

One Week Online Faculty Development Programme
(FDP)/Webinar

on

Smart Cities: Opportunities and Challenges

September, 10th – 14th 2020

Organized by
National Institute of Technology Patna
(Sponsored by TEQIP III)



Patron:

Prof. P. K. Jain
Director,
NIT Patna

Conveners:

Prof. (Dr.) Vivekanand
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Coordinator:

Dr. Ajay Kumar,
Dept. of Architecture,
NIT Patna
Dr. Jyoti Prakash
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NIT Patna.

RESOURCE PERSONS:

1. Dr. Yogesh Kumar Dwivedi, Professor, Swansea University, UK
2. Dr. N. P. Rana, Professor, University of Bradford, UK
3. Prof. K. N. Jha, Professor, Department of Civil Engineering, IIT Delhi
4. Prof. Rajesh Gupta, Professor & Head, Department of Civil Engineering, VNIT Nagpur
5. Dr. G. P. Sahoo, Professor, School of Mgmt. Studies, MNNIT Allahabad, Prayagraj.
6. Dr. Amlan Chakrabarti, Professor, Culcutta University, Kolkata
7. Er. S.K. Sahu, Chief General Manager, Patna Smart City Ltd.
8. Dr. Rajiv Misra, Associate Professor, CSE, IIT Patna
9. Dr. Sandip Chakrabarti, Assistant Professor, Public Systems Group, IIM Ahmedabad.
10. Dr. Arindam Biswas, Associate Professor, Department of Architecture and Planning, IIT Roorkee.
11. Dr. E. Rajsekhar, Assistant Professor, Department of Architecture and Planning, IIT Roorkee.
12. Mr. Sutanu Sen, Ex MoHUA Smart City, Crack Team, Ex Deputy Team Leader, Hubli Dharwal Smart City, Location Kolkata.
13. Mr. Gaurav Jaisinghania, Principal Consultant, PwC (PricewaterhouseCoopers)
14. Mr. Vijendra Singh Niranjani, ICT Expert, Ujjain Smart City Project, PwC (PricewaterhouseCoopers),
15. Dr. Naveen Kumar, BSPCB, Privesh Bhawan, Patna, Bihar

ABOUT NIT PATNA:

National Institute of Technology Patna (NITP) is the 18th National Institute of Technology created by the Ministry of Human Resource Department, Government of India after rechristening the erstwhile Bihar College of Engineering, Patna on 28.01.2004. NIT Patna marked its humble beginning in 1886 with the establishment of pleaders' survey training school which was subsequently upgraded to Bihar College of Engineering in 1924. This made this Institute the 6th oldest Engineering Institute in India. The Institute is situated on the south bank of the holy river Ganges behind Gandhi Ghat (where the ashes of Mahatma Gandhi were immersed in river Ganges). The campus has a picturesque view with its historic building presenting a spectacle of architectural delight and natural beauty. The Institute imparts high level education, training, research and development in science, engineering, technology and humanities along with high quality education and values at UG, PG and Ph.D levels. At present, the Institute has six disciplines offering degree courses viz. Architecture, Civil Engg., Computer Science & Engg., Electrical Engg., Electronics & Communication Engg., and Mechanical Engg., and well-established departments of Physics, Chemistry, Mathematics, Humanities and Social Science.

ABOUT THE COURSE:

Cities are engines of growth for the economy of every country. More than 50 % of the world's population lives in urban areas. Nearly 31% of India's current population lives in urban area and contributes 63% of India's GDP. It is also expected that by 2030 the urban population will be more than 40%. This needs comprehensive and smart development of physical, institutional, social and economic infrastructure. Cities need to be smarter, safer and more sustainable that are more responsive to the needs of their inhabitants. A smart city is a step in improving the quality of life and attracting people and investment to the City. Smart cities consist of human-made structures or environments that are, in some capacity, monitored, metered, networked and controlled. With this functionality, combined with stationary sensors and mobile devices, data and information have become the new building materials of future cities. Using this data, citizens are now beginning to influence the design of future cities and the redesign of existing ones. Smart city planning is considered as an intersection of technology, ICT design, urban design and urban planning. This online FDP will be useful for faculties, students and professionals from different disciplines.

OBJECTIVE AND SCOPE:

The objectives of the course is to bring the different experts, academia and professionals to share their views about the different dimensions of a smart city projects. The participants are expected to get a comprehensive knowledge of various opportunities and challenges faced while developing, operating and living in a smart city.

TENTATIVE TOPICS TO BE COVERED:

Concept of Smart Cities; Dimension/component of Smart Cities; Global experience of Smart Cities; Global standards and performance benchmarks, Practice Codes; India 'Smart Cities' Policy and Mission; Water and waste Management; Energy Management; Efficient Urban Mobility and Public Transport; E-Governance and Citizen Services; Intersection of Technology, ICT design, Urban Design and Urban Planning; Robust IT connectivity and digitalization; Challenge and solution in Smart Cities; Opportunities in Smart Cities

LINK FOR REGISTRATION:

https://docs.google.com/forms/d/1PHhw1jCKcDCpEvw2R0XMrYZv9TcoDTY_YtMEcJIwbsqc/edit

FOR MORE DETAILS VISIT:

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