

| Course code: Course Title | Course Structure | | | Pre-Requisite |
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| EN102: Environmental Awareness | L | T | P | NIL |
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Course Objective: This course aims at providing fundamentals of principles of environmental protection and an introduction to the environmental related treaties, Conventions and Protocols. This will enhance students' awareness towards global and Indian Environmental Legislations.

| S. NO | Course Outcomes (CO) |
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| CO1 | Explain National and International Legislations for Environmental Protection. |
| CO2 | Apply environmental legislations in case studies. |
| CO3 | Analyse basic components and principles of environmental legislations. |
| CO4 | Evaluate effectiveness of national and international environmental legislations. |

| S. NO | Contents | Contact Hours |
|---------------|--|----------------------|
| UNIT 1 | Global Environmental Treaties, Conventions and Protocols: Convention on International Trade in Endangered Species of wild fauna and flora (CITES), 1973, Montreal Protocol on Substances that deplete the Ozone Layer (to the Vienna Convention for the Protection of the Ozone Layer), 1987, Basel Convention on Transboundary Movement of Hazardous Wastes, 1989, UN Framework Convention on Climate Change (UNFCCC), 1992, Convention on Biological Diversity, 1992, UN Convention on Desertification, 1994, International Tropical Timber Agreement and The International Tropical Timber Organisation (ITTO), 1983 (introduction only). | 9 |
| UNIT 2 | Indian Constitutional Perspective: Environment Protection under Constitutional Framework of India, Fundamental Rights – Article 14 (Right to equality, non-arbitrary and non-discriminatory treatment), Article 19(1)(g) (Freedom to carry on trade or business), Article 21 (Right to life, livelihood and wholesome environment) and Article 32 (Right to Constitutional remedies), Directive Principles of State Policy – Article 47, 48-A, Fundamental Duty – Article 51-A(g) (introduction only). | 9 |
| UNIT 3 | Environmental Justice: Article 226 (Powers of High Courts), Public Interest Litigation – Nature – Non-Adversarial, Collaborative, Co-operative and Investigative, Locus Standi – Pro Bono Publico, Representative Standing, Citizens’ Standing (introduction only). Principles of Environmental Protection - Development v. Environment; Sustainable Development, Inter-generational and Intra-generational Equity, Precautionary Principle, Polluter Pays Principle, Public Trust Doctrine, Perspectives on ISO 14000, ISO 22000, Industry 4.0, Industry 5.0. | 8 |

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| UNIT 4 | Legal and Regulatory Framework for Environmental Protection in India: Environmental (Protection) Act 1986, Water (Prevention and Control of Pollution) Act 1974, Air (Prevention and Control of Pollution) Act 1981, The Wildlife (Protection) Act, 1972, The Indian Forest Act, 1927, The Forest (Conservation) Act 1980, Hazardous Wastes (Management and Handling) Rules, 1989, The Biological Diversity Act, 2002, Energy and Mining Laws, EIA Notification 2006 (introduction only). | 7 |
| UNIT 5 | Administrative Framework for Environmental Management in India: MoEFCC, Central Pollution Control Board, SPCBs/SPCCs, National Biodiversity Authority, National Tiger Conservation Authority, Animal Welfare Board of India, Forest Survey of India, Central Zoo Authority of India, The National Green Tribunal Act, 2010, The Public Liability Insurance Act, 1991, The National Environmental Tribunal Act, 1995, The National Environment Appellate Authority Act, 1997, Factories Act, 1948 and its Amendment in 1987 (introduction only). | 7 |
| | TOTAL | 40 |

REFERENCES

| S.No. | Name of Books/Authors/Publishers | Year of Publication / Reprint |
|--------------------------------|--|-------------------------------|
| Prescribed Legislations | | |
| 1 | The Water (Prevention and Control of Pollution) Act, 1974 | 1974 |
| 2 | The Air (Prevention and Control of Pollution) Act, 1981 | 1981 |
| 3 | The Environment (Protection) Act, 1986 | 1986 |
| 4 | The Public Liability Insurance Act, 1991 | 1991 |
| 5 | The National Green Tribunal Act, 2010 | 2010 |
| 6 | The Biological Diversity Act, 2002 | 2002 |
| 7 | The Wildlife (Protection) Act, 1972 | 1972 |
| 8 | The Forest (Conservation) Act, 1980 | 1980 |
| 9 | The Indian Forest Act, 1927 | 1927 |
| 10 | The Scheduled Tribes & Other Traditional Dwellers (Recognition of Forest Rights) Act | 2006 |
| Policies and reports | | |
| 1 | The National Environment Policy, 2006 | 2006 |
| 2 | The National Forest Policy, 1988 | 1988 |
| 3 | The National Water Policy, 2012 | 2012 |
| 4 | The Wildlife Conservation Strategy, 2002 | 2002 |
| 5 | The World Commission on Environment and Development, Our Common Future, 1987 | 1987 |
| 6 | IPCC Fifth Assessment Report (AR5). Synthesis Report: Climate Change 2014. | 2014 |
| Prescribed Books | | |
| 1 | Philippe Sands and Jacqueline Peel, Principles of International Environmental Law (4th ed.). | 2018 |

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| 2 | Shibani Ghosh ed., Indian Environmental Law: Key Concepts and Principles. | 2019 |
| 3 | Geetanjay Sahu, Environmental Jurisprudence and the Supreme Court: Litigation, Interpretation, Implementation | 2014 |
| 4 | Shyam Diwan and Armin Rosencranz, Environmental Law and Policy in India– Cases, Materials and Statutes (2nd ed.) | 2001 |
| 5 | P. Leelakrishnan, Environmental Law Case Book (2nd ed.) | 2010 |
| 6 | Gurdip Singh, Environmental Law in India (2nd ed.) | 2016 |
| 7 | P. Leelakrishnan, Environmental Law in India (5th ed.) | 2019 |
| 8 | Stuart Bell & Donald Mc Gillivray, Environmental Law (7th ed.) | 2008 |

B. Tech. Engineering Physics