

METRON

VIMAL JYOTHI ENGINEERING COLLEGE ELECTRONICS & INSTRUMENTATION ENGINEERING DEPARTMENT

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VISION & MISSION OF THE DEPARTMENT

VOLUME 9

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

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"Science can amuse and fascinate us all, but it is engineering that changes the world." —Isaac Asimov

NAVAYUVA - 2019

ISSUE 5



The 'Navayuva contest cum career guidance'-2019 conducted was bv the Department of Electronics and Instrumentation in association with UNNAT BHARAT ABIYAN on 12th January 2019. Honorable Chairman of Vimal Jyothi Group of Institutions Fr. Dr. Thomas Melvettath inaugurated the event in the presents of Administrator Rev. Fr. Jinu Vadakkemulanjanal, Head of the department, Staff and the students. Higher secondary students from malabar region participated in the Idea generation competition and the robotics workshop. Cash awards and certificates were distributed to the winners of the contest and participants of the Selected student projects workshop. and lab instruments were exhibited for the participants during the event.

Navayuva Contest cum Career Guidance 2019



Faculty Publications

- Ms Sudharsana Vijayan, Mr Shinu M M IEEE paper on "Survey on basic control schemes for continuous stirred tank system.
- Dr. V Sampath Kumar published a paper in International Journal of applied science and engineering
- Tharadevi, A.P., Glan Devadhas, G., Shinu, M.M published paper "Survey on Different Control Schemes for Distillation Columns" 2018 International Conference on Control, Power, Communication and Computing
- Swetha, C., Mohan, D., Glan Devadhas, G., Augustine, C. "Control Analysis of Magnetic Levitation System" 2018 International Conference on Control, Power, Communication and Computing
- Arun, V.R., Glan Devadhas, G., Shalet, K.S., Augustine, C. "Data Acquisition and Control of Multiple Stations Using HMI and NI USB-6212" 2018 International Conference on Control, Power, Communication and Computing
- Nk, T., Mm, S., Glan Devadhas, G., Mohan, D. "Control Schemes for a Nonlinear Conical tank System" (2018) 2018 International Conference on Control, Power, Communication and Computing
- Varughese, S.K., Prasad, A., Devadhas, G., Vijayan, S. 'Recent Developments in Control of Car like Robot using MP-MPC" (2018) 2018 International Conference on Control, Power, Communication and Computing
- Bibin Raj, V.S., Glan Devadhas, G. "A novel design for PV integrated buck converter using MPPT and sub MPPT" (2018) Journal of Advanced Research in Dynamical and Control Systems, 10 (8), pp. 28-36.
- Pravin Rose, T., Glan Devadhas, G."Design of fractional order PI controller with ABC and BBO algorithm for pH neutralization process using multiple tanks" (2018) Journal of Advanced Research in Dynamical and Control Systems, 10 (8), pp. 37-45.

Faculty Initiatives

- Mr. Shinu M M, Dr. Glan Devdas and Mr. Dhanoj Mohan attended 2 day workshop on 'Developing Digital Twin Modelica Enviornment' at Saintgits College of Engineering, Kottayam on 3,4 December 2018.
- Dr V Sampath Kumar- Proposal submitted to science & technology , UBA
- Dr V Sampath Kumar submitted project proposal for funding to ANERT and KSCSTR

Exhibition at Sree Sankara Vidya Peetam Mattanur



Upcoming Events

IEEE International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT-2019)

Department of Electronics & Instrumentation Engineering is organising IEEE International the second **Conference on Intelligent Computing**, Instrumentation and Control Technologies (ICICICT-2019) ". during 05^{th} -06th July 2019 with the theme of Intelligent Systems for Smart World. The registered and presented papers will be eligible for submission to the IEEE digital explore library for publication with ISBN XPLORE COMPLIANT 978-1-7281-0283-2 3 .The Extended version of the conference papers will be published in SCI,SCOPUS indexed journals.



Important Dates

Full Paper Submission	4^{th} March 2019
Notification of Acceptance	5th April 2019
Camera Ready Paper Submission	6 th May 2019
Author's Registration	$6^{\mathrm{th}}\mathrm{May}~2019$
Conference Date	$5^{\mathrm{th},}6^{\mathrm{th}}July~2019$



IEEE India Council G IEEE India Council Circuits and Systems Chapter

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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