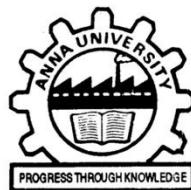




ENTREPRENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE
AND SCHOOL EDUCATION DEPARTMENT, TAMIL NADU



STAGE 2 - TRICHY ZONE REPORT



4-DAY RESIDENTIAL TRAINING WORKSHOP

06.02.2020 - 09.02.2020

Organized by

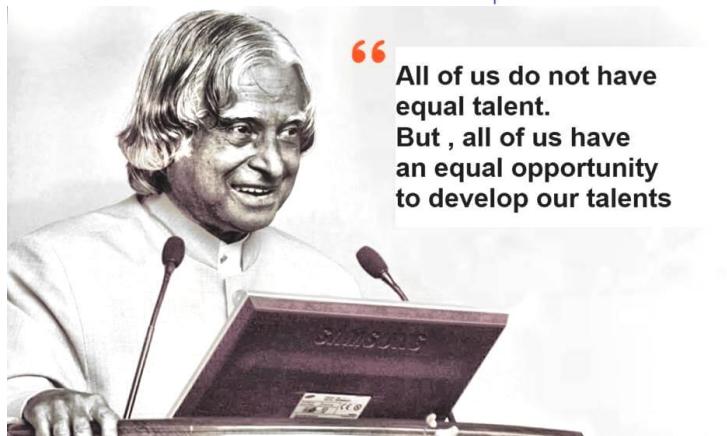
HALLMARK BUSINESS SCHOOL

Pirattiyur, Road, Santhapuram, Allithurai, Tiruchirapalli

Supported by

ANNA UNIVERSITY UCE-BIT CAMPUS





“ All of us do not have equal talent.
But , all of us have an equal opportunity to develop our talents

Sincere Thanks to

1. Principal Secretary, M.S.M.E Department & Director, EDII-TN Dr. Rajendra Kumar, I.A.S
2. Principal Secretary, School Education Dept. Th. Dheeraj Kumar I.A.S
3. Director, School Education Department Dr. S. Kannappan
4. Additional Director, EDII-TN Tmt. R.V. Shajeevana
5. Joint Director(NSS), School Education Dept. Th. M. Vasu
6. Deputy Director(PMO), EDII-TN Th. R. Shiva Shankar
7. Dean, Anna University UCE-BIT Prof Dr. T. Senthilkumar
8. IEDP Trichy Hub Coordinator AU UCE-BIT Dr. K. Kumaraguru
9. Founder Chairman, Hallmark Business School Th. R. Krishnamurthy
10. Managing Trustee, Hallmark Business School Th. J.Jayaraman
11. Director, Hallmark Business School, Trichy Dr. SR. Rameshkumar
12. Project Executive, TANSIM, EDII-TN Th. Daniel Prabhakaran G
13. Chief Education Officers of the Districts of Tamil Nadu
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16. Partnering Startups – Infinite Engineers, Warhorse, M.A.D.I.E.E, SP Robotics Maker Lab, E21 IIT-Madras and Getset Ventures
17. Special Mention to Pirattiyur Panchayat Union Middle School for their amazing cultural performance and encouragement given to School Students.



TAMILNADU
INNOVATORS

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CHALLENGE

TABLE OF CONTENTS

Sl. No.	Description	Page No.
1	About the Programme – TNIIC 2019	6
2	MoU between EDII-TN and School Education Department	7
3	About EDII-TN	7
4	Train The Trainers Programme (T.T.T)	8
5	Stage 1 – Completed Status Report	9
6	Stage 2 – 4-Day Residential Training Workshop – TRICHY ZONE	12
6.1	Hallmark Business School	13
6.2	Inauguration of Stage 2 – TNIIC 2019	15
6.3	Day 1 – Warhorse and M.A.D.I.E.E	19
6.4	Day 2 – Infinite Engineers E21 – IIT- Madras	23
6.5	Day 3 – SP Robotic Works Maker Lab and Interactive Mentoring Sessions	29
6.6	Day 4 – Final Pitch and Valedictory	31
7	Feedback, Scope and Benefits of the Programme	40



TAMILNADU
INNOVATORS

இளம்
CHALLENGE

**TAMIL NADU ILAM INNOVATORS CHALLENGE 2019****ABOUT THE PROGRAMME:**

- **Tamil Nadu Ilam Innovators Challenge 2019** is jointly organized by Entrepreneurship Development and Innovation Institute (EDII-TN) and School Education Department, Govt. of Tamil Nadu with partnering Startups; Infinite Engineers, Warhorse, MADIEE, PiJam Foundation, SP Robotic Works Maker Labs, E21- IIT Madras and Getset Ventures.
- **TNIIC 2019** is a State Level Innovation Challenge focussed on inculcating the spirit of Innovation and developing Entrepreneurial Skills (21st Century Skills) amongst the School Students (8th to 12th) across the State, as per the vision of the Tamil Nadu Startup and Innovation Policy (2018-23) recently launched by Honourable Chief Minister of Tamil Nadu.
- It is conducted in 2 Phases - 1st Phase (April to July) **Train The Trainers (T.T.T) Programme** for College Students to be trained by Startups to be the mentors and trainers for School Students.
- 2nd Phase (August to March) - 3 Stages - For School Students of 8th Standard to 12th Standard
 - o **Stage 1** - District Level Selections through Gamified Modules in all the Districts of Tamil Nadu.
 - o **Stage 2** - Hub/Zonal Level 4 Day Residential Training Programme at Chennai, Coimbatore, Trichy, Madurai and Tirunelveli.
15 Teams/Schools will be awarded cash awards of Rs.10,000/- each
 - o **Stage 3** - State Level Finals – One Day Programme at Chennai.
5 Teams/Schools will be awarded a State Level Fellowship of Rs 1,00,000/- each and their corresponding District Captains will be awarded a Credit Voucher for Rs10,000/- each.
- More than 500 Schools have registered for TNIIC 2019, in which 60% of the participation is from Government and Government Aided Schools, we have also reached out to Tribal Residential Schools.



A MEMORANDUM OF UNDERSTANDING (MoU) was signed between EDII-TN and the School Education Department, Government of Tamil Nadu on 27.06.2019 (International MSME Day).

- To Plan and Organize the Tamil Nadu Ilam Innovators Challenge in all the Educational districts of Tamil Nadu to inculcate the spirit of innovation and entrepreneurial skills in school students.
- To create awareness about Makerspaces and Atal Tinkering Labs, help in setting up and maintenance.
- To train the teachers in understanding the Startup culture, Innovation and Entrepreneurship and update the teaching methods to support the students.
- To create, set up and maintain Junior Entrepreneurship Cells (E-Cells) in schools/makerspaces and establish a learning/mentoring relationship with College E-Cells
- and all other programmes that benefit the students and teachers.



