



1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, into the Curriculum

ACE has incorporated cross-cutting issues alongside its curriculum and the following table provides the details where each course is offered 3 credits.

Sl. No	Course Code	Name of the Course	Course relevance to Professional Ethics, Gender, Human Values, Environment and Sustainability	Description of the Courses/ Outcomes
Professional Ethics				
1.	318AEE07*	Airport Operations and Management	Professional Ethics	This course describes about airport management systems which serves optimize passenger processing, baggage tagging and handling, arrival/ departure operations and more
2.	518AEE05	Aircraft Rules and Regulations	Professional Ethics	This course elaborates the rules and regulations followed in aviation industries.
3.	518AEE06	Airline operation and Management	Professional Ethics	This course provides knowledge in airline operation management
4.	718AEE14	Industrial Engineering and Management	Professional Ethics	This course provides an ability to develop and conduct appropriate experimentation, analyse and interpret data, use engineering judgement to draw conclusions.
5.	818ART02	Professional Practice & Ethics	Professional Ethics	This course is focused on Professional Ethics
6.	718BME11	Intellectual Property Rights	Professional Ethics	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends.


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Sl. No	Course Code	Name of the Course	Course relevance to Professional Ethics, Gender, Human Values, Environment and Sustainability	Description of the Courses/ Outcomes
7.	718BME12	Total Quality Management	Professional Ethics	This course focuses on entrepreneurship/employability. To know about how to maintain the quality of the equipment.
8.	718BME14	Professional Ethics and Human Values	Professional Ethics	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends
9.	618BMP08	Employability Skills Lab	Professional Ethics	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends
10.	618BMP09	Hospital Training	Professional Ethics	This course focuses on entrepreneurship/employability and helps to get exposure in how the medical equipment are working. To know the ethics of the hospital.
11.	618BME05	Medical Safety & Quality Assurance	Professional Ethics	This course helps the students to know about the quality and working of the medical equipment for the safety of patient and environment.
12.	618BME07	Clinical Engineering	Professional Ethics	This course helps the students to understand about design and layout of special systems relating to medical devices
13.	718BMP09	Interpersonal Skills/Listening & Speaking	Professional Ethics	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends
14.	818BMT01	Hospital Engineering & Management	Professional Ethics	This course helps the students to know about how the hospital management work eco-friendly with the environment.
15.	818BTT01	Bioethics, ipr and entrepreneurship	Professional Ethics	It creates awareness about IPR and Engineering ethics, professional ethics and practices in their careers and gain knowledge related to the ethical issue related to biotechnology


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16.	818CHT01	Total Quality Management	Professional Ethics	Students learn about the quality, analysis techniques for quality costs, role of senior management and its functions, principles of TQM, importance of seven tools of quality, benchmarking tools, and importance of quality systems and need of quality systems.
17.	818CHE04	Entrepreneurship Development	Professional Ethics	Students learn about the principle of Entrepreneurship and creativity to develop new chemical product and processes, analyze source of finance and financial management of new enterprises and prepare business plans to improvise production efficiency with a sound knowledge on various instruments in the required fields. Importance of Human resource development, Leadership, Procedures for getting subsidies & Marketing were discussed.
18.	618CHE02	Industrial Management	Professional Ethics	This course is dealt with the function of leadership and organizing culture, importance of quality control in process and planning operations, the necessity of planning process and objectives, decision making processes under different conditions, the nature and purpose of organization, recruitment were highlighted.
19.	318CET06	Value Education Program	Professional Ethics	The student understands the engineering ethics, ethical issues in engineering, social consequences and responsibility in the society.
20.	618ARO01	Personality Development	Professional Ethics	This course describes the students to approach their professional activities effectively by improving their attitude in a good way and developing their communication skills

