

Ref.:-

Date:-

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

There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
Academic Year: 2019-2020					
1	All Departments	S.Y.B.Tech.	Environmental Science	Environment and Sustainability	Students of all branches from second year engineering study this course which deals with the various environmental issues and gives insight for solving these issues. It includes various aspects of environment like Natural resources, Biodiversity and its conservation, Pollution, Social problems, Multidisciplinary nature of environmental studies and Environment and its protection. Here students can learn how to minimize the problem related to environment by using current technology that they study in various branches of engineering.
2		T.E.	Economics	Human Values and Professional Ethics	The course deals with introduction to Theories of Economics, Macroeconomics, Banking & Inflation and International Influences on Economics.
3			Intellectual Property Rights for Technology Development and Management	Human Values and Professional Ethics	This course deals with the Dynamics of Knowledge evolution, Creation of ownership domains in the knowledge space using various instruments of IPR, Confidentiality, information security and transfer integrating Intellectual Property in project planning, execution & commercialization. It also throws light on the shifting paradigms of R&D and their linkage to IPR, Comparison the Indian IPR system with international IPR frameworks especially in the context of WTO.
4			Introduction to Sociology	Human Values and Professional Ethics	This course deals with Social structure, Social stratification, Status, role, norms and Social values. It elaborates Socialization, Culture and change. It also describes Trends of Urbanization in the developing countries and the world. Major social institutions - Family and marriage, caste and tribe and organizations are elaborated in this course. Social movements are studied with reference to their forms like protest movements, reformist movement and radical movements in India.
5			Stress and Coping	Human Values and Professional Ethics	Concept of stress and individual stress response to stress is studied in this course. Common sources of stress viz. biological, personality and environmental are discussed. Stress Coping styles and individual behaviors are elaborated. The role of social support in stress mitigation, Stress management techniques like relaxation, meditation, cognitive restructuring, self-control, bio-feedback and time management are also elaborated in this subject.
6			Professional Ethics & Human Values	Human Values and Professional Ethics	The course deals with Human Values Morals, Values and Ethics, with special reference to Engineering Ethics. It addresses Variety of Moral Issues viz. Types of inquiry, Moral Dilemmas and Moral Safety. Responsibilities and Rights, Collegiality and Loyalty, Respect for Authority. Collective Bargaining and Confidentiality are also discussed. Special aspect of Multinational Corporations with reference Environmental issues, Computer Ethics and Weapons are given due considerations.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
7	First Year Engineering	F.Y. B. Tech.	Communication Skills	Professional Ethics	The objective of this course is to enhance student's reading, professional writing, comprehension, speaking skills which are required for day to day communications. The curriculum includes English Grammar, Vocabulary, Speaking skills, Reading Comprehension, Fundamental Writing skills
8			Professional Communication	Professional Ethics	This course nurtures student's effective presentations skills and equip them with skills required for effective group discussion and personal interview. It inculcates soft skills in students for personal and professional success as well as higher level Writing Skills.
9			Democracy, Elections and Good Governance	Human Values	The rationale of the study is to make the pupils aware of the importance of democracy. What constitute democracy, what is its importance from the point of view of the role of individual and what exactly can a individual get if he performs his role well in the society. This module also aims to make the individual understand the different aspects of democracy and its implications in the overall development of the state. The syllabus is introduced from the point of view that all students upon entering into the college, enroll themselves as voters and encourage and enthuse other members of the society to participate not only in election process but also electoral and political process in general.
10	Mechanical Engineering	B.E.	Industrial and Quality Management	Human Values and Professional Ethics	This subject deals with introduction to general management principles and apply them in practice. The curriculum also covers importance of planning, decision making, Social responsibility and ethics, etc. in management.
11			Software Engineering & cyber security	Human Values and Professional Ethics	The curriculum of this course describe the security policy requirements, accountability, assurance and documentation requirements, process of developing policies, Employee responsibilities, Human Factors in Security, Role of information security professionals.
12	Computer Science & Engineering	B.E.	Information and Cyber Security	Professional Ethics	This course deals with Applying security technologies and policies to protect digital information, Identifying & evaluating Information security threats & vulnerabilities in information system and applying security measures to real time scenario, Demonstrating the use of standards and cyber laws to enhance information security in the development process and infrastructure protection.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
13	Civil Engineering	S.Y.B.Tech.	Energy Science & Engineering	Environment and Sustainability	This course deals with examining conventional energy sources and systems, including fossil fuels and nuclear energy, and then focus on environment friendly alternatives, renewable energy sources such as solar, biomass (conversions), wind power, waves and tidal, geothermal, ocean thermal, Hydro Power
14			Environmental Engg.- II	Environment and Sustainability	This course deals with stream pollution due to waste disposal and suitable centralized/decentralized wastewater Treatment system, Learning solid waste and hazardous waste management systems for urban areas, Understanding various sources of air pollution, its measurement and control.
15		T.E.	Elective-I: Industrial Waste Treatment	Environment and Sustainability	This course deals with sources of waste water in different industries and waste water treatment options for different industries. The students acquire knowledge about disposal of effluents and the quality standards for disposal.
16			Elective-I: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.
17			Self Learning Technical Course: Planning for	Environment and Sustainability	This course deals with concept of sustainable development, Environmental degradation and poverty Sustainable development, Environmental management and innovation strategies
18			Elective-II: Air Pollution & Control	Environment and Sustainability	This course deals with Sources, Causes & effects of Air Pollution. It elaborates the relation between Meteorology and Air Pollution. Students learn methods used for controlling air pollution. The legislation regarding Air pollution Prevention is also discussed in the course.
19		B.E.	Elective-II: Entrepreneurship	Gender Equality	This course deals with Women Entrepreneurship:- Meaning, Characteristic features, Problems of Women Entrepreneurship in India, Developing Women Entrepreneurship in India, reasons for the slow growth of women entrepreneurship, remedies to solve the problems of women entrepreneurs. Measures taken for the development of women.
20			Elective-III: Solid and Hazardous Waste Management	Environment and Sustainability	In this course, students study the sources and generation of solid & hazardous wastes. The course imparts basic knowledge of collection, transportation, treatment and disposal of solid waste. It also elaborates the methods for handling and storing solid and hazardous wastes.
21			Elective-III: Environmental Management	Environment and Sustainability	This course deals with Fundamentals of environmental management system, Environmental management acts related to environmental protection, Electronic waste management, Biomedical waste management, Air pollution control, Environmental Impact Assessment



