



Ministry of Education
Government of India



Three-Day Innovation Design & Entrepreneurship (IDE) Bootcamp For Principals & Teachers of PM SHRI Schools

Nodal Center Name: Pillai HOC College of Engineering and Technology, Rasayani

Location: Pillai HOC College of Engineering and Technology, Rasayani

Address: Khalapur, HOC Colony Rd, Taluka, Rasayani,

Maharashtra 410207

Phone: 02192 669 000

Date: 17th – 19th December 2025

Registration & Networking

Sr. No.	Total no. of Registration	Total no. of Schools Registered	Total no. of Teachers Registered	Total no. of Male Teachers Registered	Total no. of Female Teachers Registered
1	168	91	168	12	156

Inauguration Ceremony

Programme overview and Learning Outcomes

Mahatma Education Society's, Pillai HOC College of Engineering and Technology, Rasayani in collaboration with The Ministry of Education, AICTE, MoE's Innovation Cell (MIC) & Wadhwani Foundation successfully held " Three-Day Innovation Design & Entrepreneurship (IDE) Bootcamp For Principals & Teachers of PM SHRI Schools" Bootcamps between 17th – 19th December 2025. The bootcamp was inaugurated by Prof. T. G. Sitharam, Chairman - AICTE in virtual mode at Pillai HOC College of Engineering and Technology, Rasayani . Bootcamp is scheduled for three days residential training program which was attended by enthusiastic participants from Principals & Teachers of PM SHRI Schools to undergo intensive experiential learning on Innovation Design & Entrepreneurship.

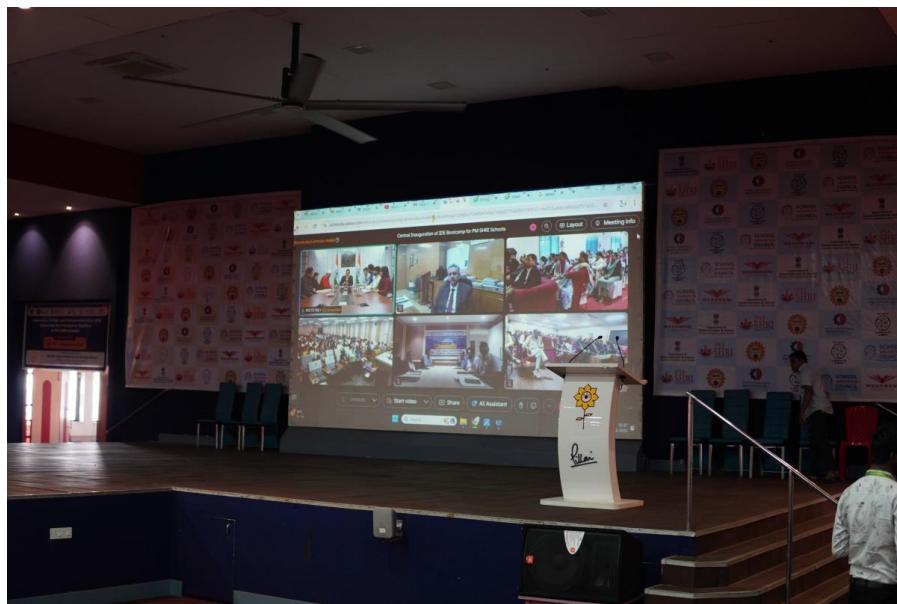


Figure 1: Inaugural talk by Prof. T. G. Sitharam, Chairman – AICTE

Envisioned by our esteemed Prime Minister Shri Narendra Modi, this unique initiative aims to nurture the Innovation, Design, and Entrepreneurial skills of Student Innovators. More than 500+ School Innovation Council / Contest, Junior Hackathons, ATL Innovation Challenges and Teachers under PM SHRI Schools beneficiary students participated in the bootcamp at Pillai HOC College of Engineering and Technology, Rasayani

