

**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN  
ABILITY/SKILL ENHANCEMENT  
(+3 Arts, Science & Commerce Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**



# ENVIRONMENTAL STUDIES (AECC I)

## SEMESTER – I

FOR UNDER GRADUATE ARTS, SCIENCE & COMMERCE – 2019-20

FULL MARKS: 100

TIME: 3 HOURS

TIME: 1 HOUR

END SEMESTER: 80

MID SEMESTER: 20

### Unit – I

The Environment: The Atmosphere, Hydrosphere, Lithosphere, Biosphere, Ecology, Ecosystem, Biogeochemical Cycle (Carbon Cycle, Nitrogen Cycle), Environment Pollution: Air Pollution, Water Pollution, Soil Pollution, Radiation Pollution.

### Unit – II

Population Ecology: Individuals, Species, Pollution, Community, Control Methods of Population, Urbanization and its effects on Society, Communicable Diseases and its Transmission, Non-Communicable Diseases.

### Unit- III

Environmental Movements in India: Grass root Environmental movements in India, Role of women, Environmental Movements in Odisha, State Pollution Control Board, Central Pollution Control Board.

### Unit –IV

Natural Resources: Conservation of Natural Resources, Management and Conservation of Wildlife, Soil Erosion and Conservation, Environmental Laws: Water Act, 1974, Air Act, 1981, The Wildlife (Protection) Act, 1972, Environment Protection, 1986, Natural Disasters and their Management.

### Books Recommended

1. Dash MC and Mishra PC, Man and Environment, McMillan, London.
2. Mishra PC and Das MC, Environment and Society, McMillan, London.
3. Odeem EP, Fundamentals of Ecology, Natraj Publication.
4. Mishra DD, Fundamental Concept in Environmental Studies, S.Chand, New Delhi.
5. Asthana DK and Asthana Meera, A Testbook of Environmental Studies, S. Chand, New Delhi.



## **SUGGESTED CURRICULUM FOR THE PROPOSED COURSE**

**Title : Ethics and Values**

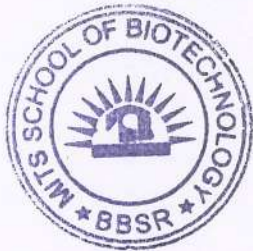
**(Consisting of six modules of 1 credit : 15 lectures each)**

**ODISHA STATE HIGHER EDUCATION COUNCIL  
A-11, 2<sup>nd</sup> Floor, PUSTAK BHAVAN  
SUKA BIHAR, BHOI NAGAR-751022  
BHUBANESWAR, ODISHA**



## OBJECTIVES/LEARNING GOALS OF THE COURSE

- Development of a positive character, empathetic human being, responsible citizen, a compassionate and empathetic being.
- Understanding virtues of volunteerism.
- Promoting a sustainable life style for the individual, community and man kind
- Developing a sense of right and wrong leading to practical ethical behavior
- Inculcating a positive work culture respecting professional ethics
- Inculcating Leadership





## SEMESTER-I

### Unit-1

#### **Title: - Gender Issues and Ethical Dimensions**

**Total no. of Periods-15**

**Full mark-25**

**Credit point -1**

#### **1.0 Aims of the Unit:**

- *The module aims to generate a sensitivity among the students towards women,*
- *Enable them to value the contributions of women, from family to the larger society,*
- *To generate among them a distinct urge to respect women,*
- *To recognize their unique identity and understand their equal status and entitlements as members of the society.*

#### **Learning Objectives:**

After going through the contents of the module and the class room transactions on the contents, the students are expected to

- Have changes in their perceptions, predicaments and practices towards women.
- Develop proper attitude towards women and value their work and contribution.
- Come forward to challenge the unethical, unfounded treatments against women as a gender group.
- Pioneer in creating a gender equal society where the well being, happiness and security of the women will be well protected contributing towards better HDI and inclusive development.
- End gender based hierarchy and hegemony, remove the feeling that women are counter to men and bring about a complementarity among the hitherto existing gender binary.
- Allow women to realize their self worth, contribute their best for the betterment of the society.

#### **Teaching Hours**

##### **1.1 Introduction:**

General introduction on Ethics and Values, Gender equality as an essential precursor to social progress, the present scenario, Desirable gender related values.

**1-2-3**

##### **1.2 Women and Family**

Pre-natal sex selection, Gendered practices in the family, Gender based division of labour in the family, Marriage and women, Marriage and women's consent, Child marriage, the practice of dowry, Women and family violence.

