

1.3.1 Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum:

The Institute offers multidisciplinary courses such as Environmental Science and Engineering, Universal Human Values and Ethics, and Industrial Psychology. These courses enable students to earn credits beyond their core discipline, promote cross-domain learning, and support holistic development in alignment with Sustainable Development Goals (SDGs). All the post-graduate and Ph.D courses have incorporated Research Methodology as a mandatory course. This ensures that students develop a strong foundation in research design and ethical practices.

Experiential learning components, including community-based projects through Engineering Projects in Community Service (EPICS) under the Purdue University MoU, have been practiced since the first year, enabling students to engage with real societal challenges from the beginning of their academic journey. The students and faculty members attend workshops conducted by EPICS -PURDUE. This ensures recognition of hands-on learning, promotes societal engagement, and develops practical competencies required to address regional challenges.

Activities related to gender equity, social responsibility, and sustainable development practices are regularly organised to sensitize students. Through this holistic approach, The Institute fosters ethical competence, environmental consciousness, inclusivity, and value-based professional behaviour among its graduates, aligning with societal expectations. The students also participate regularly in 'Jal Dindi', a river rejuvenation project and 'Kirkoskar Vasundhara Green College Clean College'.

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

Year and Semester		Cross cutting issues related to topics in the curriculum			
Name of Course		Gender	Environment and Sustainability	Human Values	Professional Ethics
Civil					
First Year BTECH	Community Engagement Project	Community engagement can highlight gender inclusivity	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation, respect, and compassion.	Ethical decision-making ensures that projects benefit communities
Second Year BTECH	Innovation and Entrepreneurship	-		-	Understand professional & ethical responsibility
Second Year BTECH	Human Values and Ethics			Imparts understanding of human values	-
Third Year BTECH	Green and Sustainable building technology	-	Understand the concepts of green building and Learn practices Indian	-	-
Third Year BTECH	Air Pollution and Control	-	Awareness to sampling, analysis of polluted air from chimanies and	-	-
	Water supply and waste water treatment	-	Awareness of various water and waste water treatment techniques	-	-
	Employability skill development	-	-	-	Understand professional & ethical responsibility
ENTC			-		
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
SY BTECH Semester-III &	Engineering Design and Innovation-I	-	Awareness of real time, envoromental, industrial situaion to		Imparts fundamental knowledge of electronics & project management
SY BTECH Semester-IV	Basic Civil and Environmental Engineering	-	Introduction to environmental awareness, sustainable development		improves the knowledge of control systems used in various industries
Second Year BTECH	Human Values and Ethics			Imparts understanding of human values	-
TY BTECH Semester-V	Power Electronics & Drives	-	Understand power electronics concept & apply it in project		Imaprts industrial professional ethics along with management of power
TY BTECH Semester-V	Electronics System Design	-	Introduction to environmental awareness, sustainable development		Imparting knowledge of project & business management
TY BTECH Semester-V	Program Elective- I (Biomedical)	-	Awareness related to environmental issues		Imparts knowledge of patient monitoring systems
TY BTECH Semester-VI	Business Management	-	Understand bussiness management skills		Awareness and practical approach to communication skills & bussiness
TY BTECH Semester-VI	Engineering Design and Innovation-II	-	Apply electronics concepts in project design and development	-	Imaprts industrial professional ethics along with management
TY BTECH Semester-VI	Program Elective- II Renewable Energy Systems	-	understand Renewable Energy sources and its uses	-	Imaprts industrial professional ethics along with management related with
TY BTECH Semester-VI	Program Elective- II Electronics in Agriculture	-	Introduction to environmental awareness, sustainable development	-	imparts knowlwdge of electronics technology in agriculture domain
MCA					
FY MCA Semester II	Entrepreneurship developement	-	-	-	Imparts industrial professional ethics
SY MCA Semester III	Human Values and Ethics	-		Imaparts understanding of human values	Imparts industrial professional ethics
IT					
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
Second Year BTECH	Human Values and Ethics	-	-	Imparts understanding of human values	-
Final Year BTECH Project	Project				Understand professional & ethical responsibility
Computer					
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
Second Year BTECH	Innovation and Entrepreneurship	-			Understand professional & ethical responsibility,Develops Presentation
Third Year BTECH	Basic Civil and Environmental Engineering				Awareness and practical approach to Soft skills
Third Year BTECH	Engineering Design &	-			Understand professional & ethical responsibility,Develops Presentation
Third Year BTECH	Engineering Design & Innovation IV	-			Understand professional & ethical responsibility,Develops Presentation
Final Year BTECH	Engineering Design &	-	Renewable Energy Projects, Waste Management Projects, promote		Understand professional & ethical responsibility,Develops Presentation
MBA					
FY MBA Semester II	Human Resource Management			Imparts understanding of human values	
FY MBA Semester I	Organizational Behaviour & People Management	-		Imparts understanding of human behaviour	
SY MBA Semester IV	Business Morals, Ethics & Human Values			Imparts understanding of human values	Imparts industrial professional ethics
Automation and Robotics					

Year and Semester	Name of Course	Cross cutting issues related to topics in the curriculum			
		Gender	Environment and Sustainability	Human Values	Professional Ethics
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
Second Year BTECH	Engineering Design & Innovation-I	-	-		
Second Year BTECH	Human Values and Ethics	-	-	Imparts understanding of human values	
Second Year BTECH	Product Development & Modelling Lab	-	-	-	Awareness and practical approach to Soft skills
Third Year BTECH	Engineering Design & Innovations - II			-	
B.TECH PROJECT	Project	-		-	Imparts industrial professional ethics
Electrical					
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
Second Year BTech Semester	Human Values and Ethics	-		Imparts understanding of human values	-
Second Year BTech Semester	Intellectual Property Rights and Patents	-		Imparts industrial professional ethics	-
Second Year BTech Semester	Engineering Design and Innovation I	-		Imparts professional ethics	-
Third Year BTech Semester	Engineering Design and Innovation-II			Imparts professional ethics	
Third Year BTech Semester	Engineering Design and Innovation-III	-	-	Imparts professional ethics	-
Third Year BTech Semester	Solar and Wind Energy Systems	-	-	Imparts Environmental and Sustainability	-
Third Year BTech Semester	Electric Hybrid Vehicles	-	-	Imparts Environmental and Sustainability	-
Final Year Btech Semester VII	Engineering Design and Innovation-II			Imparts professional ethics	
Final Year Btech Semester VIII	Engineering Design and Innovation-III	-	-	Imparts professional ethics	-
Mechanical					
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
Second Year BTECH	Human Values and Ethics	-	-	Imparts understanding of human values	-
BTECH Semester-VII TRACK- I-	Industrial Internship/ Research Internship			Skills development	Imparts industrial professional ethics
B.TECH PROJECT	Project	-	-		Imparts industrial professional ethics
M.Tech	Research methodology	-	-		Imparts industrial professional ethics
CSBS					
First Year BTECH	Community Engagement Project	Community engagement can	Introduction to environmental awareness, sustainable development	Projects foster values like empathy, cooperation,	Ethical decision-making ensures that projects benefit communities
Second Year BTECH	Formal Language & Automata Theory				Imparts industrial professional ethics
Second Year BTECH	Design Thinking & Innovation				Imparts industrial professional ethics
Second Year BTECH	Innovation and Entrepreneurship				Imparts industrial professional ethics
Second Year BTECH	Human Values and Ethics			Imparts understanding of human values	
Third Year BTECH	Basic Civil and Environmental Engineering		Introduction to environmental awareness, sustainable development		