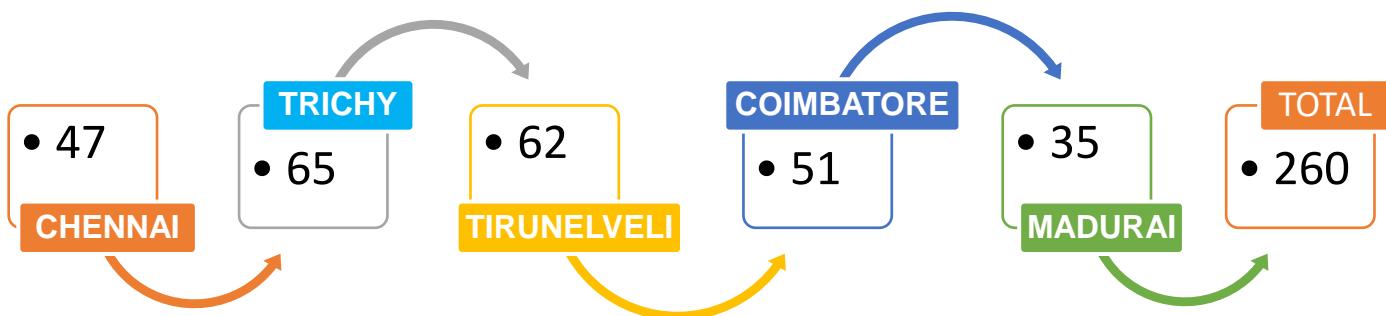
About EDII-TN - Entrepreneurship Development and Innovation Institute is a Non-Profit Autonomous Society established by the Government of Tamil Nadu in 2001. Collaborating with corresponding knowledge partners, EDII-TN conducts various training programs, gatherings, mentoring sessions from industry experts and stake holders for Students, Graduates, Startups, MSMEs and Entrepreneurs. EDII-TN has provided training to around 2.33 Lakh entrepreneurs in the state right from its establishment.

EDII-TN is also the nodal agency for implementing the Tamil Nadu Startup and Innovation Policy (2018-23) to achieve the mission and objective of making Tamil Nadu the best Knowledge Capital and Innovation Hub in the Country. The Policy will help create, support and nurture the vibrant startup ecosystem and the culture of innovation and entrepreneurship in Schools and Colleges as well.

Since 2016-17, EDII-TN has been implementing an exclusive policy for Colleges of Engineering, Arts & Science background, Polytechnic Colleges and Industrial Training Institutes (ITIs') called **Innovation and Entrepreneurship Development Programme (IEDP)**, having created and registered more than 300+ Active Entrepreneurship Cells (E-Cells) in Colleges.

TRAIN THE TRAINERS (T.T.T) Programme, which initiates the First Phase (May – July, 2019) of the Tamil Nadu Ilam Innovators Challenge 2019, was conceptualized to develop a nurturing relationship between Schools and Colleges. The College Students were trained by the partnering Startups – Infinite Engineers and Warhorse, on how to mentor school students and facilitate Stage 1 of TNIIC 2019 – District Level Selections of School Students in each of the 32 Districts across the State.

The T.T.T Programme was conducted in 5 Hubs – A Total of 260 College Students were trained, out of which 104 College Students were selected as District Captains for their respective Districts. Stage 1 of TNIIC 2019 was planned to be conducted as 52 Batches in 32 Districts, which means each batch will be facilitated by 2 District Captains.



- **Chennai** (28.05.2019) Organized by EDII-TN
- **Trichy** (11.06.2019) Organized by EDII IEDP Hub – Anna University- UCE-BIT Campus, Tiruchirapalli.
- **Tirunelveli** (02.07.2019) Organized by EDII IEDP Hub – Anna University, Regional Campus, Tirunelveli.
- **Coimbatore** (12.07.2019) Organized by EDII IEDP Hub – Anna University, Regional Campus, Coimbatore.
- **Madurai** (22.07.2019) Organized by EDII IEDP Hub – Thiagarajar College of Engineering, Madurai

The Selected District Captains were coordinated and supported by Field Coordinators of EDII IEDP Hubs of Chennai, Coimbatore, Salem, Madurai, Trichy, Tirunelveli and Villupuram along with Project Executives of TANSIM/EDII-TN.

The list has been uploaded on Official Website (www.tniic.in) and Facebook Pages (www.facebook.com/tniic2019) of TNIIC 2019.

STAGE 1 – DISTRICT LEVEL SELECTIONS has been conducted in Two Phases

1st Phase – August and September 2019

2nd Phase – October and November 2019

August & September 2019

- 30 Batches
- 17 Districts
- 867 Students
- 285 Teachers
- 294 Schools

October & November 2019

- 22 Batches
- 16 Districts
- 604 Students
- 211 Teachers
- 200 Schools

STAGE 1 - TNIIC Completed

- 52 Batches
- 32 Districts
- 1471 Students
- 496 Teachers
- 494 Schools

Stage 1 of Tamil Nadu Ilam Innovators Challenge 2019 has been developed as a Gamified Module for District Level Selection of School Students (8th to 12th Standard) by Infinite Engineers and Warhorse, supported by M.A.D.I.E.E, E21 – IIT-Madras and Getset Ventures.

Stage 1 was conducted in all the **32 Districts of Tamil Nadu** with the support of **School Education Department** (Under the guidance of **Th.M.Vasu, Joint Director (NSS)** and **Chief Education Officers(CEOs)** of each District) and EDII IEDP Hubs. A total of **1471 Students** and **496 Teachers** from **494 Schools** were trained in 21st Century Skills and out of which **159 Best Performing School Teams (471 Students)** were selected for Stage 2 – Four Day Residential Training Workshop planned to be conducted at Zonal/Hub Level.

The Gamified Module tested the Students' Ability and Performance in the **4C's, which are the most needed 21st Century Skills for the Students**

- **Communication** - Sharing Thoughts, Ideas, Questions and Solutions
- **Collaboration** - Working Together to reach a Goal
- **Creativity** - Trying New Approaches and Innovative Solutions
- **Critical Thinking** - Looking at Problems in a New Way across all subject disciplines and taking precise and timely decisions.



