



Autonomous (2016-17)

Malad Kandivli Education Society's
NAGINDAS KHANDWALA COLLEGE

**OF COMMERCE, ARTS & MANAGEMENT STUDIES
AND SHANTABEN NAGINDAS KHANDWALA COLLEGE OF SCIENCE**

(Re-accredited (3rd cycle) by NAAC with 'A' Grade)

ISO 9001 : 2015 Certified

Educational Excellence Award By Indus Foundation, U.S.A.

IMC Ramkrishna Bajaj National Quality Commendation Certificate

Syllabus Along With Course Objectives

And

Outcomes Of The Value Added Courses Offered.

**DR. (MRS.) ANCY JOSE
PRINCIPAL**





Nagindas Khandwala College

Autonomous

- **Name of the STC – Environmental Science**
- **Number of Credits – 2**
- **Students who complete the Course, it will be written as 'Successfully Completed. There will be no grades awarded.**

Course Objectives:

1. To identify basic concepts related to environment and ecology
2. To explain the reasons behind various types of pollution
3. To apply the skills for environmental management
4. To distinguish between different types of energy sources
5. To develop an understanding of latest guidelines for environmental audit
6. To compare between the impacts on the environment of a development project

Course Outcome:

1. **CO1:** Learners will be able identify basic concepts related to environment and ecology (**Level: Knowledge**)
2. **CO 2:** Learners will be able to explain the reasons behind various types of pollution (**Level: Comprehension**)
3. **CO 3:** Learners will be able to apply the skills for environmental management (**Level: Application**)
4. **CO 4:** Learners will be able to distinguish between different types of energy sources (**Level: Analysis**)
5. **CO 5:** Learners will be able to develop an understanding of latest guidelines for environmental audit (**Level: Synthesis**)
6. **CO 6:** Learners will be able to compare between the impacts on the environment of a development project (**Level: Evaluation**)

Nagindas Khandwala College (Autonomous)



Environmental Science

PRINCIPAL

**NAGINDAS KHANDWALA COLLEGE OF COMMERCE
ARTS & MANAGEMENT STUDIES AND SHANTABEN
NAGINDAS KHANDWALA COLLEGE OF SCIENCE**

MALAD (A), MUMBAI - 400064

Detailed Syllabus

Unit 1: Concept of Environment and Ecology.

- a. Definition and scope of environmental science
- b. Definition and components of ecology
- c. Definition and components of environment
- d. Biogeochemical cycle: Carbon Cycle, Nitrogen Cycle & Water Cycle.

Unit 2: Environmental Pollution.

- a. Air pollution: types effects and management.
- b. Water pollution: types, effects and management.
- c. Noise pollution: types, effects and management.
- d. Land pollution: types, effects, and management.

Unit 3: Energy and Environment.

- a. Sun as the ultimate source.
- b. Renewable and non – renewable energy sources.
- c. Energy conservation polices.
- d. Green building technologies.

Unit 4: Environmental Management.

- a. Scope of Environmental management.
- b. Guidelines of environmental audit
- c. Concept and strategies of Sustainable development
- d. Environmental impact assessment

