



Letter No.:AKTU/VCO/2025/13892

Dated : 05 Feb. 2025

To
The Directors/Principals
Affiliated Institutions of
Dr. A.P.J. Abdul Kalam Technical University
Lucknow, Uttar Pradesh

Subject: Invitation for Applications – AKTU IDEA Contest 2025

Dear Sir/Madam,

Greetings from **Innovation Hub, Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow!**
We are pleased to invite applications from your institution for the नवोन्मेष “The Idea Challenge 2025” an initiative to foster innovation and problem-solving among students. This contest aims to encourage students to identify real-world challenges and propose AI-driven solutions.

This year’s contest focuses on Generative AI; Artificial Intelligence for Academic Institutions; AI for Healthcare; AI for Automation etc. For reference an annexure-I is attached below.

Contest Highlights:

Theme: Artificial Intelligence: Solving Real-World Challenges

Who Can Apply: Open to all students from AKTU-affiliated institutions

Submission Criteria: A real problem statement and its AI-based solution

Rewards & Recognition: Winning teams will receive Prototyping support, IPR Support, Mentorship, Incubation support, and exciting rewards.

How to Apply?

Students can submit their entries at <https://bit.ly/Navonmesh2025> .

We encourage faculty coordinators to guide and motivate students to participate actively.

Last Date for Idea Submission: 2nd March 2025

For More Details Visit: www.ihubup.in

Minimum 10 innovative solutions are expected from your Institution.

Your institution's involvement will play a crucial role in shaping future innovators and promoting AI-based solutions for real-world challenges.

For any queries, please contact write us at navonmesh@aktu.ac.in

We look forward to enthusiastic participation from your esteemed institution.

You are kindly suggested to circulate this information among students and incubation centre of your institute and ensure minimum 10 participation.

Yours Sincerely

(Prof. Jai Prakash Pandey)

Vice-Chancellor

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The Idea Challenge 2025

Innovation Hub, Dr. A.P.J. Abdul Kalam Technical University (AKTU) is proud to announce the **Navonmesh 2025: A Idea Challenge**, an exciting platform designed to **empower young innovators and problem-solvers** to develop **AI-driven solutions** for real-world challenges.

THE BACKGROUND

Government of India through its initiatives like Viksit Bharat, Aatma Nirbhar Bharat, **Startup India, Make in India** has put emphasis on developing creative potential in students. Therefore, it is important to take this message of innovation and entrepreneurship to the students of today to encourage them to develop the spirit of innovation and harness their potential to dream futuristic ideas and make it happen.

The world stands on the brink of a transformative wave driven by Artificial Intelligence (AI). It is no exaggeration to state that AI is reshaping industries, economies, and societies at an unprecedented pace. As custodians of technical education, it is imperative that we anticipate these changes and position our students and institutions to not only adapt but lead in this evolving landscape.

NAVONMESH2025: OBJECTIVES

The objectives of Navonmesh 2025 are as below:

1. Ignite a passion for innovation and entrepreneurship among young minds.
2. Encourage students to identify AI Driven solutions to real-world challenges.
3. Provide a platform for students to develop critical thinking, creativity, and problem-solving skills in a team
4. Empower students to translate their ideas into actionable prototypes or saleable products
5. Recognize efforts of motivated faculty mentors and institutions who are working behind the scenes to develop entrepreneurship culture on campus.
6. Nurture high potential student ideas with incubation support.

NAVONMESH2025: WHO IS IT FOR?

1. **STUDENTS:** Navonmesh2025 is OPEN for all AKTU students from any discipline. However, students have to participate in teams of 1 to 4 members from the same institution.
2. **INSTITUTIONS:** Navonmesh2025 is also open to AKTU Affiliated Institutions. There are special rewards for institutions with special focus on Innovation and Entrepreneurship, on the basis of students and faculty mentors' participation.
3. Participation in Navonmesh2025: A Idea Challenge 2025, Competition is completely FREE.

NAVONMESH2025: COMPETITION STAGES

The Navonmesh 2025 is a multi-stage competition designed to nurture young innovators:

Stage 1: Ideation and Submission

- Students form teams of 3 to 5 members.
- Brainstorm and develop innovative solutions or business ideas aligned with the chosen theme (see below).
- Submit their ideas at <https://bit.ly/Navonmesh2025>

Stage 2: Selection of Top 300

- A jury of experts will evaluate all submitted entries based on creativity, innovation, and feasibility.
- The top 300 teams will be shortlisted for the next stage.
- All shortlisted teams will receive certificates of participation and teachers/mentors will be recognized.

Stage 3: The Video Challenge and Knowledge Session

- Top 300 team shall be provided free online workshops on new product development, marketing, and pitching.
- Teams will create a short video pitch showcasing their solution or product on YouTube and will submit for next stage of .

