

One Week online
Faculty Development Program

On

“Road Safety and Management of Fire Fighting Strategies for Smart Cities”

(Sept 06-10, 2021)

Sponsored by



AICTE Training and Learning (ATAL) Academy

Organized By



IPS Academy, Institute of Engineering & Science
(A UGC Autonomous Institute, Affiliated to RGPV)
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One-Week ATAL Faculty Development Program (FDP)
on
“Road Safety and Management of Fire Fighting Strategies for Smart Cities”

ABOUT FDP

The economy of any country depends on cities and GDP is going to increase with the increase in urbanization. The purpose of smart cities is to improve economic growth, clean and sustainable environment and quality of people life.

According to the WHO Global Report on Road Safety 2018, India accounts for more number of fatal crashes among the 199 countries. It also reveals that National Highways which comprises 1.94% percent of total road network which contributes for 30.2 per cent of total road crashes and 35.7% fatal crashes in 2018. Whereas, state highways account for 26.8% of total fatal crashes.

These road crashes has significant contribution in nation GDP which is around 2-3%. It is a challenge to road engineers and practitioners to minimize the total number of crashes and fatal related crashes, which enable the Indian roads, are more sustainable. In recent days, the Government of India promoted various measures to minimize the road crashes by adopting “Road Safety Audit”.

Smart city Fire Fighting includes all areas of fire prevention and protection engineering and fire service emergency response, and it addresses all phases of resilience (i.e., pre-incident, during an incident, and post-incident). Fire fighting for smart cities will transform traditional fire protection and fire fighting practices to ensure the flow of critical information where and when it is needed. Fire prevention is an essential element of Smart city Fire Fighting strategies.

An evolving range of databases and sensor networks will be tapped to create, store, exchange, analyze, and integrate information into critical knowledge for the purpose of Smart Fire Fighting. Engineering, developing, and deploying these systems will require new measurement tools and standards, among other technology developments. The main objective of this online FDP is to promote and create awareness about road safety and to facilitate the fire safety requirements for Smart Cities.

ABOUT ATAL ACADEMY

AICTE Training and Learning (ATAL) Academy is established with the vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. ATAL academy will conduct a series of workshops in thrust areas identified by AICTE.

ABOUT IPS ACADEMY, INSTITUTE OF ENGINEERING & SCIENCE, INDORE

IPS Academy, Institute of Engineering & Science A UGC Autonomous Institute, Affiliated to RGPV is one of the leading private self financing institutes devoted to imparting quality engineering education with the sole motto of “Knowledge, Skill & Values”. The institute was established in 1999 and Ranked 42 among the Top Engineering Colleges in country and 32 among the Private Engineering Colleges in country by Times of India and is top preferred institute for education amongst self financing institute in MP by CSR. We offer 10-UG & 8-PG programs out of which UG programs accredited by NBA New Delhi.

ABOUT FIRE TECHNOLOGY & SAFETY ENGINEERING DEPARTMENT

Fire Technology and Safety Engineering department is the first and only academic department in the country whose UG program B.Tech. Fire Technology & Safety Engineering is accredited by NBA New Delhi. It holds a unique position, being the only department to offer Four years B.Tech. degree in Fire Tech. & Safety Engg. and two years Master of Technology in Industrial Safety Engg. in the country. Department provides qualified and trained engineering professionals in the field of Fire & Safety Engineering to meet the growing demand from industries and business establishments. Department is also recognized by Industrial Health & Safety Department, Govt. of M.P. vide Madhya Pradesh Rajpatra notification dated 29.05.2009 for the appointment of Safety Officer.

COURSE CONTENTS

- ☞ Global Road Safety Challenges
- ☞ Designing for Road Safety
- ☞ Introduction to Road Safety Audit
- ☞ Road Crash Investigation, Black Spot Identification and Remedial Measures
- ☞ Speed Enforcement and Infrastructure Requirements
- ☞ Night Time Road Safety Audit
- ☞ Star Rating of Road Network Using iRAP
- ☞ Intelligent Transportation System for Highway Traffic Management
- ☞ Fire prevention strategies & it's management for smart cities
- ☞ Life safety requirement for smart cities
- ☞ Fire protection requirement for high rise building
- ☞ Fire fighting facilities relevant to type of occupancies
- ☞ Mock Drill and evacuation planning for smart cities buildings
- ☞ IoT sensors and devices for monitoring buildings in smart cities
- ☞ The Evolution from Fire Fighting to Smart Fire Fighting

PARTICIPANTS

This FDP is organized for academicians, researchers, fire & safety professionals, students and persons working in the related area.

CHIEF PATRON

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PATRON

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**Registration: <https://atalacademy.aicte-india.org/signup>
(No Registration Fee)**

CONVENER

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