

APPLICATION OF GIS IN URBAN RESILIENCE PLANNING



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THEME

A SIX day Online Professional Development Program (PDP) by School of Planning and

Under Building Resilient Urban Communities (BreUCom)

Applications of GIS

in Urban Resilience Planning

Geographic Information Systems (GIS) is an increasingly sought-after tools in the field of Urban Planning and Management. This Professional Development Program (PDP) gives an overview of the required skills needed to successfully use the GIS software for decision making. The programme provides insights on analyzing spatial data, using cartographic techniques to communicate results in maps, and accordingly collaborate with professionals and decision makers. Furthermore, there is a growing demand for the usage of geo-spatial tools in India due to its applications in urban planning. Currently, the use of GIS is predominately limited to mapping. However, capacity building programs such as this, would help the professionals understand the analytical aspects of GIS through comprehensive webinar series that sheds light on various methods to create a professional GIS portfolio, using a combination of data identification, collection, and analysis techniques. The Participants will be exposed to various case studies in order to gain experience and skills related to geographic information systems from the experts in the field. Each session is designed to demonstrate specific urban/regional problem; currently being faced in India and the applications of GIS in addressing the same. This course shall help the participants in developing skills to use geo-spatial decision support tools like GIS for urban resilience planning. These skills are required to process the complex spatial dataset available to understand the dynamics of urban growth and resilience planning.

Organising Team:

Dr. Adinarayanane, Dr. Ayon Tarafdar, Dr. Faiz Ahmed and Dr. Prashanti Rao

Project Coordinator:

Prof. (Dr.) Minakshi Jain, Director SPA Vijayawada

Contact:

PDP Coordinators: Dr. Prashanti Rao and Dr. Faiz Ahmed
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Registration Open from 19th October, 2020 !!!

For Registration: <https://forms.gle/nRkjRumCnVByedro8>

Participation Fee

Students: 500 INR | Others: 1000 INR

Payment can be made via SBI Collect

KEY TOPICS

01 | Applications of GIS in Urban Planning GIS as a tool in Urban planning, analysis and decision

Date: 3rd November **Time:** 10 - 3pm

Speaker: Dr. Kshama Gupta, IIRS-Deharadun

02 | Geo-spatial data structure, system requirements and tools Data and systems requirements and Open source GIS

Date: 4th November **Time:** 10 - 3pm

Speaker: Dr. Prasun Gupta, IIRS-Dehradun

03 | Geo-spatial applications in environmental planning and urban climate studies GIS application in environmental planning and urban climate studies - Case studies

Date: 5th November **Time:** 10 - 3pm

Speaker: Dr. Raaj Ramashankar, IIT Mumbai

04 | Geo-spatial Applications in Disaster Planning and Management GIS application in disaster planning and management - Case studies

Date: 6th November **Time:** 10 - 3pm

Speaker: Dr. Arijit Roy, IIRS-Deharadun

05 | Current Research in Geo-spatial Applications in Urban Planning, Management and Resilience Recent trends, 3D GIS Mapping, Modeling Tools

Date: 7th November **Time:** 10 - 3pm

Speakers: Dr. Adinarayanane, Dr. Ayon Tarafdar, Dr. Faiz Ahmed & Dr. Prashanti Rao

Summary & Closing Session

06 | Feedback and concluding discussion, Distribution of reading materials, Recorded videos Issuing e-certification of participant

Date: 8th November **Time:** 10 - 12pm

Note: Detailed scheduled shall be mailed to the registered participants