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21.	618EIO02	Principles of Management	Professional Ethics	The students gain knowledge on the principles of management, develop their leadership qualities and gain knowledge on various types of business activities and marketing concepts.
22.	718CET03	Disaster Mitigation and Management	Professional Ethics	This course is dealt with basic conceptual understanding of disasters and its relationship with global development, the relationship between vulnerability, disasters, disaster prevention and risk reduction.
23.	718MEO01	Entrepreneurship and e-business	Professional Ethics	The student learns the function, types, role of entrepreneur in economic growth of a country. And also studies the different stages of entrepreneurial process. The students gain the knowledge to start up small scale industries with the support (consultancy & finance) from government, institutes & others.
24.	518BAO03	Engineering Ethics and Human Values	Professional Ethics	This course creates awareness of professional ethics and human values, ethical theories in pursuing career, safety procedures in the professional environment and safe guard IPR, resolving various social issues globally with the application of ethical principles were emphasized.
25.	718CIE06	Cyber Security and Law	Professional Ethics	This course gives awareness to Discriminate and analyze problems involved in cybercrime. Synthesis cybercrime issues on wireless and mobile devices
26.	818CSE08	Digital Forensics	Professional Ethics	It provides better Understanding of network and email attacks and forensic investigation with tools.



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27.	618ECT04	Principles of management	Professional Ethics	This course provides knowledge in modern Business management techniques.
28.	618BAO03	Professional Ethics and Human Values	Professional Ethics	This course creates awareness of professional ethics and human values, ethical theories in pursuing career, safety procedures in the professional environment and safe guard IPR, resolving various social issues globally with the application of ethical principles were emphasized.
29.	818EEE07	Professional Ethics and Human Values	Professional Ethics	The Human values, Engineering ethics and the global issues are dealt in this course.
30.	518BAO02	Management Concepts and Practices	Professional Ethics	This Course focus on Ethics to be followed while working in teams
31.	818CIE04	Green Computing	Professional Ethics	This course focus on environment and eco-friendly use of computer and their resources
32.	718CIE06	Cyber Security and Law	Professional Ethics	This course covers how to defend devices and services from electronic attacks
33.	818ITE05	Computer Forensics	Professional Ethics	This course focus on gathering pertinent information from network servers, databases, smartphones, tablets, and other digital devices.

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Sl. No	Course Code	Name of the Course	Course relevance to Professional Ethics, Gender, Human Values, Environment and Sustainability	Description of the Courses/ Outcomes
34.	818MEE07	Entrepreneurship and E-Business	Professional Ethics	The student learns the function, types, role of entrepreneur in economic growth of a country. And also studies the different stages of entrepreneurial process. The student gains about the knowledge to start up small scale industries with the support (consultancy & finance) from government, institutes & others.
35.	618MET01	Principles of Management and Business Concepts	Professional Ethics	The student knows about the modern techniques in controlling, various types of business activities and marketing concepts.
36.	618MEE02	Professional Ethics and Human Values	Professional Ethics	The student understands the scope of ethics in engineering.
37.	122BAT01	Management Practices and Organizational Behavior	Professional Ethics	This course focus on Values, ethics, professional integrity and contribution to society
38.	122BAT07	International Business Management	Professional Ethics	This course focus on Academic result & International / global reach
39.	222BAT11	Financial Management	Professional Ethics	This course focus on Practical managerial analytical skills, & Industry interaction



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Sl. No	Course Code	Name of the Course	Course relevance to Professional Ethics, Gender, Human Values, Environment and Sustainability	Description of the Courses/ Outcomes
40.	322BAT14	Strategic Management	Professional Ethics	This course focus on Academic result & International / global reach
41.	322BAH01	Industrial Relations & Labour Legislations	Professional Ethics	This course focus on Successful career, immediate employment & entrepreneurship, Team Work
42.	322BAH02	Training and Development	Professional Ethics	This course focus on Successful career, immediate employment & entrepreneurship, Team Work
43.	322BAM01	Retail Marketing	Professional Ethics	This course focus on International / global reach, Values, ethics, professional integrity and contribution to society
44.	322BAS01	E-Business Management	Professional Ethics	This course focus on Successful career, immediate employment & entrepreneurship
45.	320CAE09	Human Resource Management	Professional Ethics	This course elucidate the Enhanced recruitment activities and better training and development programme in an organization and industries
46.	220CAE08	Organizational Behaviour	Professional Ethics	Familiarized to adjust better in organizational settings by developing an understanding of how and why others behave in a particular manner
47.	318EDE13	Research Methodology and IPR	Professional Ethics	The student knows how to identify and to solve the research problem, procedure for applying patents and the advances and practical applications of patents by taking case studies.



