

One Day Workshop
on
“ROLE OF GEOSPATIAL
TECHNOLOGIES IN SMART CITY
INITIATIVES OF GOI”

August 03, 2019

PATRON-IN-CHIEF

DR. DHEERAJ SANGHI

DIRECTOR - PUNJAB ENGINEERING COLLEGE
(DEEMED TO BE UNIVERSITY)

CHANDIGARH

COORDINATOR

ER. HAR AMRIT SINGH SANDHU
ASSISTANT PROFESSOR (CED)

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FACULTY COORDINATOR - KCC GT

ORGANIZED BY

KALPANA CHAWLA CHAIR OF GEOSPATIAL
TECHNOLOGIES



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ABOUT PEC

Punjab Engineering College is a prestigious and renowned institute in spreading technical education worldwide. It is located at Chandigarh and extends over an area of 146 acres of land and is situated in sector 12 at the North end of Chandigarh. The institute has spacious playgrounds, tennis courts, squash courts, swimming pool, Gymnasium and Student Centre. Presently there are 9 Undergraduate and 11 Post graduate courses. The institute also has good facilities for Research and Development leading to award of Ph.D. Degree in Engineering in selected fields of different disciplines. The institute also offers consultancy and testing services in different disciplines. Dr Dheeraj Sanghi (Director PEC) is on lien from IIT Kanpur. He is an alumnus of IIT Kanpur and has research interest in computer networks, TCP/IP, Network security etc. His passion is to improve the quality of technical education in India. Apart from other activities, he is keen to explore the opportunities under Kalpana Chawla Chair of Geospatial Technology at PEC.

ABOUT KALPANA CHAWLA CHAIR OF GEOSPATIAL
TECHNOLOGY

Ministry of Railways has established Kalpana Chawla Chair of Geospatial Technology (KCC GT) at PEC for promoting Research and Development in the areas of Geo-spatial Technology. This chair is established in the memory of Kalpana Chawla, the first Indian Women astronaut, who graduated from this institute in 1982. Although, the main purpose of the KCC GT chair is to propose and execute projects in the area of geospatial technology with a focus on Indian Railways, the KCC GT has also mandate to disseminate awareness and knowledge of Geospatial technologies i.e. Geographical Information System (GIS), Remote Sensing (RS), Digital Image Processing (DIP) to the society. Further, the geospatial technologies along with Data Analytics tools and Big Data techniques have been become backbone of smart city initiatives in recent years. Presently, Mr. Har Amrit Singh Sandhu (Assistant Professor-CED) is the faculty coordinator and responsible for the activities under the KCC GT.

ABOUT ESRI, INDIA

Esri, the global market leader in geographic information system (GIS) software, offers the most powerful mapping and spatial analytics technology available. Since 1969, Esri has helped customers unlock the full potential of data to improve operational and business results. Today, Esri software is deployed in more than 350,000 organizations globally (more than 5,000 organizations in

India) including the world's largest cities, most national governments, and 75 percent of Fortune 500 companies. Esri engineers the most advanced solutions for digital transformation, the Internet of Things (IoT), and location analytics to inform the most authoritative maps in the world.

ABOUT THE WORKSHOP & TAKE AWAY

Smart Cities Mission is an initiative envisioned by Government of India to develop 100 cities across the country making them citizen friendly and sustainable. When it comes to making cities smart, role of geospatial technologies cannot be ignored, PEC and Esri India has been actively involved in capacity building in the relevant field to form the backbone of a smart city. The geospatial technology provides the framework for conceptualizing and planning of smart cities. It assists at every point from project conceptualization to site analysis, design specifications, stakeholder participation, collaboration, design creation, simulation and evaluation. The workshop will cover issues related to Smart City like Role of Enterprise GIS in Smart City Planning, GIS Architecture for the Smart City, GIS as Data collaboration between Administration, people, industry, academia etc. During workshop, stakeholders of the relevant field will deliberate on the current status, issues and solutions for the Smart City Mission of GOI. The visit to some of the State of the Art labs available in PEC has also been planned.

The workshop focuses on the following:

- Past/Present/Future: A Smart City
- Design/Development of a Smart City
- Different dimensions of a Smart City
- Role of Geospatial Technologies in Smart City
- Issues in Smart City planning
- Academic and Industry collaboration for Smart City
- Sustainable growth with Smart City

ADDRESS FOR CORRESPONDENCE

Er. Har Amrit Singh Sandhu
Assistant Professor, (CED),
Faculty Coordinator, KCC GT
Punjab Engineering College(Deemed to be University),Chandigarh
Email : haramritsingh.pec@gmail.com;
Mobile : 0172-2753051,9888607006,9463594149