

One Week online
Faculty Development Program
On
**“New Approaches in Geotechnical
Earthquake Engineering”**

(6th Dec. to 10th Dec. 2021)

Sponsored by



AICTE Training and Learning (ATAL) Academy



Organized By

IPS Academy
Institute of Engineering & Science
(A UGC Autonomous Institute, Affiliated to RGPV)
Civil Engineering Department

Knowledge Village, Rajendra Nagar, A.B. Road, Indore (M.P.), 452012

Ph.0731-4014607, E-mail: office.civil@ipsacademy.org,

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About FDP

The large and rapidly growing urban seismic risk, particularly in developing countries like India is a problem that needs to be quickly solved. Urbanization is rapidly increasing in every city in India. Huge infrastructure developmental plans have been laid in all these cities which are demanding trained structural engineers/ consultants in a large number. It is observed that large concentration of damage in specific areas during an earthquake is due to site dependent factors related to surface geological conditions and local soil altering seismic motion. To reduce the gap and transfers the knowledge; many workshops and technical lectures have been conducted to bring the awareness amongst the professional engineers. The course is designed to have a broader review on the various aspects of Geotechnical Engineering interlinked with Earthquake Engineering.

The one week workshop, aims to address this burning issue by bringing forth students, academicians, research scholars and industrialists and conduct brain-storming sessions under a common roof. Thus, the prominent objectives of this workshop are as follows

1. To have an integrated, comprehensive, multi-disciplinary approach on the study of geotechnical aspects of earthquake engineering and thereby attempt for a clear delineation of hazard vulnerability.
2. To stress upon the major issues pertaining policy making, role of civil engineering management at different positions and similar issues at various levels and thus to enhance general awareness amongst the youth.
3. To motivate students to take up research career in the field of geotechnical engineering and engineering structures safety studies, thereby making some positive contribution towards the betterment of the city, state and the nation at large.

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 the Institute

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 offers 10-UG & 8-PG programs out of which most of UG Programmes are Accredited by NBA New Delhi

About the Department

The oldest and most elegant branch of engineering profession is Civil Engineering due to the fact that is related to almost all aspects of civilization. The Department was established in 2004. Now Department has M.Tech.in Structural Engineering and Construction & Planning Management. The Deptt. is equipped with more than 15 laboratories and computer centre for Research & Development, teaching, training & consultancy. Two Labs are supported by MODROBS. Weather Station installed by department to monitor temperature, humidity, soil moisture, wind velocity, rainfall etc. Three Patents approved and Seven Books Published by the Department. Five Linka book records registered by the Students. UG Program is accredited by NBA New Delhi.

The Civil Engineering Department with its multifaceted faculty continues to maintain and cultivate its strong links with the infrastructural industry and academic and research institutions both within and outside the country.



Course Contents

- Soil Surface Interaction
- Liquefaction of soil
- Engineering Seismology
- Seismic Hazard Analysis
- Geospatial Mapping
- Ground Motion Models
- Landslides and disaster Management
- Seismic Source Characterization
- Land Slide Hazard Assessment
- Collapsing Soils, Dispersive Soils
- Embankment Dams
- Stress Management



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Registration: <https://atalacademy.aicte-india.org/signup>

No Registration Fee.

Convener

Dr. Amit Sharma
E-Mail: amitsharma@ipsacademy.org

Mo: +91 9926424474

Co-Convener

Mr. Vijay Baradiya
E-Mail: vijaybaradiya@ipsacademy.org

Mo: +91 7869271106