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METRON

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION

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

INSIDE THIS ISSUE

- FROM THE DESK OF THE HEAD- Page 1
- STUDENTS ACHIVEMENTS- Page 2
- RECENT TRENDS IN INSTRUMENTATION ENGINEERING TECHNOLOGY – Page 2
- CHRISTMAS CELEBRATION- Page 3
- FACULTY CORNER- Page3

“Science is about knowing,
engineering is about doing.”

– Henry Petroski

FROM THE DESK OF THE HEAD



Dr. V Sampathkumar

HOD EIE

AEI is a highly specialized interdisciplinary course having wide job opportunities in India and abroad in industries such as Automation, Electronics, Biomedical Instrumentation, Automobile, Power, Steel, Fertilizer, Chemical, Refineries, Cement Manufacturing, Sugar Plants, etc. So, the department focuses on the principle and operation of measuring instruments and process control systems used in designing, developing, installing, and managing the instruments that are used in monitoring and controlling automated systems.

Welcome to this world of Electronics and Instrumentation.

STUDENT ACHIEVEMENT

PROJECT SELCTED in 2ND LEVEL

Student projects got selection in Second level in National Innovation contest 2020 conducted by Institution's Innovation cell, AICTE. The team of Ms. Anusree K, Mr. Mahesg P G, Ms. Anamika and Mr. Salvin K Jose of S3 AEI on the project title 'IOT based Electronics total station for survey. And the taem of Mr. Mahesh PG & Ms. Anusree K with project on 'Personal Health Care Wearable Watch & Covid-19 remote health monitoring system', under the guidance of Dr. V Sampathkumar



Anamika C



Mahesh P G



Anusree K



Salvin K Jose

RECENT TRENDS IN INSTRUMENTATION

ENGINEERING TECHNOLOGY

In recent years, the development of the domestic industry on-the-spot test technology and modern power engineering technology adopts and has produced develop rapidly. Popularization and application along with electronic technology, sensor technology, computer technology, and control technology, adopted measuring technology means such as artificial acquisition test data, manual drawing curve and manually-operated only being replaced in the past by computer automatic measurement and control system, measurement and control accuracy, reliability, and stability is continuing to develop rapidly.

Managing big data in process control systems: A big data analysis in a process control system includes a data storage device configured to receive data from control system devices and store the process control data for our requirements. The big data system identifies various physical parameters from the process control data and analyze the parameters according to preset condition of combinations.

Remote test for critical infrastructure :Remote monitoring improves opportunities to react to damaged equipment before its condition worsens to a failure point.

Power grid quality control: new challenges for engineers: Concerns about the overpowering quality of all parts of the electricity grid, down to the level of individual consumers, have led to increased demand for equipment that can detect and record supply problems

Biomedical instrumentation, engineering sector: Biomedical instrumentation involves the application of engineering concepts to biology, medicine and health care to solve problems. It is a fast-growing area of engineering, and people would find themselves working in health services, the medical device industry, or research.

Artificial Intelligence Transformation in Healthcare: Artificial Intelligence and Engineering for Healthcare is evolving rapidly with large volumes of data and increasing challenges in cost and patient outcomes.

Climate monitoring: The satellite, which uses a variety of optical tools to calculate information important to precise climate modeling such as ice cover, cloud covering and height, air aerosols and water vapor, sea level and temperature, chlorophyll in oceans and on land and balance of input and output solar energy.

CHRISTMAS CELEBRATION

Christmas is the festival which inspires the spirit of sharing and caring. Department of Electronics & Instrumentation conducted an online Christmas celebration on 24th December 2020 through Zoom Meet. The celebration started with a prayer and Ms. Sneha Jose, S5 AEI welcomed the all participants. Dr. Benny Joseph, Principal VJEC delivered the presidential address. the chief guest of the event, Fr. Jinu Vadakkemulanjanal Principal VJIM gave the Christmas message to all and Fr. Thomal Valiplackal delivered the special christmas message and chrismass blessing. The event was filled with music, fun, games, art, magic and joyful moment.

