

SSIP2.0 Sensitization Sessions

Event Name: Practical Training Workshop on Ai, Coding & entrepreneurship (05/12/2025 – 12/12/2025)

Date: 05/12/2025 – 12/12/2025

Venue/ Mode: Vitthalbhai Patel & Rajratna P. T. Patel Science College(Autonomous), Anand

No of Participants: 104

Speakers Name:

Prof. (Dr.) Sunil Chaki (Professor, Department Of Physics, Director – SPSEC), Mo.: 9426468647,
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Mr. Nirav Patel (Sr. Manager – SPSEC), Mo.: 9099208790, E-Mail: Srmanager.Spsec@Spuvvn.Edu

Ms. Priya Soni (Incubation Manager, SPSEC), Mo.: 6357299412, E-Mail: Spsec@Spuvvn.Edu

CS Mitul Suthar (Founder, MS Consultancy & Services), Mo.: 9537078907. E-Mail: csmitulsuthar@gmail.com

Mr. Vasant Mongra (Founder Satvefire Plast, Vadodara) Mo.: 9925237773, E-Mail: vasant.Mungara@Gmail.Com

Ms. Manauti Chaudhri (IP Officer, Anand Dist.), Mo.: 9054717022, E-Mail: manoutichaudhari22@Gmail.Com

Mr. Sharvan Kumar (Founder Agriora Innovation, Anand), Mo.: 8766354184, E-Mail: vishnubaibhav@Gmail.Com

Shri. Parthiv Shah (Founder Technoweb4u, Vadodara), Mo.: 9429535175 E-Mail: technoweb4u@Gmail.Com

Dr. Jaimin Undavia (Associate Professor at Charotar University of Science & Technology (CHARUSAT))
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Mr. Ritesh Prajapati (SLS Lab, Anand) Mo.: 9624356616

Dr. Dipen Parmar (Founder- Gavyam Gentech and Mee2Milet) Mo.: 9998744676, E-Mail: dipen.parmar@krishitattva.com

Dr. Kamini Solanki

Dr. Prashant Pittalia (Professor, Department of Computer Science, Sardar Patel University)
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Coordinator with Contact No. & Email:

Dr. Vipul Kataria (Assistant Professor in Chemistry, V. P. & R. P. T. P. Science College)
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🎯 Core Objective:

- To develop an entrepreneurial mindset among participants by encouraging creativity, problem-solving, and opportunity recognition.
- To understand the concept of innovation and entrepreneurship and differentiate between invention and innovation in real-world contexts.
- To identify real-life problems in society and convert them into viable business opportunities.
- To provide practical knowledge of startup development, including ideation, team building, funding, prototyping, and launching a Minimum Viable Product (MVP).
- To create awareness about Intellectual Property Rights (IPR) and the importance of securing patents and protecting innovative ideas.
- To familiarize participants with government schemes and funding support, including startup grants and incubation support.
- To encourage participation in the startup ecosystem, including incubators such as Navadhara and other innovation platforms.

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📅 Day 1 (05/12/2025)

Session 1: Programme Orientation & Innovation

Speaker: Dr. Sunil Chaki

The workshop began with orientation on entrepreneurship and innovation. Innovation was defined as creativity, and the difference between invention and innovation was explained.

The inspiring example of **Mickey Mouse** created by **Walt Disney** was shared to demonstrate how simple observations can lead to billion-dollar ideas.

A motivational quote by **A. P. J. Abdul Kalam** emphasized the importance of attitude in overcoming challenges.

India's development journey and startup ecosystem were discussed, highlighting brands like:

- Patanjali Ayurved
- Paytm
- Ola Cabs
- RedBus
- Gaana

The 8 steps to create a startup were introduced.



Session 2: Problem Solving & Design Thinking

Speaker: Mr. Nirav Patel

Students learned:

- Difference between invention, innovation, and discovery
- PoC vs Prototype vs MVP
- Design Thinking Process: Empathize → Define → Ideate → Prototype → Test
- Business incubator support (mentoring, funding, IPR, networking)



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📅 Day 2 (06/12/2025)

Session 1: Pitching, Fundraising & Networking

Speaker: Ms. Priya Soni & Ms. Sakshi Vanparia

Key learnings:

- Types of pitching: Elevator, Investor, Sales, Networking
- Business model components
- Grant utilization planning
- What investors look for: scalability, ROI, traction
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Case examples of product innovation in food and organic skincare were discussed.



Session 2: Business Planning & Legal Compliance

Speaker: CS Mitul Suthar

Topics covered:

- Forms of business: Sole Proprietorship, Partnership, LLP, Company
- SWOT analysis
- Patent, Trademark, Copyright differences
- MSME registration process
- Legal structure of startups



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 Day 3 (08/12/2025)

Session 1: Scientific Research Commercialization

Speaker: Mr. Vasant Mongra

The session explained how research can be transformed into commercially viable products.

The commercialization funnel included:

Discovery → Validation → Prototype → IP → Production → Market scaling

The case study of Sattva Fireplast was discussed as a successful lab-to-market example.



Session 2: Basics of Intellectual Property Rights

Speaker: Ms. Manauti Chaudhri

Topics covered:

- Patent (20 years protection)
- Trademark
- Copyright
- Geographical Indication (GI)
- Trade Secret

Students learned the importance of protecting innovation before publishing.



 Day 4 (09/12/2025)

Session 1: Green Tech & Sustainability

Speaker: Sharvan Kumar

Discussion included:

- Waste management opportunities
- Renewable energy innovation
- Bioenergy & recycling startups
- Sustainability as a trillion-dollar industry

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Session 2: Science Communication & EdTech Startups

Speaker: Shri Parthiv Shah

Students learned:

- Blogging & YouTube as science communication platforms
- Video editing & AI content tools
- How to create an EdTech startup
- Weekly action plan to launch content

 Day 5 (10/12/2025)

Session 1: Basics of Python

Speaker: Dr. Jaimin Undavia

Covered:


- Python fundamentals
- Data types & operators
- Lists & slicing
- Programming paradigms

Session 2: Data Science & AI Business

Speaker: Dr. Ashvin Makwana

Topics included:

- AI tools
- Data types (qualitative & quantitative)
- Data cleaning & visualization
- Career opportunities in AI & Data Science

 Day 6 (11/12/2025)

Session 1: STEM, Robotics & IoT Startups

Speaker: Mr. Ritesh Prajapati

Students learned:

- Arduino basics
- Sensors & controllers
- IoT applications
- Startup ideas in robotics

Session 2: Agri-Tech & GreenTech Entrepreneurship

Speaker: Dr. Dipen Parmar

Key concepts:

- Pareto Principle (80/20 Rule)
- Value Proposition Canvas
- Golden Circle (Why-How-What)
- SWOT analysis

 Day 7 (12/12/2025)

Session: Data Cleaning & Preprocessing in Python

Speaker: Dr. Kamini Solanki

Topics covered:

- Types of data
- Data errors & anomalies
- Feature engineering
- Supervised, Unsupervised & Reinforcement Learning

Students understood the importance of clean data for accurate AI models.

Conclusion

The 30-hour workshop successfully integrated technology, innovation, and entrepreneurship into a comprehensive learning experience. Students gained both technical and business insights required to transform ideas into startups. The sessions were interactive, practical, and inspiring, encouraging participants to become future innovators and job creators rather than job seekers.