Training Course on Digital Agricultural Extension and Remote Advisory Services

Professional Development Training Course Outline

Category	Agriculture	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The rapid advancement of digital technologies has revolutionized agricultural extension systems, creating new opportunities for remote advisory services that support smallholder farmers, agri-entrepreneurs, and stakeholders across the agricultural value chain. Training Course on Digital Agricultural Extension and Remote Advisory Services is designed to empower participants with actionable knowledge and digital competencies for delivering real-time, data-driven, and inclusive advisory services. Leveraging emerging tools such as mobile apps, SMS platforms, drones, geospatial technology, and AI-driven insights, this course aligns with global trends in e-agriculture, smart farming, and ICT4Ag.

Through this specialized training, participants will learn how to design, implement, and evaluate digital agricultural extension services that are farmer-centric, inclusive, and scalable. The course focuses on practical tools, case studies, and innovative communication strategies to transform rural extension delivery. Key themes include digital literacy, remote sensing, agro-advisory app development, climate-smart advisory systems, and gender-responsive digital platforms, ensuring trainees are fully equipped for the evolving landscape of agricultural innovation.

Programme Curriculum

Training Course on Digital Agricultural Extension and Remote Advisory Services

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Course Objectives

1. Understand the fundamentals of digital agricultural extension systems.
2. Explore the role of ICTs in transforming rural advisory services.
3. Learn how to design farmer-centric digital content and communication tools.
4. Gain skills in GIS and remote sensing for agri-advisory purposes.
5. Evaluate the impact of mobile applications and SMS platforms in agriculture.
6. Understand the use of big data analytics and AI in decision-making support.
7. Develop gender-sensitive and inclusive digital advisory systems.
8. Strengthen digital literacy for field-level extension agents.
9. Analyze the role of drone technology and remote monitoring in extension.
10. Learn to integrate climate-smart advisory tools into extension systems.
11. Understand data privacy, cybersecurity, and ethics in digital extension.
12. Explore public-private partnerships for scalable digital extension services.
13. Conduct monitoring and evaluation (M&E) of digital advisory interventions.

Target Audience

1. Government agricultural extension officers
2. NGO program implementers in agriculture
3. Digital innovation officers in agribusiness
4. Rural development consultants
5. AgriTech developers and startups
6. Researchers in agricultural communication
7. Development partners and donors
8. Agricultural education and training institutions

Course Duration: 5 days

Course Modules

Module 1: Introduction to Digital Agricultural Extension

- Overview of traditional vs. digital extension
- Benefits and barriers of digital transition
- Key players and platforms in digital extension
- Examples from developing and developed countries
- Emerging trends in ICT4Ag
- **Case Study**: e-Extension program in the Philippines

Module 2: Mobile and SMS-based Advisory Systems

- Design of farmer-targeted mobile platforms
- Creating localized SMS content
- Monitoring user engagement and feedback
- Mobile-based market and weather advisories
- Success indicators for SMS campaigns
- **Case Study**: mKisan SMS portal in India

Module 3: Remote Sensing and GIS for Extension

- Basics of GIS and remote sensing for agriculture
- Satellite data interpretation for crop management
- Geo-tagging for field-level interventions
- Digital mapping of extension coverage
- Integrating GIS with mobile applications
- **Case Study**: GeoAgro GIS tools in Latin America

Module 4: Digital Tools for Climate-Smart Advisory

- Understanding climate-smart agriculture (CSA)
- Real-time weather-based advisory systems
- Pest/disease forecasting using digital tools
- Mobile tools for climate-risk mitigation
- Customizing advisories for smallholder resilience
- **Case Study**: Climate Information Services in Senegal

Module 5: Gender and Inclusivity in Digital Advisory

- Gender digital divide in rural settings
- Inclusive content design principles
- Women-friendly platforms and apps
- Bridging literacy barriers with voice tech
- Strategies to ensure equity in access and usage
- **Case Study**: Digital Green's gender-inclusive platforms

Module 6: AI, Big Data & Predictive Analytics

- AI-powered agri-advisory innovations
- Big data in extension planning and delivery
- Predictive modeling for farm recommendations
- Ethics and data privacy concerns
- Role of chatbots and decision-support tools
- **Case Study**: IBM’s Watson Decision Platform for Agriculture

Module 7: Building Capacity of Extension Workers

- Digital literacy training modules
- Role of blended learning in extension
- Interactive and participatory e-learning tools
- Change management and digital mindsets
- Performance tracking through digital M&E
- **Case Study**: Digital Extension Academy in Kenya

Module 8: Public-Private Partnerships and Scale-Up

- Framework for PPPs in digital extension
- Financing models for sustainability
- Scaling through innovation hubs and incubators
- Collaborations with telecoms and agri-input firms
- Policy support and enabling environments
- **Case Study**: AgriFin Accelerate program in Sub-Saharan Africa

Training Methodology

- Interactive lectures and expert presentations

- Hands-on sessions with mobile apps and GIS tools
- Case study analysis and group discussions
- Real-time problem-solving simulations
- Action planning and course-end presentations
- Access to e-learning materials and resource hub

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com