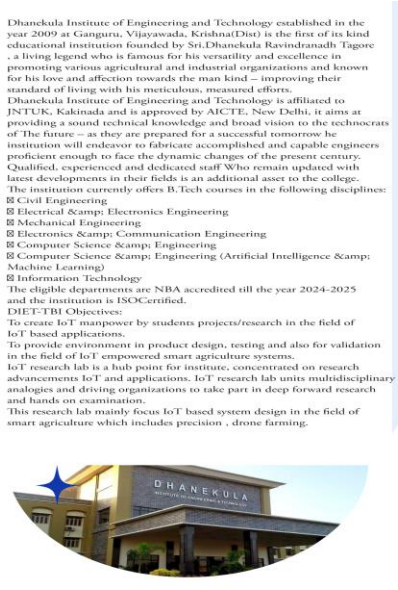
DIET- Technology Business Incubator (TBI) established at Dhanekula Institute of Engineering & Technology, Vijayawada.

Sl No	Department	1st Year	2nd Year	3rd Year	Total students trained
01	Diploma EEE	65	48	54	102
02	Diploma ECE	35	62	59	121
03	Diploma Mech	17	47	55	102
04	Diploma Civil	NA	17	18	35
05	Diploma CSE	66	NA	NA	0
06	ECE	174	183	186	369
07	EEE	8	28	26	54
08	CIVIL	2	12	50	62
09	CSE	194	208	204	412
10	IT	124	71	69	140
11	MECH	0	17	25	42
12	CSM	108	63	NA	63

DIET-TBI, conducted a **one-week Skill development program on "Build your own IoT application"-focus on agriculture sector 20-02-2023 to 25-02-2023** in association with Dept of ECE. The Summary of the workshop is presented below.



About TBI:

The TBI is a venture of universities, public research institutes, local government and private institutions to promote and bolster a new technology intensive enterprise.

TBI refers to the type of incubation where the focus group consists of innovative, mostly technology-oriented, or knowledge-intensive service sector enterprises and interactions with the academic sphere giving a substantive element of the incubation process. The pushing forward of TBI occurred in parallel with the vigorous transformation of today's spatial economic processes, it can be interpreted as a reply for the challenges of the learning-based economy.

As TBI intervenes into the spatial processes of the learning-based economy, integrates innovation- and enterprise-policy, and is implemented with the active participation of the academic sphere, it has certain unique characteristics that deserve mention:

• TBI fosters innovative start-up firms, thus the process of incubation is strongly intertwined with the innovation process that occurs in the supported enterprises.
• The objective of TBI is the realization of certain local economic development goals (ultimately the enhancement of the competitiveness).
• TBI aims at the development of new innovative industries by stimulating the establishment and early growth of start-up firms

DIET-TBI:

DIET-TBI main focus is to develop innovative products for agriculture and train the students to develop such products.

Main Focus areas are:

1. PCB Design and Fabrication
2. IoT based atmospheric water supply system
3. Automatic water management system
4. Drone sprayer
5. Smart and versatile cleaner with IoT applications

Outcomes of the Program:

The course is designed in such a way that the students will learn the tools using Project-based learning which offers students go beyond academic experiences of textbooks and lectures. In the process, they learn critical thinking skills and the competence to solve problems in the world around them. This exposure they can use in Student projects and convert them into PRODUCTS/PAPERS/PATENTS. Technology Business Incubator has an influence in creating Start-ups. This shows that the better the Technology Business Incubator performs
More incubators will rise and create local employment.

Objectives of the programme:

The aim of this course is to train students in latest skill set in the areas of 3D Printing, Internet of Things & PCB Manufacturing, the 6 days will cater all the basic principles of the domains mentioned and students can thrive in these areas for better innovations.

The course is arranged in a series of informative expert lectures on CAD Modelling, TINKER CAD, Simulation Using TINA Software and hands-on sessions on 3d Printer, IoT Builder & EP42 PCB Manufacturing .The fundamental principles guiding the advances in these areas were presented.