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P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
 Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
22	Master of Business Administration (MBA)	MBA-II	Strategic Management	Professional Ethics	This Course gives idea about business ethics and corporate governance.
23			World Class Manufacturing	Environment	This course deals with Factors causing Pollution, Effect on human health, Control of environment Pollution.
24			International Marketing	Professional Ethics	This Subject covers International Marketing Communication, Ethics in International Marketing, Social responsibility in international marketing.
26		MBA-I	Principles of Management	Professional Ethics	This course explains the knowledge about Ethics, Social responsibility, Corporate Social responsibility.
28			Human Resource Management	Human Values & Professional Ethics	This course deals with importance and process of Human Resource Planning, Sources and Methods of Recruitment, Systematic Approach to Training, Training Methods, Executive Development, Methods and Development of Management Development, Types of Welfare Facilities and Statutory Provisions, industrial relations.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
Academic Year: 2018-19					
1	All Departments	S.E.	Environmental Science	Environment and Sustainability	Students of all branches from second year engineering study this course which deals with the various environmental issues and gives insight for solving these issues. It includes various aspects of environment like Natural resources, Biodiversity and its conservation, Pollution, Social problems, Multidisciplinary nature of environmental studies and Environment and its protection. Here students can learn how to minimize the problem related to environment by using current technology that they study in various branches of engineering.
2		T.E.	Economics	Human Values and Professional Ethics	The course deals with introduction to Theories of Economics, Macroeconomics, Banking & Inflation and International Influences on Economics.
3			Intellectual Property Rights for Technology Development and Management	Human Values and Professional Ethics	This course deals with the Dynamics of Knowledge evolution, Creation of ownership domains in the knowledge space using various instruments of IPR, Confidentiality, information security and transfer integrating Intellectual Property in project planning, execution & commercialization. It also throws light on the shifting paradigms of R&D and their linkage to IPR, Comparison the Indian IPR system with international IPR frameworks especially in the context of WTO.
4			Introduction to Sociology	Human Values and Professional Ethics	This course deals with Social structure, Social stratification, Status, role, norms and Social values. It elaborates Socialization, Culture and change. It also describes Trends of Urbanization in the developing countries and the world. Major social institutions - Family and marriage, caste and tribe and organizations are elaborated in this course. Social movements are studied with reference to their forms like protest movements, reformist movement and radical movements in India.
5			Stress and Coping	Human Values and Professional Ethics	Concept of stress and individual stress response to stress is studied in this course. Common sources of stress viz. biological, personality and environmental are discussed. Stress Coping styles and individual behaviors are elaborated. The role of social support in stress mitigation, Stress management techniques like relaxation, meditation, cognitive restructuring, self-control, bio-feedback and time management are also elaborated in this subject.
6			Professional Ethics & Human Values	Human Values and Professional Ethics	The course deals with Human Values Morals, Values and Ethics, with special reference to Engineering Ethics. It addresses Variety of Moral Issues viz. Types of inquiry, Moral Dilemmas and Moral Safety. Responsibilities and Rights, Collegiality and Loyalty, Respect for Authority. Collective Bargaining and Confidentiality are also discussed. Special aspect of Multinational Corporations with reference Environmental issues, Computer Ethics and Weapons are given due considerations.