During the inaugural ceremony, **Dr. Jagdish W. Bakal**, Principal, PHCET, Rasayani welcomed and boost the confidence of student and teachers participated in the boot camp. All the participants had the unique opportunity to explore uniquely designed skill centers. At the inaugural ceremony, the **Dr. Prem Goyal**, Former Scientist, B.A.R.C. Mumbai & Research dean, Pillai College of Engineering, Panvel said, "IDE Boot Camp would be a stepping stone to substantiate entrepreneurial growth in the current landscape. The attendees will have a basketful of learning's on how to transform the ideas into entrepreneurship. Further Wadhwani Experts Ms. Anajali NAik & Mr. Makarand Velankar and AICTE representative **Mr. Mayur Borkar**, Regional Coordinator ,School Innovation Contest, (MOE, Govt. of India) graced the occasion with their guidance.





The IDE bootcamp comprised of various training and activation sessions and workshops on product design, ergonomics design thinking and pitching skills to thrive in today's dynamic business landscape. Participants had the opportunity to delve into various product design methodologies, foster design thinking concepts, and gain invaluable experience.



Day1

Module - Spark Quest : Introduction to Innovation and Design Thinking Principles

Session 1

Speaker Profile: Dr. Makarand Velankar: Entrepreneurship educator and startup mentor. Experience of 2 successful and 1 unsuccessful business, 2 startups mentored received funding more than 5 crores as of now and successfully operating in market.

Speaker Profile: Dr. Anjali Naik: She holds a Bachelor's degree in Computer Engineering, a Master's degree in Electronics with Computer specialization, and a Ph.D. in Computer Science and Engineering. She has 32 years of teaching experience in Cummins College of Engineering for Women Engineering and has published more than fourteen Scopus-indexed research papers. Her areas of specialization include neural networks and deep learning, with additional academic interests in artificial intelligence and data-driven modeling. She has taught a wide range of courses such as Neural Networks and Deep Learning, Artificial Intelligence, Discrete Mathematics, Software Testing, Entrepreneurship Development, and Design Thinking. She has also reviewed numerous conference papers and actively contributes to curriculum development, academic administration, and innovation-oriented engineering education.



She has authored a book on entrepreneurship Development that is useful for engineering students and completed three levels of Innovation Ambassador.

Innovation and Design Thinking principles focus on a human-centered approach to solving problems by combining creativity, logic, and empathy. These principles encourage understanding users' needs deeply, defining clear problem statements, generating multiple ideas, building prototypes, and testing solutions iteratively. By promoting collaboration, experimentation, and learning from failure, design thinking helps individuals and organizations develop practical, user-friendly, and impactful solutions to real-world challenges.

Activity ID8- D.I.S.R.U.P.T model to innovations: Activity ID8 focuses on applying the D.I.S.R.U.P.T model to innovation, which guides participants to rethink existing products, services, or systems by challenging the status quo. The model encourages identifying Dissatisfactions, generating Insights, seeking Solutions, managing Risks, understanding User needs, building Prototypes, and Testing and refining ideas. Through this structured approach, learners develop disruptive and sustainable innovations that are user-centric, feasible, and aligned with real-world needs.

Visit to Incubation Centre/ Centre of Excellence (Within the campus):

The visit to the Incubation Centre / Centre of Excellence at PHCET provided valuable exposure to the institute's innovation and startup ecosystem. Participants gained insights into ongoing research, startup support facilities, mentoring processes, and advanced infrastructure available for product development and commercialization. The interaction helped students and faculty understand how ideas are transformed into viable innovations through incubation support, industry collaboration, and hands-on experimentation within the campus.

Entrepreneurial Innovation: A Path to Problem and opportunity identification – A Case Study Approach

Entrepreneurial innovation plays a crucial role in identifying problems and uncovering opportunities by applying creative thinking and market awareness to real-life situations. Through a case study approach, learners analyze successful and failed ventures to understand how entrepreneurs recognize unmet needs, validate ideas, and convert challenges into viable business opportunities. This method enhances practical learning, sharpens decision-making skills, and inspires innovative solutions that are sustainable, scalable, and aligned with societal and market demands.