Schedule:

	10:00AM-01:00PM	**02:00 PM- 05:00 PM**
Monday Day-1	CAD Design Mr K Babu Rao Venue: CAD Lab	Hands-on using 3D Printer Mr Kavilikatta Pavan Kumar Venue: DIET-TBI
Tuesday Day-2	Product Manufacturing using 3D Printer Mr Kavilikatta Pavan Kumar Venue: CAD Lab	Product Manufacturing using 3D Printer Mr Kavilikatta Pavan Kumar Venue: DIET-TBI
Wednesday Day-3	IoT Builder Demonstration Mr. Mohammed Abdul Aziz Venue: IOT Lab	Installation of Arduino IDE & Tinker CAD Mr. Mohammed Abdul Aziz Venue: IoT Lab
Thursday Day-4	Make Your Own IOT Product Mr. Mohammed Abdul Aziz Venue: IoT Lab	Make Your Own IOT Product Mr. Mohammed Abdul Aziz Venue: IoT Lab
Friday Day-5	Circuit Design Using Tina Software Dr Rajesh Gogineni Venue: APSSDC Lab	Demonstration of PCB Design Machine Dr Rajesh Gogineni Venue: DIET-TBI
Saturday Day-6	Make Your Own PCB Mr P Veeraswamy Venue: APSSDC Lab	Product Testing & Validation Mr P Veeraswamy Venue: DIET-TBI

Online test links:
https://docs.google.com/forms/d/e/1FAIpQLSdlibD87qS39tlUiuoLf4FrX44vZ40fx1eeQZm8lQi5lKV7kQ/viewform

Sample Attendance:

Link for Feedback:
https://docs.google.com/forms/d/1ZC-7ghP3mh4YB2n5MTIoAqTeUYQm7nJC-X3pe5Ep1Wk/edit

Press report if any after successful completion:

Sample certificate:

Certificate of Participation

This certificate is awarded to

Mr @@@@@@@@@@@@@@@@

Reg No:@@@@@@@@@@@@@@

Department of @@@

Dhanekula Institute of Engineering & Technology

For his/her participation in 6 Day Skill Development program on "Build Your own IoT Application-Focus on Agriculture sector " organized by DIET-Technology Business Incubator under ASPIRE scheme from @@th February 2023 to @@ th 2023.

Dr. M Vamshi Krishna
HoD ,ECE.

Dr. Kadiyala Ravi
PRINCIPAL

123certificates

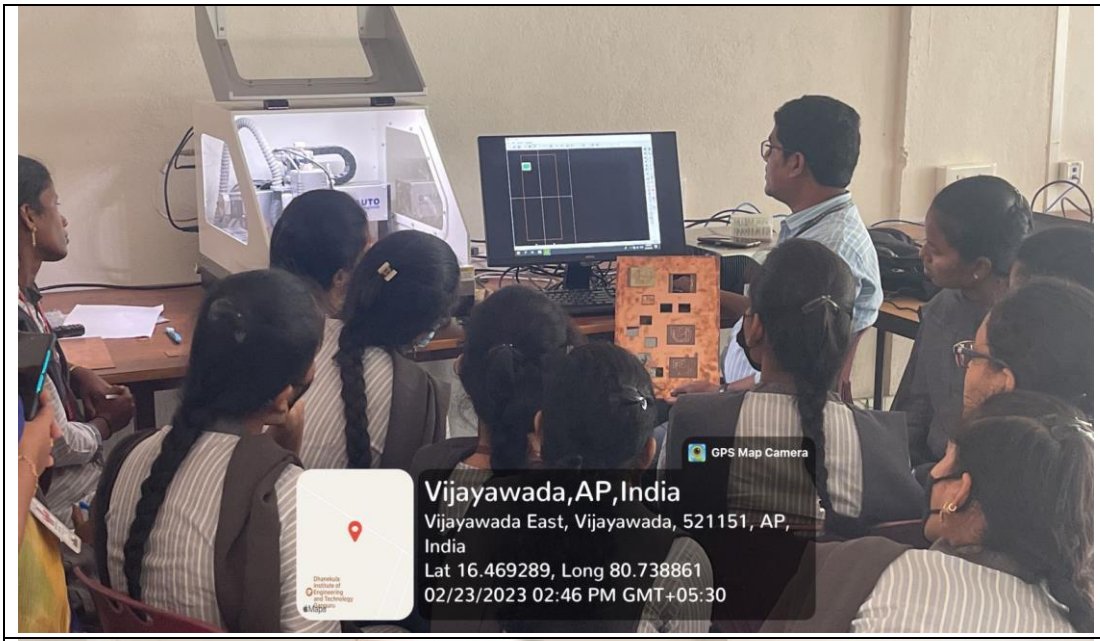
Conclusion:

The program was organized for 6 days and all the students who qualified in the exam and students with a minimum of 75 % attendance were awarded with certificates. The students have done few simulations and successfully prototyped using PCB Manufacturing machines and 3D Printer. Through IoT builder Students have worked on different agriculture sensors and verified the results.

