



GURU GOBIND SINGH FOUNDATION'S

GURU GOBIND SINGH COLLEGE OF ENGINEERING & RESEARCH CENTRE

APPROVED BY AICTE, GOVT. OF MAHARASHTRA & DTE MUMBAI, AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY
NAAC ACCREDITATION FIRST CYCLE 'B+' WITH CGPA 2.72 IN APRIL 2019. DNV- GL CERTIFIED FOR ISO 9001:2015 STANDARDS



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

List of the curriculum courses where crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability are addressed:

Sr. No	Name of Program	Year of study	Name of Course	Course Code	Issue Addressed
1	Basic Engineering Science	First Year	Audit Course - I Environmental Studies-I	101007	Environment and Sustainability
2	Basic Engineering Science	First Year	Audit Course - II Environmental Studies-II	101014	Environment and Sustainability
3	Basic Engineering Science	First Year	Project Based Learning	110013	Professional Ethics & Human Values
4	Civil Engineering	Second Year	Audit Course Awareness to Civil Engineering Practices	201007	1) Human Values: Insight of code of ethics & Duties and responsibilities of the Engineers. 2) Health and Safety: Health and Safety practices on site.
5	Civil Engineering	Second Year	Audit Course Road Safety Management	201007	1) Human Values: Show changes in awareness levels, knowledge and understanding.
6	Civil Engineering	Second Year	Project Based Learning	201017	1) Human Values: Important attributes like communication, presentation, organization, time management, research, inquiry, self-assessment, group participation, leadership and critical thinking.
7	Civil Engineering	Third Year	Water Supply Engineering	301002	Environment and Sustainability: Water treatment & rain water harvesting and GIS are addressed.

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8	Civil Engineering	Third Year	Seminar	301006	Human Values: Enhance critical thinking and develop the skill of technical writing along with presentation.
9	Civil Engineering	Third Year	Audit Course I: Professional Ethics and Etiquettes	301011 a	Human Values: Professional etiquettes and manners, Global negotiating and Persuading, Integrity.
10	Civil Engineering	Third Year	Audit Course I: Sustainable Energy Systems	301011 b	Environment and Sustainability: address realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
11	Civil Engineering	Third Year	Waste Water Engineering	301012	Environment and Sustainability: Waste water treatment issues are addressed.
12	Civil Engineering	Third Year	Audit Course II: Leadership and Personality Development	301021 a	Human Values: Develop inter personal skills and be an effective goal oriented team player.
13	Civil Engineering	Third Year	Audit Course II: Industrial Safety	301021 b	Health, Environment and Sustainability: Health environment and security covers virtually every important area in administration
14	Civil Engineering	Final Year	Environmental Engineering – II	401 001	Health & Safety: Waste water treatment issues are addressed.
15	Civil Engineering	Final Year	Transportation Engineering	401 002	Health & Safety: Traffic engineering & control
16	Civil Engineering	Final Year	Elective-I (5) Advanced Engineering Geology with Rock Mechanics	401004	Health & Safety: Geological Hazards and mitigation
17	Civil Engineering	Final Year	Elective II (3) TQM and MIS in Civil Engineering	401 005	Professional Ethics & Human Values

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18	Civil Engineering	Final Year	Elective II (4) Earthquake Engineering	401 005	Environment and Sustainability
19	Civil Engineering	Final Year	Project Phase-I	401006	Human Values: Plagiarism & Intellectual Property Rights
20	Civil Engineering	Final Year	Quantity Surveying, Contracts & Tenders	401 008	Professional Ethics & Human Values
21	Computer Engineering	Second Year	Business Communication Skills	210249	Professional Ethics
22	Computer Engineering	Second Year	Humanity and Social Science	210250	Human Values
23	Computer Engineering	Second Year	Audit Course 3 Smart Cities	210251	Environment and Sustainability
24	Computer Engineering	Second Year	Project Based Learning-II	210258	Human Values: Important attributes like communication, presentation, organization, time management, research, inquiry, self-assessment, group participation, leadership and critical thinking.
25	Computer Engineering	Second Year	Code of Conduct	210259	Professional Ethics
26	Computer Engineering	Second Year	Audit Course 4 Foreign Language	210260	Professional Ethics
27	Computer Engineering	Third Year	Elective-I: Internet of Things & Embedded Systems	310245A	Environment and Sustainability