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Day 2

Know your Customer: Customer Persona Lab:

The “Know Your Customer: Customer Persona Lab” activity helps participants understand the importance of identifying and analyzing target customers in the innovation and entrepreneurship process. By creating detailed customer personas based on demographics, behaviors, needs, and pain points, learners gain clarity on user expectations and preferences. This exercise strengthens empathy, improves problem-solution fit, and supports the development of user-centric products and services.

From Empathy to Action: JTBD Approach:

Speaker Profile: Mr. Yogesh Brahmankar: As the Innovation Director at MOE's Innovation Cell, Govt of India, he lead and manage the development and implementation of innovative initiatives and best practices for developing student entrepreneurs, entrepreneurial mindset across education sector in the country. With total experience of 24 Years in Industry, Academics, Last 10 years I have been pursuing my passion as Entrepreneurship Educator. HE is passionate about fostering a culture of Innovation, entrepreneurship and Intrapreneurship among educators and learners, also a certified Six Sigma Practitioner with expertise in standardization, Total Quality Management (TQM), Operational Excellence, and 5S. He has successfully applied these principles and methodologies to enhance the performance and outcomes of various educational programs and incubation initiatives, such as the MBA (Innovation and Entrepreneurship) program at Symbiosis Institute of Business Management, Pune,



where he served as the Programme Head and Programme Evangelist. He is committed to advancing the vision and mission of MoE's Innovation Cell, and to creating a positive impact on the education sector and society at large.

The “From Empathy to Action: JTBD (Jobs To Be Done) Approach” emphasizes understanding what customers are truly trying to achieve rather than focusing only on products or features. By identifying the functional, emotional, and social jobs of users, participants translate deep empathy into actionable insights for innovation. This approach enables the design of solutions that directly address real user motivations, improve value creation, and increase the chances of market success.

Making Your Business Stand Out: Build a solution - Idea & Unique Value Proposition:

“Making Your Business Stand Out: Build a Solution – Idea & Unique Value Proposition” focuses on transforming innovative ideas into clear, differentiated solutions that create real value for customers. Participants learn to define a strong unique value proposition by highlighting what makes their solution distinct, relevant, and superior to existing alternatives. This process helps align customer needs with business goals, ensuring the solution is compelling, competitive, and sustainable in the market.





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DAY 3 - Launch Sprint: Build, Test, Fund & Grow Your Idea

Bring Ideas to Life: Introduction to Prototyping:

“Bring Ideas to Life: Introduction to Prototyping” introduces participants to the importance of transforming concepts into tangible representations for better understanding and validation. Prototyping enables innovators to visualize ideas, test assumptions, gather user feedback, and refine solutions at an early stage. This hands-on approach reduces risk, encourages experimentation, and supports the development of practical, user-centered innovations.



Basics of Financial Literacy

Basics of Financial Literacy equips participants with essential knowledge to understand and manage finances effectively in personal and entrepreneurial contexts. It covers fundamental concepts such as budgeting, saving, income and expenses, investment basics, and financial planning. This foundation helps individuals make informed financial decisions, evaluate business viability, and ensure long-term financial sustainability.

Overview on Grants and Funding opportunities for student start-ups:

Speaker Profile: Mr. Devrut Jadhav: Start-up Ecosystem Enabler with European Union's ERASMUS+ fellowship in Business Modelling. Recipient of "Entrepreneurship Excellence Award 2025" under the category "Entrepreneurship Educator & Start-up Mentor". Education: M.E. in CAD/CAM & Robotics, B.E. in Mechanical Engineering. Current Designation: Chief Operating Officer (COO) at start-up incubator "Rayat Centenary Innovation and Incubation Foundation" (RCIIF, Kharghar). Experience: 14 yrs. in academics, entrepreneur education and start-up mentoring. MENTOR at START-UP INDIA by Government of India, Startup Bootcamp Netherland, BHASKAR ECOSYSTEM by Ministry of Commerce and Industry, Government of India. Having pivotal role in many Government Grants Committee, Judge at various events including IIT Bombay Techfest 25 and Start-up Related Policy Making

An overview on funding opportunities for student start-ups familiarizes young entrepreneurs with different sources of financial support such as bootstrapping, angel investors, venture capital, government schemes, and institutional grants. It helps students understand funding stages, eligibility criteria, and proposal requirements. This knowledge enables student innovators to choose suitable funding options, validate their ideas, and scale their start-ups effectively.