I thank Management, D.K.R.K Ravi Prasad Director Sir, Dr Ravi Kadiyala Principal, Dr R Satya Prasad Dean Academics, R&D, HoD's, Teaching & NON teaching staff and students for their continuous support to make this event a success.

The Trainers involved in TBI are:

- Dr G Rajesh Associate Professor Dept of ECE
- Dr B Prurhvi Nath Assistant Professor Dept of ECE
- Mr K Pavan Kumar Assistant Professor Dept of MECH
- Mr K Babu Rao Assistant Professor Dept of CIVIL
- Mr Md Abdul Aziz Assistant Professor Dept of ECE
- Mr G Vasanth Assistant Professor Dept of ECE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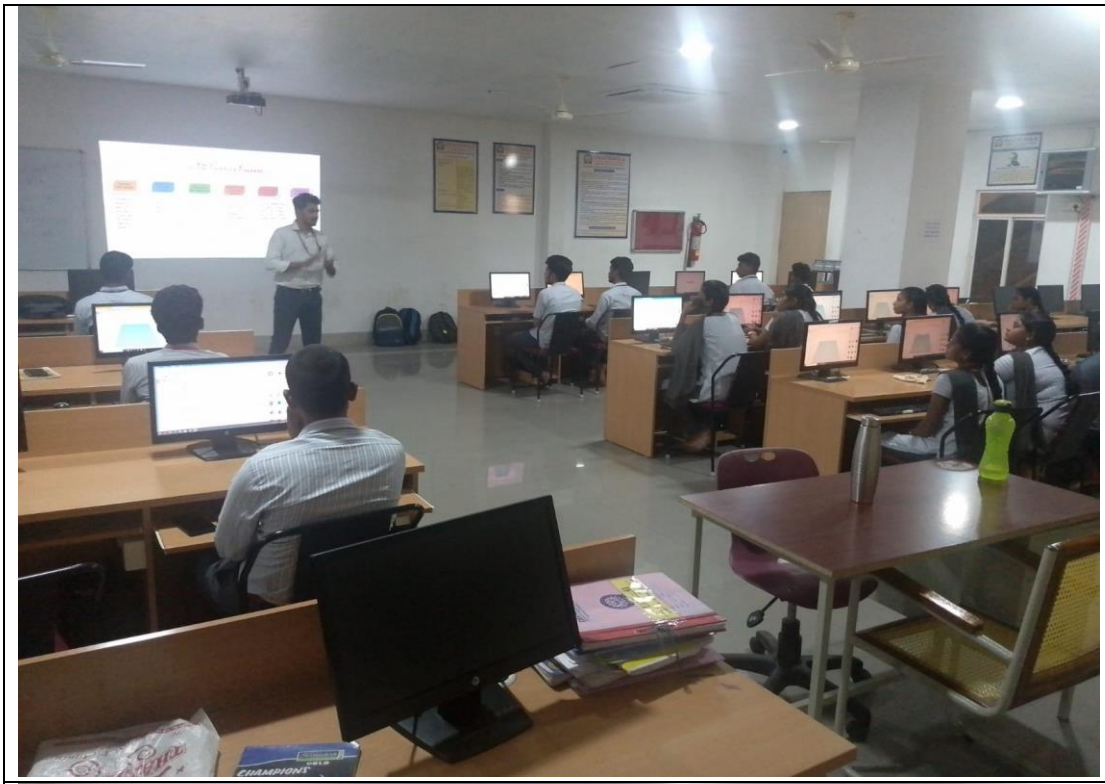

