

Ministry of Agriculture & Farmers Welfare Hosting A National Level Hackathon



Theme

Crop Area & Yield Estimation

Revamp crop yield estimation via remote sensing, machine learning, and data analytics in this hackathon, aiming for sustainable farming by replacing labor-intensive methods and addressing crop types and environmental variables.

UNLEASH INNOVATION AT
THE DIGITAL CROP SURVEY
HACKATHON

REGISTRATION

15th September to 10th October 2023

Apply Now

Eligibility criteria

Students/faculties/innovators from any university/technical institution across the country can participate in the form of a group of up to 4 team members (maximum). Participation of at least one student in each group is mandatory.

Team structure

This group will comprise a maximum of 4 participants, with not more than one faculty member and/or more than one innovator or entrepreneur. Participating students can collaborate with local start-ups/industry, students from universities, and technological institutes.

Awards



1 ST	5,00,000
2 ND	3,00,000
3 RD	1,00,000



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Problem Statement for Crop Survey Hackathon

1. "Creating an Effective Crop Assessment Tool Using Geospatial Technology"
2. "AI-ML Decision System for Efficient Farming using Crop Survey Data"
3. "Predictive Analytics for Future Crop Yields from Survey Data"
4. "Automated Crop Identification System for Accurate Field Analysis"
5. "Robust Data System for Digital Crop Surveys in Low-Tech Farming"
6. "Innovative Drone Tech for Advanced Digital Crop Survey"
7. 5G Enabled Automated drone equipped with multispectral camera and others sensors for crop surveying, pest detection, Topographical Mapping, Drought Assessment, Harvesting support.
8. 5G enabled Drone with higher payload capability for Precision spraying (post to the survey/during survey)
9. 5G enabled AI powered wireless Camera Monitoring Crops/insects/pests : Insect recognition, Fruit detection, Anomaly detection during phenophases, actionable insights