**4-5-6-7**

##### **1.3 Women and Work**

Women's work: The Invisible hands, Exploitation of women at work, Gender Stereotyping at work, Glass ceiling, Women and pay gap, Sexual Harassment of women at work, Working women and role conflict.

**8-9-10-11**

##### **1.4 Women, Community and Society**

Violence against women in public spaces, Gender sensitive language and communication, Gendered language, Sexist Language, Gender neutral language, Women and property Rights ,What does property right mean?, Women's property Rights in Indian Laws, The functionality of Women's Property Rights

**12-13-14-15**



## SEMESTER-II

### Unit-2

#### **Title: - Nature and Scope of Ethics and Values**

Total no. of Periods-15

Full mark-25

Credit point -1

#### **2.0 Aims of the Unit:**

- Familiarize the student with the concept of Ethics vis a vis patriotism and nation building.
- Introducing the Indian Constitution, concepts of patriotism.

#### **Learning Objectives:**

- To built the sense of Right and Wrong. Both ethically and constitutionally
- To develop power of Judgment amongst students.
- Evolving sense of patriotism among students
- To facilitate growth of an empathetic and compassionate personality.

#### **Teaching Hours**

##### **2.1 Indian Constitution**

Salient Values of Preamble and its importance in national life.:  
Concepts of a Sovereign, Socialist, Secular, Democratic,  
Republic, Justice, Liberty, Equality and Fraternity.

1-2-3

##### **2.2 Patriotism**

Patriotic Values and ingredients of nation building. Concepts  
good citizenship., emotional connection with the nation and  
Duties of citizens and Qualities of good citizenship

4-5-6-7

of  
state,

##### **2.3 Volunteerism**

Concepts and facets of Volunteerism and Leadership.Their role  
in building a sustainable, local-regional-national –international  
Volunteering organization and Volunteerism of Youth (blood  
donation, social work, helping the aged and green practices etc

8-9-10-11

role

##### **2.4 Work Ethics**

Punctuality, Cleanliness Law abidingness and work place behavior  
and professional ethics.

12-13-14-15





## SEMESTER-III

### Unit-3

#### Title: - Issues of Drug, Tobacco Addiction and Alcoholism

Total no. of Periods-15

Full mark-25

Credit point -1

#### 3.0 Aims of the Unit:

- Understanding the concepts of social evils.
- Creating awareness about health hazard of tobacco consumption, alcoholism and drug addiction.
- Sensitizing student about professional support system for treatment and rehabilitations.

#### Learning Objectives:

- The student becomes aware of the grave danger of consuming alcohol, tobacco and drugs.
- The students become more empathetic for the alcoholic and the drug addict.
- The student would encourage this group to seek professional help for treatment and rehabilitations.

#### Teaching Hours

#### 3.1 Extent of Drug and Tobacco addiction and alcoholism in India

Myths associated with the them, Health hazards associated with Them and how they have become silent killers.

1-2-3-4

#### 3.2 Socio- economic impact of Drug and Tobacco addiction and alcoholism:

Loss of physical and mental strength, Loss of character, Loss of family ties and relationship, Loss of earning and lively hood potentials, Loss of societal respect and dignity etc.

5-6-7-8

#### 3.3 Silent features of social legislation such as NDPS Act, 1985 and COTPA Act ,2003 , Mechanism and Govt. Scheme for prevention , de-addiction and rehabilitation .

9-10-11-12

#### 3.4 Provision of Tobacco free campus and role of students, Roles of students in their family and immediate surroundings, Role of NGOs and their agencies.

13-14-15



## SEMESTER-IV

### Unit-4

#### Title: - Ethical Values for Students

Total no. of Periods-15

Full mark-25

Credit point -1

#### 4.0 Aims of the Unit:

- To familiarize the students with core values of Academics and Goals of Education.
- To create an awareness about Unethical practices in the academics.
- To sensitize the students on issues relating to interpersonal Relations and community life in institutes of Higher Education.
- The objectives of the present unit is to create an awareness among the students about the concept of leadership and ethical leadership which will ultimately help them to become a good human being and develop an attitude to work in group.

#### Learning Objectives:

- The student with awareness would behave ethically in the campus and modify his behavior.
- The learning ambience of the educational Institution shall improve and fulfill the objectives of Higher Education.
- Articulate the different values which will contribute towards ethical leadership.
- Exhibit respectful treatment of others in an organizational context.
- Contribute to a develop appositve social environment through active participation and cooperation with others.