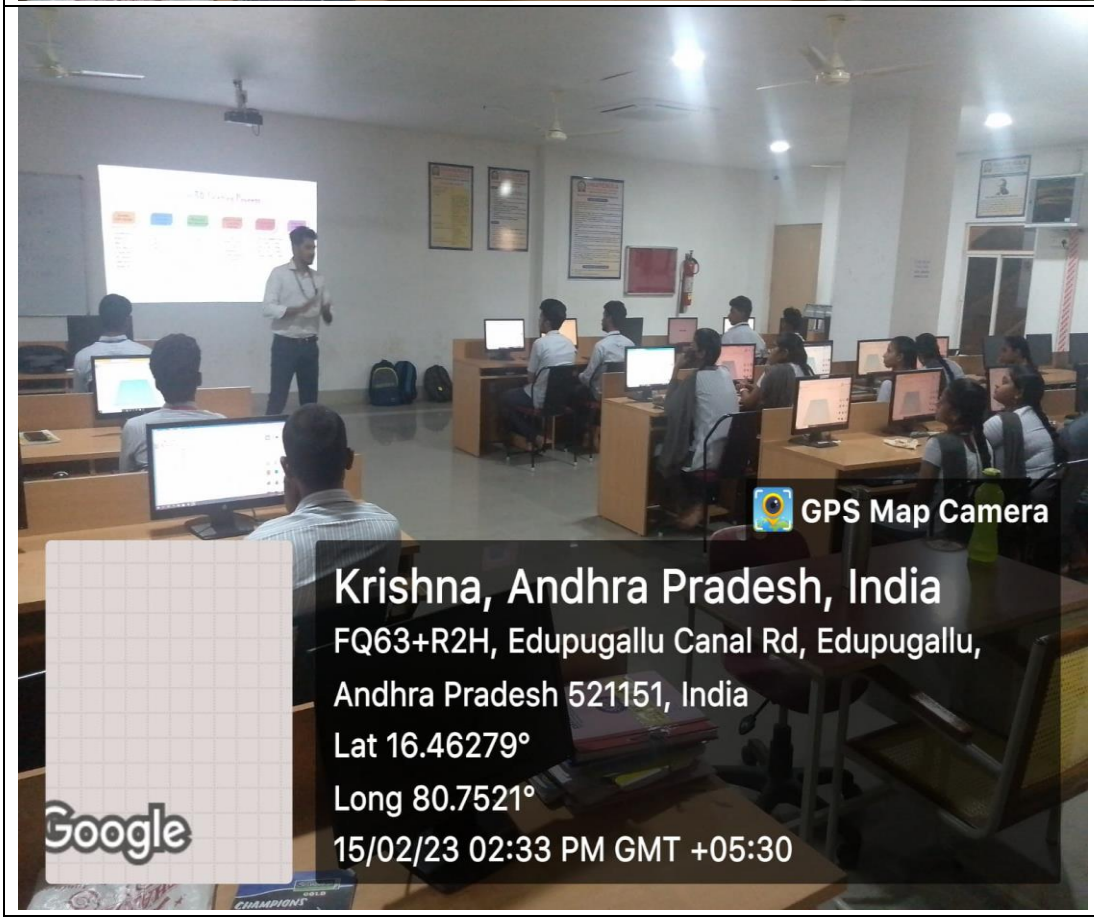
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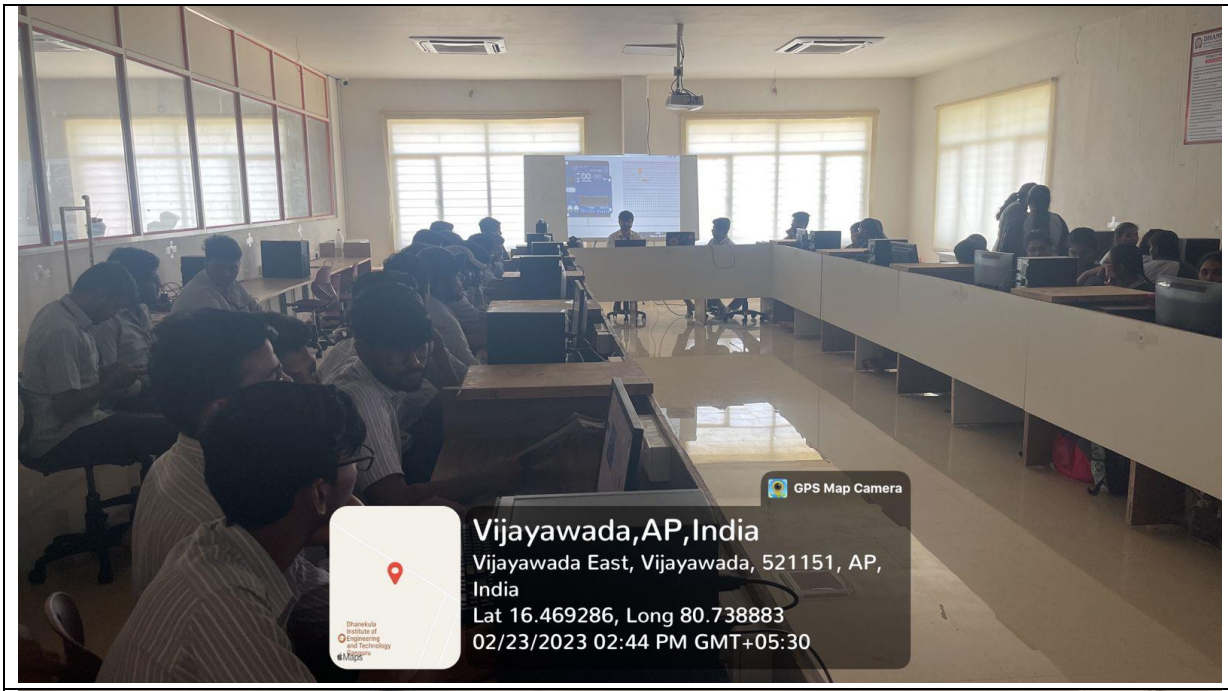
