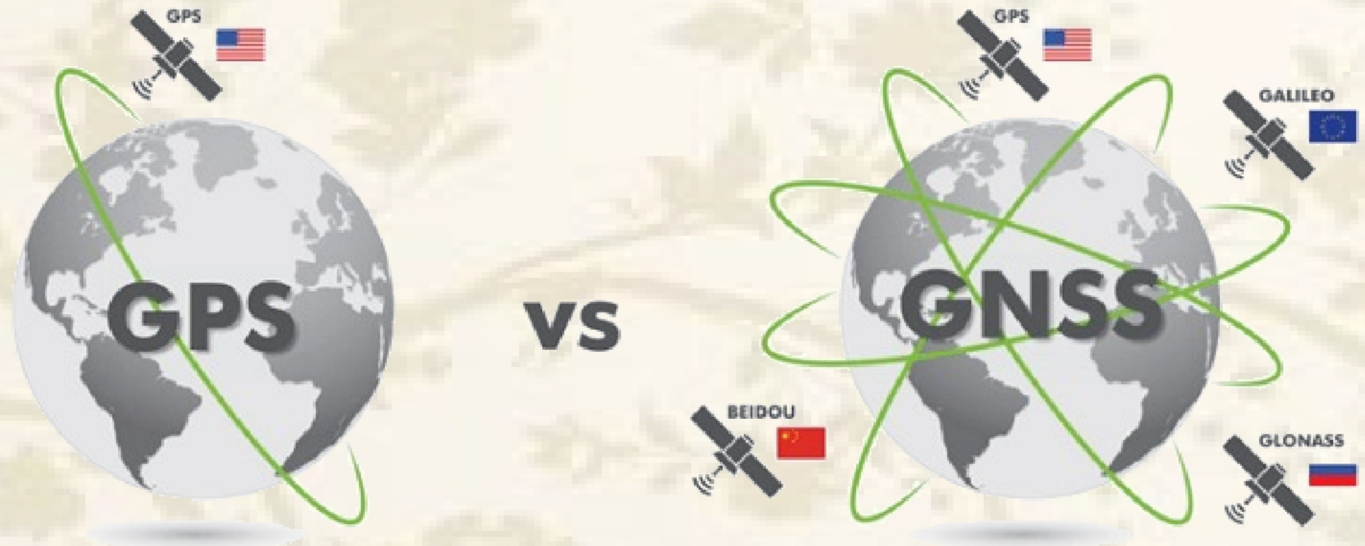

Three Days Training Workshop on

GPS AND GNSS HANDS-ON TRAINING WORKSHOP FOR SURVEYING & MAPPING

4 - 6 October, 2021

Jointly Organized By

Pir Mehr Ali Shah
ARID AGRICULTURE UNIVERSITY
Rawalpindi

Data-Driven Smart Decision Platform (DDSDP)

Institute of Geo-Information and Earth Observation (IGEO)

Sindh Agriculture University, Tandojam, Sindh

GNSS RTK

Real-Time Kinematic (RTK) is a technique used to enhance the precision of position data derived from satellite-based positioning systems (global navigation satellite systems, GNSS) such as GPS, GLONASS, Galileo, NavIC and BeiDou. It uses measurements of the phase of the signal's carrier wave inaddition to the information content of the signal and relies on a single reference station or interpolated virtual station to provide real-time corrections, providing up to centimeter-level accuracy.

BENEFITS

Upon completion of this course, participants will be able to understand about how a GPS & GNSS receiver works, as well as its applications in precision including survey methods for obtaining higher accuracies.

Patron-in-Chief

Prof. Dr. Qamar-uz-Zaman
Vice Chancellor, PMAS-Arid Agriculture University

Project Director

Dr. M. Naveed Tahir
Project Director DDSDP

Resource Persons

Engr. Dr. M. Jehanzeb Masud Cheema
Incharge/Dean Faculty of AE&T

Dr. Muhammad Amin
PI-Precision Agriculture (DDSDP)

Dr. Shoaib Saleem
Project Coordinator (DDSDP)

Workshop Schedule

Day - 1 (4 October, 2021)

09:00am	Registration Desk
10:00am	Inauguration Session
11:00am	Tea Break
11:30am	Introduction of Speakers & Workshop Importance
12:00pm	Introduction to GPS/DGPS Technology & its Applications
12:30pm	GPS/DGPS Application in Precision Agriculture
01:00pm	Lunch & Prayer Break
02:00pm	Video Documentary on GNSS Technology
02:30pm	GPS/DGPS Technology Advancement & its Application
03:00pm	Group Formulation
03:15pm	GNSS Demonstration
05:00pm	End of Day - 1

Day - 2 (5 October, 2021)

09:00am	Hands on Exercise in Field/ Data Collection
10:00am	Lab Work/ Data Plotting and Processing, Working Tea/ Refreshment
01:00pm	Lunch

Day - 3 (6 October, 2021)

08:00am	Lab & Field Visits
11:00am	Closing Ceremony

Data-Driven Smart Decision Platform (DDSDP)

The "Pilot Project for Data-Driven Smart Decision Platform (DDSDP) for Increased Agriculture Productivity" is framed to introduce smart technologies at selected farms. This project plans to implement smart technologies in two private and/ or state farms in different agro-ecological zones, one near Chakwal (Potohar, Northern Punjab) and other in Multan (Southern Punjab. Researchers and field experts are organizing this workshop to train the participants (Academia, Students, and Field Scientists/ Engineers) on the application of GPS and GIS in agriculture. At the end of this training, participants will be able to collect field data from the different types of GPS and they will also be able to plot the collected data in GIS and create maps.