List & Description of courses which address the Professional Ethics, Gender, Human Values, Environmental and Sustainability into the Curriculum

CIVIL ENGINEERING DEPARTMENT

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| **S.NO** | **NAME OF THE COURSE** | **YEAR** | **SEM** | |
| **1** | **Project Planning & Construction Management** | **IV** | **VIII** | |
|  | Description | This course guides the students towards the planning of a project in accordance with the available resources. With the help of different types of visual graphs and figures one can get to know how someone can plan a project to complete in a specified interval of time by optimizing the resources.  Methods such as critical path method and PERT are used to analyze the structure of the project flow in a better way and others techniques are induced to complete it on a particular time. | | |
| **2** | **Professional practices & Estimating** | **IV** | **VIII** | |
|  |  | This lab course helps students in preparing detailed estimates of any construction work. By introducing several methods such as center line method, long wall - short wall method one can easily calculated the dimension of a building. This subjects helps students in understanding the basic concepts of rate analysis, depreciation of building, salvage value and more. | | |
| **3** | **Discipline & Extra Curricular activity** | **IV** | | **VIII** |
|  |  | The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development. | | |
| **4** | **Communication skills** | **I** | **I** | |
|  |  | This course helps students improve their professional communication in English for successful business interactions. Each chapter focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether a person wants to communicate to potential employers, employees, partners or clients, better English communication can help them achieve their language and professional goals. This course will focus especially on making those important connections to take the career or business to the next level. | | |
| **5** | **Human Values** | **I** | **I** | |
|  |  | The Courses Human Values envisages to instill the ethical values and to provide the knowledge about Ethics as a subject matter. The Course Human Value Education is aimed at providing the students with knowledge on Value System and its importance in Human existence. The objective of the course is listed as: Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who are able to face life and make it meaningful. | | |
| **6** | **Language Lab** | **I** | **I** | |
|  |  | Language labs are an effective and complete method designed for students to learn a language through complete language immersion.  The advantages of using a language lab make many educational institutions choose this learning method which provides an interactive tool that encourages student participation and engagement that is essential in mastering a language and engagement that is essential to master a language requirements. The language lab optimizes computing resources of the educational center without making a major investment in IT resources. | | |
| **7** | **Human Values Activities** | **I** | **II** | |
|  |  | Human Values involves various classroom activities through which teachers can take a measure of and improve the student’s inherent qualities, including responsibility, confidence, co-operation, respect and empathy.  Each activity featured as part of this innovation is focused on specific human values. The positive change in students and learning environment through all these activities can be ensured by carrying these out on a regular basis throughout the course. Activities Includes Scouts & Guides, Planning, Implementation, Surveying and many more. | | |
| **8** | **Technical Communication** | **II** | **III/IV** | |
|  |  | In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities. | | |
| **9** | **Social Outreach, Discipline & Extra Curricular Activities** | **II** | **III/IV** | |
|  |  | The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development. | | |
| **10** | **Technical Communication** | **III** | **IV** | |
|  |  | In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities. | | |
| **11** | **Air & Noise Pollution and control** | **III** | | **V** |
|  |  | Objectives of this course provides a comprehensive overview of air and noise quality and the science and technology associated with the monitoring and control  Learning Outcomes will be that students can be able to: Identify the sources of air and noise pollution, Monitor the ambient air quality and Understand the concepts involved in control technologies. | | |
| **12** | **Disaster Management** | **III** | | **V** |
|  |  | Disaster Management provides detailed knowledge to students on disaster preparedness, reducing the effect and rehabilitation. This course provides learners with a regional, national and international perspective on disaster management. | | |
| **13** | **Energy Science &**  **Engineering** | **III** | | **V** |
|  |  | The course has contents to develop sustainable energy systems and solutions for future energy needs of the world in general and India in particular. This course also focuses on key knowledge areas of sustainability theory and practice, including population, ecosystems, global change, energy, agriculture, water, environmental economics and policy, ethics, and cultural history. | | |
| **14** | **Solid and Hazardous**  **Waste Management** | **III** | | **VI** |
|  |  | This course provides students with an overview of the municipal solid waste management situation in low- and middle-income countries. It covers key elements of the waste management system, such as its technical, environmental, social, financial and institutional aspects. Besides understanding the challenges, students will be introduced to appropriate and already applied solutions through selected case studies. | | |
| **15** | **Environmental Engineering** | **III** | | **VI** |
|  |  | Environmental engineering is a subfield of engineering that is concerned with the protection and preservation of the environment and environmental resources as well as the protection of populations from environmental threats. Environmental engineers study population growth and monitor air and water quality. | | |
| **16** | **Environmental Engineering Lab** | **III** | | **VI** |
|  |  | The Environmental Engineering laboratory practical provides good insight into different experimental methods relevant to Environmental Engineering. In this lab we performs various test on drinker water and sewage samples to check pH value, total dissolved solids, BOD and COD, total suspended particles etc. | | |
| **17** | **Environmental monitoring & Design Lab** | **IV** | | **VII** |
|  |  | Environmental monitoring lab uses instruments to carry out environmental baseline and compliance monitoring in all walk of sectors like petrochemical, mining, cement, highways, housing and infrastructure for EIA studies.  Sampling and Testing Includes: Ambient Air, Water, Soil, Noise for Ambient and Stationary Sources, Stack Emissions, Solid and Hazardous Wastes, VOCs and Hydrocarbons, Fugitive Gas emissions, Indoor gas quality, Mercury, CO. | | |