**TAMILNADU
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Sl. No.	District	Date Conducted	No.of Batches	No of Schools/ Teams	No.of Students	No. of Teachers	Teams Selected for Stage 2
1	CHENNAI	14.08.2019 & 16.08.2019	2	20	58	21	6
2	PERAMBALUR	19.08.2019	2	20	60	19	6
3	COIMBATORE	20.08.2019	2	17	51	15	6
4	TIRUNELVELI	20.08.2019	2	17	46	17	6
5	TIRUPPUR	21.08.2019	2	24	70	22	6
6	RAMANATHAPURAM	22.08.2019	2	18	53	16	6
7	THANJAVUR	26.08.2019	2	19	55	18	6
8	MADURAI	26.08.2019 & 27.08.2019	2	22	66	22	6
9	CUDDALORE	27.08.2019	2	15	42	14	6
10	THENI	28.08.2019	1	11	33	11	3
11	KANCHIPURAM	28.08.2019	1	11	33	11	3
		11.10.2019	1	11	31	11	3
12	TRICHY	28.08.2019	2	17	51	17	6
13	SALEM	29.08.2019 & 30.08.2019	2	23	68	23	6
14	THOOTHUKUDI	30.08.2019	2	18	54	17	6
15	KANIYAKUMARI	03.09.2019	1	10	31	10	3
16	VIRUDHUNAGAR	04.09.2019	2	20	60	18	6
17	THIRUVALLUR	06.09.2019	1	12	36	14	3
18	NAMAKKAL	17.10.2019	2	14	42	15	6
19	TIRUVANNAMALAI	17.10.2019	1	10	30	10	3
20	DHARMAPURI	18.10.2019	2	17	50	20	6
21	THIRUVARUR	21.10.2019	1	13	38	13	3
22	NAGAPATTINAM	22.10.2019	2	14	41	15	6
23	VILLUPURAM	23.10.2019	1	12	36	14	3
24	SIVAGANGAI	23.10.2019	1	9	28	9	3
25	DINDIGUL	24.10.2019	2	18	53	18	6
26	PUDUKKOTTAI	25.10.2019	2	15	45	15	6
27	ERODE	29.10.2019	2	19	57	20	6
28	KRISHNAGIRI	30.10.2019	1	10	30	10	3
29	ARIYALUR	06.11.2019	1	7	21	6	4
30	VELLORE	07.11.2019	1	9	27	9	3
31	KARUR	13.11.2019	1	14	45	18	5
32	NILGIRIS	14.11.2019	1	8	30	8	3
Total			52	494	1471	496	159

Page | 10

Stage 1 - District Level Selections

Stage 2 – 4 Day Residential Training Workshop is planned to be organized in 5 Zones / Hubs – Chennai, Coimbatore, Madurai, Trichy and Tirunelveli, supported by EDII-TN I.E.D.P Hubs.



The students selected from Stage 1, will be trained on the concepts of Growth Mindset, Design Thinking, Empathy, Problem Identification & Problem Solving using Technological and Non-Technological Solutions, Business Model Canvas and Pitch Presentation, with the objective to develop and mentor their ideas & innovations and introduce the concept of Entrepreneurship to young minds. The best 3 performing School Teams from each zone/hub will be awarded a cash prize of Rs 10,000/- each to develop their ideas to real time prototype and present their solution at Stage 3 – State Level Finals to be held in Chennai in March 2020.

TRICHY ZONE – HALLMARK BUSINESS SCHOOL, TRICHY



Hallmark Business School is the first standalone business school in Trichy, promoted by Sivakami Ramasamy Educational, Health & Charitable Trust in 2008. HBS is affiliated to Anna University, Chennai and approved by All India Council for Technical Education (AICTE), New Delhi.

Over the last 11 years of its existence, HBS has acquired the recognition for its excellence in management education and has emerged as the trusted destination for quality management education and research in this part of the country.

A Letter of Request dated 21.01.2020 was submitted to the Director of Hallmark Business School, Trichy for conducting the Stage 2 – 4-Day Residential Training Workshop for Trichy Zone/Hub by Hallmark Business School, supported by Anna University UCE-BIT Campus, Trichy and School Education Department, GoTN. A Letter of Consent dated 21.01.2020 was received by EDII-TN from Hallmark Business School to conduct the programme during 06.02.2020 to 09.02.2020. The following table lists the Number of Schools and Students from 6 Districts that come under Trichy Zone.

Sl. No	Zone/Hub	District Name	Total No. of Districts	Total No. of Schools/Teams Selected for Stage 2	Total No. of Students Selected for Stage 2
1	TRICHY	Trichy	7	6	18
2		Karur		5	15
3		Thiruvarur		3	9
4		Nagapattinam		6	18
5		Thanjavur		6	18
6		Perambalur		6	18
7		Ariyalur		4	12
Total				36	108

FOOD AND ACCOMMODATION



We greatly appreciate the efforts & Commitment of Hallmark Business School Management, Director Dr. SR. Rameshkumar, Th. B.DineshKumar, Tmt. N.Vaseema Dr. G. Karthikeyan and Student Organizers/Volunteer team for making the best possible accommodation arrangements for the participating Students and Teachers at Boys and Girls

Hostels respectively. Bedspreads, Sheets and Pillows have been arranged on rental and the rooms have been sanitized. Health care facilities were also made readily available 24x7. Transportation Facility was arranged from Trichy Central Bus Stand to the Campus everyday for the students and teachers.



Accommodation for Trainers was arranged at Hotel Tamil Nadu, which is nearby Trichy Central Bus Stand. The HBS Student Volunteers deserve a special credit for coordinating the programme and all the arrangements in a perfect manner by forming separate committees for each activity. They have been the best seniors

to the school students helping them to understand the various academic options available for them to choose after completing schooling. Also the college students helped in mentoring the ideas of school students and shaped them to make the best pitch presentation on the final day. The Food Arrangements were made at the Hostel Mess for the Boys and Girls and the feedback received from students and teachers praised the quality of the food served during the programme. Much Credits to the Hostel Mess Staff.

Day 1 – Inauguration – 10:15 am – 11:00 am**Venue: Dr. A.P.J.Abdul Kalam Memorial Hall**

The Inauguration of the Trichy Zone Stage 2 of Tamil Nadu Ilam Innovators Challenge 2019, which is a 4-Day Residential Training Workshop, organized by EDII-TN and Hallmark Business School with the support of Anna University, UCE-BIT Campus, Trichy and School Education Department, was held at Dr. A.P.J.Abdul Kalam Memorial Hall. Th.Marudhanayagam, Block Education Officer, Tiruchirapalli District and Dr.K.Kumaraguru, Hub Coordinator IEDP Hub - Tiruchirapalli Anna University UCE-BIT Campus were invited to be the Guests of Honour for Inaugural Session.