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S.No.	Course Code	Name of the Course	Course relevance to Professional Ethics, Gender, Human Values, Environment and Sustainability	Description of the Courses/Outcomes
Course Relevant to Gender				
1	X18GCT01	Gender, Culture and Development	Gender	This course describes the gender-related impact on lives and opportunities given for men and women, Job creation and development. It also emphasize the threats faced in their lives, culture and socio-economic rights and detailed study on how women can improve self-confidence, urban and rural entrepreneurship, women empowerment, gender issues such as gender based discrimination, violence and development.
2	X18GCT02	Women and Work	Gender	The course discusses about the Gender issues, solutions to discriminations in work environment.
3	X18GCT03	Introduction to women & gender studies	Gender	The student analyses the current social events in the light of gender perspectives. The student understands the gender-based impact on society, culture and development




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Course relevant to Human values				
1	618AEE06	Intellectual Property Rights	Human Values	This course describes on valuable assets of company and understand how to work.
2	818AEE06	Human values and professional ethics	Human Values	It develops the ability to distinguish between what is of value and what is superficial in life.
3	118ARE01	Personality development	Human Values	This course is focused on Human Values
4	718BME14	Professional Ethics and Human Values	Human Values	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends
5	618BMP08	Employability Skills Lab	Human Values	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends
6	618BME05	Medical Safety & Quality Assurance	Human Values	This course helps the students to know about the quality and working of the medical equipment for the safety of patient and environment.
7	718BMP09	Interpersonal Skills/Listening & Speaking	Human Values	This course focuses on entrepreneurship/employability and helps to get exposure in current needs and trends
8	718BTE01	Clinical research and database management	Human Values	It helps to understand the roles and responsibilities of the clinical research teams, CRDM Start-up activities/documentation, research work, trial outsources
9	818BTE02	Telemedicine	Human Values	It helps to gain the basics of digital technology used in healthcare, various communication networks involved in healthcare system and the ethics behind the digital healthcare.



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10	818BTE06	Total quality management	Human Values	It helps to focuses on the basic roles, skills and functions of management, with special attention to managerial responsibility for effective and efficient achievement of goals.
11	818CHT01	Total Quality Management	Human Values	Students learn about the quality, analysis techniques for quality costs, role of senior management and its functions, principles of TQM, importance of seven tools of quality, benchmarking tools, and importance of quality systems and need of quality systems.
12	818CHE12	Professional Ethics and Human Values	Human Values	This course provides awareness of professional ethics and human values, ethical theories in pursuing career, safety procedures in the professional environment and safe guard IPR, resolving various social issues globally with the application of ethical principles were emphasized.
13	318CET06	Value Education Program	Human Values	The student understands the engineering ethics and ethical issues in engineering, social consequences and responsibility in the society.
14	718CET03	Disaster Mitigation and Management	Human Values	This course focus on the basic conceptual understanding of disasters and its relationship with global development, the relationship between vulnerability, disasters, disaster prevention and risk reduction.
15	518BAO03	Engineering Ethics and Human Values	Human Values	It provides awareness of professional ethics and human values, ethical theories in pursuing career, safety procedures in the professional environment and safe guard IPR, resolving various social issues globally with the application of ethical principles were emphasized.