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Sl. No.	Department	Class	Name of the Course	Issue Addressed	Description
7	First Year Engineering	F.Y. B. Tech.	Communication Skills	Professional Ethics	The objective of this course is to enhance student's reading, professional writing, comprehension, speaking skills which are required for day to day communications. The curriculum includes English Grammar, Vocabulary, Speaking skills, Reading Comprehension, Fundamental Writing skills
8			Professional Communication	Professional Ethics	This course nurtures student's effective presentations skills and equip them with skills required for effective group discussion and personal interview. It inculcates soft skills in students for personal and professional success as well as higher level Writing Skills.
9			Democracy, Elections and Good Governance	Human Values	The rationale of the study is to make the pupils aware of the importance of democracy. What constitute democracy, what is its importance from the point of view of the role of individual and what exactly can a individual get if he performs his role well in the society. This module also aims to make the individual understand the different aspects of democracy and its implications in the overall development of the state. The syllabus is introduced from the point of view that all students upon entering into the college, enroll themselves as voters and encourage and enthuse other members of the society to participate not only in election process but also electoral and political process in general.
10	Mechanical Engineering	B.E.	Industrial and Quality Management	Human Values and Professional Ethics	This subject deals with introduction to general management principles and apply them in practice. The curriculum also covers importance of planning, decision making, Social responsibility and ethics, etc. in management.
11			Software Engineering & cyber security	Human Values and Professional Ethics	The curriculum of this course describe the security policy requirements, accountability, assurance and documentation requirements, process of developing policies, Employee responsibilities, Human Factors in Security, Role of information security professionals.
12	Computer Science & Engineering	B.E.	Information and Cyber Security	Professional Ethics	This course deals with Applying security technologies and policies to protect digital information, Identifying & evaluating Information security threats & vulnerabilities in information system and applying security measures to real time scenario, Demonstrating the use of standards and cyber laws to enhance information security in the development process and infrastructure protection.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
13	Civil Engineering	T.E.	Environmental Engg- II	Environment and Sustainability	This course deals with stream pollution due to waste disposal and suitable centralized/decentralized wastewater Treatment system, Learning solid waste and hazardous waste management systems for urban areas, Understanding various sources of air pollution, its measurement and control.
15			Elective-I: Industrial Waste Treatment	Environment and Sustainability	This course deals with sources of waste water in different industries and waste water treatment options for different industries. The students acquire knowledge about disposal of effluents and the quality standards for disposal.
16			Elective-I: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.
17			Self Learning Technical Course: Planning for Sustainable Development	Environment and Sustainability	This course deals with concept of sustainable development, Environmental degradation and poverty Sustainable development, Environmental management and innovation strategies
18		B.E.	Elective-I: Air Pollution & Control	Environment and Sustainability	This course deals with Sources, Causes & effects of Air Pollution. It elaborates the relation between Meteorology and Air Pollution. Students learn methods used for controlling air pollution. The legislation regarding Air pollution Prevention is also discussed in the course.
19			Elective-I: Entrepreneurship	Gender Equality	This course deals with Women Entrepreneurship:- Meaning, Characteristic features, Problems of Women Entrepreneurship in India, Developing Women Entrepreneurship in India, reasons for the slow growth of women entrepreneurship, remedies to solve the problems of women entrepreneurs. Measures taken for the development of women.
20			Elective-II: Solid and Hazardous Waste Management	Environment and Sustainability	In this course, students study the sources and generation of solid & hazardous wastes. The course imparts basic knowledge of collection, transportation, treatment and disposal of solid waste. It also elaborates the methods for handling and storing solid and hazardous wastes.
21			Elective-II: Environmental Management	Environment and Sustainability	This course deals with Fundamentals of environmental management system, Environmental management acts related to environmental protection, Electronic waste management, Biomedical waste management, Air pollution control, Environmental Impact Assessment
22			Elective-III: Industrial Waste Treatment	Environment and Sustainability	This course deals with Different types of waste treatment and their selections, Recycling and reuse and recovery Introduction to 3R principles to convert waste into wealth, Water pollution control act, green processes in the industries.
23			Elective-III: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
24	Master of Business Administration (MBA)	MBA-II	Strategic Management	Professional Ethics	This Course gives idea about business ethics and corporate governance.
25			World Class Manufacturing	Environment	This course deals with Factors causing Pollution, Effect on human health, Control of environment Pollution.
26			International Marketing	Professional Ethics	This Subject covers International Marketing Communication, Ethics in International Marketing, Social responsibility in international marketing.
27		MBA-I	Principles of Management	Professional Ethics	This course explains the knowledge about Ethics, Social responsibility, Corporate Social responsibility.
28			Human Resource Management	Human Values & Professional Ethics	This course deals with importance and process of Human Resource Planning, Sources and Methods of Recruitment, Systematic Approach to Training, Training Methods, Executive Development, Methods and Development of Management Development, Types of Welfare Facilities and Statutory Provisions, industrial relations.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
Academic Year: 2017-18					
1	All Departments	S.E.	Environmental Science	Environment and Sustainability	Students of all branches from second year engineering study this course which deals with the various environmental issues and gives insight for solving these issues. It includes various aspects of environment like Natural resources, Biodiversity and its conservation. Pollution, Social problems, Multidisciplinary nature of environmental studies and Environment and its protection. Here students can learn how to minimize the problem related to environment by using current technology that they study in various branches of engineering.
2		T.E.	Economics	Human Values and Professional Ethics	The course deals with introduction to Theories of Economics, Macroeconomics, Banking & Inflation and International Influences on Economics.
3			Intellectual Property Rights for Technology Development and Management	Human Values and Professional Ethics	This course deals with the Dynamics of Knowledge evolution, Creation of ownership domains in the knowledge space using various instruments of IPR, Confidentiality, information security and transfer integrating Intellectual Property in project planning, execution & commercialization. It also throws light on the shifting paradigms of R&D and their linkage to IPR, Comparison the Indian IPR system with international IPR frameworks especially in the context of WTO.
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12	Computer Science & Engineering	B.E.	Information and Cyber Security	Professional Ethics	This course deals with Applying security technologies and policies to protect digital information, Identifying & evaluating Information security threats & vulnerabilities in information system and applying security measures to real time scenario. Demonstrating the use of standards and cyber laws to enhance information security in the development process and infrastructure protection.