Welcome Address by Dr. SR. Ramesh Kumar, Director, HBS

With the Blessings of the Almighty, Dr. SR. Ramesh Kumar welcomed the Dignitaries on the Dias and the participating **28 Schools (84 Students and 30 Teachers & Parents)** from **Seven Districts – Trichy, Thanjavur, Perambalur, Ariyalur, Karur, Nagapattinam and Tiruvarur** for the Stage 2 of Tamil Nadu Ilam Innovators Challenge 2019. Director of HBS motivated the students to make use of any opportunity of learning new skills especially 21st Century Skills - Communication, Creativity, Collaboration and Critical Thinking and felicitated the Guests of Honour.



Th. Suhas Darsi, Executive, TANSIM, EDII-TN delivered the programme address explaining that the students will be learning about the concept of Growth Mindset, Ethos, Pathos & Logos, Design Thinking, Entrepreneurship, Business Plan Canvas and Hands ON Robotics Session in Tamil and English during the workshop. At the end, the fourth day will be the final Pitch Presentation wherein the students will present their innovative ideas to the judges and win 3 District Level Awards of Rs 10,000/- each.

Inaugural Address by Th. Marudhanayagam, Block Education Officer



Th. Marudhanayagam, Block Education Officer, Tiruchirapalli District interacted with the students and teachers with his Inaugural Address explaining the fact that it's essential for all students to learn new skills. He further added that all the science projects have the potential to become a business in the future with support from the School Education Department, Anna University and EDII-TN. We have to "Think Globally and Act Locally" - Finding solutions to problems that we face every day and in our very own City or District.

Keynote Address by Dr. K. Kumaraguru, Hub Coordinator, IEDP Trichy Hub, Anna University UCE – BIT Campus



The Hub Coordinator of Anna University UCE - BIT Campus Trichy IEDP Hub addressed the participating students and teachers about the importance of Entrepreneurship and Developing Life Skills from a very young age. He has shared his life experiences and his wisdom with the students

in a motivating manner and has ended his speech explaining the activities of IEDP Hub which will help the students continue their innovation and entrepreneurial journey in colleges. He further appreciated the efforts of EDII-TN and School

Education Department in bringing forward such a unique and much needed initiative highly beneficial to the school students for their growth and future careers.

He expressed his heartfelt gratitude to Prof Dr. T. Senthilkumar, Dean, Anna University UCE-BIT Campus for the support and guidance provided to IEDP Trichy Hub in carrying out all its activities.

The Participating 28 School Teams were split into Two Batches –

The agenda for both the batches has been explained by the programme coordinator and separate halls have been allocated for each batch.

Batch 1

- GOVERNMENT HIGHER SECONDARY SCHOOL KURUMBALUR
- GOLDEN GATES MATRIC HR.SEC SCHOOL
- GHS SWAMIMALAI, THANJAVUR DIST.
- DON BOSCO MATRICULATION HIGHER SECONDARY SCHOOL
- KAMALA NIKETAN MONTESSORI SCHOOL (CBSE)
- SEVA SANGAM GIRLS' HIGHER SECONDARY SCHOOL, TRICHY-1
- SBIOA MATRIC.& HR.SEC.SCHOOL, TRICHY
- GOVERNMENT HIGHER SECONDARY SCHOOL, NANGUR NAGAPATTINAM
- GOVT HR SEC SCHOOL THIRUMULLAIVASAL-609113
- GOVT HIGH SCHOOL, MARUTHUR SOUTH-614714
- PALLAPATTI HR SEC SCHOOL, PALLAPATTI
- GOVERNMENT BOYS HR SEC SCHOOL, VELLIYANAI
- SRI SANKARA VIDYALAYA

Batch 2

- GOVERNMENT HIGH SCHOOL - IRUR
- GOLDEN GATES VIDHYASHRAM, PERAMBALUR
- THANTHAI HANS ROEVER HSS, PERAMBALUR
- GOVERNMENT HIGHER SECONDARY SCHOOL, SUNDARAPERUMAL KOIL
- GOVT HR SEC SCHOOL, THIRUBUVANAM -
- GOVT. MODEL GIRLS HR. SEC. SCHOOL,TRICHY
- HOLY CROSS GIRLS HR SEC SCHOOL, TEPPAKULAM ,TRICHY-2
- SAVITRI VIDYASALA HINDU GIRLS' HR. SEC. SCHOOL, TRICHY-2
- S.M.HINDU HR.SEC.SCHOOL
- GOVERNMENT HIGHER SECONDARY SCHOOL, THAGATTUR
- GOVERNMENT HIGH SCHOOL - NAGAMANGALAM
- GOVERNMENT HR SEC SCHOOL, PONPARAPPI, ARIYALUR
- CSI HR SEC SCHOOL, ARIYALUR
- MPL KUMARAN HIGH SCHOOL, KARUR
- KSV HR SEC SCHOOL, THULASIKODUMBU

BATCH 1 – AGENDA

DAY 1 06.02.2020	INAUGURATION 09:30 AM – 10:30 AM	SESSION 1 10:30 AM – 01:00 PM WARHORSE GROWTH MINDSET WORKSHOP Focus on Student's Communication Skills, Confidence and Personality Development.	LUNCH	SESSION 1 (contd.) 02:00 PM – 2:30 PM WARHORSE GROWTH MINDSET WORKSHOP Focus on Student's Communication Skills, Confidence and Personality Development.	SESSION 2 02:30 PM- 05:30 PM M.A.D.I.E.E ETHOS, PATHOS & LOGOS Focus on Student's Empathy, Mindset, Social Consciousness incl. Liberal Arts
DAY 2 07.02.2020		SESSION 1 09:30 AM – 01:00 PM INFINITE ENGINEERS DESIGN THINKING WORKSHOP Empathy, Problem Identification and Solution – Critical Thinking	01:00 PM - 02.00 PM	SESSION 2 02:00 PM – 5:00 PM E21 & GETSET VENTURES ENTREPRENEURIAL SKILLS Innovation, Idea 2 Prototype, Product Market Fit & Pitch Presentation	
DAY 3 08.02.2020		SESSION 1 09:30 AM – 01:00 PM SP ROBOTIC WORKS MAKERLAB HANDS-ON SESSION - Identifying Problem Solutions using Technology (Incl. IOT, AI and Robotics)	LUNCH	SESSION 2 02:00 PM – 4:30 PM SP ROBOTIC WORKS MAKERLAB Identifying Problem Solutions using Technology (Incl. IOT, AI and Robotics)	SESSION 3 04:30 PM - 05:30 PM SP ROBOTICS MAKER LAB & EDII-TN DEBRIEFING & PREPARATION FOR FINAL PITCH

