





Event Brochure

SKUAST-Jammu

AgriThon 2024

Igniting young minds

ATTRACTIVE PRIZES



Precision & Economical Farming

(For students of higher education institutions of UTs of J&K and Ladakh)



https://skuast.org/AgriThon/

Organizer

Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu

MAIN CAMPUS CHATHA - 180009, JAMMU, J&K, INDIA

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AgriThon 2024 **Precision and Economical Farming**

About the AgriThon



SKUAST-Jammu is organizing AgriThon - 2024 for inviting innovative and out of box solutions to the problems faced in agriculture. The event provides a useful platform to the students of higher education institutes in the UTs of Jammu & Kashmir and Ladakh to showcase their innovative approaches & technology solutions on precision and economical farming. The final event will be held at SKUAST-Jammu, Main Campus Chatha, Jammu - 180009 (J&K).

Eligibility for participation



- Students, faculties and innovators/entrepreneurs from any higher education institution across the UTs of Jammu & Kashmir and Ladakh can apply and participate in the event in the form of a group/team.
- . The group/team should comprise of maximum 4 members with at least two students and no more than one faculty and / or more than one innovator or entrepreneur.
- · All four members of the group/team can be students also.
- · Student will be the team leader in each group/team.
- · Participating students can collaborate with local start-ups/entrepreneur/innovator operational in UTs of J&K and Ladakh only.
- . The group/team leader and members are entitled to submit only one idea/concept. Multiple submissions by the leader or members will not be entertained.
- · Faculty members from any institute, if involved in organizing/evaluation committee cannot participate in the event as member of the group/team.

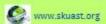
Thematic areas



This event is intended to invite and encourage students to submit innovative and out of box solutions for the selected problem statements. The participants will be presenting their technological and managerial interventions for emerging challenges in J&K and Ladakh. Innovations in livestock, crop farming, mechanization and post-harvest production are the main thematic areas for this event.

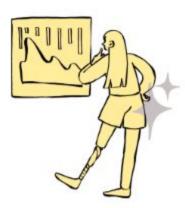






Problem statements

Following are the problem statements under each thematic areas on which applicants can showcase innovative approaches and technological solutions to promote precision and economical farming.



THEME I: INNOVATIONS IN LIVESTOCK, DAIRYING, POULTRY & FISH FARMING

- 1.1. Climate smart livestock, dairying, poultry and fish farm management
- Precision livestock, dairying, poultry and fish health management
- 1.3. Innovative tools for reducing drudgery in livestock, dairying, poultry and fish farming
- 1.4. Livestock and poultry farm mechanization automation and robotization
- 1.5. Telemedicine, telehealth, and health Information modules
- Artificial Intelligence (AI) and Machine Learning (ML) based forecasting models of livestock, dairying, poultry and fish diseases
- 1.7. Innovative tools for estrus and early pregnancy detection in large animals
- 1.8. Wealth/ Green energy from livestock, poultry and fish waste and bio-wastes
- 1.9. Innovative methods for animal identification and traceability
- 1.10. Innovative livestock, dairying, poultry and fishery business models
- 1.11. Digital platform/e-market module for animal, animal products/by products
- 1.12. Innovative tools for detection of adulterants, detergents etc. in milk, meat and their products
- 1.13. Any other problem relevant to the theme

THEME II: INNOVATIONS IN CROP AND HORTICULTURE FARMING

- Precision agriculture including application of AI, sensors, Augmented Reality (AR) and Virtual Reality (VR), Internet of Things (IoT) and drones for production planning and price risk reduction
- 2.2. Seed supply chain management, enterprise resource planning & block chain enabled technology for seed production, distribution and marketing for smart agriculture
- 2.3. Decision support system for pest prediction, forewarning & crop management
- 2.4. Innovations for increasing Water Use Efficiency (WUE) and Nutrient use Efficiency (NUE) in agriculture and horticulture
- 2.5. Business models for biofortified crops and edible oil value chain
- 2.6. Climate smart agriculture and horticulture technologies to reduce food miles and carbon footprints
- 2.7. Wealth from agriculture / horticulture waste and biowaste into value-added bioproducts
- 2.8. Smart farming tools for monitoring soil and plants nutrients
- 2.9. Farm data management and sharing in agriculture
- 2.10. Mechanization, automation and robotics in crop and horticulture farming
- 2.11. Smart storage and dispensing machines for food grains using sensors
- 2.12. Geospatial application for smart agriculture and horticulture
- 2.13. Traceability solutions for supply chain and agricultural logistics
- 2.14. Postharvest innovations in agriculture and horticulture crops
- 2.15. Any other problem relevant to the theme





THEME III: INNOVATIONS IN FARM MECHANIZATION, DIGITAL AGRICULTURE & AUTOMATION

- 3.1. Digital automation and robotics in agriculture and allied sectors
- 3.2. Intermediate machines for high land precision farming
- 3.3. Women friendly equipment for small farm operations
- 3.4. Real time assessment of soil qualities and precise application of the fertilizers
- 3.5. Intelligent sensors to save water and fertilizer for adapted agriculture
- 3.6. Real time detection of plant diseases and simultaneous site-specific application of pesticides
- 3.7. Device for contactless detection of biotic and abiotic stresses to crops
- 3.8. Automatic transplanter/seeder/weeder/harvester
- Robotic harvesting of fruit & vegetables in multiple picking crops
- 3.10. Yield monitoring without crop harvesting
- 3.11. Machinery for crop residue collection, handling, storage and management
- 3.12. Solar Assisted E- machines, tractors etc for small scale farming
- 3.13. Any other problem relevant to the theme

