

**INSTITUTE OF ADVANCED STUDIES IN EDUCATION  
(DEEMED TO BE UNIVERSITY)**

Of

GANDHI VIDYA MANDIR, SARDARSHAHR  
(CHURU) RAJASTHAN – 331403

Phone – 01564 – 220025, 223642, 223054

Web: [www.iaseuniversity.org.in](http://www.iaseuniversity.org.in)



**SYLLABUS**

**SCHEME OF EXAMINATION AND COURSE OF STUDY  
FACULTY OF HUMANITIES AND SOCIAL SCIENCES**

**Certificate in Drone Surveying (1Month)  
Certification in Drone Surveying Examination 2021**



## **Scheme of Examination of Geographical Information System Examination**

Paper No.	Nomenclature of the Paper	Paper Code	INTERNAL SESSIONAL	THEORY (WRITTEN EXAM)	Max. Marks
Unit I	Drone Assembling	DRONE -101	20	80	100
Unit II	Flight Planning and Flying Techniques	DRONE -102	20	80	100
Unit III	Data Processing and Drone Applications	DRONE -103	20	80	100
Unit IV	Live Project Training	DRONE -104	20	80	100
Total Marks			80	320	400

## **Certification in Drone Surveying(1M DRONE)**

To gain a basic practical understanding of Geoinformatics concept and technologies on applications of Real world. Our practical assignments and mapping projects are designed by industry experts to get the industry orientated exposure for developing the ability to perform basic analysis on geospatial data.

### **Course Objectives:**

To give the Exposure through Practical Learning in Drone Technology. After completion of this course candidate will be hands on Drone surveying as per industry requirements.

	Contents/Syllabus	Duration	Unit
S. No.	<b>Drone Assembling</b>		
1	Introduction and Objectives	Week 1	Unit I
2	Scope of Drone Technology		
3	Principal Drone working concept		
4	Type of Drones		
5	Drone cameras		
6	Drone Assembling		
7	Part of Drone and specification		
	<b>Flight Planning and Flying Techniques</b>		
1	Flight Planning for GIS/Photogrammetry	Week 2	Unit II
2	Flying Applications		
3	Flying an Data Collection techniques		
4	Data Analyzing		
	<b>Data Processing and Drone Applications</b>		
1	Data Processing	Week 3	Unit III
2	Steps of Data Consideration		
3	Drone to GIS		
4	Drone Application		
5	Making 3D model from Drone Photo		
6	DTM and DSM Generation		
1	Live Project Training	Week 4	Unit IV

**References:**

1. CP LO &Yeung A.K, (2004), Concepts and Techniques of GISs Prentice-Hall of Indian, New Delhi.
2. Heywood I, Cornelius S, Carver S. (2000), Introduction to GIS. Addison Wesley Longman, New York.
3. Burrough P.A, and Rachael A. McDonnell (2010) Principles of Geographical Information Systems,
4. Pazal S. &Rahman A. (2007), GIS Terminology, New Age International Publishers, New Delhi.
5. Leick A. (1995) GPS Satellite Surveying, 2nd Edition, John Wiley and SonsLeicka. A.: GPS Satellite Surveying,



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