BATCH 2 – AGENDA

DAY 1 06.02.2020	INAUGURATION 09:30 AM – 10:30 AM	SESSION 1 10:30 AM – 01:00 PM M.A.D.I.E.E ETHOS, PATHOS & LOGOS Focus on Student's Empathy, Mindset, Social Consciousness incl. Liberal Arts	LUNCH	SESSION 1 (contd.) 02:00 PM – 2:30 PM M.A.D.I.E.E ETHOS, PATHOS & LOGOS Focus on Student's Empathy, Mindset, Social Consciousness incl. Liberal Arts	SESSION 2 02:30 PM- 05:30 PM WARHORSE GROWTH MINDSET WORKSHOP Focus on Student's Communication Skills, Confidence and Personality Development.
DAY 2 07.02.2020		SESSION 1 09:30 AM – 01:00 PM E21 & GETSET VENTURES ENTREPRENEURIAL SKILLS - Innovation, Idea 2 Prototype, Product Market Fit & Pitch Presentation	01:00 PM - 02.00 PM	SESSION 2 02:00 PM – 5:00 PM INFINITE ENGINEERS DESIGN THINKING WORKSHOP Empathy, Problem Identification and Solution – Critical Thinking	
DAY 3 08.02.2020		SESSION 1 09:30 AM – 01:00 PM SP ROBOTIC WORKS MAKERLAB HANDS-ON SESSION - Identifying Problem Solutions using Technology (Incl. IOT, AI and Robotics)	LUNCH	SESSION 2 02:00 PM – 4:30 PM SP ROBOTIC WORKS MAKERLAB Identifying Problem Solutions using Technology (Incl. IOT, AI and Robotics)	SESSION 3 04:30 PM - 05:30 PM SP ROBOTICS MAKER LAB & EDII-TN DEBRIEFING & PREPARATION FOR FINAL PITCH

Day 1 – Session 1 – WARHORSE

GROWTH MINDSET WORKSHOP



Objective of the Workshop is to encourage students to learn and practice growth mindset, as a result, to be more confident in pursuing their passion/ any talent. This will help students speak more openly and with confidence and be more aware of their own self and their surroundings.

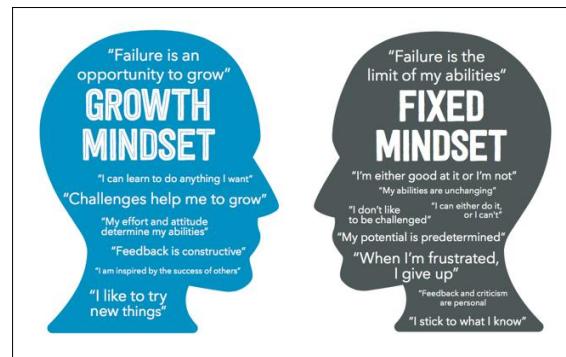
S.Sharath and Akshay Bharadwaj from Warhorse facilitated the session and started with an Ice Breaking activity to bring out the communication skills of Students by asking them to introduce their selves and think/speak about their Strengths and Weaknesses. After the initial introductions, the concept of Growth Mindset was introduced to the Students and the Teachers. Through various means of communication, Sharath explained how a Growth Mindset is better than a Fixed Mindset.

Growth Mindset vs Fixed Mindset

The Difference in a Nutshell

When students have a Growth Mindset, they take on challenges and learn from them, therefore increasing their abilities and achievement.

The attitude and belief that you can't learn something ever and this is something that you can never do is part of a Fixed Mindset, and it's something that we can change.



The Concept of Neuroplasticity - Learning by Doing the Cup Song:

Neuroplasticity, also known as brain plasticity, is the ability of the brain to change continuously throughout an individual's life, that it can be strengthened by practice and by changing our mindset. **Questionnaire** was circulated to determine one's mindset, whether it was a fixed mindset or a growth mindset.



The Objective of the Cup Song is to help the students understand that with Practice and an Open Mind, you can always perfect the work you are passionate about by Chunking. Chunking means the process of breaking down a larger piece into smaller and smaller pieces. Practicing step by step, you can solve any problem in life.



Day 1 – Session 2 – M.A.D.I.E.E

ETHOS PATHOS AND LOGO

Objective of this Workshop is to encourage students to find the balance between Ethos, Pathos and Logos, which means Intelligence, Emotions and Logic. The Workshop helps the students to feel, understand, empathize and identify problems and solutions.



G. Senthil Kumar, Founder of MADIEE Games, with his team Bharath, brought to the students a very interesting way to test their Teamwork, Leadership, Intelligence through Word Association Tests, Emotions and Logic through Gamified Modules – Red Card and Blue Card Game & Diffusing Bombs using Code generated by Word Association.



All the students were split into different teams and each team had a very particular task and objective, through which they have learnt the concept of Ethos, Pathos and Logos.

ETHOS – Appealing to Credibility – The Students were taught to how to introduce themselves, create their own credibility and build character. Their idea is their strength and their actions build credibility.

PATHOS – Appealing to Emotion – The Students were taught how to understand and empathize with the audience and speak boldly with passion. Being aware of what's happening in the world and being proactive is the first step towards growth mindset.

LOGOS – Appealing to Logic – The Students were taught how to use Logic and their intelligence to help others and to create solutions to the problems identified by them in their day-to-day life.

The Concept of Ethos, Pathos and Logos and Growth Mindset forms the very basis and fundamentals for Design Thinking and Entrepreneurship, which is planned for Day 2.



The Objective of Day 1 is to broaden the mindsets of the students and help them explore the different possibilities and different ways to connect with each other and with their teachers.

DAY 2 – SESSION 1 – INFINITE ENGINEERS

DESIGN THINKING WORKSHOP

- **Empathize** **M.A. Aravind, Cofounder, Infinite Engineers**
 - **Define** detailed the following steps on the board and
 - **Ideate** taught the students the process of Design Thinking
 - **Prototype** The Workshop enabled the students to get Hands-
 - **Test** ON with each step of the process.



Activity: Building a Maze - A Labyrinth which will be solved by Other Teams.

Each Team is provided with Materials Kit to Build a Maze that is difficult for the other team to solve – Point Based Activity.

Ideating the Labyrinth and Planning the Prototype





Test for Each Team to Solve the Labyrinth Puzzle –



Each Team will try to solve the labyrinth puzzle created by the other team and the time in which each puzzle is solved is noted by the Trainer Th. M.A. Aravind with the help of the District Captains. By Solving the Puzzle, the students have learnt that the prototype that they have created from ideating and planning is to be tested by others.

Upon testing, the students will see the results whether their plan is working or not. They will receive feedback from each team and then start the process of making better ideas and better execution as well. The District Captains – T Prakash, Sudharshan, M.Raja Mohamed, P. Naresh of University College of Engineering, BIT Campus, Anna University, Dania Suresh and Datchayani of Cauvery College for Women, Trichy, Madhumitha.M of MAM School of Engineering helped in mentoring and training the students in both the sessions.

