INTRODUCTION
India faces a number of natural hazards which are earthquakes, tsunamis, volcanic eruptions, landslides, cyclones, tornadoes, hurricanes, floods, droughts, hailstorms, heat waves, avalanches, sandstorms, lightening storms, typhoons and wildfires. These hazards affect nations all over the world. Some of the most devastating earthquakes India has experienced are the one in Bihar-Nepal (1934), Latur (1993), Chamoli (1999), Bhuj (2001) and Nepal (2015). Some of the major floods in India were in Punjab, Bihar and Uttar Pradesh, Gujarat, West Bengal in 1997, 1998 and 2000. The deadliest tsunamis were in Maharashtra (1524), Gujarat (1819) and Sumatra-Andaman (2004). The hailstorms of Moradabad (1888), cyclones of Orissa (1971), Andhra Pradesh (1977), Chennai (1977), the landslides of Nilgiris (1992) are the other disasters India has faced. Some of the other types of disasters India faces are the Chemical, Industrial, Nuclear, Mechanical and Electrical Disasters. Disaster prevention, mitigation, preparedness and relief are the elements of sustainable development policies. The nations should incorporate them in their development plans and ensure efficient follow measures at community, sub-regional, regional, National and International levels. Earthquake and cyclone are the most devastating and frequent calamities have been of great concern of scientist and engineers for a long time. The government is also promoting the education and research in these areas through organizing various courses, workshops, seminars and Conferences. In this context, the Department of Civil Engineering, Aligarh Muslim University, Aligarh is organizing a two day National workshop on “Natural Disasters and their Mitigation “ during 24th – 25th April, 2019.
A large number of participants from various academic institutions, government and non-government organizations are likely to participate in this event. The workshop shall bring together professionals committed to reducing the impact of earthquakes, flood and cyclone on civil engineering structures and their restoration.

THEMES
- Earthquake Hazard & its Mitigation.
- Assessment, analysis and retrofitting of structures.
- Rapid Visual Techniques for Structures.
- Landslides prevention and mitigation: design practice and new concepts.
- Case studies and lessons learned from Natural disasters.
- Eco-friendly mitigation techniques.
- Community preparedness and resilience to Natural disasters.
- Ground failure & liquefaction: analysis and effects on structures and lifelines.
- Soil-structure interaction.
- Vulnerability of structures under wind loads
- Wind code and standards
- Wind-induced damages
- Structural Health Monitoring
- Reliability-Based Design and Regulations

RESOURCE PERSONS:
1. Prof. D.K. Paul, IIT- Roorkee
2. Prof. Chandan Ghosh, Head, GHRMD, NIDM
3. Mr. Anand Sharma, IMD, Delhi
4. Mr. Shrikant, Millennium Technology, Bangalore.

WHO SHOULD ATTEND?
The workshop is aimed to cater persons from Academic institutes, Professionals from Industry, Government Organizations, Research Scholars and B.Tech. / M.Tech. Students.

REGISTRATION FEE
Faculty Members from Academic Institutes: Rs.1500/-
Professionals from Industry: Rs.3000/-
Officers from Government Organizations: Rs.2000/-
Students (AMU): 700/-
Students (Others): 1000/-

MODE OF PAYMENT
Demand draft or cheque in favour of Chairman, Department of Civil Engineering, AMU, Aligarh or in cash latest by 23rd April, 2019.

REGISTRATION FORM
A view of collapsed Reinforced Concrete Building tilted 90° during Bhuj Earthquake.

A view of collapsed Bridge during Kerala Flood.

**ORGANIZING COMMITTEE**

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Prof. Tariq Mansoor
The Vice-Chancellor, AMU, Aligarh.

**PATRONS**
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Dean, Faculty of Engineering & Technology, AMU.

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Principal, Z.H. College of Engineering & Technology, AMU.

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Chairperson, Department of Civil Engineering, AMU, Aligarh.

**COORDINATOR TEQIP-III**
Prof. M Jawaid Siddiqui

**CONVENER OF THE WORKSHOP**
Prof. Shakeel Ahmad

**ORGANIZING SECRETARY**
Prof. Rehan A. Khan

**CO-ORGANIZING SECRETARY**
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Prof. Fareed Mahdi  
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**Two Day National Workshop on Natural Disasters and their Mitigation**

(24th - 25th April, 2019)

Organized By
DEPARTMENT OF CIVIL ENGINEERING  
Z.H. COLLEGE OF ENGINEERING  
ALIGARH MUSLIM UNIVERSITY, ALIGARH

Sponsored by TEQIP-III