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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION

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VISION

The department strives to enrich professionals of high competency in the arena of Instrumentation Engineering & mould them to adopt the crux of matter in the field of Automation

MISSION

To prepare the students to envisage beyond the hypothetical thinking & belong to a new era of acquisition & application of Instrumentation Technology to meet the requisition of the changing world

FDP on

IoT based Autonomous Robot Design

Department of Electronics & Instrumentation Engineering conducted 3 days Faculty Development Program(online) on “IoT based Autonomous Robot Design”, sponsored by KTU on 28th April 2021 to 30th April 2021. The program is Inaugurated by Rev. Fr. James Chellamkottu Manager, VimalJyothi Group of Institutions. Mr. Arun Babu S, Chief Operating Officer, Bitsforge Embedded system Cochine, Mr. Sunil Paul, Co-founder and CEO of Srishti Robotics Technologies Pvt. Ltd., Cochin, Dr. Rajalakshmi, Professor, Karunya University, Coimbatore, Dr. Pamela, Professor, Karunya University, Coimbatore and Dr. A P Sudheer, Assistant Professor, NIT Calicut were the resource persons, handled the sessions on Software concepts in robot design, Hardware aspects in robot in robot design, Mobile robot kinematics and dynamics, Mobile robot application and introduction and recent trends and design aspects of robotic manipulators. The FDP had helps to explore the potential area and significance in the field of Industrial Robotics & automation. Mr. Dhanoj M & Mr. Shinu M M, Assistant Professors of EIE coordinated the FDP.

PLACEMENT



JISS MATHEW-S8 AEI

Placed as System Engineer in INFOSYS

STUDENT PARTICIPATION

Participated on Online Technical Quiz.

- All students of Dept. of Electronics & instrumentation engineering participated National level online quiz on power electronics & drives conducted by department of Electrical & Electronic Engineering, Mandure university on 27th may 2021.
- All students of S4 AEI participated National level online quiz on PLC & DCS conducted by department of Electrical & Electronic Engineering, Mandure university on 27th may 2021.

Participated in Tech Fest

- Sreehari T V of S4 AEI participated in the National Technical Event on “ Electric & Future mobility” on National Level Technical Fest of Mar. Athanasius College of Engineering, on 22nd May

Completed the Internship

- Parbin Baby of S4 AEI completed the 2 weeks internship on Industrial Automation conducted by Industrus Tech

WORLD ENVIRONMENT DAY 2021



ONLINE PTA MEETING

The PTA Meetings of S6 & S8 conducted online on 24th May & 26th May 2021 . Dr. Benny Joseph, the Principal, Mr. K J Sebastian Puthenpura, the management representative (VJEC), Mr. Justin Augustine, Training & Placement Officer, VJEC and faculty handling both theory as well as lab courses in attended the meeting. HOD of AEI department welcomed all to the meeting. Dr. Benny Joseph, the Principal, addressed the gathering to explain the importance of placement activities. The meeting is discussed with first internal exam result analysis, online class and placement activities.

FACULTY CORNER

FDP ATTENDED

- Dr. V Sampath Kumar, Dr. G Glan Devadhas, Mr. Dhanoj M, Mr. Shinu M M, Ms. Reshma K V, Ms. Shamy A, Ms. Jinsa Mathew, Mr. Jollykutty Sebastian and Mr. Thomas M S attended 3 days FDP on IoT based Autonomous Robot Design from 28 - 30 April 2021, conducted by Dept. of EIE, VJEC
- Mr. dhanoj M Attended 5 days IETE sponsored FDP on Python for Engineers from 26 - 30 April 2021.
- Dr, V Sampath Kumar Participated in DST sponsored FDP in Entrepreneurship from 30.03.2121 to 10.04.2021 conducted by CRISP and GoK sponsored FDP in Tech FOSS from 19.04.2021 to 23.04.2021 conducted by ICFOSS
- Mr. Jollykutty Sebastian Participated FDP on "ELECTRIC, HYBRID ELECTRIC VEHICLES AND CHARGING INFRASTRUCTURE" from 6th April 2021 to 10th April 2021

WEBINAR ATTENDED

- Dr. V Sampath Kumar attended Webinars on Solid State Drives organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 29/05/2021, "ASSESSMENT OF INCINERATION OF MUNICIPAL SOLID WASTE" organized by EnvoTech club, Department of Civil Engineering, Christ College of Engineering, Irinjalakuda on May 15, 2021, and International Webinar on "Exploring Realtime Technology" organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 31/05/2021.
- Mr. Dhanoj M Attended international webinar on EV Charging stations on 10th April 2021

WORKSHOP ATTENDED

- Ms. Reshma KV attended 3 days workshop on "Research Methodology" organized by Annai Vailankanni College of Engineering from 02.06 2021 to 04.06 2021

UPCOMING EVENT

**A Five Day ATAL Sponsored FDP
on
Virtual and Augmented Reality for Robotics
From 12th to 16th July 2021
In Association With**



**AICTE Training and Learning (ATAL)
Academy AICTE, New Delhi**

POs and PSOs of Department

POs

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

Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conditions using first principles of mathematics, natural sciences & engineering sciences.

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 & safety and the cultural, societal and environmental considerations.

Conduct Investigations of Complex Problems: Use research based knowledge and research methods including design of experiments, analysis & interpretation of data, and synthesis of the information to provide valid conclusions.

Modern Tool Usage: Create, select & apply appropriate techniques, resources & modern engineering & IT tools including prediction & modeling to complex engineering activities with an understanding of the limitations.

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

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

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

Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multi disciplinary settings.

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.

Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one own work, as a member and leader in a team, to manage projects and in multi disciplinary environments.

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.

PSOs

Students will have the ability to explore the design, installation & operation of the basic instrumentation systems used in industrial environments.

Students will have a strong foundation in mathematical, scientific & engineering fundamentals necessary to formulate, solve & analyze instrumentation problems related to industry & research

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