The Following is the Journey of the Student in TNIIC:

**Ethos, Pathos & Logos → Growth Mindset → Identifying Problems →
Studying the cause and effects → Generating Ideas → Arriving at a
Solution through Design Thinking → Prototyping → Testing → Feedback
→ Repeat followed by Business Planning → Pitch Presentation**

DAY 2 – SESSION 2 – E21 – IIT Madras

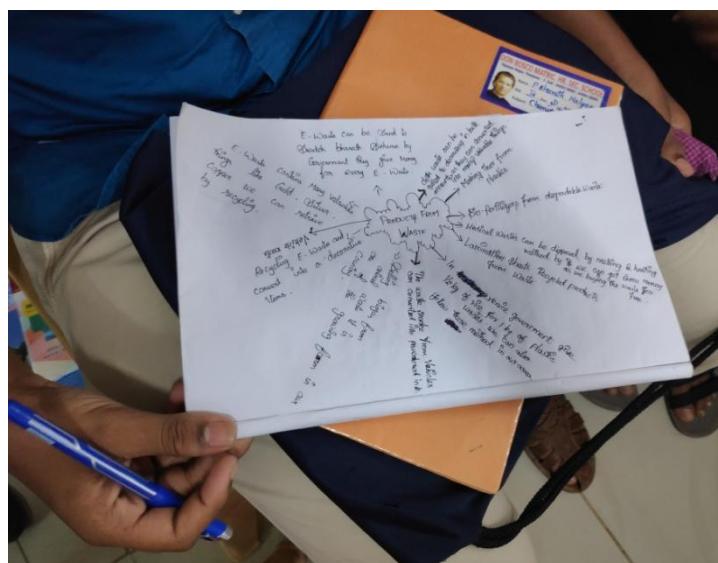
Objective: Idea Generation – Brainstorming - Concepts of Innovation - Introduction to Entrepreneurship - Converting Problem Statement & Solution to a Valid Business Model - Business Model Canvas & Art of Pitching.



Interactive Session on Defining Problem Statements and Identifying Solutions by Subham Subhas Dannanavar from E21-IIT-Madras and S.Dhanush Ram from Get Set Ventures

Brainstorming of Ideas

Students are encouraged to think as if there is NO BOX at all.



An Idea is neither good nor bad; it just needs the right actions to make it a reality. The ideas are generated for a problem statement that is defined by the Students. The further explore the concept of Ethos, Pathos and Logos during this process.

Business Model Canvas

Converting Problem Statement & Solution to a Valid Business Model



The Students understood the concept of Business Model Canvas by working out examples of Business Models of Prominent Startups such as Swiggy and Ola. Subham and Dhanush further explained how to pitch their innovative ideas by making presentations through videos and by mentoring the ideas of each group.

Credit goes to the Team of E21 and Getset Ventures, for their efforts made the students ready for the Final Pitch on 09.02.2020 and has helped them to think about Innovation and Entrepreneurship with a newly found interest. They have now realized that their science projects could indeed become a viable business to help people and society in the future by taking the necessary steps.



Panchayat Union Middle School, Pirattiyur**Cultural Performance of Classic Tamil Nadu Folk Arts****Silambaatam, Karakaatam, Kuilaatam, Mayilaatam, Dappu aatam**

The Headmistress and Teachers of PUMS, Pirattiyur, Trichy District supported by Th. Marudhanayagam, Block Education Officer, really deserve so much of credit and accolades for teaching the students the classical folk arts of Tamil Nadu and uplifting our own culture in this day of modernizing. Apart from teaching the students the folk arts, the School is transformed into a complete English medium school. The Students were really fluent and confident in conversing in English that they challenged the College Students to debate any topic with them. Also, Special Mention and Appreciation to Th. G.Ranganathan, Teacher from Nagapattinam District, S.M Hindu Hr Sec School, for the amazing solo singing performance.





Day 3 – SP Robotics Maker Lab – Hands-On Robotics

SP Robotics Maker Lab Team – D. Vignesh, N. Shyam Sundar, K. Vishal and Hari Narayanan started with how technology can be used to solve different problems in Real Life and took a session on the Fundamentals for Robotics in Tamil and English. Credit goes to SP Robotics Maker Lab team for they have taken the concept of Robotics to each Government and Government aided school student in a language that is easy for them to understand and has thus created the spark necessary for future innovators.



Following the Hands-On Robotics Session, the students were asked to define their Idea, problem statement and their solution which can either be solved using Technological or Non Technological methods. (Mentoring Sessions)



**Hands - ON
Session**

**Understanding
Basic Robotics
& Mechanics**

**Learning by
Doing**



After the completion of the Hands-On session of Robotics, the students were demonstrated how to build, plan and operate DRONES. Drones have a variety of applications from Surveying to Agriculture. Students have now the hands-on experience for Robotics, which could be used to solve a multitude of problems.



Drone Demonstration

Understanding
Coding and
Applications of
Drones

After this session, each team was asked to present their problem statement and solution with their pitch presentation and were mentored by SP Robotics Maker Lab team, EDII-TN Team, District Captains and HBS Students.

The Agenda for Final Pitch was then presented to the participating students and teachers and the scoring structure has been explained. It is informed that there will be two parallel sessions of Pitch Presentations and the best 6 Schools will be called back for Final Presentation in front of all the judges.



Day 4 - Final Pitch – 09.02.2020

Presentation of Ideas and Business Model Canvas

Ground Floor Library Hall - Batch 1

- GHS – SWAMIMALAI - THANJAVUR
- KAMALA NIKETAN MONTESSORI SCHOOL – TRICHY
- CSI HR.SEC SCHOOL - ARIYALUR
- GOVERNMENT HIGHER SECONDARY SCHOOL - NAGAPATTINAM
- PALLAPATTI HR.SEC SCHOOL – KARUR
- GOVT HR.SEC SCHOOL, KURUMBALUR – PERAMBALUR
- DON BOSCO MATRICULATION HR.SEC SCHOOL – THANJAVUR
- GOVT BOYS HR.SEC SCHOOL, VELLIYANAI – KARUR
- SEVA SANGAM GIRLS HR.SEC SCHOOL – TRICHY
- GOVT HR.SEC SCHOOL, THIRUMULLAIVASAL – NAGAPATTINAM
- GOLDEN GATES MATRIC HR.SEC SCHOOL – PERAMBALUR
- SBIOA MATRIC & HR.SEC SCHOOL – TRICHY
- GOVT HIGH SCHOOL, MARUTHUR SOUTH – NAGAPATTINAM
- SRI SANKARA VIDYALAYA - KARUR

