Minimum Value Product) specs of solutions in 4 domains:
 - Mechanical/ Structural module
 - Electronics, Embedded, Imaging, Vision module
 - Automation and Robotics Module and
 - Software/ Cloud/ Data/ Analytics module

Outlining the strategy and roadmap for the business model to commercialize the various MVPs defined.

THINKTANK WORKSHOP ON SMART TIRUNELVELI

Anna University Regional Campus – Tirunelveli organized a Think Tank Workshop on Smart Tirunelveli in association with EDII, (Govt. of Tamilnadu), Chennai and KCT Forge, Coimbatore on October 21, 2017. The objective of this programme is to identify and document the day to day problems faced by various sectors in Tirunelveli region. It also aims at inspiring and involving the students in attempting technical solutions for these problems. This workshop focuses on good connectivity between Government Departments, Industries, Educational Institutions and Research Organizations.

The District Collector of Tirunelveli, Mr. Sandeep Nanduri, I.A.S inaugurated the Programme. Dr. G. Sakthinathan, Dean, Anna University Regional Campus – Tirunelveli, shared the pivotal role played by Anna University Regional Campus – Tirunelveli in providing technical solutions to the day to day problems of various Domains. Mr.R.Shiva Shankar, Deputy Director, EDII, Chennai explained the activities of Entrepreneurship Development and Innovation Institute (EDII), Chennai. Mr. Viswanathan, KCT – FORGE briefed about the Think Tank programme.

Officials from TNEB, Housing Board, BSNL, Municipal Corporation, Transport Department, Nellai Small Scale Industry Association, Association of Medium and Small scale enterprises, Police Department, Education Department, Veterinary Department, Agriculture Department, District Science Centre, Siddha Medical Department, E-cell Leaders, Faculty members and Students from various Engineering colleges participated in the programme.

PROBLEMS IDENTIFIED

TNEB

- Need for automatic detection of fault in distribution feeders of TNEB

BSNL

- Underground cables of BSNL get damaged during road widening, water pipe laying etc.,- Automation Detection –separate duct types-need for coordination among departments
- Enhancing network connectivity

MUNICIPAL CORPORATION

- Innovative disposal of house hold garbage at source
- Conversion of garbage into useful products
- Automatic cleaning and maintenance of public toilets
- Liquid waste Management – Grey water treatment
- Water stagnation in low lying areas during rainy season

PROBLEMS IDENTIFIED

TRAFFIC

- Identification of traffic rules violation
- Navigation support system for Road safety

NELSTIA

- Awareness mechanism for innovative technology aimed at small and medium scale companies
- Performance of industrial estates – Measures for solving specific problems
- Recycling of Plastic waste

CHAMBER OF COMMENCE

- Reduction of power consumption in commercial establishments
- Measuring pesticide content in vegetables (particularly those exported)

PROBLEMS IDENTIFIED

POLICE

- Crime alert system using short code dialing for specific crimes
- Crime monitoring centre using a centralized server connected to all the CCTVs in the city

EDUCATION

- Low cost incinerators for sanitary napkins at Educational Institutions

VETERINARY

- Reducing food cost in livestock enterprises using IT enabled food calculator institutions
- Developing mobile applications for livestock rearing

TNHB / SLUM CLEARANCE HIGHWAYS

- Low Cost housing construction
- Road construction and maintenance using alternate materials

PROBLEMS IDENTIFIED

AGRICULTURAL DEPARTMENT

- Measuring ground water level and initiating steps for water recharge

DISTRICT SCIENCE CENTRE

- Cost effective alternative for paper cups

SIDDHA MEDICAL COLLEGE

- Preparation of Siddha medicine using steam
- Mass production system for medicinal decoction
- Web based patient Management system – In Patient of outpatient system for Siddha treatment

PROPOSED METHODOLOGY OF EXECUTION

- a. The project concept will be given to the project team and the team will be facilitated to meet the concerned department officials and staffs.
- b. The project objective will be finalized in consultation with the concerned officials and experts connected with the departments.
- c. The methodology of execution will be derived with the help of the Experts and guides along with the students.
- d. The timeline of the project will be given to the students and the students are expected to follow the timeline without any deviation
- e. Periodical Reviews and training will be conducted and the students and the guides should attend them without fail.
- f. On successful completion of the project, the students and the guides will be provided with a certificate.

GUIDELINES

- a. Reporting regularly to the domain head nominated by Anna University Regional Campus – Tirunelveli is a must.
- b. Strict adherence to the time schedules of the project Compliance with the norms stipulated by Anna University Regional Campus – Tirunelveli and if then is any violation the student will be removed from the project.
- c. Achieving significant progress at regular intervals of time.
- d. Co-ordination with the departments concerned with the projects

BENEFITS

- ✦ Experience of executing a real time project.
- ✦ Seeing your own ideas / concepts / products being useful to the society.
- ✦ Training Programmes in Technical, Managerial and Motivational domains.
- ✦ Certificate from Anna University Regional Campus, Tirunelveli– IEDP Hub.



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