



Ministry of Housing
and Urban Affairs
Government of India



GLOBAL
HOUSING
TECHNOLOGY
CHALLENGE INDIA



School of Planning and
Architecture, New Delhi



Building Materials & Technology
Promotion Council, New Delhi

Fee slashed to
Rs.1000/- (Rs.500 for
students) for limited period
upto 30.09.2021

due to global pandemic COVID-19
which has reminded us again the importance
of adopting pro-active measures for disaster
mitigation & management.

e-Course on Vulnerability Atlas of India

The e-course on Vulnerability Atlas of India has been launched by Shri Hardeep S Puri, Hon'ble Minister of State (I/C) for Housing and Urban Affairs, Government of India on August 29, 2019. The e-Course is being offered jointly by the School of Planning & Architecture, New Delhi and Building Materials & Technology Promotion Council (BMTPC), New Delhi.

This unique e-Course offers...

- Identification of vulnerable areas with respect to natural hazards namely earthquakes, wind / cyclones, landslides, floods
- Help individuals in evaluation of multi-hazard profile of the region and incorporating them in DPRs, Design Basis and Tenders
- District-wise damage risk levels to the existing housing stock
- Basic understanding of earthquake, flood & cyclone resistant housing
- Disaster mitigation measures

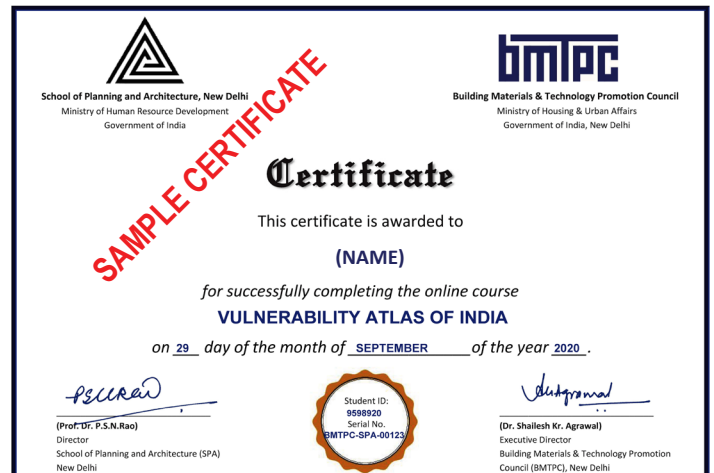
COURSE FEE

Rs.3000/- per person

Fee slashed to

Rs.1000/- per person (Rs.500/- for Student)
for limited period upto 30.9.2021

(One-time, Non-refundable)



On successful completion of the course, a Certificate will be awarded to the participant

For Registration, please go to:

<http://spa.ac.in> or

<https://ecourse.bmtpc.org>

Target Groups

- Individuals who wish to keep themselves abreast with knowledge about various hazards, vulnerability & disaster mitigation measures, in order to be better prepared.
- Students/Faculty/Practitioners/Researchers of Urban and Regional Planning, Civil Engineering and Architecture Colleges or any other allied disciplines
- Public/Private Professionals working in the area of housing & infrastructure sector e.g. Road, Rail, Aviation, Ports, etc.
- Defence/Central Armed Police Forces involved in Civil Engineering projects
- Officials of National/State Disaster Management Authorities
- Central/State/Local Government Officials
- Members of Consulting Organisations
- Members of Civil Society Organisations

SALIENT FEATURES OF THE E-COURSE

- Applicants can register and log on to the e-course from anywhere at any time.
- Course does not require any face to face discussion or physical appearance in the examination.
- Course is beneficial for those who are not able to attend physically or do not have sufficient time to attend programmes in training centres.
- e-Course will help individuals to comprehend and move at their own pace. There are no restrictions on duration of the course.
- There will be Multiple Choice Questions (MCQ) based self-assessment after each module. In case an individual is not able to score satisfactorily in a particular module, applicant is encouraged to re-read the module and go through self-assessment again.
- At the end of the course, there will be final examination which will again be MCQ based.
- An applicant will get maximum 3 attempts to complete the final examination.
- If an applicant fails after 3 attempts, applicant will have to go through the Course again from the beginning.
- On successful completion of the course, a self-generated digital certificate will be awarded to the applicant.
- There will be six Contact Programmes for enrolled applicants who have successfully completed the e-course in one year, (one at SPA, New Delhi and five other at designated Incubation Centres of GHTC-I at IIT Bombay, IIT Kharagpur, IIT Madras, IIT Roorkee & NEIST Jorhat/CBRI Roorkee), during which certificate will be delivered in a programme. Candidates will have option to choose any place suiting their convenience.

Course Contents

Module 1: What is Vulnerability Atlas of India?

- Introduction to the concept of natural hazards and natural disasters
- Vulnerability profile of India
- What is Vulnerability Atlas of India?

Module 2: Earthquake Hazard and vulnerability to housing

- Earthquakes
- Earthquake magnitude and intensity
- Epicentre of an earthquake
- Earthquake/Seismic Zones
- Earthquake Hazard Maps
- Types of structures/buildings and classification of damages to buildings
- Effects of earthquakes on housing
- Earthquake resistant measures for housing

Module 3: Wind / Cyclone Hazard and vulnerability to housing

- Wind and cyclonic storms
- Basic wind speed zones
- Design Wind Speed and Pressures
- Wind Hazard Maps
- Cyclone Occurrence Map of coastal India
- Storm surge
- Wind/cyclone resistant measures

Module 4: Flood Hazard and vulnerability to housing

- Floods
- Flood prone areas in the country
- Flood Hazard Maps
- Probable maximum precipitation
- Flooding in Coastal Areas
- General Protection of Habitat/Buildings
- Construction of Flood Resistant Houses

Module 5: Landslides, Thunderstorm and Tsunami Hazards

- Landslides
- Landslide Incidence Maps
- Thunderstorms
- Thunderstorm Incidence Map of India
- Tsunami

Module 6: Housing Vulnerability Risk Table

- House types
- Risk of damage to house types
- Damage risk levels for earthquakes, wind storms and floods
- The Housing Vulnerability Risk Tables

Module 7: How to Use Atlas and it's Inclusion in Tender Documents

- Usage of Vulnerability Atlas of India
- How to read Vulnerability Atlas of India
- Inclusion of Atlas in Tender Documents
- Definitions of Disaster Related Terms

For further information, please contact:

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