JOINTLY OFFERING THE PG PROGRAM ON
M.Sc. IN AGRICULTURE ANALYTICS

PROGRAM OVERVIEW

Agriculture Analytics is a two year Post Graduate Program, which is jointly organised by DA-IICT, Gandhinagar *(https://www.daiict.ac.in/)*, Anand Agriculture University, Anand *(http://www.aau.in/anand-agricultural-university-anand)* and Indian Institute of Remote Sensing, ISRO Dehradun *(https://www.iirs.gov.in/)*, premier universities / Institutes in ICT, Agriculture and Space Technology domain, respectively. The program is aimed at nurturing students, with insights and the know-how to take the sector into the future. The course will introduce students to concepts of data analytics, viz. descriptive, predictive and prescriptive, in agriculture and will empower the students to eliminate speculative farming and usher in the age of predictive agriculture. This is a **multidisciplinary** program of agriculture and data analytics.

PROGRAM CURRICULUM

Semester I

(Fundamental and Remedial Courses)
- Python Programming and Databse with SQL
- Analytics / Statistical methods
- Earth Observations (EO) Systems
- Preparatory Mathematics
- Technical Writing

Remedial Courses
- Basics of Agricultural Science (for mathematics background students)

Value Added Course
- Spatial Analysis with ArcGIS® Pro by ESRI India of 30 hrs

Summer Semester

Value Added Courses (Proposed)

ESRI Inia	Spatial Analysis with ArcGIS® Pro	3 days (18 hrs)
Amnex	AI in Agri Technology Business	5 days (30 hrs)
Dr Vivek, IRMA	Econometric Methods for Causal Inference / Program Evaluation	30 hrs
SATSURE	Crop Yield Modeling	5 days (30 hrs)
Analytics Vidhya	Visualisation and Storytelling Tools	2 days (10 hrs)
SAC, ISRO	Microwave Data Processing	2 days (12 hrs)
Invited lectures by academia and industries experts		8 -10 of one hour each

Semester II

(Technology Courses & Satellite Data Processing)
- Big data analytics
- Machine learning
- Programming for Geodata Processing
- Spatial Modeling and Data Assimilation

Semester III

(Domain Courses)
- Crops & Soil Analytics
- Weather and Water Analytics
- Agriculture Market Analytics
- Risk Analysis and Modeling

Semester IV (Project / Internship)

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For registration visit https://www.daiict.ac.in/admissions#tab-2