Stage 4: Selection of 150 ideas for Semi Final

- A jury will evaluate the video pitches and select the Top 150 teams
- All Top 150 teams will receive certificates and mentors will be recognized.
- The top 150 teams will participate in their nearest nodal centres (Lucknow; Noida; Jhansi; Gorakhpur) and pitch their idea before jury members.
- Each Nodal Centre will have 15 teams pitching at their respective centre
- The Winner and Runner-up from each nodal centre will reach to Grand Finale

Stage 5: The Grand Finale at AKTU Lucknow

- The selected teams will develop their prototype and will display at Grand Finale
- In Grand Finale the industry experts; Academic Experts and Investors will be the Jury Members
- All selected teams will receive Free of Cost IPR Support from AKTU Kalam Patent Centre

NAVONMESH 2025: EVENT SCHEDULE

The Event Calendar is as below:

Contest Launch: 5th February 2025

Stage-1: Result Announcement- Top 300: 20th February 2025

Video Submission Knowledge Session: 24th February 2025

Stage-2: Video Submission by Top-300: 24th February to 2nd March 2025

Stage-3: Result Announcement (Top 150): 10th March 2025

Stage-4 : Semi Finals- 23-29 March 2025 at different Nodal Centres

Stage-5: Grand Finale at AKTU Lucknow- 5th April 2025

Navonmesh 2025 runs on a tight schedule. Institutions are advised to keep students in readiness for the next stage as per the schedule.

NAVONMESH2025: REWARDS & RECOGNITION

The awards are designed to incentivize students as they move to higher level of competition. Further, there are awards for Teachers, Mentors and Institutions who are engaged in the furtherance of cause of innovation and entrepreneurship.

The awards are as follows:

- **Certificates:** All participants in Top 300, Top 150 and Top 20 will receive certificates.
- **Incubation Grant*:** The top 3 teams in each theme (Innovation & Entrepreneurship) for both will receive a progress-based incubation a total 5 lakh grant.
- **Recognition for Teachers/Mentors:** Teachers and mentors who guide students throughout the competition will be recognized at each stage.
- **Mentor Recognition:** Mentors who guide a significant number of students will be recognized by AKTU
- **Institution Recognition:** The institutions will maximum ideas selected for Top-300 will receive recognition from AKTU
- **Nodal Centre Recognition:** The institutions selected as the nodal centre to host semifinal will be recognized by AKTU



PRESENTS

नवोन्मेष

Aldea Challenge



Navonmesh: Aldea Challenge 2025 is an innovation-driven competition by AKTU, empowering students to develop AI-powered solutions for real-world challenges. Compete, collaborate, and create impact through a multi-stage journey, from ideation to the grand finale. Win recognition, mentorship, and incubation grants.

AI

SUBMIT IDEAS AT
<https://bit.ly/Navonmesh2025>

ANNEXURE-I

Examples of problem statements for the reference

1. Automated Attendance & Engagement System
2. Adaptive Learning & Smart Syllabus Tracker
3. Question Paper Generator
4. Smart Lab Management System
5. Assignment Evaluator
6. Digital Doubt-Solving Assistant
7. Course Recommendation System
8. Peer Learning & Collaboration Platform
9. Research Assistance Tool
10. Academic Performance Predictor
11. Exam Proctoring System
12. Admission Prediction System
13. Campus Navigation and Assistance Robot
14. Hostel Energy Management System
15. Flood Monitoring and Alert System
16. Placement Preparation Assistant
17. Entrepreneurship Ecosystem Platform
18. Skill Gap Analyzer
19. VR Industrial Training Simulator
20. Internship Matching Platform
21. Portfolio Assessment Tool
22. Soft Skills Development Coach
23. Smart Public Toilet System
24. Chatbot for Employee Queries
25. Fusion Software for NC Code Generation and Machining
26. Flood Prediction and Management System
27. Smart Energy Management in Hostels
28. AI-Powered Health Monitoring System

29. Smart Mental Health Support Platform
30. AI-Driven Startup Incubation Assistant
31. Smart Business Model Analyzer
32. AI-Powered Market Research Tool
33. AI-Powered Investor Matchmaking System
34. Automated Startup Funding Proposal Generator
35. AI-Driven Competitive Analysis Tool
36. AI-Powered Business Plan Generator
37. AI-Driven Patent Analysis and Filing Assistant
38. Women Empowerment Through AI-Based Skill Development
39. AI-Powered Rural Development and Resource Allocation
40. Low-Cost Suction-Based Drainage System
41. Smart Water Quality Monitoring
42. Corporate Micro-Credential Courses
43. Hackathons for Skill Validation
44. Live Project Portals
45. Smart Attendance via Facial Recognition
46. Digital Twin for Campus Logistics
47. AI Career Path Suggestions
48. AI-Powered Reception Robot
49. AI-Based Library Management System
50. AI-Driven Student Counseling Assistant
51. AI Driven On Screen Marking System.