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14			Building Planning & Design	Environment and Sustainability	This course consists concepts of Green Building and energy efficient buildings.
15			Elective-I: Industrial Waste Treatment	Environment and Sustainability	This course deals with sources of waste water in different industries and waste water treatment options for different industries. The students acquire knowledge about disposal of effluents and the quality standards for disposal.
16			Elective-I: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.
17			Self Learning Technical Course: Planning for Sustainable Development	Environment and Sustainability	This course deals with concept of sustainable development, Environmental degradation and poverty Sustainable development, Environmental management and innovation strategies
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21		Elective-II: Environmental Management		Environment and Sustainability	This course deals with Fundamentals of environmental management system, Environmental management acts related to environmental protection, Electronic waste management, Biomedical waste management, Air pollution control, Environmental Impact Assessment
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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
24	Master of Business Administration (MBA)	MBA-II	Corporate Planning and Strategic Management	Professional Ethics	This course deals with Approaches to Strategic Decision making, Corporate Planning Process, SWOT analysis, Behavioral Issues - Leadership styles, Corporate culture and values power, Social Responsibilities - Ethics, Building capable organization.
25			Business Ethics	Professional Ethics & Environment	This course covers definition of ethics and business ethics, nature and need for business ethics, factor affecting business ethics, principles of business ethics, Making decisions in Business Ethics, Social responsibilities of Business Organization, Ethics in General Management, Basis of Environment, Environment pollution, Ozone Depletion, Global Climate change, Air Pollution, Water Pollution, Waste Management, Environmental Regulations - WTO environmental provisions, Environmental Regulation in India, Environment Protection.
26		MBA-I	Principles of Management	Professional Ethics	This course explains the knowledge about Ethics, Social responsibility, Corporate Social responsibility.
27			Human Resource Management	Human Values & Professional Ethics	This course deals with importance and process of Human Resource Planning, Sources and Methods of Recruitment, Systematic Approach to Training, Training Methods, Executive Development, Methods and Development of Management Development, Types of Welfare Facilities and Statutory Provisions, industrial relations.



