



Narula Institute of Technology

81, Nilgunj Road, Agarpara, Kolkata-700109

Supporting Documents

Criteria: 1.3.1



Index

| SL No. | Name of the Documents | Page No. |
|---------------|--|-----------------|
| 1. | List and Description of the Courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum | 1-4 |

**List and Description of the Courses which address the Gender,
Environment and Sustainability, Human Values and Professional Ethics
into the Curriculum**

| Factors | Subject Name | Subject Code | Program Name/ Dept. | Regulation | Description of the Courses |
|--------------------------------|--|--------------|---------------------|------------|--|
| Environment and Sustainability | Basic Environmental Engineering & Elementary Biology | CH 401 | ECE | 15 | Studying the Environmental Science is very important as it is related to where we live and where we are sharing the resources with all the other species on the Earth. The study of the course enlightens with the knowledge how to conserve the natural resources and how to stop the degradation of the resources by taking the safety measures and awareness among humans. Environmental studies will assist an engineer in finding solutions to environmental issues in an environmentally responsible manner. |
| | Environmental Science | HU 501 | ECE | 16 | |
| | Environmental Science | MC 401 | ECE | 18 | |
| | Basic Environmental Engineering & Elementary Biology | CH 401 | EE | 15 | |
| | Environmental Science | HU 501 | EE | 16 | |
| | Environmental Science | MC 301 | EE | 18 | |
| | Environmental Science | HU 401 | ME | 16 | |
| | Environmental Science | MC 301 | ME | 18 | |
| | Basic Environmental Engineering & Elementary Biology | CH 301 | CE | 15 | |
| | Environmental Science | HU 401 | CE | 16 | |
| | Environmental Science | MC 401 | CE | 18 | |
| | Basic Environmental Engineering & Elementary Biology | CH 301 | IT | 15 | |
| | Environmental Science | HU 401 | IT | 16 | |
| | Environmental Science | MC 401 | IT | 18 | |
| | Basic Environmental Engineering & Elementary Biology | CH 301 | CSE | 15 | |
| | Environmental science | HU 401 | CSE | 16 | |
| | Environmental Science | MC 501 | CSE | 18 | |
| | Environmental Science | HU 501 | EIE | 16 | |
| | Environmental Science | MC 401 | EIE | 18 | |
| | Environment and Ecology | E 105A | MCA | 20 | |

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|---|---------|-----|----|---|
| Renewable and Non-conventional Energy | EE 704D | EE | 15 | In the renewable or unconventional category, there are sources such as sun, wind, water, agricultural residues, firewood and animal drugs. Non-renewable sources include fossil fuels such as coal, crude oil and natural gas. The energy that the sun produces is called solar energy. |
| Wind and Solar Energy Systems | EE 801A | EE | 18 | Wind and solar power complement each other, making the power generation system almost all year round. The major components of wind power Solar Hybrid System is wind solar generator and tower, solar photovoltaic panels, batteries, cables, charge controller and inverter. |
| Electrical Energy Conservation and Auditing | EE 505A | EE | 18 | An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. |
| Renewable Energy | EC 802C | ECE | 15 | Renewable Energy is the course that allows participants to review, analyze and assess opportunities in the rapidly expanding market for renewable energy and how to save the natural sources of energy also learns how to regenerate the energy. |
| Renewable Source & Applications | EC 704C | ECE | 16 | |
| Renewable Energy Sources & Applications | EC 504B | ECE | 18 | |
| Energy Conversion and Management | ME 603 | ME | 15 | The course focuses on the development and implementation of energy management programs and the conduct of energy audits. The course covers the effective operation of electric motors, lighting systems, boilers, heaters and air conditioning facilities. |
| Energy Conservation & Management | ME 705A | ME | 16 | |



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|--------------------------------------|---------------------------------|---------|-----|----|--|
| | Renewable Energy Systems | ME 605A | ME | 16 | The Renewable and Sustainable Energy Systems course provides a graduate-level understanding of the conversion principles and technology behind various renewable energy sources, based on the technical and sustainability challenges, the future outlook for each of the sources and systems is discussed. |
| | Renewable Energy System | ME 703A | ME | 18 | |
| Human Values and Professional Ethics | Values & Ethics in Profession | HU 301 | CSE | 15 | This course aims to educate students about the importance of human values and professional ethics, as well as the various theories of self development, so as to mould them into efficient, humane professionals. In addition to conveying knowledge about human values and professional ethics that should shape the conduct of the engineering profession, this course also teaches theories of moral development. |
| | Values & Ethics in Profession | HU 702 | CSE | 16 | |
| | Values & Ethics in Profession | HU 401 | IT | 18 | |
| | VALUES & ETHICS IN PROFESSION S | HU 802 | IT | 16 | |
| | Values & Ethics in Profession | HU 301 | IT | 15 | |
| | Values & Ethics in Profession | HU401 | CE | 18 | |
| | VALUE AND ETHICS IN PROFESSION | HU 502 | CE | 16 | |
| | Values & Ethics in Profession | HU 301 | CE | 15 | |
| | Values & Ethics in Profession | HU 301 | CSE | 15 | |
| | Values & Ethics in Profession | HU 401 | ECE | 15 | |
| | Values & Ethics in Profession | HU 301 | ECE | 18 | |
| | Values and Ethics in Profession | HU 401 | EE | 18 | |
| | VALUES & ETHICS IN PROFESSION | HU 502 | ME | 16 | |
| | Values & Ethics in Profession | HU601 | ME | 18 | |
| | Values & Ethics in Profession | HU 401 | EIE | 15 | |



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|--------|-----------------------|--------|-----|----|--|
| Gender | Social Awareness | MC 781 | CSE | 18 | The outcome attempts to acknowledge that to know ourselves we'd like to know our psychological, social, economic, and political roles. Knowledge and understanding of the differences in roles and relations between women and men, especially within the workplace: it's important to continuously raise gender awareness and understanding among officialdom and therefore the public generally. |
| | Constitution of India | MC 501 | ECE | 18 | For Social and Gender equity the course has been added in the curriculum to enrich the mental strength irrespective of the gender. Few acts has been incorporated like I. The Air Act, 1981 [amended in 1987] is an Act to control and prevent air pollution in India. II. The Biological Diversity Act, 2002 is an Act for the preservation of biological diversity in India. III. Environment Protection Act, 1986 enacted in the wake of the Bhopal gas Tragedy or Bhopal Disaster under Article 253 of the Indian Constitution. |
| | Constitution of India | MC 501 | EIE | 18 | |
| | Constitution of India | MC501 | IT | 18 | |
| | Constitution of India | MC501 | EE | 18 | |