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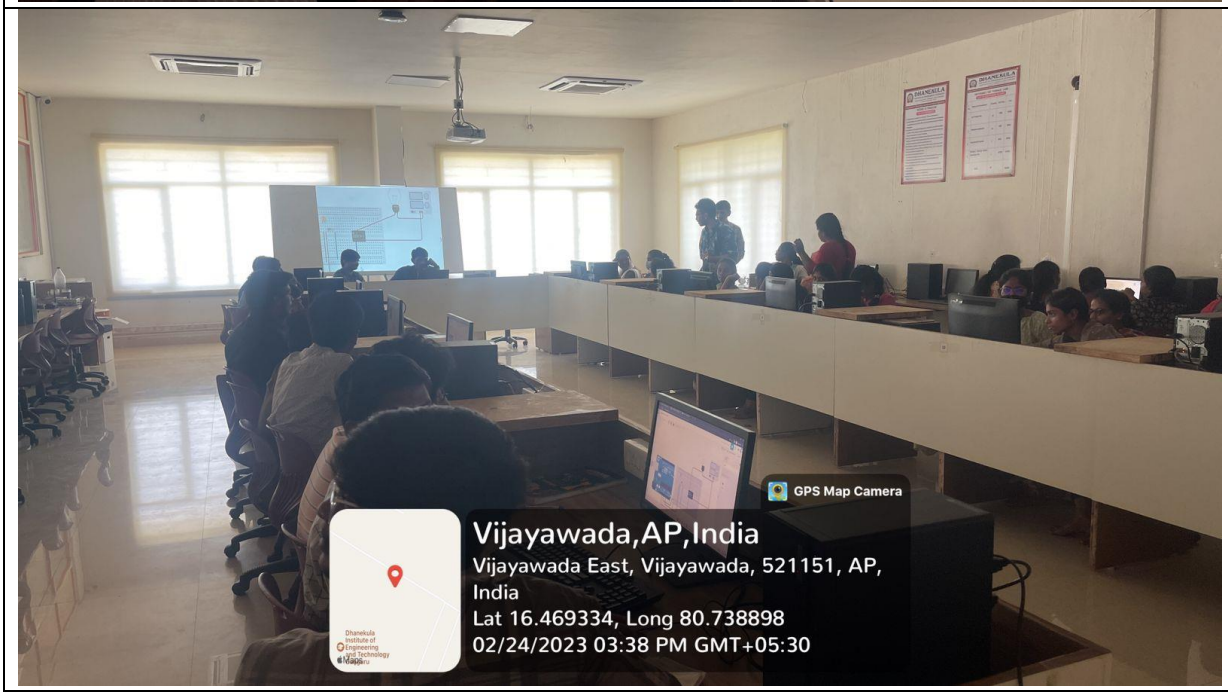
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