
SYLLABUS FOR BOARD OF STUDIES ADOPTION — generated from the live catalogue record

AI in Crop Advisory and Farm Decision Systems

X-G3 · 3 days (configurable 1–5 days) · Agricultural Sciences · AI · Years: 2nd, 3rd, PG

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OVERVIEW

Students build an AI-backed crop advisory that turns farm data into recommendations.

AI-driven advisory is reaching millions of farmers; graduates who can build crop-advisory decision systems sit at the intersection of agriculture and the fastest-growing tech skill.

HOURS AND CREDIT POSITION

Contact hours: 24 Guided project: 6 Self-study: 0 Notional total: 30

Credit claim: 1

30 notional hours ÷ 30 hours per credit (NSQF track, UGC Micro-credentials Guidelines §5.3.3) = 1 credits.

COURSE OUTCOMES

CO1. Describe AI use cases in crop advisory (K2)

CO2. Identify the farm data sources an advisory needs (K3)

CO3. Build advisory decision logic from farm data (K3)

CO4. Evaluate an advisory recommendation against agronomy (K4)

CO5. Produce a working crop-advisory prototype (K5)

COURSE CONTENT — MODULES

Hours shown are the recommended format; module time scales proportionally when the engagement runs 1–5 days.

Module 1 — AI in agriculture (4h recommended)

Theory: Use cases, data sources

Lab: Map AI use cases in agriculture

Output: Use-case map

Module 2 — Farm data (4h recommended)

Theory: Weather, soil, crop and satellite data

Lab: Assemble farm data sources

Output: Data inventory

Module 3 — Advisory models (4h recommended)

Theory: Rules, prediction basics

Lab: Design advisory logic

Output: Advisory logic

Module 4 — Building an advisory (4h recommended)

Theory: Decision logic, thresholds

Lab: Build advisory decision logic

Output: Advisory engine

Module 5 — Delivery (4h recommended)

Theory: Advisory interfaces, farmer access

Lab: Design a farmer-facing interface

Output: Interface mockup

Module 6 — Capstone (4h recommended)

Theory: A working crop-advisory prototype

Lab: Ship an advisory prototype

Output: Advisory prototype

ASSESSMENT SCHEME (100 MARKS)

Continuous exercises — 40 marks

Analytical report — 40 marks

Viva voce — 20 marks

CO-PO MAPPING

CO1 !' PO1 (strength 2)

AI use cases are foundational domain knowledge.

CO2 !' PO3 (strength 2)

Identifying data sources is solution design.

CO3 !' PO3 (strength 2)

Advisory logic is solution development.

CO4 !' PO4 (strength 2)

Evaluating against agronomy is investigation.

CO5 !' PO3 (strength 2)

The prototype is a developed solution.

EVERY PARTICIPANT RECEIVES

- Certificate of completion
- Course material
- LMS access
- Interview question bank
- Mock interview & viva practice

FEE

12,000 per student, incl. GST

Excludes the optional nasscom assessment where offered. Final pricing on your college's quotation.

DESIGNED BY

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