

Xavier Institute of Social Service

Web: www.xiss.ac.in/GI

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Information Brochure

Short Training in Geoinformatics (GIS and Remote Sensing)

Geoinformatics encompasses multiple disciplines viz. GIS, remote sensing, geodesy, GPS and cartography. It has tremendous utility and applications in decisions involving locational data, or data with spatial dimensions. It deals with both spatial and non-spatial data. It covers all aspects of spatial and non-spatial data management like acquisition, storage, manipulation, analysis, display and modelling etc. Applications of geoinformatics are mainly oriented to real world management problems pertaining to natural as well as man-made environments.

The short training in Geo-informatics aims to provide conceptual knowledge as well as hands on training on GIS, remote sensing and related fields including GPS. The training module contents have been developed keeping in view the emerging trends in the field of Geo-informatics and to meet the increasing needs of skilled manpower.

Training Programme Highlights:

- Well-equipped air conditioned computer labs with internet facility, each trainee works **exclusively on his/her computer**.
- All popular, powerful and user friendly softwares including Arc-GIS, ERDAS imagine, Geomedia, ENVI, I-GIS and open source softwares like Q-GIS
- 21-weeks long with 252 hours' theory/lab/project.
- 3 hours per day theory + lab sessions on 4 days a week.
- Continuous lab and internal assessments during the training programme.
- Free textbooks/course materials provided for various modules.
- Expert faculties from academics and ICT industry with widespread subject and practical knowledge.
- Updated training content with the latest trends in the ICT industry.
- Tutorials, hands-on and projects relevant to the Govt. depts./ ICT industry.
- Addendum on quantitative aptitude, general English, effective communication, and interview skills.

Eligibility Criteria: Who can Apply?

Limited Seats: 30

Qualification

1. Graduate/Post Graduate in Applied Sciences/ Geography/ Geology/ Physics/Computational Sciences/ Mathematics or allied areas, OR
2. Graduate in Engineering or equivalent Computer Science/ IT or related areas, OR
3. Students pursuing their Graduation after completing their first year as well as continuing Post-Graduate students may also apply, OR
4. State government employees working in the field of water resource management, forestry, land resource management, mining, disaster management. Others professionals working in the private sector may also apply.

Application Form Cost:

Application form can be obtained from XISS office counter by paying Rs. 100/-
OR

The form can be downloaded from www.xiss.ac.in/GI/ . In such cases, the applicant has to attach a Demand Draft of Rs. 100/- drawn in favour of **Xavier Institute of Social Service** payable at **Ranchi** while submitting the application form.

Training Cost:

The cost for the training is **Rs. 35,000/- (Rupees Thirty Five Thousand only)** which can be paid in two instalments of Rs. 20,000/- and Rs. 15,000/-.

Training Modules

The training is module based and has both theoretical background and hands on practice. The modules are as follows:

Module I: Incorporating the 'where' of decision making: **GIS**

Module II: How to get things done, when not being present there: **Remote Sensing**

Module III: What to do with Remote Sensing Imagery: **Digital Image Processing**

Module IV: Analysing 'Space' for Decision Making: **Spatial Analysis**

Module V: Where am I ? : **The story and working of GPS**

Module VI: Where and how are we in utilising GI: **Trends in GIS and RS Applications**

Module VII: Let's talk and explain: **Seminars and Presentations**

Module VIII: Think of a problem and solve it: **Working through a GI Project**

Addendum: Making sense of Numbers; Quantitative Aptitude/ Statistics; Smarter Communications, English Remedial.

Training Module Content

For detailed training module content visit our website: www.xiss.ac.in/GI

Medium of Instruction

The medium of instruction will mostly be English.

[About XISS](#)

Contact Us

Training Coordinator

GIS and Remote Sensing

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