THEME IV: INNOVATIONS IN POST-HARVEST, VALUE ADDITION, SUPPLY CHAIN & LOGISTICS

- 4.1. Smart technologies for value added products from crop residues/milling byproducts
- 4.2. Detection of veterinary drug residues in animal food products such as meat, eggs and milk etc.
- 4.3. Detection of adulterants and chemical compounds in fruits and vegetables
- 4.4. Smart monitoring and surveillance of food contamination
- 4.5. Application of Artificial Intelligence (AI) in food industry
- 4.6. Tools for food analysis, traceability and authenticity of food quality and safety monitoring in food supply chain
- 4.7. Postharvest innovations in agriculture, livestock, poultry and fishery sector
- 4.8. Alternatives of chemical ripening in fruits and vegetables
- 4.9. Management of post-harvest losses in fruit and vegetables supply chains
- 4.10. Value addition, cold storage and logistics in post-harvest management
- Value addition, packaging and transportation of livestock, poultry, fishery, fruits, vegetables etc.
- 4.12. Any other problem relevant to the theme

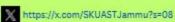
How to register

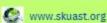
Interested participants (team) may register for the event by filling an on-line form through the URL: https://skuast.org/AgriThon/

OR

Scanning QR code







Event framework



The event will take place at two levels. The first level includes submission of concept note and its screening. The second level will include presentation of screened ideas before the judgement committee for final evaluation.

Level I

- Teams will submit concept note on their problem statement under appropriate thematic area.
- The concept note must not exceed 500 words.
- It should be precise, unambiguous and must have title, justification, methodology, potential impact, technological & economic feasibility and conclusion.
- After screening by the experts of different domains, selected participating team will be notified / informed well in advance to present their solution before the evaluation committee in the second stage.
- At level I, the entries will be evaluated based on the uniqueness of the concept/idea, problem redressal, attractiveness of solution, value proposition & plan to scale-up of technology etc.

Level II

- About 15 minutes time will be allocated for the technical presentation (maximum duration of 10 minutes followed by 05 minutes discussion) physically through the pre-defined PPT template (available at https://skuast.org/AgriThon/).
- Team may use any other mode for describing their idea, followed by discussion, besides presentation before the judging committee.
- At level II, the screened ideas will be evaluated based on the uniqueness of the novelty, value proposition, market strategy, team composition & involvement, risk factors/ challenges & strategy to overcome.

Cash Awards



Winners from each theme (04) will be felicitated with cash prize and citations

Position	Cash Prize under each theme (₹)
First	1,00,000/-
Second	50,000/-
Third	25,000/-
Consolation	10,000/-

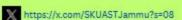


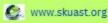
*All screened applicants will get a certificate of participation if they appear for final presentation

Terms & conditions

- · There is no registration fee for participating in the event.
- Selected group /teams for Level II will be invited for presentation at SKUAST Jammu, Chatha campus for which travelling expense will be borne by the group/team.
- Physical presence of team leader along with at least two members at second level is compulsory for presentation.
- Participants has the sole responsibility of not using any content protected under third party rights.
- · The final results of second level will be communicated to group/team leader through e-mail.
- Decision made by the judges will be final and no request shall be entertained to review the judgement.
- Entries submitted only in the prescribed format will be entertained.







Core Committee



Prof. B.N. Tripathi Hon'ble Vice Chancellor, SKUAST-Jammu (Chairman)



Dr. Amrish Vaid Director Extension (Co-Chairman)



Dr. Manish Sharma (Member & e-Platform Organizer)



Dr. Hema Tripathi Associate Director Extension (Organizing Secretary-I)



Dr. Vikas Sharma Prof. & Head, Soil Sc. (PI, IDP-NAHEP) (Organizing Secretary-II)

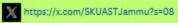


Dr. Punit Choudhary Chief Scientist & Head, KVK Jammu Chief Scientist (Agril. Economics) (Co-organizing Secretary-I)

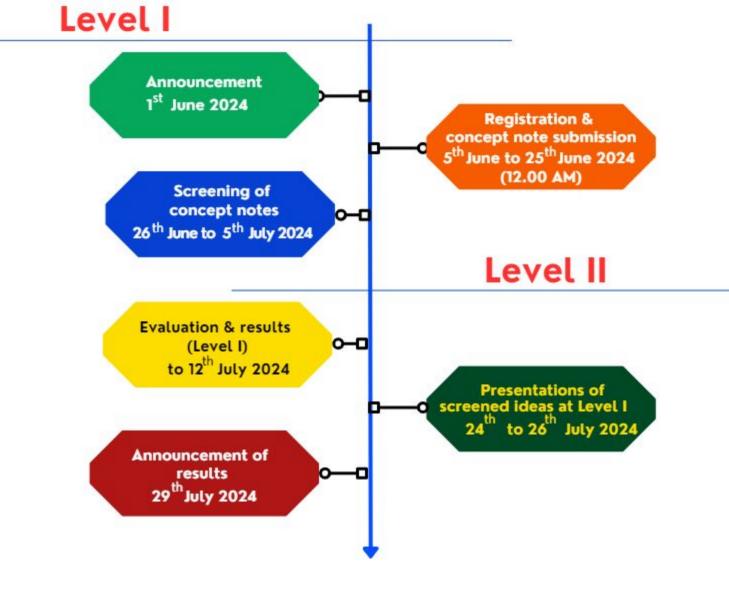


Dr. Pawan K Sharma (Co-organizing Secretary-II)





Timeline



Registration

https://skuast.org/AgriThon/

