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**UNIVERSITY OF MUMBAI**

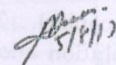
No. UG/165 of 2017-18

**CIRCULAR:-**

A reference is invited to the syllabi relating to the Arts, Science and Commerce Programme issued vide this office Circular No.UG/467 of 2007, dated 20<sup>th</sup> November, 2007 and the Convener of the Centre of Disaster Management and the Principals of the affiliated Colleges in Arts, Science and Commerce are hereby informed that the recommendations made by the Board of Studies in Geography at its meeting held on 28<sup>th</sup> April, 2017 has been accepted by the Academic Council at its meeting held on 11<sup>th</sup> May, 2017 vide item No.4.246 and that in accordance therewith, the revised syllabus of Certificate Course in Environment Management and Disaster Mitigation Paper - II (Sem - IV), which is available on the University's website ([www.mu.ac.in](http://www.mu.ac.in)) and the same has been brought into force with effect from the academic year 2017-18, accordingly.

MUMBAI – 400 032

8<sup>th</sup> August, 2017

  
(Dr.M.A.Khan)

REGISTRAR

To

The Convener for the Centre of Disaster Management and the Principals of the affiliated Colleges in Arts, Science and Commerce.

A.C/4.246/11/05/2017

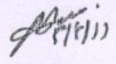
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No. UG/165 -A of 2017

MUMBAI-400 032      8<sup>th</sup> August, 2017

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Arts, Science and Commerce and Management,
- 2) The Chairman, Board of Studies in Geography,
- 3) The Offg. Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,

  
(Dr.M.A.Khan)  
REGISTRAR

....PTO

AC \_\_\_\_\_  
Item No. \_\_\_\_\_**UNIVERSITY OF MUMBAI****Syllabus for Approval**

Sr. No.	Heading	Particulars
1	Title of the Course	Certificate Course in Environment Management and Disaster Mitigation - Enclosure I
2	Eligibility for Admission	Bachelors degree in any branch of University of Mumbai or an equivalent examination of another university of India - pt. see enclosure
3	Passing Marks	45%
4	Ordinances / Regulations ( if any)	
5	No. of Years / Semesters	Five months.
6	Level	<del>P.G. / U.G.</del> Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year 2017-18

Date: 28/4/2017

Signature :

Name of BOS Chairperson / Dean :

Geography.



Cover Page

# UNIVERSITY OF MUMBAI



## Essentials Elements of the Syllabus

1	Title of the Course	For e.g. Syllabus for Two Years M. Sc Course in Biodiversity
2	Course Code	For e.g. ( PSBWCM )
3	Preamble	
4	Objective of Course / learning outcome	
5	Eligibility	
6	Fee Structure	
7	No. of Lectures	For e.g. 4 courses per semester
8	No. of Practicals	For e.g. 4 period of week per course
9	Duration of the Course	
10	Notional hours	Efforts of the Students in hrs to assimilate the unit
11	No. of Students per Batch	
12	Selection	
13	Assessment	
14	Syllabus Details	
15	Title of the Unit	
16	Title of the Sub-Unit	
17	Semester wise Theory	
18	Semester wise List of Practical	
19	Question Paper Pattern	
20	Pattern of Practical Exam	
21	Scheme of Evaluation of Project / Internship	
22	List of Suggested Reading	
23	List of Websites	
24	List of You-Tube Videos	
25	List of MOOCs	

**UNIVERSITY OF MUMBAI**

**Department of Geography**

**Proposed Syllabus for the Certificate Course in Environment Management and Disaster Mitigation (with effect from the academic year 2017-2018)**

**Certificate Course in Environment Management and Disaster Mitigation**

**Preamble:** The course will provide a scientific understanding of the types, causes, frequency, magnitude and effects of natural environmental and manmade disasters at different spatial and temporal scales. Links to global trends such as environmental degradation, persistent poverty, and growing urban density will be examined. This will lead to an appreciation of the cultural, economic political and social factors that combine to increase vulnerability to disasters. The participants will also be introduced to appropriate technical skills to monitor manage and mitigate hazards and disasters. The institutional setup of governments and the roles and responsibilities of different levels of government in actors in the context of city management and community based disaster mitigation will be examined; detailed understanding of the issues discussed in this course can be developed by taking other certificate courses of the Centre dealing with these issues.

