

# DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004. Maharashtra (India)

DEPARTMENT OF ENVIRONMENTAL SCIENCE

NAAC Accredited 'A'



## NOTIFICATION (Revised on 24<sup>th</sup> May 2016)

### **Entrance Examination for Seeking Admission to M.Sc. Environmental Science (First Year) (Academic year 2016-17)**

The Department of Environmental Science at Dr.Babasaheb Ambedkar Marathwada University is going to conduct Common Entrance Test (CET) to enroll the students for M.Sc. Environmental Science (First Year) for Academic year 2016-17. The deadlines and other details are given below.

**Eligibility Criteria:** Those who have completed B.Sc. with Environmental Science, Botany, Zoology, Physics, Chemistry, Microbiology, Biochemistry, Bio-Technology, Earth Science etc., B.E.(Bachelor of Engineering ) and B.Sc. Agriculture subjects and Forensic Science, shall be held eligible for the admission to M.Sc. in Environmental Science. The weightage of 1% will be given to the candidates who offered Environmental Science as one of the optional subject at the B.Sc. level for seeking the admission to the M.Sc. Environmental Science.

**Fees for Entrance Examination:** Rs.400 /- (For Open Category) and  
Rs.200/- (For SC/ST/VJ/DT/NT/OBC category)

Sr.No	Important Dates / Deadlines	
1	Last date of submission of Scan copy version of application form by email ( <a href="mailto:head.envsci@bamu.ac.in">head.envsci@bamu.ac.in</a> & <a href="mailto:drbandella@rediffmail.com">drbandella@rediffmail.com</a> )	<b>June 04, 2016 (upto3.00pm)</b>
2	Last date for submission of hard copy of application form in the department of Environmental Science	<b>June 04 ,2016 (upto3.00 pm)</b>
3	Date of display of Seat numbers of Eligible candidate (for CET) on university website ( <a href="http://www.bamu.ac.in">www.bamu.ac.in</a> )	<b>June 04 ,2016 (upto 5.00 pm)</b>
4	Date of Common Entrance Test (CET) in the Department of Environmental Science, Dr.B.A.M.U., Aurangabad.	<b>June 06, 2016 2.00 pm to 3.00 pm</b>
5	Declaration of Common Entrance Test (CET) result	<b>June 07, 2016</b>
6	Declaration of the First Merit list and seeking admission	<b>June 08 to June 14 ,2016</b>
7	Declaration of the Second merit list against vacancy and seeking admission	<b>June 15 to 18 June ,2016</b>
8	Spot Admission against vacancy only for CET appeared candidates	<b>June 20 June , 2016</b>

- Intake for M.Sc.( Environmental Science) First Year 32 students, University admission rules and reservation policy will be followed.
- Candidate failing to submit hardcopy and paying the entrance fees may submit the same **atleast 2 hrs** before the time and date of entrance examination.

## General Instructions:

- The entrance examination will be of 100 marks Consisted of 50 MCQ and there will not be negative marking.
- Use of scientific calculators will be allowed.
- Electronic gadgets including mobile phone, pager will not be allowed in the examination hall.
- After completion of registration procedure, final merit list will be prepared based on 50 % weightage to B. Sc. subject percentage and 50 % weightage to CET and it will be published on university website: [www.bamu.ac.in](http://www.bamu.ac.in).
- Seat numbers ( for entrance examination) will be generated and displayed on university website [www.bamu.ac.in](http://www.bamu.ac.in) on June 04, 2016.
- Please download [Hall ticket](#) , paste recent passport size photograph, get the photograph and hall ticket endorsed by competent authority (Principal of the College / Heads of University Department/ Gazetted Officer) and carry the same at the time of examination.
- Please download [application form](#) and submit Scan copy by email ([head.envsci@bamu.ac.in](mailto:head.envsci@bamu.ac.in) ,[drbandella@rediffmail.com](mailto:drbandella@rediffmail.com) ) on or before June 04, 2016. Also submit hard copy of the application form along with requisite **cash receipt / demand draft** ( Rs. 400/-for open category and Rs 200 for reserve category) in favour of **Registrar, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS)** [on or before due date \( June 04, 2016\)](#).