First Floor Dr. APJ Abdul Kalam Memorial Hall - Batch 2

- GOVT HIGH SCHOOL, IRUR – PERAMBALUR
- GOVT HR.SEC SCHOOL, SUNDHARAPERUMALKOIL – THANJAVUR
- S.M HINDU HR.SEC SCHOOL – NAGAPATTINAM
- GOVT HIGH SCHOOL, NAGAMANGALAM – ARIYALUR
- MPL KUMARAN HIGH SCHOOL – KARUR
- GOLDEN GATES VIDHYASHRAM – PERAMBALUR
- GOVT MODEL GIRLS HR. SEC SCHOOL – TRICHY
- GOVT HR SEC SCHOOL, THIRUBHUVANAM – THANJAVUR
- HOLY CROSS GIRLS HR.SEC SCHOOL, TEPPAKULAM – TRICHY
- GOVT HR.SEC SCHOOL, THAGATTUR – NAGAPATTINAM
- GOVT HR.SEC SCHOOL, PONPARAPPI – ARIYALUR
- KSV HR.SEC SCHOOL, THULASIKODUMBU – KARUR
- THANTHAI HANS ROEVER HR. SEC. SCHOOL – PERAMBALUR
- SAVITRI VIDYALAYA HINDU GIRLS HR. SEC. SCHOOL – TRICHY

JUDGING CRITERIA

• Problem Statement	-	10 Marks
• Solution - Idea/Innovation	-	15 Marks
• Pitch Presentation	-	15 Marks
Communication Skill and Approach		
• Social Impact, Benefit to People	-	10 Marks
Business Model		
• Total	-	50 Marks

Jury:**From Left**

- 1. Dr. G. Karthikeyan, Professor, Hallmark Business School**
- 2. Dr. K. Kumaraguru, Hub Coordinator, IEDP Trichy Hub – Anna University UCE-BIT Campus, Trichy**
- 3. Th. R. Shiva Shankar, Deputy Director (PMO), EDII-TN**
- 4. Tmt. Jayashree Suresh, Founder, FirstKraft, Trichy**

Pitch Presentation – Each Team has been provided with 4 Minutes for Pitching and 3 Minutes for Q&A by the Jury.



The students practiced the art of pitching their innovation within the given time of 4 Minutes and have also explored the concept of converting their ideas into business by presenting their Business Model Canvas in the process.

Presentations were made using Charts to spur creativity of the students and to develop their presentation skills. They will rely more on their own presentation rather than computer generated slides and pictures. Also, not all students have the privilege to own laptops or computers to prepare PowerPoint Presentations.



Students presented their ideas, several of which were unique and innovative. The objective of this programme was achieved in making the students think beyond science exhibitions and that their ideas can really be transformed into a viable business.



**BEST 3 + 3 = 6
TEAMS (BATCH 1 +
BATCH 2) WERE
SELECTED FOR
FINAL ROUND -**

Dr. APJ Abdul Kalam
Memorial Hall
(01:30PM- 02:00PM)

The Schools selected for Final Round of Pitching – Best 6 Schools

- Govt Hr Sec School, Thirumullaivasal, Nagapattinam – Mechanical Fingers, Hands and Arms for Handicapped People which are customisable and already tested by the students.
- Sri Sankara Vidyalaya, Karur – Coconut Leaf Straws (applied for Patent as well) – Manufacture and Market Survey was done by the Students.
- SBIOA Matric & Hr Sec School, Trichy – Ambulance and Emergency Alert Systems embedded in Speedometers.
- Government Hr Sec School, Thirubhuvanam, Thanjavur District – INDIFinger – Instant Finger Print Analysis for Forensics and Crime Investigations using UV Light and Digital Camera in a Handheld Device that may be linked to UIDAI database.
- Government Hr Sec School, Thagattur, Nagapattinam – Smart Wheelchair for Physically and Visually Handicapped – Voice Activated Commands for Navigation and Unique Suspension system for Wheels
- KSV Hr Sec School, Thulasikodumbu, Karur - Single App for all services and problem solving of Local Buses, Emergency sos, overload meter, bus tracking, disciplinary issues to be solved by messages to authorities, TICKETING Services online, Late night safety as well.

Valedictory Session - Announcement of TNIIC Trichy Zone Winners and Certificate Distribution - 03:00 pm to 04:00 pm.

The Valedictory Session was presided over by respected Deputy Director PMO of EDII-TN Th. R.Shiva Shankar, Block Education Officer Trichy District Th. Marudhanayagam, Hub Coordinator of IEDP Trichy Hub Dr. K. Kumaraguru, Director Hallmark Business School, Dr. SR.Ramesh Kumar, Professor Management Studies Dr. G. Karthikeyan, Founder and CEO of FirstCraft Tmt. Jayashree Suresh, IEDP Trichy Field Coordinator Th. M.Vinoth, IEDP Thanjavur Field Coordinator Th. M. Martin, Hallmark Business School Faculty and Students and District Captains of Tamil Nadu Ilam Innovators Challenge Programme.



The Valedictory Guests, Respected Jury, Teachers and Participating Students were welcomed by Th. Suhas Darsi, Project Executive, TANSIM, EDII-TN along with the IEDP Field Coordinators of Trichy Th. M.Vinoth and Thanjavur Th. M. Martin. The Delegates on the Dias were introduced once again and felicitated.

Valedictory Address by Th. R. Shiva Shankar, Deputy Director, EDII-TN

Respected Deputy Director (PMO) of EDII-TN congratulated the students for successfully completing TNIIC Stage 2 Training Workshop and Pitch Presentation and explained the importance of learning about entrepreneurship, business and other life skills from a very young age. The Deputy Director further added that the programme being the Pilot Project successfully achieved its objective of Sowing the seeds of Innovation and Entrepreneurship amongst the School Students of Tamil Nadu. He had explained the various schemes and activities of EDII-TN that would benefit the students, teachers and parents as well. He then appreciated

the efforts taken by Hallmark Business School Director, Faculty and Student volunteer team for successfully organizing the 4 Day Residential Training Workshop for Trichy Zone and awarded the entire team.



