

ONE DAY WORKSHOP ON ENTREPRENEURSHIP IN SMART ELECTRONICS: FROM IDEA TO TECHNOLOGY DEVELOPMENT



23 July 2025



25+ Participants



9:00 AM - 5:00 PM

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PANDIT DEENDAYAL ENERGY UNIVERSITY (PDEU)



Pandit Deendayal Energy University (PDEU), formerly known as Pandit Deendayal Petroleum University (PDPU), was established by the PDPU Act, 2007; Acts of the Gujarat Legislature and Ordinances promulgated and Regulations made by the Governor, in the State of Gujarat, India. The primary thrust areas for the university are to ensure Energy for All, creating a Larger Social Impact and Prepare the Youth for tomorrow. PDEU has NAAC accreditation with "A++" Grade CGPA of **3.52** out of 4.00 & Graded Autonomy by UGC.

The University addresses the need for trained and specialised human resources for the energy industry worldwide. It intends to expand students' and professionals' opportunities to develop an intellectual knowledge base with leadership skills to compete globally. This objective is being addressed through several specialised and well-planned undergraduate and postgraduate energy education programs and intensive research initiatives, in management, engineering and humanities.

Key Statistics



100
ACRE CAMPUS
& 21 BUILDINGS



2500+
STUDENTS
HOSTEL
FACILITY



200+
VISITING
FACULTIES



500+
FULL TIME
FACULTY
MEMBERS



50+
PROFESSIONAL
BODY
ASSOCIATION



9500+
STUDENTS



98%
FACULTY WITH PHD
AND PREMIUM
INSTITUTES

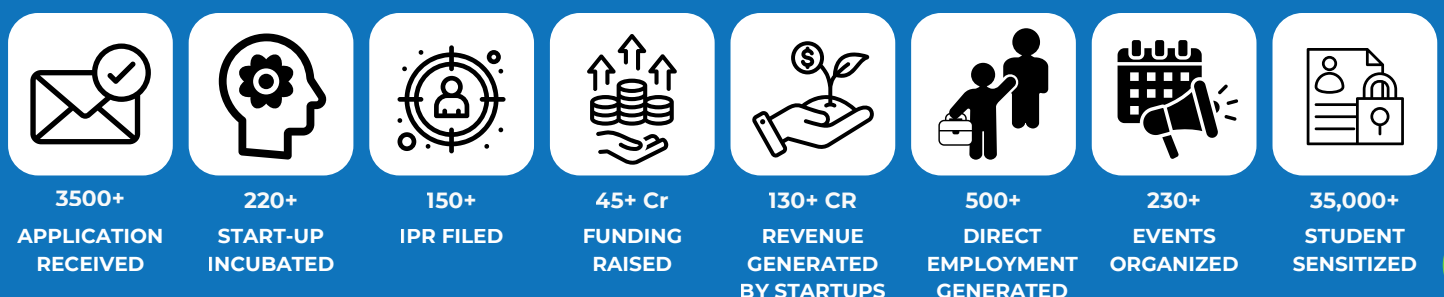
PDEU INNOVATION AND INCUBATION CENTRE (PDEU IIC)



PDEU Innovation and Incubation Centre (formerly known as PDEU IIC) is an incubator at PDEU established in 2014. The Centre was formally established in 2017 u/s 8 of The Companies Act, 2013, with a vision to provide state-of-the-art support and service to innovators, technocrats and entrepreneurs who aim to create a social and economic pact in society through innovative solutions to existing problems. The centre acts complementary to the academic and research activities of the University.

PDEU IIC has also been approved to be a **“Technology Business Incubator”**, a recognition by the Department of Science and Technology, Government of India. It is recognized as a Nodal Institute by the Government of Gujarat. PDEU IIC has incubated **220+ start-ups across 10+ domains** and generated **500+** employment opportunities through start-ups. The IIC Office has a specially designated area of **20,000 sq. ft** for the start-ups to work on.

Key Statistics



The School of Energy Technology, established in 2007, is dedicated to providing technological education, research, and service designed to anticipate and fulfill the requirements of the future. The School provides comprehensive Undergraduate, Postgraduate, and Doctoral education to both national and international scholars. The School emphasises a strong research and discovery-led philosophy. It houses modern laboratories and research centers dedicated to sustainable energy solutions. This robust infrastructure supports both faculty and students in conducting research that addresses critical energy challenges globally



PRAHAVAKA SOLUTIONS PVT. LTD.-STARTUP INCUBATED AT PDEU IIC

PRAHAVAKA SOLUTIONS PVT. LTD.-Startup Incubated at PDEU IIC

Pravahaka Solutions Pvt. Ltd. is a deep-tech startup working towards transforming electronics prototyping by making it simple, affordable, and accessible. The company develops advanced conductive inks, 2D materials, and printable components that allow students, researchers, and developers to build real-world circuits without costly tools or lab infrastructure. With applications ranging from flexible sensors to energy devices, Pravahaka's innovations are already being validated by top research institutions. The startup is enabling the next wave of electronics innovation across education, research, and industry.

