1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum(10)

Curriculum	Department	Sem	Course Name	Description of course	Whether Address Professional Ethics, Gender, Human Values, Environment and Sustainability
B. Tech . Grading	CSE	VIII	CS 805 Major Project	Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Minor project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc.	Professional Ethics & human Values

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			CS 802 Block Chain Technology	A blockchain is a distributed database that is shared among the nodes of a computer network. As a database, a blockchain stores information electronically in digital format. Blockchains are best known for their crucial role in cryptocurrency systems, such as Bitcoin, for maintaining a secure and decentralized record of transactions. The innovation with a blockchain is that it guarantees the fidelity and security of a record of data and generates trust without the need for a trusted third party.	Professional Ethics & human Values

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		VII	CS 701 Software Architecture	Architecture serves as a **blueprint for a system**. It provides an abstraction to manage the system complexity and establish a communication and coordination mechanism among components. • It defines a **structured solution** to meet all the technical and operational requirements, while optimizing the common quality attributes like performance and security. • Further, it involves a set of significant decisions about the organization related to software development and each of these decisions can have a considerable impact on quality, maintainability, performance, and the overall success of the final product.	Professional Ethics & human Values

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			CS 703 Cryptography & Information Security	**Cryptography** is the study and practice of techniques for secure communication in the presence of third parties called adversaries. It deals with developing and analyzing protocols which prevents malicious third parties from retrieving information being shared between two entities thereby following the various aspects of information security. Secure Communication refers to the scenario where the message or data shared between two parties can't be accessed by an adversary. In Cryptography, an Adversary is a malicious entity, which aims to retrieve precious information or data thereby undermining the principles of information security. Data Confidentiality, Data Integrity, Authentication and Non-repudiation are core principles of modern-day cryptography.	Professional Ethics & human Values

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		VI	CS Internship	607	An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. A quality internship: • Consists of a part-time or full-time work schedule that includes no more than 25% clerical or administrative duties. • Provides a clear job/project description for the work experience. • Orients the student to the organization, its culture and proposed work assignment(s). • Helps the student develop and achieve learning goals. • Offers regular feedback to the student intern.	Professional Ethics & human Values

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			CS 608 Minor Project II	In project II students work in a group by implementing problem definition identified in Major Project-I. Develop and execute a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will publish their work which requires effective presentation and communication	Professional Ethics & human Values

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		V	CS 507 Internship	An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. A quality internship: • Consists of a part-time or full-time work schedule that includes no more than 25% clerical or administrative duties. • Provides a clear job/project description for the work experience. • Orients the student to the organization, its culture and proposed work assignment(s). • Helps the student develop and achieve learning goals. • Offers regular feedback to the student intern.	Professional Ethics & human Values

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			CS 508 Minor Project I	Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Minor project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc.	Professional Ethics & human Values

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		IV	BT-407 Internship	An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. A quality internship: • Consists of a part-time or full-time work schedule that includes no more than 25% clerical or administrative duties. • Provides a clear job/project description for the work experience. • Orients the student to the organization, its culture and proposed work assignment(s). • Helps the student develop and achieve learning goals. • Offers regular feedback to the student intern.	Professional Ethics & human Values

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			BT 408 Cyber Security	Students learn how to identify security issues and protect information as well as track down those who steal that data. The objective of Cyber Security is to prevent or mitigate harmor destruction of computer networks, applications, devices, and data. For Cyber Security strategy to succeed, it must continually evolve to keep pace with the shifting strategies and technologies used by hackers.	Professional Ethics & human Values Sustainibility
		III	ES 310 Energy & Environment Engineering	This Course is to provide an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternative energy sources and their technology and application.	Environment and Sustainability
B. Tech . Grad ing	ECE	VIII	EC 805 Major Project	Students work in a group by identifying problem definitions as done in Minor projects. Students study existing systems and identify problems in those existing solutions. Finding and elaborating a solution without copying others or existing works motivate students to work ethically, and in a group they will learn to respect others views as well. At the end of the semester students will present their work which requires effective presentation and communication as a extension of the work carried under Major project. Some of the solutions are identified to solve the problems are: Smart Ultrasonic based Blind Stick, Smart Gloves for deaf and dumb, etc.	Professional Ethics & human Values

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