Director Dr. SR. Ramesh Kumar	Faculty Mr. B.Dinesh Kumar	Faculty Ms. N.Vaseema
Faculty Dr. G.Karthikeyan	Students Amalorpava Jancy Kala A	Amrutha M
Divya Chacko	Aravindhan R	Mega RB
Nisha Chellam D	Ovyaa P	Preethi S
Ramya Bharathi P	Ramya M	Saravanan A
Sneha S	Sri Sai Ram V	Vignesh Arumugam V
Vishnu Priya MB	Yagu M	

Also, the following **District Captains** were appreciated for their contribution to TNIIC Stage 2 and for mentoring the School Students

Prakash T	University College of Engineering, BIT Campus, Anna University, Trichy-24
Sudharsan R	
Naresh P	
Raja Mohammad	

Jennifer Roys	Holy Cross College, Trichy
Dania Suresh	Cauvery College for Women, Trichy
Datchayani	
R. Varatharaj	M A M School of Engineering
M. Madhumitha	

Address by the Jury

Dr. G. Karthikeyan, HBS and Tmt. Jayashree Suresh, FirstCraft –



The Jury shared their experiences of evaluating the pitch presentations made by the students and gave a lot of valuable inputs to the students for developing their current ideas and also to improve upon their skills. Dr. G.Karthikeyan appreciated the learning opportunity provided to College Students to mentor the school students and also to train themselves in the process.

Tmt. Jayashree Suresh, motivated the girl students to pursue their ambitions with passion and determination and inspired them to fight all obstacles to achieve their dreams and also that they too can become very successful entrepreneurs.

Special Address by Th. Marudhanayagam, Block Education Officer Trichy District and Announcement of TNIIC Stage 2 Trichy Zone Winners



Th. Marudhanayagam, Block Education Officer, encouraged the students to pursue Innovation and that Entrepreneurship can be one of the leading career options when they complete their education. He has shared his experiences of working with school students and with the school education department. Further he appreciated the efforts taken by the students to Pitch their innovative ideas and asked the students to keep searching and learning about life skills.

Following the speech, Th. R. Shiva Shankar, Deputy Director EDII-TN, representing the Jury announced the Winners of Stage 2 – TNIIC Trichy Zone out of the participating 28 Schools from 7 Districts. He further added that some of the presentations made by the Students are much better than the presentations made by college students.

Winners of TNIIC Stage 2 - Trichy Zone→



1. Govt Hr Sec School, Thirumullaivasal, Nagapattinam – Mechanical Fingers, Hands and Arms for Handicapped People which are customisable and already tested by the students. The Students utilized low cost plastics and wood components to develop their prototypes. With some support and mentoring, the models could be 3D printed according to the patient's need and demand.

Page | 38



2. Govt Hr Sec School, Thirubhuvanam, Thanjavur - INDI-Finger -

Fingerprint Forensics Handheld Device integrated with fingerprint data of UIDAI and Govt of India to help police and military solve Crime Cases. The device uses UV Light to observe and High Definition Cameras to capture fingerprints in 2D and 3D and match them with the available database.



3. KSV Hr Sec School, Thulasikodumbu, Karur - Smart Public Transport -

Single App for all services and problem solving of Local Buses, Emergency sos, overload meter, bus tracking, disciplinary issues to be solved by messages to authorities, TICKETING Services online, Late night safety as well.

Special mention and Incubation Connect to Sri Sankara Vidyalaya Karur School. They will be associated with Anbil Dharmalingam TNAU University Agri Business Incubator

Feedback



Feedback Forms were circulated with the participating Students and Teachers and were asked to bring to our notice the immediate things that need to be improved upon. The feedback forms were evaluated. The Students and Teachers appreciated

the Training Methods and Approaches taken by our partnering Startups. During the Valedictory Session, the Students and Teachers were asked to speak about their experience and provide their feedback.

Also, Special Mention and Gratitude was shown towards TANSIM, EDII-TN Team, Hallmark Business School Director, Faculty Coordinators and Especially the Student Volunteers and Organizing Team for taking the utmost care and responsibly handling the arrangements and requests of all the participating students and teachers.

On an Average from all the Feedback Forms received (Out of 5)

1 = Poor 2= Satisfactory 3= Average 4= Good 5= Excellent

Overall Experience	-	4.5	Overall Learning	-	5
Stay (Room)	-	4.5	Food & Snacks	-	5
Hall & Classroom	-	4.5	Information Updates-		4.5

Scope and Benefits

- TNIIC 2019 is a **platform for the students to analyze their own skills, evaluate their competition in the district and in the state, and develop their potential to reach higher levels of competition**. The programme will make the students competition-ready to compete at the National Level like in INSPIRE, National Science Congress, Google Science Fair, etc. This will also bridge the skill-level and confidence gap between Government and Private schools.

- Stage 2 of Tamil Nadu Ilam Innovators Challenge 2019 has achieved the objective of creating the Growth Mindset required to seek new challenges and learn new things, continuously pursuing their passion and interest. Irrespective of Win or Fail, The Students have started thinking as an Innovator and an Entrepreneur.
- Tamil Nadu Ilam Innovators Challenge 2019's Objective is to inculcate the spirit of Innovation and develop Entrepreneurial Skills i.e 21st Century Skills in school students across all the districts of Tamil Nadu. **The team has collected valuable data with different parameters and through analysis of which, we can identify the strengths and shortcomings of each of the Districts and each Board of Education.**
- TNIIC 2019 enabled the team to get **Ground Level Data on 120+ Atal Tinkering Labs currently established and functioning in the State**, analysis of which will be beneficial to ATAL Innovation Mission, Tamil Nadu Startup and Innovation Mission, School Education Department, Entrepreneurship Development and Innovation Institute and Startups in the field of Education and Edu-Tech. Also, in the near future these Atal Tinkering Labs can perform as the base of operations for **the Junior E-Cells or Innovation Cells, supported by College E-Cells through the AIEDP Programme of EDII-TN/TANSIM.**
- The Programme has created much **awareness amongst the Students, Teachers and Schools** about the Initiatives and Schemes that the Government of Tamil Nadu and Government of India has implemented for their benefit through the School Education Department, RMSA, SSA, EDII-TN and such departments/agencies.
- The School Education Department through EDII-TN/TANSIM has opened up Government schools and Government Aided Schools for our partnering start-ups to work with and do the best they can for the benefit of the Students and Teachers. **The Teachers can also be trained in this regard, to build their capacity and to introduce innovative teaching methodologies in class. The Government and Startups can work together in this regard and in more cases.**

**TAMIL NADU ILAM INNOVATORS CHALLENGE 2019 – STAGE 2 – TRICHY ZONE****06.02.2020 TO 09.02.2020**



For More Details & Information:



Visit our website: www.tniic.in

Facebook Page: www.facebook.com/tniic2019

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Our Partners – The TNIIC 2019 Team

INFINITE ENGINEERS

<http://infiniteengineers.in/>

WARHORSE

<http://warhorse.in>

MADIEE

<https://www.madiee.com/>

SP ROBOTIC WORKS

<https://sproboticworks.com/>

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GET SET VENTURES

<https://getset.co.in/>