Overview on Grants by AICTE and Funding opportunities for start-ups:

Speaker Profile: Dr. Gajendra V. Patil: CEO & Founder of Anulish Enterprises LLP- Consultancy based services. Ph. D in Mechanical Engineering and approved PhD Guide. He is currently Professor and HoD in the Mechanical Engineering Department at Pillai HOC College of engineering and Technology. He has total 23 years of experience in teaching, research & training. Conducted Entrepreneurship, Innovation training workshops for Engineering Students. He has published his research in technical peer reviewed international publications. like Taylor and Francis, Springer and Elsevier Procedia. He has published two patents. Meditation trainer Certified by Heartfulness meditation Institute and conducted various meditation workshops and programs for Faculty and Students at various educational institutes.

An overview on grants by AICTE and funding opportunities for start-ups highlights the various schemes and financial support programs offered to promote innovation, entrepreneurship, and research. It covers initiatives such as student innovation grants, seed funding, incubation support, and start-up assistance provided through AICTE and



allied government agencies. Awareness of these grants helps start-ups secure early-stage funding, access mentorship and infrastructure, and accelerate the commercialization of innovative ideas.



Innovation and Design Thinking

Speaker Profile: Dr. Kartik Nagrajan Associate Professor, Department of Civil Engineering, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra, India. Network Coordinator, IIRS ISRO Outreach Programme. Secretary, Indian Society of Remote Sensing, Mumbai Chapter. Innovation Ambassador, Institute Innovation Council, Ministry of Education, AICTE. Core Technical Committee, State Disaster Management Authority (SDMA), Government of Maharashtra. Academic Counselor, Smart City Development and Management (DSCDM) programme, IGNOU. Professional Positions held & Experience: (Teaching/Industry/Research) (Total: 24 years 02 months) 50+ Journal Publications , 04 Patents , 03 Books Published

Innovation and Design Thinking is a structured, human-centered approach that combines creativity and analytical thinking to develop effective solutions to real-world problems. It emphasizes understanding user needs through empathy, defining clear problem statements, ideating multiple solutions, prototyping, and testing iteratively. By encouraging collaboration, experimentation, and learning from feedback, design thinking drives meaningful innovation that is practical, impactful, and sustainable.



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Closing Ceremony

(Feedback & Takeaways)

During closing ceremony **Dr. Makarand Velankar**, Wadhwani Foundation, expressed his experience with faculty and students was vibrant. AICTE representatives, **Mr. Mayur Borkar**, Regional Coordinator, School Innovation Contest, MOE, Govt. of India. mentioned this workshop will boost the confidence level of student and teachers. **Mr. Ajay N. Kakade**, State Coordinator (Maharashtra), Prathmik Shikshan Parishad, Mumbai, was present as a distinguished guest. He provided an overall perspective on the various schemes under the PM SHRI Schools initiative and offered valuable guidance to the participating Principals and Teachers on effective implementation for holistic school development.

The event promises a series of group activities, immersive working sessions, and engaging workshops, all tailored to ignite creativity and problem-solving skills. With an emphasis on fostering collaboration and interactive learning, participants will explore into the "why," "what," and "how" of innovation. Throughout the program, attendees will gain valuable insights into the significance of innovation in education, uncover practical strategies for driving change, and harness the power of entrepreneurial thinking.. Dr. G.V.Patil, Nodal SPOC extended thanks and mentioned efforts taken by The All India Council for Technical Education (AICTE), the Ministry of Education's Innovation Cell (MIC) Department of School Education to organise "Innovation, Design, and Entrepreneurship (IDE) Boot camp and thanked Wadhwani Foundation for providing training support. He also thanked management, Pillai HOC College of Engineering & Technology Rasayani for providing all types of support to make this event as a great success.