## Teaching Hours

### **4.1 Meaning and Objective of Education:**

Knowledge is power and quest for knowledge is the real meaning of education, not quest for Degree and qualifications; Real education builds characters: Difference between Academic Qualification and Ability, Academic failure could be failure with in the class room, but not outside (that is failed in exam, past in the life!)

**1-2-3**

### **4.2 Challenges for Ethical Practices in Institution of Higher Education:**

Ragging, Suicide and Need for Educational Counseling, Violence vs. Peaceful Protest, Conflict resolution, Plagiarism and Violation of Intellectual property Rights, Cheating in Examination and other Fraudulent Practices.

**4-5-6-7**

### **4.3 Inter personal Relation and Community Life in HEI:**

Green Preacher and conservation of Energy, Community Life in Campus including Hostels, Local Common area, Inter personal relations (Students-Teacher, Students-Student and Man-Woman, Positive Friendship).

**8-9-10-11**

### **4.4 Ethical Leadership in Academic Institution:**

Concept and Traits of Leadership to provide solution, everyone has Leadership Role (not limited to position), Concept of Ethical leadership Scope of Leadership in college and Universities for- Students, Teachers and Administrators. Importance of co-curricular and extra – curricular activities.

**12-13-14-15**



## SEMESTER-V

### Unit-5

**Title: -Vulnerable section of society: Human Dignity and Ethical Issues**

**Total no. of Periods-15**

**Full mark-25**

**Credit point -1**

#### **5.0 Aims of the Unit:**

To create an awareness amongst students about the need for ensuring dignity and equality for the vulnerable sections of the society.

#### **Learning Objectives:**

- Students would be able to appreciate values and ethics relating to vulnerable sections of the society.
- Students would learn to practice equality diversity and social justice.
- Students would become more empathetic and compassionate towards vulnerable sections of the society.

#### **Teaching Hours**

##### **5.1 Values relating to Children:**

Nutrition and health, Child Exploitation: Child labour, trafficking, Sexual exploitation.

**1-2-3-4**

##### **5.2 Person with disability:**

Rights of PWD, affirmative action, Prevention of discrimination, providing equal opportunity, various scheme for empowering PWD and social justice for PWD

**5-6-7-8**

##### **5.3 Challenges for the elderly:**

Elder abuses, elder sexual abuse, elder verbal abuse, senior citizen and their privileges, right of the aged over their children and duties of the children for the elders.

**9-10-11-12**

##### **5.4 The Third Gender:**

Understanding the third gender, Social justice for them, Removal of discrimination, Affirmative action and acceptance of diversity of gender.

**13-14-15**



## SEMESTER-VI

### Unit-6

#### Title: - Environmental & Techno Ethics

Total no. of Periods-15

Full mark-25

Credit point -1

#### Aims of the Unit:

- To develop awareness and sensitize students about the importance of environment for a sustainable earth and to bring Green Technology into action
- To focus their attention towards cleanliness, preservation of biodiversity and practice of conservation of natural resources
- To make them understand the judicious use of modern technology strictly on need basis
- To use science and technology for preservation of environment and its sustainable development but not for destruction.

#### Learning Objectives:

- Develop an understanding of environmental ethics and work towards sustainable development
- Commitment to Green Technology for sustainable future
- Understand ethical issues relating to use of digital medium





## Teaching Hours

### 6.1 Environmental Ethics:

Types of Ecological Values, Environmental Values vis a vis conserving Nature, Equitable use of Resources, Role of Individual in the conservation of resources for future generation, Bio-Ethics-Genetic manipulation in plants and animals for benefit of society and cruelty against animal.

1-2-3

### 6.2 Promotion of Green Technology:

**Goal of Green Technology:** Reduce recycling, **Renew** (removal of chemicals), **Refuse** and **Responsibility**.

**Green Technology in relation to:** -Energy and Construction.

4-5-6-7

### 6.3 Ethics in relation to technology development

**Environmental conservation and carbon footprint** with reference to Science, gadget, machine etc. and interaction with each other;

**Agricultural, Industrial, Digital, Globalized Age etc**

8-9-10-11

### 6.4 Judicious Use of Technology:

**Judicious use of** Mobile Phones, Electrical machines, Plastics, Television, Computers and their harmful effects

**Ethics and Use of Digital Technology:** Cyber ethics-, **Ethics of social media:** WhatsApp, Facebook, Twitter and others.

