



**IEEE Certified Course**



**IEEE Geoscience and Remote Sensing Society**

**Programming Approaches in Remote Sensing (PARSE)**



**Course Objective**

This course is intended to impart required programming skills for designing and building advanced GIS& remote sensing solutions. The course will cover the fundamental and advanced topics of computer programming using Python with a focus on its usage in remote sensing applications.

**Beginner Module (one month)**

- Programming Models
- Data Structure
- Functions
- Numpy & Scipy
- Data Visualization

**Intermediate Module (one month)**

- OOP
- Raster & Vector Processing
- Machine Learning Implementations

**Advanced Module (one month)**

- Geopandas
- Spatial database
- Interfacing QGIS & Postgresql

**Course Fee (incl. GST)**

IEEE member: **Rs. 1000/** module or **Rs. 2400** for full course  
 IEEE GRSS member: **Rs. 600/** module or **Rs. 1200** for full course  
 Without IEEE membership: **Rs. 1300/** module or **Rs. 3000** for full course

**Who can sign up?** Geospatial / Computational sciences students (undergrad/masters/doctoral) and early career professionals

**Mode of instruction:** online real-time lecturing, demonstrations, and assignments. Participants can join at any module level, but should register before the commencement of the course.

**Evaluation:** In-class Qs., assignments and online tests

**E-Certificate from IEEE upon successful completion**

**Last Date for Reg.:** 25 Sept. 2020      **Course Start/end :** 1 Oct. / 30 Dec. 2020

**Register at:** <https://forms.gle/6P4Zy2cegFLzoyLFA>

**Sponsored by : IEEE GRSS Kerala & Bangalore Chapters**

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*Weekly online lectures / Lab demos / Guided assignments*