Ref. No. IKGPTU/...18..................

Date. March. 7th. 2025

Directors/Principals
All the University Campuses/Colleges & institutions
Affiliated with IKGPTU

Sub: - Regarding Inviting applications from students under Capstone Project.

Dear Sir/Madam

As per the subject cited above, the Punjab State Council for Science & Technology (PSCST), under the Punjab State Innovation Council (PSInC), has launched the **Capstone Project Initiative,** providing students with a unique opportunity to work on real-world industry challenges. This initiative aims to bridge the gap between academia and industry by encouraging students to develop innovative solutions to technological challenges faced by businesses. By participating, students will gain hands-on experience, enhance their problem-solving skills, and contribute to strengthening Punjab's research and innovation ecosystem.

This initiative is open to students from recognized institutions in Punjab, including those pursuing **Diploma (Polytechnic), Undergraduate (B.Tech), Postgraduate (M.Tech, M.Sc.), and Doctorate (Ph.D.)** programs in Engineering and Sciences. Diploma and undergraduate students are encouraged to apply as teams of 3–5 members, while postgraduate and Ph.D. students may apply individually. Each project must have a faculty mentor from the host institution to provide guidance throughout the project duration.

Students who successfully complete their projects will receive an **Innovation Fellowship Certificate.** Additionally, selected projects will receive funding support of ₹75,000 − ₹1,00,000, which includes fellowship (up to 40% of the grant), contingency, and travel expenses.

In light of the above, E Cell coordinators of University Campuses and Affiliated Institutes are requested to encourage students for participation. To participate, students must submit their applications in the prescribed format by **March 15, 2025** via email to **alkesh.kandoria@punjab.gov.in**. the **Industry Challenge Statements**&Application **Form** are enclosed.

Regards

Dr.Mrigender Singh Bedi
Assistant Director (BIC)

CC :
1. SVC to Vice-Chancellor for information
2. Head BIC for information

"Propelling Punjab to a prosperous Knowledge Society"

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CAPSTONE PROJECT PROGRAM

Opportunity for Innovations by Students- Call for Applications

Applications are invited from students of Engineering & Sciences Disciplines from Polytechnics/Colleges/ Universities/ Institutions of Punjab to work on **Real-time Industrial Challenges**.

The program aims to strengthen Punjab's Innovation ecosystem by bridging gap between industry & academia, providing students exposure to practical learning and industrial experience.

For detailed guidelines and application format, visit www.pscst.punjab.gov.in

Interested may submit proposals by 15.03.2025. through email only at: alkesh.kandoria@punjab.gov.in. Corrigendum(s), if any, shall be published on the above website.

PSO (R&SFD)

Background Note of CAPSTONE PROJECT

Punjab State Council for Science & Technology (PSCST) steering the Punjab State Innovation Council (PSInC) Initiative supported by the Government of Punjab. Under PSInC, PSCST has taken pioneering initiative to Map Research & Innovation Landscape of Industry including their technological challenges in collaboration with Technology Enabling Centre, Panjab University. In order to address the unmet needs of industry, PSCST has launched Capstone Project Initiative.

This Initiative aims to strengthen Punjab's Research and Innovation Ecosystem by providing students exposure to industry challenges, fostering practical learning and promoting innovative problem-solving. It bridges the gap between academic knowledge and industry needs, equipping students with valuable insights and industrial experience. The primary objective of the Capstone Project Initiative is to encourage Diploma/UG/PG/Ph.D. students from Engineering & Sciences backgrounds to work on practical and industry-relevant problems.

Objectives of Program:

- Addressing Industry Unmet needs
- Foster Industry-Academia Collaborations
- Enhance Practical Learning among Diploma/UG/PG/Ph.D. students of Engineering & Sciences
- Develop Critical Problem-Solving Skills
- Strengthen Punjab's Research & Innovation Ecosystem

Guidelines & Eligibility for Capstone Project

To ensure a structured and impactful approach, the following guidelines and eligibility criteria have been defined:

Eligibility Criteria

The program is open to Diploma (Polytechnic), Undergraduate (UG), Postgraduate (PG), and Doctorate (Ph.D.) students from recognized institutions of Punjab.

- **Eligible disciplines include**:
    - Engineering (Diploma/BE/B.Tech/ME/M.Tech/Ph.D.)
    - Sciences (M.Sc/Ph.D.)

Team Composition:

- Students from Diploma /Undergraduate are encouraged to apply as a team comprising 3–5 members. The Postgraduate & Ph.D. students may submit application individually.

- The application for Capstone Project to have mentor from same Host Institution.

Capstone Project Timeline

- Timeline for Completion of Project is max. 1 year. Students are encouraged to submit the solution at earliest.

- Mid-Term Review of Capstone Project be conducted to record progress and take industry feedback.

- Final Review be conducted at project completion to evaluate outcomes and industry impact.

- Certificate for 'Innovation Fellowship' be issued to students who successfully complete their Capstone Projects.

Funding Support

- Funding support of Rs. 0.75-1 Lac including fellowship (upto 40% of Grant), contingency, travel to be provided per Capstone Project by PSCST. Selection Committee may decide the budget based on Industry challenge, duration of project, qualification etc.
- Funds would be disbursed by PSCST to Host Institution through Mentor, who will be responsible for implementation of project. Institutions/Mentor to ensure tangible outcome of project and submit UC/SOE reports after finalization of Project.

Selection Process

- The initial screening of applications will be done by a committee. The screened applications will be evaluated by the Expert Group for selection of Capstone projects.
- The result be released on website of PSCST.

Application Submission

Download Industry Challenges Statements:
https://pscst.punjab.gov.in/sites/default/files/Capstone/IndustryChallengesStatement.pdf

Download Application Form:

https://pscst.punjab.gov.in/sites/default/files/Capstone/CAPSTONE_ApplicationForm.doc

Last Date to Apply: March, 15, 2025.

Interested students may submit Applications in prescribed format up to 15.03.2025 through email only at: alkesh.kandoria@punjab.gov.in.