BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK

DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

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| SUBJECT: ENVIRONMENTAL STUDIES (TH 5) | ACCADEMIC SESSION: 2021-22 |
| FACULTY: MS NICKY PATTANAIK | SEMESTER: 3 RD |
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| H O D (Civil Engg.) |

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| **Discipline:**  **Civil Engineering** | **Semester:**  **3rd** | | **Name of the teaching faculty:**  **NICKY PATTNAIK** |
| **Subject:**  **Environmental Studies** | **No. of Days/ per week class allotted: 04 period per week. (Tue-2, Thu-1, Fri-1)** | | **Semester From Date: 01-10-2021 To Date: 08-01-2022**  **No. of weeks: 14 weeks** |
| **Week** | **Class Day** | **No of period available** | **Theory Topics** |
| 1st | 01/10/2021 | 1 | 1.1Definition  1.2 Scope and importance  1.3 Need for public awareness |
| 2nd | 05/10/2021 | 2 | 2.1 Renewable and Non Renewable resources:  2.1.1Natural resources and associated problems |
| 07/10/2021 | 1 | 2.1.1 Natural resources and associated problems  2.2 Role of individual in conservation of natural resources. |
| 08/10/2021 | 1 | 2.3Equitable use of resources for sustainable life styles. |
| 3rd | 21/10/2021 | 2 | Question discussing on 1st and 2nd chapter |
| 22/10/2021 | 1 | Monthly Test |
| 4th | 26/10/2021 | 2 | 3.1 Systems  3.1.1 Concept of an Eco system  3.2Structure and function of an Eco system. |
| 28/10/2021 | 1 | 3.3 Producers, consumers, decomposers.  3.4 Energy flow in the eco systems.  3.5Ecological succession  3.6 Food chains, food webs and ecological pyramids |
| 29/10/2021 | 1 | 3.8 Introduction, types, characteristic features, structure and function of the following eco system:  3.8.1 Forest ecosystem: |
| 5th | 02/11/2021 | 2 | 3.8.2 Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). |
| 05/11/2021 | 1 | Question discussion on chapter 3 |
| 6th | 09/11/2021 | 2 | 4.1 Introduction-Definition  4.1.1 Genetics diversity  4.1.2 Species diversity  4.1.3 Ecosystem diversity |
| 11/11/2021 | 1 | 4.3 Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values  4.4 Biodiversity at global, national and local level |
| 12/11/2021 | 1 | 4.3 Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values  4.4 Biodiversity at global, national and local level |
| 7TH | 16/11/2021 | 2 | 4.4 Biodiversity at global, national and local level  4.5 Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts. |
| 8TH | 23/11/2021 | 2 | Question discussion on chapter 4  Revision on previous chapters |
| 25/11/2021 | 1 | Monthly Test |
| 26/11/2021 | 1 | 5.1 Environmental Pollution  5.1 Definition  5.1 Causes, effects and control measures |
| 9TH | 30/11/2021 | 2 | 5.1.1 Air pollution  5.1.2 Water pollution  5.1.3 Soil pollution  5.1.4 Marine pollution |
| 02/12/2021 | 1 | INTERNAL ASSESMENT |
| 03/12/2021 | 1 | INTERNAL ASSESMENT |
| 10TH | 07/12/2021 | 1 | 5.1.5 Noise pollution  5.1.6 Thermal pollution  5.1.7 Nuclear hazards |
| 09/12/2021 | 1 | 5.2 Solid waste Management  5.2 Causes and Effects  5.2 Control measures of urban and industrial wastes  5.3 Role of an individual in prevention of pollution |
| 10/12/2021 | 1 | 5.4 Disaster management: Floods, earth quake, cyclone and landslides  Question discussion on chapter 5 |
| 11TH | 14/12/2021 | 1 | 6.1 Social issues and the Environment  6.1.1 Form unsustainable to sustainable development  6.2 Urban problems related to energy |
| 16/12/2021 | 1 | 6.3 Water conservation, rain water harvesting, water shed management |
| 17/12/2021 | 1 | 6.4 Resettlement and rehabilitation of people; its problems and concern |
| 12TH | 21/12/2021 | 2 | 6.5 Environmental ethics: issue and possible solutions |
| 23/12/2021 | 1 | 6.6 Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies |
| 24/12/2021 | 1 | 6.7 Water (prevention and control of pollution) Act  6.8 Public awareness |
| 13TH | 28/12/2021 | 2 | Question discussion on chapter 6  7.1 Human population and the environment  7.1Population growth and variation among nations |
| 30/12/2021 | 1 | Monthly Test |
| 31/12/2021 | 1 | 7.2 Population explosion- family welfare program  7.3 Environment and human health |
| 14TH | 04/01/2022 | 2 | 7.5 Value education  7.6 Role of information technology in environment and human health  Question discussion on chapter 7 |
| 06/01/2022 | 1 | Exam on chapter 5,6,7 |
| 07/01/2022 | 1 | REVISION |