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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
Academic Year: 2016-17					
1	All Departments	S.E.	Environmental Science	Environment and Sustainability	Students of all branches from second year engineering study this course which deals with the various environmental issues and gives insight for solving these issues. It includes various aspects of environment like Natural resources, Biodiversity and its conservation, Pollution, Social problems, Multidisciplinary nature of environmental studies and Environment and its protection. Here students can learn how to minimize the problem related to environment by using current technology that they study in various branches of engineering.
2		T.E.	Economics	Human Values and Professional Ethics	The course deals with introduction to Theories of Economics, Macroeconomics, Banking & Inflation and International Influences on Economics.
3		T.E.	Intellectual Property Rights for Technology Development and Management	Human Values and Professional Ethics	This course deals with the Dynamics of Knowledge evolution, Creation of ownership domains in the knowledge space using various instruments of IPR, Confidentiality, information security and transfer integrating Intellectual Property in project planning, execution & commercialization. It also throws light on the shifting paradigms of R&D and their linkage to IPR, Comparison the Indian IPR system with international IPR frameworks especially in the context of WTO.
4		T.E.	Introduction to Sociology	Human Values and Professional Ethics	This course deals with Social structure, Social stratification, Status, role, norms and Social values. It elaborates Socialization, Culture and change. It also describes Trends of Urbanization in the developing countries and the world. Major social institutions - Family and marriage, caste and tribe and organizations are elaborated in this course. Social movements are studied with reference to their forms like protest movements, reformist movement and radical movements in India.
5		T.E.	Stress and Coping	Human Values and Professional Ethics	Concept of stress and individual stress response to stress is studied in this course. Common sources of stress viz. biological, personality and environmental are discussed. Stress Coping styles and individual behaviors are elaborated. The role of social support in stress mitigation, Stress management techniques like relaxation, meditation, cognitive restructuring, self-control, bio-feedback and time management are also elaborated in this subject.
6		T.E.	Professional Ethics & Human Values	Human Values and Professional Ethics	The course deals with Human Values Morals, Values and Ethics, with special reference to Engineering Ethics. It addresses Variety of Moral Issues viz. Types of inquiry, Moral Dilemmas and Moral Safety. Responsibilities and Rights, Collegiality and Loyalty, Respect for Authority. Collective Bargaining and Confidentiality are also discussed. Special aspect of Multinational Corporations with reference Environmental issues, Computer Ethics and Weapons are given due considerations.