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16	718CIE06	Cyber Security and Law	Human Values	It provides awareness to Discriminate and analyze problems involved in cybercrime. Synthesis cybercrime issues on wireless and mobile devices
17	818CSE08	Digital Forensics	Human Values	It provides better understanding of network and email attacks and forensic investigation with tools.
18	618BAO03	Professional Ethics and Human Values	Human Values	It provides awareness of professional ethics and human values, ethical theories in pursuing career, safety procedures in the professional environment
19	818EEE07	Professional Ethics and Human Values	Human Values	The Human values, Engineering ethics and the global issues are dealt in this course.
20	518BAO03	Engineering Ethics and Human Values	Human Values	This course focus on Ethics and Human Values
21	518BAO06	Management Information Systems	Human Values	This course focus on <i>teamwork, leadership, project management, customer service</i>
22	618MEE02	Professional Ethics and Human Values	Human Values	The student understands the scope of ethics in engineering, research ethics, codes of ethics and industrial standards and concepts of engineers responsibility on safety and risk.
23	618MEE05	Industrial Relation and Organizational Development	Human Values	This course provides the contemporary knowledge and gain a conceptual understanding of industrial relations and human resource management.
24	222BAT09	Human Resource Management	Human Values	This course depicts about Successful career, immediate employment & Entrepreneurship, Team Work



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25	120CAE07	Business Process	Human Values	This course is focused to develop new or improved innovative business processes from gap analysis through process design in support of a company's strategic objectives in a socially responsible manner
26	218SEE08	Construction Safety and Management	Human Values	This course creates awareness about the workplace safety in order to prevent workplace injuries, illness and fatalities
27	318SEE10	Structures in Disaster Prone Areas	Human Values	This course develops an understanding about standards of humanitarian response and practical relevance in specific types of disasters and conflict situations
28	318EDE13	Research Methodology and IPR	Human Values	This course deals to identify and to solve the research problem, procedure for applying patents, the advances and practical applications of patents by taking case studies.



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Course relevant to Environment and Sustainability				
1	318AEE08	Pollution control in aircraft industries	Environment and Sustainability	This course is to impart the knowledge and understanding of causes and effects of air pollution and their controlling mechanisms
2	318AEE09	Environmental safety management	Environment and Sustainability	This course describes the concept of an ecosystem and structure and function of an ecosystem
3	318AEE10	Renewable Energy Systems for Aircraft	Environment and Sustainability	It provides knowledge about Renewable Energy
4	318ART03	Climate Responsive Architecture	Environment and Sustainability	This course is focused on Environment and Sustainability
5	318ARE03	Vernacular Architecture of India	Environment and Sustainability	This course is focused on Environment and Sustainability
6	418ART02	Environmental Science and Services	Environment and Sustainability	This course is focused on Environment and Sustainability
7	418ARE01	Energy Efficient Architecture	Environment and Sustainability	This course is focused on Environment and Sustainability
8	518ARE02	Waste management and recycling	Environment and Sustainability	This course is focused on Environment and Sustainability
9	718ARE01	Sustainable Planning and Architecture	Environment and Sustainability	This course is focused on Environment and Sustainability
10	818ARE01	Architectural Conservation	Environment and Sustainability	This course is focused on Environment and Sustainability



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11	218GET03	Environmental Science and Sustainability	Environment and Sustainability	This course helps the students to know about the environment and how we can protect it. This course focuses on Environment and Sustainability.
12	218BSE04	Energy Storage Devices and Fuel Cells	Environment and Sustainability	This course helps the students to know about how the energy is stored in different devices. This course focuses on Environment and Sustainability.
13	618BME05	Medical Safety & Quality Assurance	Environment and Sustainability	This course helps the students to know about what are all the safety measures followed in medical equipment's in hospital. This course focuses on Environment and Sustainability.
14	718BME10	Hospital Waste Management	Environment and Sustainability	This course helps the students to know about how the hospital waste is affects the humans and how we can manage the hospital waste. This course focuses on Environment and Sustainability.
15	818BMT01	Hospital Engineering & Management	Environment and Sustainability	This course helps the students to know about how the hospital management work eco-friendly with the environment. This course focuses on Environment and Sustainability.
16	218GET03	Environmental science and Engineering	Environment and Sustainability	It helps to study the Nature and facts about environment. It provides finding and implementing scientific, technological, economic and political solutions to environmental problems.
17	418BTT06	Environmental biotechnology	Environment and Sustainability	It helps to gain knowledge on conversion of waste into energy using microorganisms, developing eco-friendly bio products from renewable sources and to improve the skills in the area of waste water treatment technology.