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Media Coverage:

MACHAR RAIGAD, WEDNESDAY, 7 JANUARY 2026 8

Rasayani Pillai school principals and teachers, Organizing entrepreneurship and bootcamps

Rasayani:
Rakesh kharade
Innovation, Design and Entrepreneurship (IDE) bootcamp for Principals & Teachers of PM SHRI at Pillai HOC College of Engineering & Technology (Autonomous), Rasayani

The Department of School Education and Literacy, All India Council for Technical Education (AICTE) & Ministry of Education Innovation Cell (MIC) has organized a 'Three-day' Innovation, Design and Entrepreneurship (IDE) Bootcamp" for Principals & Teachers of PM SHRI Schools. This bootcamp is being organized in collaboration with the Wadhwani Foundation, renowned for its support of entrepreneurship education.

IDE Bootcamp for PM SHRI schools is scheduled from Pillai HOC College of Engineering & Technology (Autonomous), Rasayani.

Prof. Sitharam T.G., Chairman, AICTE, Shri Dheeraj Salu, Additional Secretary, Department of School Education and Literacy, and Dr. Abhay Jere, Vice Chairman, AICTE, jointly inaugurated the Innovation, Design and Entrepreneurship (IDE) Bootcamp" for Principals & Teachers of PM SHRI Schools at 25 States and 2 UTS. State Level Inauguration at Pillai HOC

College of Engineering & Technology (Autonomous), Rasayani via Panvel, Raigad, Maharashtra was inaugurated by Dr. P. S. Goyal, Professor of Electronics and Dean R&D, Pillai College of Engineering Mr. Mayur Borkar, Regional Coordinator of Education's Innovation Cell (MIC), AICTE, Mr. Makarand Velankar, Expert, Wadhwani Foundation, Mrs. Anjali Naik, Expert, Wadhwani Foundation. The programme was meticulously planned and coordinated by the institute under the leadership of Dr. Jagdish W. Bakal, Principal, Dr. Gajendra V. Patil, Nodal Coordinator (Professor & Head, Mechanical Engineering Department). The successful organization of the event was made possible with the constant support and valuable guidance of the institute management, including Dr. K. M. Vasudevan Pillai (Chairman & CEO, MES Group of Institutions), Dr. Devendra Pillai (Secretary, MES Group of Institutions), Dr. Priam Pillai (COO, MES Group of Institutions), and Mr. Franav Pillai (Deputy CEO, Treasurer, MES Group of Institutions) with senior officials from the HEIs and over 190 + Principals & Teachers participated. During the programme, Mr. Yogesh Brahmankar, Innovation Director, Ministry of Education's Innovation Cell (MIC), conducted a session on JTBD (Jobs To Be Done) and guided all participants on innovative thinking, problem identification, and solution development.

During the valedictory function, Mr. Ajay N. Kakade, State Coordinator (Maharashtra), Prathmik Shikshan Parishad, Mumbai, was present as a distinguished guest. He provided an overall perspective on the various schemes under the PM SHRI Schools initiative and offered valuable guidance to the participating Principals and Teachers on effective implementation for holistic school development.

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Steve Smith strengthens Ashes legacy, only behind Don Bradman with 37th Test century

NEW DELHI (Agency)
Steve Smith further cemented his Ashes legacy



नवोपक्रम

रसायनी योथील पिल्लई कॉलेजमध्ये संपन्न उपक्रमाठी वाधवानी फाउंडेशनचा पुढाकार

प्राचार्य व शिक्षकांसाठी उद्योजकता व बृत्कॅम्प संपन्न

► रसायनी, (वा.) रसायनी योथील पिल्लई एचआरसी कॉलेज ऑफ इंजिनिअरिंग अंड टेक्नोलॉजी (स्वायत्र) येथे टप्पा एक नवोपक्रम, डिझाइन व उद्योजकता बृत्कॅम्प प्रियम शिक्षणातील प्राचार्य व शिक्षकांसाठी शालेय शिक्षण व विभाग, अखिल भारतीय तंत्रशिक्षण परिषद, व शिक्षण मंत्रालयाच्या नवोपक्रम कक्ष (MIC) याचा संयुक्त विद्यामाने