B. Range
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Shri Vithal Education & Research Institute's

COLLEGE OF ENGINEERING, PANDHARPUR



P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
 Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
 Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
 NBA Accredited all eligible UG Programmes, NAAC Accredited Institute, ISO 9001:2015 Certified Institute.
 Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.:-

Date:-

L.3.1 Institution integrates crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
7	First Year Engineering	F.E.	Communication Skills	Professional Ethics	The objective of this course is to enhance student's reading, professional writing, comprehension, speaking skills which are required for day to day communications. The curriculum includes English Grammar, Vocabulary, Speaking skills, Reading Comprehension, Fundamental Writing skills
8			Professional Communication	Professional Ethics	This course nurtures student's effective presentations skills and equip them with skills required for effective group discussion and personal interview. It inculcates soft skills in students for personal and professional success as well as higher level Writing Skills
9	Mechanical Engineering	B.E.	Industrial and Quality Management	Human Values and Professional Ethics	This subject deals with introduction to general management principles and apply them in practice. The curriculum also covers importance of planning, decision making, Social responsibility and ethics, etc. in management.
10			Software Engineering & cyber security	Human Values and Professional Ethics	The curriculum of this course describe the security policy requirements, accountability, assurance and documentation requirements, process of developing policies, Employee responsibilities, Human Factors in Security, Role of information security professionals.
11	Computer Science & Engineering	B.E.	Information and Cyber Security	Professional Ethics	This course deals with Applying security technologies and policies to protect digital information, Identifying & evaluating Information security threats & vulnerabilities in information system and applying security measures to real time scenario, Demonstrating the use of standards and cyber laws to enhance information security in the development process and infrastructure protection.



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There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr.No.	Department	Class	Name of the Course	Issue Addressed	Description
12	Civil Engineering	T.E.	Environmental Engg - II	Environment and Sustainability	This course deals with stream pollution due to waste disposal and suitable centralized/decentralized wastewater Treatment system, Learning solid waste and hazardous waste management systems for urban areas, Understanding various sources of air pollution, its measurement and control.
13			Building Planning & Design	Environment and Sustainability	This course consists concepts of Green Building and energy efficient buildings.
14			Elective-I: Industrial Waste Treatment	Environment and Sustainability	This course deals with sources of waste water in different industries and waste water treatment options for different industries. The students acquire knowledge about disposal of effluents and the quality standards for disposal.
15			Elective-I: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.
16			Self Learning Technical Course: Planning for Sustainable Development	Environment and Sustainability	This course deals with concept of sustainable development, Environmental degradation and poverty Sustainable development, Environmental management and innovation strategies.
17			Elective-I: Air Pollution & Control	Environment and Sustainability	This course deals with Sources, Causes & effects of Air Pollution. It elaborates the relation between Meteorology and Air Pollution. Students learn methods used for controlling air pollution. The legislation regarding Air pollution Prevention is also discussed in the course.
18		Elective-I: Entrepreneurship	Gender Equality	This course deals with Women Entrepreneurship:- Meaning, Characteristic features, Problems of Women Entrepreneurship in India, Developing Women Entrepreneurship in India, reasons for the slow growth of women entrepreneurship, remedies to solve the problems of women entrepreneurs. Measures taken for the development of women.	
19		Elective-II: Solid and Hazardous Waste Management	Environment and Sustainability	In this course, students study the sources and generation of solid & hazardous wastes. The course imparts basic knowledge of collection, transportation, treatment and disposal of solid waste. It also elaborates the methods for handling and storing solid and hazardous wastes.	
20		Elective-II: Environmental Management	Environment and Sustainability	This course deals with Fundamentals of environmental management system, Environmental management acts related to environmental protection, Electronic waste management, Biomedical waste management, Air pollution control, Environmental Impact Assessment.	
21		Elective-III: Industrial Waste Treatment	Environment and Sustainability	This course deals with Different types of waste treatment and their selections, Recycling and reuse and recovery Introduction to 3R principles to convert waste into wealth, Water pollution control act, green processes in the industries.	