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18	718BTE08	Disaster management	Environment and Sustainability	It ensure that students understand the relationship between vulnerability, disasters, disaster prevention and risk reduction
19	818CHE05	Air Pollution control and design of equipments	Environment and Sustainability	Students gain knowledge about the sources and effects of air pollution, and the techniques of monitoring air pollution along with designing of air pollution controlling equipment's.
20	718CHE05	Solid Waste Management	Environment and Sustainability	This course is to identify the nature and characteristics of municipal solid wastes and the regulatory requirements regarding municipal solid waste management, waste minimization, design and storage, collection, transport, processing techniques and disposal to reduce municipal waste.
21	718CHE08	Industrial Waste water Treatment	Environment and Sustainability	The basics of wastewater treatments, the general physical, chemical and biological unit operations, characteristics of wastewater ,importance of advanced waste water treatment processes in various effluent treatment plants with solution to minimize the waste water has been discussed.
22	618CHE01	Energy Conservation and Management in Process Industries	Environment and Sustainability	Students gained knowledge to differentiate the types of energy and its conservation, assess various environmental issues and impact, importance of energy conservation, energy action planning methods, energy monitoring and targeting.




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23	618CHE05	Disaster Mitigation & management	Environment and Sustainability	Students learn to analyze and differentiate the types of disasters, causes and their impact on environment and society, assess vulnerability and various methods of risk reduction measures as well as mitigation, draw the hazard and vulnerability profile of India, scenarios in the Indian context, analyze Disaster damage assessment and mitigation and develop disaster management alternatives flow .
24	518CHO01	Energy Conservation in Process Industries	Environment and Sustainability	This course is for analyzing the energy data of industries, carrying out energy accounting and balancing, identifying the major utilities available for energy conservation in process industries and different techniques for conservation.
25	518CHO03	Environmental Impact Assessment	Environment and Sustainability	The importance and purpose of EIA, advantages of Audit in industries, environmental protection laws, applications of EIA, and international standards of environmental issues were tinted in this course.
26	418CHE03	Renewable Energy Technology	Environment and Sustainability	The renewable energy sources with their situation, different types of energy conversion systems and its application for wind and geothermal, solar and ocean, biomass and biogas, Fuel and MHD has been emphasized in this course.
27	318CHE03	Green Chemistry & Engineering	Environment and Sustainability	The different principles of green chemistry with synthetic design, applications of green solvents, the alternate energy sources and inherent safety were discussed.


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28	218GET03	Environmental Science & Engineering	Environment and Sustainability	Students gain knowledge on the various natural resources, their ecosystem and biodiversity, Various forms of social issues and environment.
29	218GET03	Environmental Science and Engineering	Environment and Sustainability	This course gives details about the various natural resources and the current threats to their sustainability.
30	218BSE06	Water Technology and Green Chemistry	Environment and Sustainability	This course gives details about the various types of environmental pollutions and social issues on environment.
31	618CEE03	Environmental and Social Impact Assessment	Environment and Sustainability	This course gives details about the various natural resources and the current threats to their sustainability and the methods of assessing the impact.
32	218GET03	Environmental Science and Engineering	Environment and Sustainability	This course helps the students to know about the environment and how we can protect it. This course focuses on Environment and Sustainability.
33	818CIE04	Green Computing	Environment and Sustainability	This course creates knowledge to adopt green computing practices to minimize negative impacts on the environment. Practice green framework in the modern society.
34	218GET03	Environmental Science and Engineering	Environment and Sustainability	This Course provides a comprehensive and integrated view of significance in environment pollution, industrial relations & responsibilities with environment and natural resource issues and create the moral practices among the students to protect our planet Earth



