NAAC Re-Accredited 'A' Grade
ESTD. 1963
RJC
ISO 9001:2015
Best College
UNIVERSITY OF MUMBAI

# Hindi Vidya Prachar Samiti's
# RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

**(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)**

**Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B**
**NAAC Accredited 'A GRADE' with CGPA 3.50**

*Knowledge is all Ambrosia*

A T S M C

## CERTIFICATE COURSE IN

## ENVIRONMENTAL ETHICS : WATER RESOURCE,MANAGEMENT AND WATER POLLUTION & HEALTH


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Opposite Railway Station, Ghatkopar (W),
Mumbai 400 086, Maharashtra, INDIA.

## ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai.

The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

**Course Code: RJZOOC02**

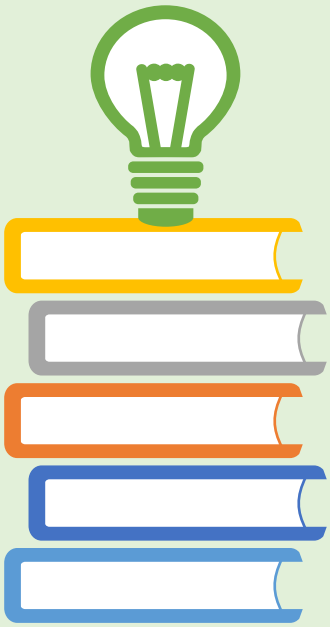
**Duration: 30 hours**

**Credits : 02**

## LEARNING OUTCOME

The participants will learn about the importance of water resources.

- The participants will get insight into the water cycle.
- They will learn and understand the water pollution problem and its gravity.



# COURSE CONTENT

| Module | Content |
|---|---|
| I | **Water cycle and water chemistry**<br>• Water cycle, Properties of water.<br>• Tetrahedral chemistry of water.<br>• Physico-chemical Characteristics water bodies. |
| II | **Water resources and treatment**<br>• Types of water resource.<br>• National drinking water policy.<br>• Drinking water treatment plants and various disinfection processes.<br>• Household treatment, Drinking water standards. |
| III | **Water pollution**<br>• Causes ,effect and control measures of water pollution.<br>• Pollution control standards, WHO standards of drinking water.<br>• Water borne diseases. Microbial contamination of water- types, sources, threats.<br>• Microbial standards of drinking water, MPN. |
| IV | **Water conservation and water pollution acts in India.**<br>• Water conservation: Ice stupa artificial glacier by Sonam Wangchuk.<br>• Rain water harvesting.<br>• Watershed Management: Classification, Objective ,Advantages and Disadvantages. |

**English**

## MEDIUM OF INSTRUCTION

## EVALUATION

**Assignments / Test/ Quiz/ Case study/Continuous evaluation based on the above topics.**

## 100 MARKS PASSING 40

## WHO SHOULD DO IT?

**Any one who is interested**