SCHEDULE OF THE ONE DAY WORKSHOP

9:00–10:00	HIGH TEA & REGISTRATION
10.00–10.15	INAUGURATION CEREMONY
10.20–11.00	TALK 1 (DR. ANUP SANCHELA-MENTOR) - THERMOCOUPLE TYPES AND THEIR IDENTIFICATION:FUNDAMENTALS FOR ACCURATE SENSING
11.10–11.45	TALK 2 (MR. DEVANG ANADKAT-FOUNDER) - FROM CONCEPT TO ADVANCED DEVICES: A STARTUP STORY OF FLEXIBLE AND PRINTED ELECTRONICS INNOVATION
11.10–11.45	TALK 3 (SHRI. ABHINAV KAPADIA- DIRECTOR- PDEU-IIC) - FROM IDEA TO EXECUTION: KNOW HOW OF ENTREPRENEURSHIP WITH PDEU IIC
12.30–1.30	LUNCH
2.00–3.00	HANDS ON CIRCUITS DESIGNING
3.00–4.00	SCREEN PRINTING TECHNIQUE FOR ADVANCED SENSORS FABRICATION
4.00–4.30	HIGH TEA
4.30–5.00	CLOSING REMARKS

PURPOSE OF THE WORKSHOP



The workshop aimed towards inspiring innovation in smart electronics by providing hands-on experience with accessible technologies like conductive inks and printed sensors. It encouraged students, educators, and innovators to turn ideas into real-world solutions through practical learning and entrepreneurial insight.

ABOUT THE WORKSHOP



Pravahaka Solutions Pvt. Ltd. in collaboration with the Department of Physics and the School of Energy Technology (SoET), PDEU, organized a dynamic one-day workshop titled **“Entrepreneurship in Smart Electronics: From Idea to Technology Development”** on **July 23, 2025**, at the PDEU campus, Gandhinagar. Supported by the PDEU Innovation and Incubation Centre (PDEU IIC) and the NIDHI PRAYAS program, the event brought together students from schools and colleges, STEM educators, hobbyists, and budding entrepreneurs to explore innovation at the intersection of electronics, materials science, and entrepreneurship.

ABOUT THE WORKSHOP

The workshop featured three insightful talks:

- **Talk 1: “From Concept to Advanced Devices: A Startup Story of Flexible and Printed Electronics Innovation” by Dr. Anup Sanchela (Mentor-Pravahaka)** , shared the inspiring journey of Pravahaka Solutions. He explained how the idea of making electronics accessible to all evolved into work on custom conductive inks and printed components, paving the way for hands-on prototyping and meaningful use in education and research.



ABOUT THE WORKSHOP

Talk 2: “Thermocouple Types and Their Identification: Fundamentals for Accurate Sensing” by Mr. Devang Anadkat(Founder- Pravahaka), the session focused upon sensor fundamentals, with particular attention to thermocouples, real-time temperature monitoring, and how different materials influence accuracy, while drawing connections to practical engineering challenges and printed electronics.



Talk 3: “From Idea to Execution: Know-How on Entrepreneurship with PDEU IIC” by Shri. Abhinav Kapadia (Director-PDEU IIC), highlighted the institutional support available to innovators through incubation programs like NIDHI PRAYAS. It offered a roadmap for turning prototypes into viable businesses, while highlighting opportunities for funding, mentoring, and scaling deep-tech startups in India.

ABOUT THE WORKSHOP

- The day-long workshop included a range of activities, including **circuit design using electric paint, LED blinking, logic gate setups, capacitor demos, and live sensor and transistor applications**. One of the highlights was the screen-printing session for advanced sensor fabrication, where attendees gained exposure to scalable techniques used in printed electronics.
- All participants received **certificates of participation**, access to **live mentorship opportunities**, along with **networking sessions** with industry and academic experts. By keeping the fee affordable and participation limited, the workshop enabled deeper interaction, enhanced technical learning, and gently sparked entrepreneurial thinking around smart electronics



OUTCOMES OF THE WORKSHOP

The workshop bridged theoretical learning with real-world innovation in electronics through a mix of expert sessions and hands-on experiences, encouraging participants to explore flexible electronics, sensor design, and practical applications. By showcasing homegrown deep-tech solutions, it inspired students, educators, and innovators to turn ideas into impact, contributing towards a more accessible and innovation-driven smart electronics ecosystem..



TEAM PDEU IIC



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Let's Connect