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35	418ECE03	Green electronics	Environment and Sustainability	This course provides knowledge on the theories, eco-design concepts and methods for designing a range of sustainable green electronic products on par with national and global standards.
36	818ECT01	Disaster Mitigation and Management	Environment and Sustainability	This course creates an awareness for disaster resistant community in all hierarchical levels
37	218GET03	Environmental Science and Engineering	Environment and Sustainability	This Course is about the environmental issues, ecosystem, biodiversity and pollution and social issues.
38	618EET05	Renewable Energy Sources	Environment and Sustainability	Necessity and potential advantages of renewable energy resources are discussed and the need for them is highlighted.
39	818EET01	Electric Power Utilization and Energy Auditing	Environment and Sustainability	The energy conservation and auditing concepts are emphasized.
40	818EEE02	Disaster Management	Environment and Sustainability	The Natural and men-made disasters are described briefly. The role of technology in disaster management and the awareness strategies are also discussed.
41	218GET03	Environmental Science & Sustainability	Environment and Sustainability	This Course focus on Environment and Sustainability
42	718CET01	Disaster Mitigation and Management	Environment and Sustainability	This course focuses on <i>the causes of disasters and how to minimize their impact.</i>



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43	218GET03	Environmental Science and Engineering	Environment and Sustainability	This course provides knowledge about the various natural resources and the current threats to their sustainability, the various types of environmental pollutions and the social issues on environment.
44	122BAT03	Legal Aspects of Business	Environment and Sustainability	Successful career, immediate employment & entrepreneurship has been discussed
45	122BAT06	Information Management	Environment and Sustainability	Successful career, immediate employment & entrepreneurship has been discussed
46	222BAT10	Marketing Management	Environment and Sustainability	International / global reach, Values, ethics, professional integrity and contribution to society has been discussed
47	322BAT15	Business Research Methods	Environment and Sustainability	Research and Innovation has been discussed
48	322BAF01	Derivatives Management	Environment and Sustainability	Academic result & International / global reach has been discussed
49	322BAO02	Supply Chain Management	Environment and Sustainability	Practical managerial analytical skills, & Industry interaction has been discussed
50	322BAS03	Supply Chain Information System	Environment and Sustainability	Practical managerial analytical skills, & Industry interaction has been discussed
51	320CAL04	Executive Communication Lab	Environment and Sustainability	Strengthen in writing and speaking skills which used to interact, delegate and translate the information has been discussed
52	320CAL05	Report Writing Lab	Environment and Sustainability	Acquire languages skills to write a report for an application project, journal and thesis has been discussed

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53	320CAE06	Professional Communication	Environment and Sustainability	Strengthen in professional communication which focused on speaking skills with gesture has been discussed.
54	118COT05	Advanced Radiation Systems	Environment and Sustainability	This course provides knowledge about antenna radiation effects caused to the environment and how it can be reduced to enhance environmental sustainability.
55	218COE01	RF System Design	Environment and Sustainability	This course focuses on how to design low radiation antenna which is useful for environmental sustainability
56	318COE09	Electromagnetic Interference and Compatibility in System Design	Environment and Sustainability	The students learn about the electromagnetic interference of signals and its effect on environment
57	218VLE05	Electro Magnetic Interference and Compatibility	Environment and Sustainability	The students learn about the electromagnetic interference of signals and its effect on environment
58	118PSE01	Wind and Solar Energy Systems	Environment and Sustainability	The Renewable Energy systems like Solar and Wind and the associated technologies are discussed in this course.
59	118PSE04	Electric And Hybrid Vehicles	Environment and Sustainability	The Social and Environmental importance of Electric and Hybrid Vehicles are focused in this course.
60	118PSE02	Energy Auditing and Management	Environment and Sustainability	This course deals with the Energy Conservation and Energy Auditing Principles



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61	118SEE07	Maintenance and Rehabilitation of Structures	Environment and Sustainability	Maintaining the structures for safety and sustainability are focussed in this course.
62	218SEE08	Construction Safety and Management	Environment and Sustainability	It Creates awareness about the workplace safety in order to prevent workplace injuries, illness and fatalities
63	318SEE10	Structures in Disaster Prone Areas	Environment and Sustainability	Developing an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations are focused in this course.
64	118EDE04	Composite Materials and Mechanics	Environment and Sustainability	Manufacturing process of composite materials considering the environmental effect and performing various tests on composite materials to know its effect are focused in this course.