प्रियम श्री शाळेतील प्राचार्य व शिक्षकांसाठी तीन दिवसीय इन्वोपक्रम, बृत्कॅम्प उद्योजकता (IDE) बृत्कॅम्प आयोजन करण्यात आले होते. हा बृत्कॅम्प उद्योजकता शिक्षणासाठी प्रसिद्ध असलेल्या वाधवानी फाउंडेशन यांच्या सहकाऱ्याने राखविल्यात आला.

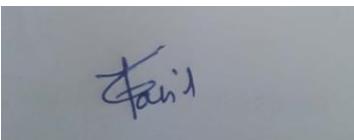
प्रियम श्री शाळेतील प्राचार्य आणुदाई बृत्कॅम्पचे टप्पा पिल्लई एचआरसी कॉलेज ऑफ इंजिनिअरिंग अंड टेक्नोलॉजी (स्वायत्र), रसायनी येथे आयोजित करण्यात आले होता. हा बृत्कॅम्पचे गोटीय स्तरावरील उद्याटन प्रा. टी. जी. सिधाराम (अध्यक्ष, AICTE), धीरज साहू (अंतरिक्ष टेक्नोलॉजी, रसायनी येथे डॉ. पी. एस.

सचिव, शाळेय शिक्षण व साकरता गोयल (प्राचार्यक, इलेक्ट्रॉनिक्स व विभाग), व डॉ. अमय जेरे (उद्योजक, AICTE) यांच्याहाते एकत्रितपणे २५, कॉलेज ऑफ इंजिनिअरिंग), मयूर चोपर गोयल व २ कैंद्रेशसित प्रेशरामये करण्यात आले.

राजव्यापारीय उद्याटन स्पार्टन पिल्लई एचआरसी कॉलेज ऑफ इंजिनिअरिंग अंड टेक्नोलॉजी, रसायनी येथे डॉ.

समस्यांची ओळख आणि प्रभावी उपाययोजना

- या कार्यक्रमचे नियोजन व समन्वय डॉ. जान्मिश डल्लू, वाकल (प्राचार्य) व डॉ. गणेश पाटील (नोडल समन्वयक, प्राचार्यक व विभागप्रमुख यांतीकी अधिकाऱ्यकी) याच्या नेतृत्वाखाली करण्यात आले.
- संस्थेच्या यशस्वी आयोजनासाठी डॉ. के. एम. वासुदेव पिल्लई (चेअसेन व एम्स, MES समूह), डॉ. डंकरी पिल्लई (सेक्टरी, MES समूह), डॉ. प्रियम पिल्लई (COO, MES समूह) व फ्रन्ट पिल्लई (ट्रेसर, MES समूह) यांचे मोलाचे मार्गदर्शन लाभावृत.
- या कार्यक्रमात गटचर्चा, प्रात्यक्षिक संवेदन, कार्यशाळा व अनुभवाधारित उपक्रमाचे आयोजन करण्यात आले आहे. नवोपक्रम, संजानशीलता व समस्या सोडविण्याच्या कौशल्यांचा विकास करण्यात विशेष भूमिका आला असून सहभागीसाठी नवोपक्रमाचे रूपका, काय आणि करेव याचे संख्याल आकलन करून देण्यात येणार आहे. शिखण क्षेत्रात नवोपक्रमाचे महत्त्व, बदल घडवून अणण्यासाठी उपयुक्त एण्णीती तसेच उद्योजकीय विचारसंगीत विभावी वापर याविषयी सहभागी शिक्षक व प्राचार्यांना मोल्यवान मार्गदर्शन मिळाणार आहे.



Dr. Gajendra V. Patil

Nodal SPOC, IDE Boot camp



Dr. Jagdish W. Bakal

Principal, PHCET, Rasayani