**Ordinances and Regulations for the Certificate Course in Environment Management and Disaster Mitigation**

O. -----: A candidate for being eligible for admission to the Certificate course in Environment and Disaster Mitigation must have passed the Bachelors degree examination in any branch of the University of Mumbai or an equivalent examination of another University of India / Abroad recognized by this University as equivalent examination of another University of India / Abroad recognized by this University as equivalent thereto. The candidate must have passed the bachelors degree with 45% marks.

O. -----: Admission for the Certificate course will be open to the students from foreign countries on recommendation by the ministry of Education and Cultural Affairs, Government of India and through proper channel. However their application will be considered subject to minimum qualification to their eligibility of admission.

R. -----: The duration of the Certificate course in Environment Management and Disaster Mitigation shall be five months.



R. -----: The number of lectures for the Certificate course will be four hours on working Saturdays

R. -----: Intake capacity of the course will be 30.

R. -----: The Examination of the Certificate Course will be held in TWO parts – A midterm exam (with 40% weightage) and another at the end of the course (with 60% weightage)

R. -----: Passing of the midterm exam will not be requirements for appearing for the end of the course exam.

R. -----: To pass the Certificate course in Environment Management and Disaster Mitigation, the candidate must obtain a minimum of 50% marks overall (in midterm and end term examination taken together)

50% or more      satisfactorily passed

Less than 50%      Fail

The fees for the course is proposed to be 1500/- student. With the capacity of 30 students, that comes to Rs. 45000/- . The expenses are estimated to be Rs. 43000/- directly for the course and Rs.2000/- is kept as sinking fund for collective expenses for the Centre , like brochure printing , advertising , seminars etc.

### **Syllabus for the Certificate Course in Environment Management and Disaster Mitigation**

#### **Unit 1: Environmental balance (4 lectures)**

- Environment and Ecological Principles
- Concept of Ecosystem
- Changing Man-Environment relations
- Causes and impacts of Environmental Imbalance

#### **Unit 2: Natural Disasters, Types, Causes, Effects Environmental Impact Assessment ( 3 lectures)**

- Earthquakes and Volcanoes
- Floods and Droughts
- Cyclones, Cloud Bursts and Hurricanes

#### **Unit 3: Manmade Disasters: Types, Causes and Impacts – Specific examples ( 3 lectures)**

- End of term exam : 2 hours

#### References:

1. Ahmed, Y.J. and Sammy G.K.(1985): Guidelines to Environmental Impact Assessment in Developing Countries, Hodder and Stroughton, Sevenoaks.
2. Smith K and Petley DN. 2009. Environmental Hazards: Assessing risk and reducing disaster. 5th edition, Routledge: New York. 383 pp.
3. Abramovitz, J. 2001. Unnatural Disasters. World watch Paper No. 158. World watch Institute: Washington, D.C. (PDF file available on UW-Learn)
4. Coppola P Damon, 2007. Introduction to International Disaster Management,
5. Carter, Nick 1991. Disaster Management: A Disaster Manager's Handbook. Asian Development Bank, Manila Philippines
6. Govt. of India: Disaster Management Act 2005, Government of India, New Delhi.
7. Government of India, 2009. National Disaster Management Policy,
8. Gupta Anil K, Sreeja S. Nair. 2011 Environmental Knowledge for Disaster Risk Management, NIDM, New Delhi
9. Kapur Anu 2010: Vulnerable India: A Geographical Study of Disasters, IAS and Sage Publishers, New Delhi.
10. Parasuraman S, Acharya Niru 2000. Analysing forms of vulnerability in a disaster, The Indian Journal of Social Work, vol 61, issue 4, October
11. Brian Tomaszewski :Geographic Information Systems (GIS) for Disaster Management- CRC Press, 19-Dec-2014 - Social Science

*Bogomule*  
Chairman  
B.O.S. in Geography

#### Members

- (1) Prof. V.R. Nagarale *V.R. Nagarale*
- (2) DR. PRAVESH DONGRE *P. Dongre*
- (3) Dr Savitrimata V-chavan *S. Chavan* 28/4/17