

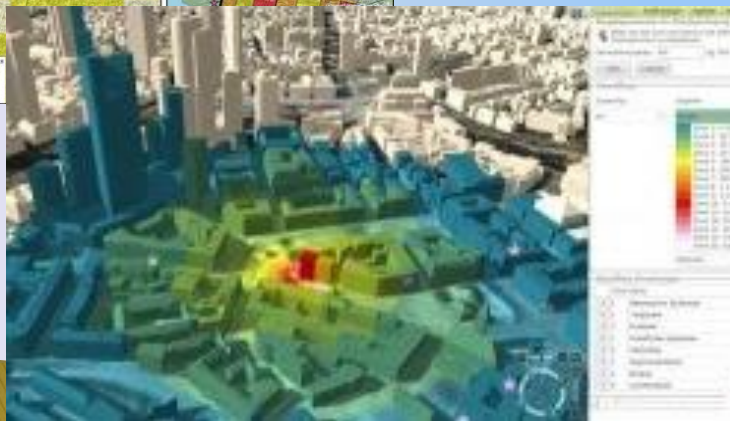
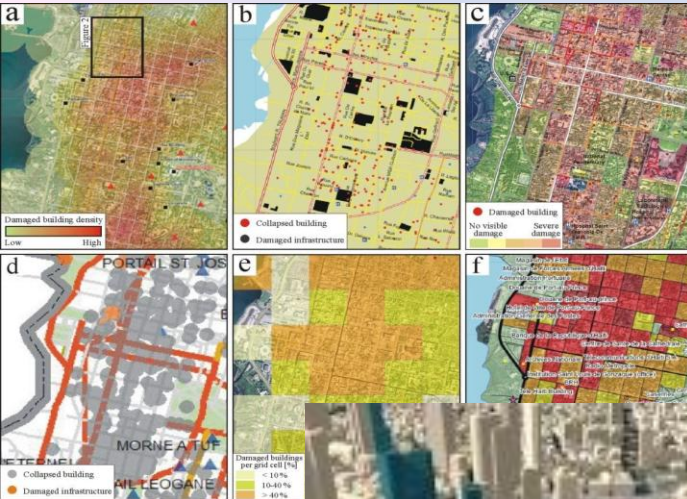


# 5 Days National Level Online Training Programme

on

# Arc GIS

5<sup>th</sup> to 9<sup>th</sup> May, 2021



**Organized by**

**International Institute of Geospatial Science & Technology (IIGST)**

**In association with**

**DPM's Shree Mallikarjun & Shri Chetan Manju Desai College, Canacona-Goa**

## **COURSE INTRODUCTION:**

This course introduces the hardware and software components of Geographic Information Systems and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems.

## **LEARNING OUTCOMES:**

Upon completion of this course, the student will be able to:

- a. Define GIS
- b. Use GIS to identify, explore, understand, and solve spatial problems
- c. Demonstrate GIS modeling skills
- d. Demonstrate critical thinking skills in solving geospatial problems.
- e. Design and implement a GIS project
- f. Demonstrate competency with the ArcMap software to enhance and interpret data
- g. Use queries in GIS Analysis Formulate applications of GIS technology.

**Workshop Name:** 5 Days National Level Workshop on ArcGIS

**Type of Class:** Theory & Practical

**Registration Fees:** 1200/-

**Mode of Class:** Online

**Seat Capacity:** Unlimited

**Class Sessions and Timing:** 6.00 – 9.00 p.m.

**Total Course Hours:** 15 Hrs.

**Eligibility:** B.A./B.Sc./M.A./M.Sc. /B.Tech. /M.Tech./ B.E. / A.M.I.E./B.C.A. / M.C.A.  
Students/Faculties in any University/College/Research Institution/Officials

**Application Link:** <https://cutt.ly/XkiYhu>



# COURSE CONTENTS

1. Introduction to GIS, Components of GIS, functions and advantages of GIS, Application Areas Spatial data model: Dimensions of GIS data, Conceptual (field/object) and logical (raster/vector/object oriented)
2. Concepts on co-ordinate system: Map, scale, coordinate systems, sphere/spheroid, datums, projection, projection parameters Process of GIS: Data sources, data capture (raster/vector/attribute), Raster and vector data processing
3. Brief introduction on the ArcGIS Online. How to use cloud based platform? How to share your work with anyone? Learn How to Create a Web app?
4. Creation of evacuation map, Hazard risk mapping and tools are used for both the day-to-day management of geographic data and for combining data prior to analysis; Dissolve Boundaries, Overlay Layers, Merge Layers etc.
5. How to use tools to calculate total counts, lengths, areas, and basic descriptive statistics of features and their attributes within areas or near other features.
6. Tools which are used to identify or create features that meet criteria you specify: Find Centroids, Choose Best Facilities, Create Viewshed etc. Also, explore the tools help you identify, quantify, and visualize spatial patterns in your data: Find Outliers, Interpolate Points etc.
7. Tools help you answer one of the most common questions posed in spatial analysis: "What is near what?" "Create Buffers, Find Nearest Location and other many tools.
8. Area/perimeter/length extraction from features, label etc. Import CSV file and other files.
9. Creation of Thematic map, Layout generation acquiring data (capture): Downloading of ASTER, SRTM, Landsat, Modis, Sentinel, Bhuvan, acquiring toposheets from SOI, Secondary data
10. Concept on Remote Sensing, Resolutions; Spectral Signature and its Response: of Soil, Vegetation and Water

## **ABOUT IIGST :**

*International Institute of Geospatial Science and Technology (IIGST), is a constituent unit of South Asian Institute for Advanced Research and Development (SAIARD), has been formed under SAIARD with a motto to spread the arena of geospatial technology and its applications through education, research, training and capacity building, research, advocacy and innovative ideas through publication, various outreach programmes, collaborations and partnerships for sustainable and cognitive development of this region as well as to provide skill-based education to the students and make them employable and strengthening the hands of both public and private sectors by providing all-round supports in Southeast Asia. Since its formation SCAG was continuously engaged with lots of academic and capacity building programmes and now considering the growing importance of geospatial field SAIARD has decided to transform this centre into an autonomous institution with a new updated version i.e. IIGST. As a key player in geospatial field, the academic platforms of IIGST are designed in such a way as that it can meet the requirements of working professionals, academicians, researchers, planners and decision makers.*

## **ABOUT COLLEGE :**

*DPM's Shree Mallikarjun & Shri Chetan Manju Desai College Canacona is located in the South Goa District. College is permanently affiliated to Goa University since 2004 and in 2011, University Grants Commission, New Delhi recognized College under 2 (f) and 12 (B) and accredited by NAAC with 'B' Grade (CGPA 2.81 on 4 point Scale). As per India Today Ranking 2019, College received 115<sup>th</sup> Rank in Humanities and Social Sciences (6<sup>th</sup> among Colleges in Goa) and 144<sup>th</sup> in Accounting & Commerce (7<sup>th</sup> among Colleges in Goa) in India. According to EW Ranking-2019, College is ranked 37<sup>th</sup> all over India and 6<sup>th</sup> among Colleges in Goa. The College has completed 28 years with a sense of fulfillment and with a determination to achieve more in the years to come. College offers Three degree programmes leading to Bachelor of Arts (B.A.), Bachelor of Commerce (B. Com. Hpnours) and Bachelor of Science (Honours B. Sc.) apart from Certificate Courses offered by the College.*

**For any queries**

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