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28	Computer Engineering	Third Year	Seminar & Technical Education	310249	Professional Ethics, Human Values
29	Computer Engineering	Third Year	Audit Course 5 Cyber Security	310250	Health & Safety
30	Computer Engineering	Third Year	Elective-II: Information Security	310254A	Health & Safety
31	Computer Engineering	Third Year	Internship	310255	Professional Ethics
32	Computer Engineering	Third Year	Audit Course 6 Leadership & Personality Development	310259	Professional Ethics
33	Computer Engineering	Final Year	Project Stage-I	410248	Human Values: Plagiarism & Intellectual Property Rights
34	Computer Engineering	Final Year	Project Stage-II	410256	Human Values: Plagiarism & Intellectual Property Rights
35	Computer Engineering	Final Year	Audit Course-7 Industrial Safety and Environment Conscious	410249	Health & Safety
36	Electrical Engineering	Second Year	Soft Skill	203151	Professional Ethics & Human Values
37	Electrical Engineering	Second Year	Audit Course-III Solar Thermal System	203152(A)	Environment and Sustainability
38	Electrical Engineering	Second Year	Project Based Learning	203152	Professional Ethics & Human Values

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39	Electrical Engineering	Second Year	Audit Course-IV Solar Photovoltaic Systems	203153(A)	Professional Ethics
40	Electrical Engineering	Third Year	Industrial and Technology Management	303141	Professional Ethics & Human Values
41	Electrical Engineering	Third Year	Electrical Installation, Design and Condition Based Maintenance	303144	1) Safety 2) Professional Ethics
42	Electrical Engineering	Third Year	Seminar	303146	1)Professional Ethics 2) Environment and Sustainability
43	Electrical Engineering	Third Year	Audit Course V :Start-up and Disruptive Innovations	303147B	Professional Ethics & Human Values
44	Electrical Engineering	Third Year	Energy Management	303151D	Professional Ethics & Human Values
45	Electrical Engineering	Third Year	Internship	303152	Professional Ethics & Human Values
46	Electrical Engineering	Third Year	Audit Course VI :Project Management	303153B	1) Environment and Sustainability 2) Professional Ethics & Human Values
47	Electrical Engineering	Final Year	Project Stage-I	403146	Professional Ethics & Human Values
48	Electrical Engineering	Final Year	Project Stage-II	403151	Professional Ethics & Human Values

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49	Mechanical Engineering	Second Year	Audit Course-III Design Thinking	202046	Professional Ethics & Human Values
50	Mechanical Engineering	Second Year	Applied Thermodynamics	202048	Environment and Sustainability
51	Mechanical Engineering	Second Year	Machine Shop	202051	Health & Safety
52	Mechanical Engineering	Second Year	Audit Course-IV Business Ethics	202053	Professional Ethics & Human Values
53	Mechanical Engineering	Third Year	Skill Development	302047	Professional Ethics & Human Values
54	Mechanical Engineering	Third Year	Audit Course V Entrepreneurship and IP strategy	302048	Professional Ethics & Human Values
55	Mechanical Engineering	Third Year	Internship/Mini project	302055	1) Health & Safety 2) Environment and Sustainability 3) Professional Ethics & Human Values
56	Mechanical Engineering	Third Year	Audit Course VI International Business	302056	1) Environment and Sustainability 2) Professional Ethics & Human Values
57	Mechanical Engineering	Final Year	Energy Audit and Management	402045C	Environment and Sustainability
58	Mechanical Engineering	Final Year	Elective VI Electrical and Hybrid Vehicle	402051E	1) Environment and Sustainability 2) Health & Safety
59	Mechanical Engineering	Final Year	Project Stage-I	402046	1) Health & Safety 2) Environment and Sustainability 3) Professional Ethics & Human Values

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60	Mechanical Engineering	Final Year	Project Stage-II	402051	1) Health & Safety 2) Environment and Sustainability 3) Professional Ethics & Human Values
61	Mechanical Engineering	Final Year	Energy Engineering	402049	Environment and Sustainability
62	Mechanical Engineering	Final Year	Elective-III Industrial Engineering	402044D	Health & Safety
63	Mechanical Engineering	Final Year	Audit Course-VII Yoga Practices Stress Management	402054A 402054B	Health & Safety

Total number of courses across all programs - 190

Total number of courses that addresses the cross cutting issues - 63

% of courses that addresses the various cross cutting issues - 33.16%

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