B. Ronge
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There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
22	Master of Business Administration (MBA)	MBA-II	Corporate Planning and Strategic Management	Professional Ethics	This course deals with Approaches to Strategic Decision making, Corporate Planning Process, SWOT analysis, Behavioral Issues – Leadership styles, Corporate culture and values power, Social Responsibilities – Ethics, Building capable organization.
23			Business Ethics	Professional Ethics & Environment	This course covers definition of ethics and business ethics, nature and need for business ethics, factor affecting business ethics, principles of business ethics, Making decisions in Business Ethics, Social responsibilities of Business Organization, Ethics in General Management, Basics of Environment, Environment pollution, Ozone Depletion, Global Climate change, Air Pollution, Water Pollution, Waste Management. Environmental Regulations – WTO environmental provisions, Environmental Regulation in India, Environment Protection.
24		MBA-I	Perspectives of Management	Professional Ethics	This course deals with Definition, Characteristics, Levels of Management, Process of Management, Development of Management Theory, Theories of motivation and Leadership styles.
25			IT for Management	Professional Ethics	This course gives idea about Computer Security, Crime and Ethics, Types and Applications of E-Commerce, E-market, M-Commerce.
26			Marketing Management	Professional Ethics	This course deals with Marketing Concepts, Marketing Environment, Understanding Consumer behavior, Marketing Ethics and social responsibility.



B. Rongle
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Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
Academic Year: 2015-16					
1	All Departments	S.E.	Environmental Science	Environment and Sustainability	Students of all branches from second year engineering study this course which deals with the various environmental issues and gives insight for solving these issues. It includes various aspects of environment like Natural resources, Biodiversity and its conservation, Pollution, Social problems, Multidisciplinary nature of environmental studies and Environment and its protection. Here students can learn how to minimize the problem related to environment by using current technology that they study in various branches of engineering.
2		T.E.	Economics	Human Values and Professional Ethics	The course deals with introduction to Theories of Economics, Macroeconomics, Banking & Inflation and International Influences on Economics.
3			Intellectual Property Rights for Technology Development and Management	Human Values and Professional Ethics	This course deals with the Dynamics of Knowledge evolution, Creation of ownership domains in the knowledge space using various instruments of IPR, Confidentiality, information security and transfer integrating Intellectual Property in project planning, execution & commercialization. It also throws light on the shifting paradigms of R&D and their linkage to IPR, Comparison the Indian IPR system with international IPR frameworks especially in the context of WTO.
4			Introduction to Sociology	Human Values and Professional Ethics	This course deals with Social structure, Social stratification, Status, role, norms and Social values. It elaborates Socialization, Culture and change. It also describes Trends of Urbanization in the developing countries and the world. Major social institutions - Family and marriage, caste and tribe and organizations are elaborated in this course. Social movements are studied with reference to their forms like protest movements, reformist movement and radical movements in India.
5			Stress and Coping	Human Values and Professional Ethics	Concept of stress and individual stress response to stress is studied in this course. Common sources of stress viz. biological, personality and environmental are discussed. Stress Coping styles and individual behaviors are elaborated. The role of social support in stress mitigation, Stress management techniques like relaxation, meditation, cognitive restructuring, self-control, bio-feedback and time management are also elaborated in this subject.
6			Professional Ethics & Human Values	Human Values and Professional Ethics	The course deals with Human Values Morals, Values and Ethics, with special reference to Engineering Ethics. It addresses Variety of Moral Issues viz. Types of inquiry, Moral Dilemmas and Moral Safety. Responsibilities and Rights, Collegiality and Loyalty, Respect for Authority. Collective Bargaining and Confidentiality are also discussed. Special aspect of Multinational Corporations with reference Environmental issues, Computer Ethics and Weapons are given due considerations.



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There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
7	First Year Engineering	F.E.	Communication Skills-I	Professional Ethics	The objective of this course is to enhance student's reading, professional writing, comprehension, speaking skills which are required for day to day communications. The curriculum includes English Grammar, Vocabulary, Speaking skills, Reading Comprehension, Fundamental Writing skills
8			Communication Skills-II	Professional Ethics	This course nurtures student's effective presentations skills and equip them with skills required for effective group discussion and personal interview. It inculcates soft skills in students for personal and professional success as well as higher level Writing Skills.
10	Mechanical Engineering	B.E.	Industrial and Quality Management	Human Values and Professional Ethics	This subject deals with introduction to general management principles and apply them in practice. The curriculum also covers importance of planning, decision making, Social responsibility and ethics, etc. in management.
11			Software Engineering & cyber security	Human Values and Professional Ethics	The curriculum of this course describe the security policy requirements, accountability, assurance and documentation requirements, process of developing policies, Employee responsibilities, Human Factors in Security, Role of information security professionals.
12	Computer Science & Engineering	B.E.	Information and Cyber Security	Professional Ethics	This course deals with Applying security technologies and policies to protect digital information. Identifying & evaluating Information security threats & vulnerabilities in information system and applying security measures to real time scenario, Demonstrating the use of standards and cyber laws to enhance information security in the development process and infrastructure protection.



