Applications of Geospatial Technology & Data Analytics in Crop Insurance

7th to 11th March 2022
Better management of agricultural risks is one of the important strategies being implemented to address the current challenges of food security, farm income security, and climate resiliency in Indian agriculture. A robust crop insurance system is the need of the hour to reduce the impact of covariate risks and promote innovations and investments in the farming sector. The revised operational guidelines of PMFBY in 2020 envisage the use of emerging technologies like remote sensing, smartphones, to improve crop insurance in terms of effectiveness, efficiency, and sustainability. During the last five years, several technology interventions have been developed in the crop insurance value chain and some of these interventions have now become operational.

Towards enhancing technology utilization in crop insurance, National Insurance Academy in collaboration with NRSC is organizing a training program on applications of data-centric technologies such as remote sensing, drones, smartphones, AI & ML, etc in Crop Insurance. The objective of the program is to appraise the participants about the opportunities for technology utilization in crop insurance, current developments, and innovative applications of crop risk assessment to strengthen the crop insurance system in the country.
The proposed training program intends to cover the following topics.

- Crop insurance in India – current status, challenges, and future perspectives
- Overview of technology interventions in crop insurance
- Data sources, data procurement, and preliminary analysis of data for crop insurance solutions
- Satellite-based crop mapping and crop health monitoring for crop insurance
- Role of Smartphones in underwriting, crop health monitoring, and claim settlement.
- Use cases of Satellite-based assessments-prevented/failed sowing, Insurance coverage, loss assessment, and Impact assessment of weather extremes.
- Alternate Crop Risk Assessment Mechanisms and Crop Risk Assessments due to floods, cyclones, and hailstorms
- Applications of Satellite and Remote sensing technology in Underwriting, Crop Health Monitoring, and Claims settlement – Use cases from the Insurers.
- Applications of AI & ML, NLP and Deep Learning in Crop Insurance – Industry experience
- Applications of Drone in Crop Insurance – Underwriting, Crop Health Monitoring, Loss Assessment in localized calamities and mid-season adversities, etc.
- Technological Interventions in Crop Reinsurance, including Parametric Insurance.

Who can attend?
This programme is suitable for Underwriters & Claims Managers from General Insurance Companies, Agriculture Insurance Company of India, Government Officials, Technicians working in Agritech/InsurTech Companies, Brokers & other intermediaries associated with Crop Insurance Business.

Nominations
Nominations should reach NIA on or before 2nd March, 2022.

Venue
National Insurance Academy Campus, 25, Balewadi, Baner Road, Pune 411045

Programme Co-ordinator
Dr. Steward Doss
Faculty Member
Email : gdoss@niapune.org.in
(M) +91-9765203257
Course Fee

Residential  ₹42,000/- + 18% GST (covers tuition fee, course material, accommodation and all meals)
Non- residential  ₹25,200/- + 18% GST (covers tuition fee, course material, tea and lunch)

Fee can be paid through RTGS/NEFT as per the details given below:

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For Registration Contact

Ms. Ujwala Bagwan | Email: uebagwan@niapune.org.in | Tel: 020-27204053
Ms. Prachi Patil | Email: prachi@niapune.org.in | Tel: 020-27204095

VENUE & ADDRESS FOR COMMUNICATION

NATIONAL INSURANCE ACADEMY
25, Balewadi, Baner Road, NIA PO, Pune - 411 045 (India)
Tel. : +91-20-27204000, 27204444
Fax : +91-20-27204555, 29515710
Email : contactus@niapune.org.in
Website : www.niapune.org.in