

GEEK-PRESS

Unveiling the World of Tech Wizards

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1. Professional Practices

Apply engineering practices required for Software development, Hardware development and Embedded systems.

PEO2. Intrapreneurial Skills

Exhibit innovation, Self – confidence and teamwork skills in the organization and society.

PEO3. Lifelong Learning

Offer continuing education programmes in the emerging areas for the knowledge upgradation of stakeholders.

VISION OF THE DEPARTMENT

To produce globally competent and socially responsible Computer Science Engineers.

MISSION OF THE DEPARTMENT

M1: Professional Skills

Provide students with opportunities to become industry- ready professionals and entrepreneurs through analytical learning.

M2: Lifelong Learning

Maintain a lifelong learning attitude and stay current in their profession to foster personal and organizational development.

M3: Engage with Society

Encourage students to focus on sustainable solutions, to improve quality of life and social welfare.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1: Computer Science and Engineering students can analyse, design, develop, test and apply management principles, mathematical foundations in the development of computational solutions, making them experts in designing computer hardware and software.

PSO2: Develop their skills to solve problems in the broad area of programming concepts and appraise environmental and social issues with ethics and manage different projects in interdisciplinary fields.

PROGRAM OUTCOMES (POS)

Engineering Graduates will be able to:

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

EVENTS

HANDS-ON WORKSHOP ON "MASTERING LATEX SOFTWARE :A SCIENTIFIC DOCUMENTATION APPROACH"

Hands-on workshop on "Mastering Latex Software - A Scientific Documentation Approach" was organized by the Department of Computer Science and Engineering in association with GEEKZONE and NSS for the B.Tech 3rd year students of CSE department and SS students of other departments.

It was held on 15th and 16th February 2024. Ms. Dinla OK has been selected as the coordinator.

Ms. Dinla OK, Ms. Jithika M and Ms. Remya PV have been selected as resource person's. Punnya Pradeep E (S8 CSE) and Deepika Mohan (S8 CSE) have been selected as the student coordinators.

The goal of these workshops to instruct participants in the creation of standard documents for the technical writing of scientific research papers. The hands-on session provides foundations to students who lack the technical expertise necessary to create a template design document in accordance with IEEE standards, closing the curricular gap.

The course outcome related to these topics are CO-2 (Prepare Software Requirement Specification and Software Design for a given problem) of the course CST 309, Management of software systems

A medium level attainment to CO-2 for PO10 is obtained by conducting this session.



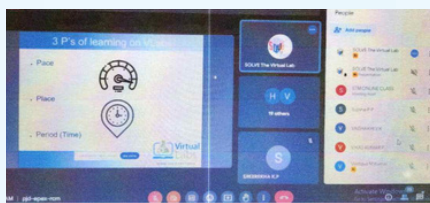
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FACULTY DEVELOPMENT PROGRAM ON "VIRTUAL LABS -ONLINE FDP"

The online faculty development program on Virtual Labs, conducted by NITK Surathkal was organized by the Department of Computer Science and Engineering for the faculties and technical staff of various departments on 23 February 2024.

It was to help faculties in conducting experiments using Virtual Labs.

The program started by 10.00 am with a welcome speech by Virtual Labs College Coordinator Ms. Sreerekha K P and after that HOD of CSE Department Dr. Amitha I C introduced the resource person's who are part of Virtual Labs Outreach Team at NITK, Surathkal.



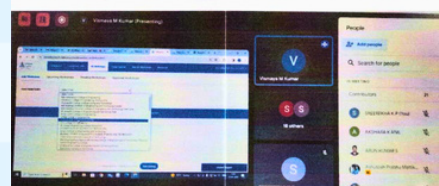
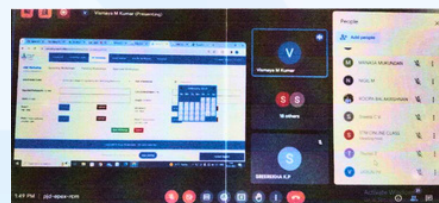
An introduction on Virtual Labs was given by Ms. Vismaya M Kumar and after that various experiments from electronics and communication domain were demonstrated. Ms. Anusha Salian demonstrated various experiments from the computer science domain after that. The morning session was a combined one for both electronics & communication domain and computer science domain. the session ended with a vote of thanks by FDP & Virtual Labs College Coordinator Ms. Sreerekha K P.

The afternoon session started by 1.30 pm with an Introduction on Virtual Labs by Ms. Vismaya M Kumar for the faculties of civil and mechanical engineering domains. After the introduction, Mr. Ashutosh Prabhu demonstrated various experiments from the mechanical engineering domain and Ms. Ashika Pai demonstrated various experiments from the civil engineering domain. The session ended with a vote of thanks by the HOD, Dr. Amitha I C.

Mr. Rahul V A, Assistant Professor in Electronics & Communication Department and also HOD of Applied Science & Humanities Department had already conducted experiments of basic electronics lab using Virtual Labs and had also given assignments through Virtual Labs.

Faculties participated in this training course to get experience in conducting experiments using Virtual Labs. The goal of this FDP is to instruct participants in the conduction of experiments using Virtual Labs.

This program helped for the attainment of PO9 - Individual and team work, PO10 - Communication and P012 - Lifelong learning.



CHRISTMAS 2K23





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