12-13-14-15



### LIST OF WOMEN'S EMPOWERMENT ACTIVITIES

| SN | NAME OF THE PROGRAM   | DATE       | NO OF STYUDENTS PARTICIPATED |
|----|---|------------|------------------------------|
| 1  | AS WOMEN ACHIEVE POWER, THE BARRIERS FALL                           | 26-09-2022 | 57                           |
| 2  | A ONE DAY LEGAL AWARENESS PROGRAMME ON WOMEN RIGHTS                 | 09-11-2022 | 70                           |
| 3  | A ONE DAY SELF-DEFENCE TRAINING PROGRAMME: SHE STANDS STRONG        | 10-03-2023 | 47                           |
| 4  | ACADEMIC CAREER AND GENDER EQUITY                                   | 11-02-2023 | 55                           |
| 5  | EFFECTIVE STRESS MANAGEMENT TECHNIQUES FOR WOMEN                    | 11-10-2021 | 58                           |
| 6  | FORMS OF GENDER DISCRIMINATION IN CONTEMPORARY SOCIETY              | 25-11-2021 | 60                           |
| 7  | ORAL HEALTH AND HYGIENE FOR FEMALES                                 | 11-02-2022 | 62                           |
| 8  | ECONOMIC POWER OF WOMEN AND GENDER EQUALITY                         | 08-03-2022 | 62                           |
| 9  | A YOGA EVENT TO ENHANCE THE PHYSICAL AND MENTAL HEALTH OF GIRLS     | 25-11-2020 | 50                           |
| 10 | CONTRIBUTION OF WOMEN IN INFORMATION TECHNOLOGY INDUSTRY            | 01-12-2020 | 58                           |
| 11 | ROLE OF EDUCATION IN ATTAINING GENDER EQUITY                        | 25-01-2021 | 55                           |
| 12 | CHALLENGES FOR WOMEN IN WORKPLACE                                   | 08-03-2021 | 55                           |
| 13 | A YOGA PROGRAMME FOR BUILDING CONFIDENCE AND RESILIENCE AMONG GIRLS | 21-06-2019 | 54                           |
| 14 | GENDER STEREOTYPES IN SCIENCE AND EDUCATION                         | 11-10-2019 | 59                           |
| 15 | GENDER EQUALITY, SENSITIVITY AND NEUTRALITY                         | 24-01-2020 | 55                           |
| 16 | DOES GOD FAVOURS A GENDER   | 11-02-2020 | 56                           |
| 17 | A YOGA SESSION ON STRESS MANAGEMENT FOR GIRLS                       | 21-06-2018 | 52                           |
| 18 | GENDER EQUALITY AND WOMEN EMPOWERMENT                               | 11-10-2018 | 51                           |
| 19 | HOW TO BUILD PATHWAYS FOR GENDER EQUITY                             | 11-02-2019 | 58                           |
| 20 | PRACTICAL ASPECT OF GENDER EUALITY WITH RESPECT TO INDIAN CULTURE   | 08-03-2019 | 47                           |



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### LIST OF ENVIRONMENTAL PROMOTIONAL ACTIVITIES

| SN | NAME OF THE PROGRAM                        | DATE       | NO OF STUDENTS PARTICIPATED |
|----|--|------------|-----------------------------|
| 1  | Dengue Awareness Programme                 | 10.05.2023 | 34                          |
| 2  | World Malaria Day: Awareness Programme     | 25.04.2023 | 31                          |
| 3  | National Water Day Awareness Programme     | 22.03.2023 | 32                          |
| 4  | Swachh Bharat Abhiyan                      | 02.10.2022 | 31                          |
| 5  | World Environment Day: Awareness Programme | 05.06.2022 | 31                          |
| 6  | Dengue Awareness Programme                 | 10.05.2022 | 33                          |
| 7  | World Malaria Day: Awareness Programme     | 25.04.2022 | 32                          |
| 8  | National Water Day: Awareness Programme    | 22.03.2022 | 32                          |
| 9  | Swachh Bharat Abhiyan                      | 02.10.2021 | 36                          |
| 10 | National Water Day Awareness Programme     | 22.03.2021 | 30                          |
| 11 | Swachh Bharat Abhiyan                      | 02.10.2019 | 33                          |
| 12 | World Malaria Day: Awareness Programme     | 25.04.2019 | 38                          |
| 13 | World Wild Life Day: Awareness Programme   | 03.03.2019 | 36                          |
| 14 | Swachh Bharat Abhiyan                      | 02.10.2018 | 38                          |
| 15 | World Mosquito Day: Awareness Programme    | 20.08.2018 | 31                          |
| 16 | World Population Day: Awareness Programme  | 09.07.2018 | 31                          |



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