### Contact Numbers :

#### Teaching Staff

1. **Dr.N.N.Bandela** 09823207519  
Professo & Head
2. **Dr.M.B.Mule** 09860890199  
Professor
3. **Dr.S.S.Patil** 09422707261  
Professor
4. **Dr.B.L.Chavan** 09881424586  
Associate Professor

#### Non – Teaching Staff

1. **Shri.J.V.Hamand** 09158720136
2. **Shri. Bhushan B.Aher** 09404488786

**Dr. Babasaheb Ambedkar Marathwada University  
Aurangabad- 431001 (MS) India  
Department of Environmental Science**



**Syllabus**

**Of**

**Common Entrance Test (CET)**

**For**

**M. Sc. (Environmental Science) First Year  
Admission  
(2016-17)**

**Department of Environmental Science**  
**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**  
**SYLLABUS for M.Sc. Entrance Examination in Environmental Science**

**Unit 1 : Multidisciplinary nature of environmental studies:** Definition, scope and importance, Need for public awareness.

**Unit 2 : Natural Resources :** Renewable and non-renewable resources :

Natural resources and associated problems. a) Forest resources : Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d) Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Case studies. f) Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.

**Unit 3 : Ecosystems:** Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure and function of the a. Forest ecosystem, b. Grassland ecosystem, c. Desert ecosystem and d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).

**Unit 4 : Biodiversity and its conservation:** Introduction – Definition : genetic, species and ecosystem diversity, Biogeographical classification of India, Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic, and option values, Biodiversity at global, National and local levels, India as a mega-diversity nation, Hot-spots of biodiversity. Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts, Endangered and endemic species of India, Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.

**Unit 5 : Environmental Pollution:** Definition Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards., Solid waste Management : Causes, effects and control measures of urban and industrial wastes, Role of an individual in prevention of pollution. Pollution case studies, Disaster management : floods, earthquake, cyclone and landslides.

**Unit 6 : Social Issues and the Environment:** From Unsustainable to Sustainable development, Urban problems related to energy, Water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of people; its problems and concerns. Case Studies, Environmental ethics : Issues and possible solutions, Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies., Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation, Public awareness.

**Unit 7 : Human Population and the Environment:** Population growth, variation among nations, Population explosion-Family Welfare Programme, Environment and human health, Human Rights, Value Education, HIV/AIDS, Women and Child Welfare, Role of Information Technology in Environment and human health, Case Studies.

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**DEPARTMENT OF ENVIRONMENTAL SCIENCE**

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**Application form for Common Entrance Test (CET)**

Paste latest  
Passport size  
photograph

1. Name of the Student :

\_\_\_\_\_

2. Name and Address of the last attended College :

\_\_\_\_\_

\_\_\_\_\_

3. Date of Birth: \_\_\_\_\_ 4. Gender : \_\_\_\_\_

5. Category : \_\_\_\_\_

6. Address for communication :

\_\_\_\_\_

\_\_\_\_\_

7. Average percentage of Graduation : \_\_\_\_\_

8. Average percentage of I, II and III year for Science Subjects : \_\_\_\_\_

9. Mobile Number: \_\_\_\_\_ 10. Email ID : \_\_\_\_\_

11. Details of Fees paid : Demand Draft Number: \_\_\_\_\_

Amount : \_\_\_\_\_ Date : \_\_\_\_\_

Name of the Bank : \_\_\_\_\_

Date : \_\_\_\_\_

Place : \_\_\_\_\_

Signature of the Student

- Note :-
1. Third year appeared students and whose results is awaited can also apply for CET.
  2. Submit the hard copy of the application form along with D.D/cash receipt on or before June 04, 2016 in the department of Environmental Science.
  3. ID proof is compulsory for appearing Entrance Test.

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**DEPARTMENT OF ENVIRON MENTAL SCIENCE**  
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**Hall Ticket**

Common Entrance Test (CET) for Seeking Admission to M.Sc. (Environmental Science first year)

Paste latest  
Passport size  
photograph

1. **Name of the Student :**

\_\_\_\_\_

2. **Name and Address of the last attended College :**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. **Date and Time of Entrance Examination : June 06 ,2016**

**Time : 2.00pm to 3.00pm**

5. **Name of the Centre :**Department of Environmental Science, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.(M.S)

6. **Seat Number :**\_\_\_\_\_

(Seat number will be displayed on [www.bamu.ac.in](http://www.bamu.ac.in) on June 04,2016)

**Signature of the Student**

**Signature of the competent authority**