FACULTY CORNER

FDP

- Dr. V Sampathkumar -Higher Education Conclave on NBA & ABET by Microsoft Partner and Mastersoft 9th January 2021

WEBINAR ATTENDED

- Dr. V Sampathkumar Participated in Dekho Apna Desh webinar by Ministry of Tourism on 22nd January 2021

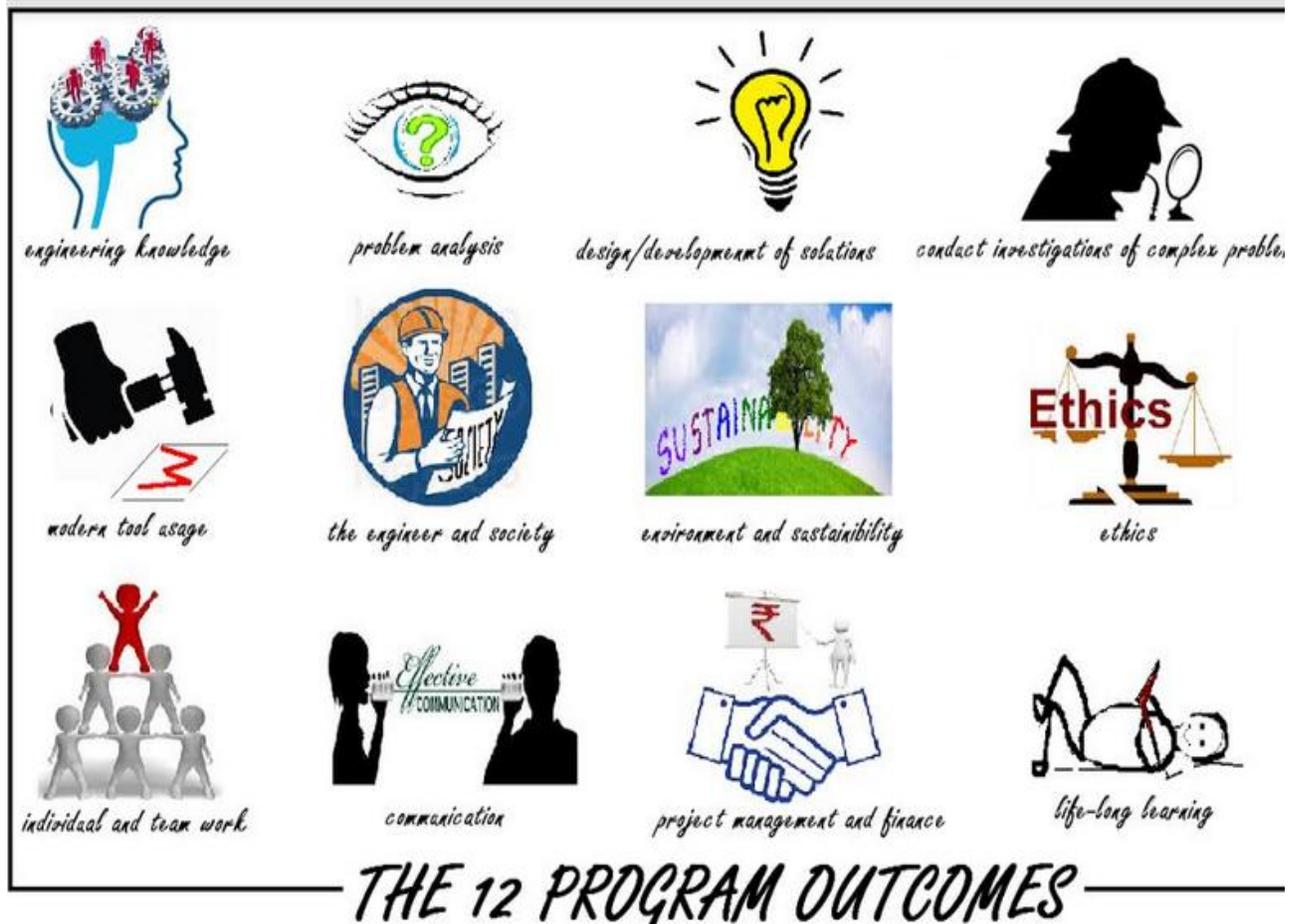
COURSE ENROLLED

- Ms. Shamy A and Mr. Shinu MM enrolled NPTEL course on Introduction to Embedded System Design

NOMINATED AS ISRO,IIRS OUTREACH PROGRAM COODINATROR

- Dr. V Samathkumar, HOD EIE, nominated to act as a coordinator for ISRO, IIRS outreach program, for the benefit of students of Vim al Jyothi Engineerinh college by availing thefree online courses conducted by IIRS.

POs and PSO of Department



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