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There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
13	Civil Engineering	T.E.	Environmental Engg - II	Environment and Sustainability	This course deals with stream pollution due to waste disposal and suitable centralized/decentralized wastewater Treatment system, Learning solid waste and hazardous waste management systems for urban areas, Understanding various sources of air pollution, its measurement and control.
14			Building Planning & Design	Environment and Sustainability	This course consists concepts of Green Building and energy efficient buildings.
15			Elective-I: Industrial Waste Treatment	Environment and Sustainability	This course deals with sources of waste water in different industries and waste water treatment options for different industries. The students acquire knowledge about disposal of effluents and the quality standards for disposal.
16			Elective-I: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.
17			Self Learning Technical Course: Planning for Sustainable Development	Environment and Sustainability	This course deals with concept of sustainable development, Environmental degradation and poverty Sustainable development, Environmental management and innovation strategies
18			Elective-I: Air Pollution & Control	Environment and Sustainability	This course deals with Sources, Causes & effects of Air Pollution. It elaborates the relation between Meteorology and Air Pollution. Students learn methods used for controlling air pollution. The legislation regarding Air pollution Prevention is also discussed in the course.
19			Elective-I: Entrepreneurship	Gender Equality	This course deals with Women Entrepreneurship:- Meaning, Characteristic features, Problems of Women Entrepreneurship in India, Developing Women Entrepreneurship in India, reasons for the slow growth of women entrepreneurship, remedies to solve the problems of women entrepreneurs. Measures taken for the development of women.
20	B.E.		Elective-II: Solid and Hazardous Waste Management	Environment and Sustainability	In this course, students study the sources and generation of solid & hazardous wastes. The course imparts basic knowledge of collection, transportation, treatment and disposal of solid waste. It also elaborates the methods for handling and storing solid and hazardous wastes.
21			Elective-II: Environmental Management	Environment and Sustainability	This course deals with Fundamentals of environmental management system, Environmental management acts related to environmental protection, Electronic waste management, Biomedical waste management, Air pollution control, Environmental Impact Assessment
22			Elective-III: Industrial Waste Treatment	Environment and Sustainability	This course deals with Different types of waste treatment and their selections, Recycling and reuse and recovery Introduction to 3R principles to convert waste into wealth, Water pollution control act, green processes in the industries.
23			Elective-III: Disaster Management	Environment and Sustainability	This course deals with Concept of Environmental Hazards, Environmental stress & Environmental Disasters, Man-made Disaster and Extra Planetary Hazards, Biological hazards etc.



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There are various courses in the curriculum which address cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. List and brief information of these courses are given below:

Sr. No.	Department	Class	Name of the Course	Issue Addressed	Description
24	Master of Business Administration (MBA)	MBA-II	Corporate Planning and Strategic Management	Professional Ethics	This course deals with Approaches to Strategic Decision making, Corporate Planning Process, SWOT analysis, Behavioral Issues – Leadership styles, Corporate culture and values power, Social Responsibilities – Ethics, Building capable organization.
25			Business Ethics	Professional Ethics & Environment	This course covers definition of ethics and business ethics, nature and need for business ethics, factor affecting business ethics, principles of business ethics, Making decisions in Business Ethics, Social responsibilities of Business Organization, Ethics in General Management, Basics of Environment, Environment pollution, Ozone Depletion, Global Climate change, Air Pollution, Water Pollution, Waste Management. Environmental Regulations – WTO environmental provisions, Environmental Regulation in India, Environment Protection.
26		MBA-I	Perspectives of Management	Professional Ethics	This course deals with Definition, Characteristics, Levels of Management, Process of Management, Development of Management Theory, Theories of motivation and Leadership styles.
27			IT for Management	Professional Ethics	This course gives idea about Computer Security, Crime and Ethics, Types and Applications of E-Commerce, E-market, M-Commerce.
28	Marketing Management		Professional Ethics	This course deals with Marketing Concepts, Marketing Environment, Understanding Consumer behavior, Marketing Ethics and social responsibility.	



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