

**DIRECTORATE OF ADVANCED STUDIES
SINDH AGRICULTURE UNIVERSITY TANDOJAM
PAKISTAN**



ONE YEAR POSTGRADUATE DIPLOMA (PGD)
IN
GEOGRAPHIC INFORMATION SYSTEM (GIS)
& REMOTE SENSING (RS)
at
FACULTY OF AGRICULTURAL ENGINEERING AND
TECHNOLOGY
(Evening Program)

Admission Policy

2025-26

1. The Postgraduate Diploma Program:

The task of management of Land and Water Resources is becoming increasingly important because of the increasing world population and economic growth. To keep pace with demand, planners and resource managers now make considerable use of complex and powerful computerized Geographical Information Systems (GIS) and Remote Sensing. GIS users such as land and urban planners, resource managers, and application scientists depend on the availability of up-to-date, well-structured data. Aerial photographs, satellite images, Global Positioning System, and other attribute data are often used as a source, along with modern techniques. Technical means are necessary to extract data from these sources and to georeferenced the data accurately. Furthermore, Remote Sensing and GIS is an advanced group of knowledge for the study of Agriculture, Soil, Land, crops and Forest, mapping, weather science, disaster management, natural resources, etc. Therefore, to achieve this, it is essential to initiate a one-year PG Program of GIS and Remote Sensing at the post-graduate level.

2. Aim

The PG Diploma program aims to provide in-depth understanding of remote sensing, satellite image analysis, Geographic Information System (GIS) and Global Navigation Satellite System (GNSS) technologies and their applications in various fields viz., agriculture, wetlands, soils, forestry & ecology, geosciences, water resources, marine and atmospheric sciences, urban and regional studies, large-scale mapping, disaster management studies, etc.

3. Objectives

The objectives of the diploma program are:

- ❖ To impart theoretical knowledge and practical training to the students for the production, interpretation, analysis, and display of spatial data and maps
- ❖ To train and produce human resources having GIS and Remote Sensing tools and skills.
- ❖ To develop the capacity of the students to interact and resolve the issues which could be solved using GIS and Remote Sensing tools

4. The outcome of the Program:

The Program is intended to train graduate students to use the GIS and Remote Sensing tools to resolve the related issues. After having diploma, the students will be able:

- ❖ To produce human resources with expertise in GIS and Remote Sensing tools
- ❖ To be familiar with advanced GIS concepts and geographical analysis tools.
- ❖ To apply a variety of geographical analysis tools to spatial problems.
- ❖ To know how to analyze the spatial aspects of both quantitative and qualitative data.
- ❖ To implement a particular geographical analysis for a spatial, social science research problem.
- ❖ To Learn different technologies for collecting, acquiring, and verifying spatial data
- ❖ To generate, integrate, analyze, and visualize the spatial data
- ❖ To apply practical skills by working on international standard projects
- ❖ To carry out an independent final project and presentation

6. Eligibility and Selection Criteria

- The minimum requirement to get admission in the postgraduate diploma is Sixteen years of graduation in any disciplines from HEC recognized institutions or foreign degree equivalent.
- The admission merit of candidates shall be determined on the basis of the overall total percentage obtained in the bachelor's degree (16 years of education) from an HEC-recognized university, and candidates obtaining higher percentage shall be placed higher on the merit list and preferred first.
- Admission offer letters shall be issued to the top fifty (50) candidates strictly on merit. In case any candidate fails or refuses to deposit the prescribed admission fee within the stipulated time, the vacant seat(s) shall be offered to the next eligible candidate(s) from the waiting list, in order of merit, until all seats are filled.
- For this program, 30% seats shall be reserved for candidates from engineering disciplines, while 70% seats shall be allocated to candidates from non-engineering disciplines.

6.1. Admission Requirements

- The selection for the program will be based purely on marks in undergraduate program.

6.2. Duration

One year program spread over 2 regular semesters (Table 1).

Table 1. Time frame of Postgraduate Diploma (PG) Program

Semester	Courses	Credit hours
Semester- I	▪ Compulsory and Optional courses	15
Semester- II	▪ Compulsory and Optional courses	12
Research project	▪ Application of GIS & RS in related field	3
Total		30

7. Project & Seminar

✓ Project Report:

The student will be assigned a project in the fields related to physical, human, regional planning, environmental geography, agriculture, forestry, water, and various other related fields where they will use the spatial data and skills and tools to resolve the issues

✓ **Seminar:**

Upon completion of the project, every student will deliver the seminar. The student's project will be evaluated by a committee framed by the dean of the faculty.

8. Registration Of Students

Registration fee will be charged by the University as per schedule notified by FAET, SAU Tandojam.

9. Rules And Regulations for Examination

- The duration of the course shall be **one year** divided into **two academic semesters**.
- In case a candidate provides incorrect information and/or false certificates/documents detected before or at any stage after admission, his/her admission shall be cancelled.
- Each semester will include course work and assessments conducted by the University.
- Examinations will be held as per the schedule notified by the University.
- Results will be compiled and submitted to the Controller of Examinations, SAU Tandojam, for announcement and record.
- Mark sheets and certificates will be issued by the Controller of Examinations, SAU Tandojam.

10. Conditions Of Attendance

- Students having attendance less than **75%** will not be eligible to appear in the examination.
- In case of medical or official leave, prior approval from the competent authority is required.

11. Code Of Conduct

- All students shall abide by the rules and regulations of Sindh Agriculture University, Tandojam, and maintain discipline throughout the course duration.

Fees Structure

TABLE-I

BREAKUP OF VARIOUS FEES (RUPEES)

Particular	At the time of 1st Admission	Subsequent Semester
Admission Fee (once)	1,000	—
Registration Fee (per semester)	2,000	2,000
Tuition Fee (per semester)	20,000	20,000
Examination Fee (per semester)	1,000	1,000
Identity Card Fee (per semester)	200	200
Enrolment Card Fee (once)	200	—
Miscellaneous/Stationery Charges	600	1800
Total (Rs.)	25,000	25,000

TABLE-II

OTHER FEES (Rs.)

Particulars	Fee (Rs.)
Marks Certificate (Ordinary)	700
Marks Certificate (Urgent)	1000
Pass Certificate (Ordinary)	500
Pass Certificate (Urgent)	750
Diploma Certificate	5000
Diploma Certificate (Duplicate)	6000
Transcript Certificate (Ordinary)	600
Transcript Certificate (Urgent)	800