



# METRON

## ELECTRONICS & INSTRUMENTATION ENGINEERING DEPARTMENT

December 2016

Volume 6, Issue 6

26th Edition

### VISION OF DEPARTMENT

- The department strives to enrich professionals of high competency in the arena of instrumentation engineering & mould them to adopt the crux of the matter in the field of automation.

### MISSION OF DEPARTMENT

- To prepare the students to envisage beyond the hypothetical thinking and belong to a new era of acquisition & application of instrumentation technology to meet the requisition of the changing world.

### Inside this issue:

Trainings attended by our faculty	2
Publications by Faculty & Students	2
Patents applied	2
Professional Society Memberships	2
IEEE Conference	3
MoU with Prolific	3
Kannur University Rank Holders	4
Workshop on Primavera	4
Expert Talk	4

## From HOD's Desk.....

Dear All,

It is my pleasure to introduce 26<sup>th</sup> edition of our department News letter 'Metron'. The odd semester of 2016-17 academic year ended with lively and successful academic programs. The department of EIE has organized 2 seminars and 6 workshops during this odd semester which helped our students to mould them towards various industrial needs for professional jobs. Also the department arranged various Faculty development programs in order to update the technical knowledge of our faculties. Our department has signed a Memorandum of Understanding with Prolific systems and Technologies, Bombay. It ensures placement to all our final year students and we have already started intensive training for them. The department could provide good placement to our 25 students from 2012-16 batch in various industries like Sun Industrial automation, Cotmac Electronics etc. It was a result of one month training in 'PG diploma in Industrial Automation' organized by us. I congratulate the coordinators of this event Mr. Clint Augustine and Mr. Vineet T Govind for their tiredless effort.

Our department has started ISA Vimal Jyothi Engineering College Student Section chapter on 15th November 2016. I congratulate Dr. G. Glan Devadhas, Faculty Advisors Akhil Jose, Elizabeth George, President Sukritha Raman Das, and Treasurer Jeffin Jaison for this achievement. I also congratulate our Kannur university B.Tech Rank holders(2012-16 batch) Ms.Bini Viswanath, Ms.Farzana T.K, Mr. Tijo Thomas and M.Tech toppers(2014-16 batch) Pranoy Mammen Roy, Parvathy Prasad and Anupama B.

Now we all are eagerly waiting to start our even semester classes. EIE department has completed all the academic preparations and plannings to welcome a fruitful even semester. It is made possible with the hardwork and commitment of our energetic staff members. I congratulate the newsletter team for their hardwork to present all the news before you, in time with systematic order. I wish an advanced Merry Christmas and Happy New Year to all the readers.

Reema Mathew A

## Heartfelt condolence

We, the management, Principal, Staff & students of Vimal Jyothi Engineering College, Chemperi express our deep grief & place on record our heartfelt condolence on the sad demise of Mr. Joseph Melvettath, F/O Rev. Fr. Thomas Melvettath, Chairman Vimal Jyothi Group of Institutions on 18 November 2016 & Mr. K M Sasidharan, F/O Drushya Sasidharan, S7 AEI on 06 November 2016. We join in the sorrows of the members of the bereaved family.

## Trainings attended by our faculty



1. Mr. Akhil Jose & Mr. Dhanoj M, attended a TEQIP—II ISTE sponsored Short Term Training Program on Industrial Automation & Virtual Instrumentation from 07 November to 11 November 2016 organized by Don Bosco Engineering College, Fatorda in association with Basaveshwar Engineering College, Bgalkot, Karnataka. The classes were handled by Smt. Chayalakshmy, Mr K Bhat & Smt Manjula. The program started with the inaugural ceremony on 07 November 2016 at 9.30 am. A field trip was organized to Schneider Company on 09 November 2016 afternoon. The session ended with a valedictory function on 11 November 2016.
2. Dr. G Glan Devadhas attended workshop for KTU researchers on Writing Project Proposals for FIST funding of DST organized by APJ Abdul Kalam Technological University, held at Rajagiri School of Engineering & Technology on 07 October.

## Publications of Faculty & Students

### PROGRAM OUTCOMES

1. Engineering Knowledge
2. Problem Analysis
3. Development of solutions
4. Investigation on complex problems
5. Modern tool usage
6. Engineer & Society
7. Environment & Sustainability
8. Ethics
9. Individual & Teamwork
10. Communication
11. Project Management
12. Life long learning

1. Dr. G Glan Devadhas, Mr. Akhil Jose & Mr. Avinash K K published a paper titled “ A Novel technique for patient health monitoring system” in the Journal of Chemical & Pharmaceutical Sciences. (ISSN 0974-2115)
2. Mr. Pranoy Mammen & Ms. Elizabeth George presented a paper titled “ Integrated design & control of a ternary reactive distillation column” in the National conference on recent trends in Electrical Engg & Industrial electronics, College of Engg, Vadakara on 14th & 15th October 2016
3. Mr. Jishnu S Thamban & Mr. Akhil Jose presented a paper titled “ Backstepping based non linear controller for chemical systems based on Lyapunov functions” in the National conference on recent trends in Electrical Engg & Industrial electronics, College of Engg. Vadakara on 14th & 15th October 2016
4. Dr. G Glan Devadhas published a paper titled” Inverse Kinematics Solution of a five joint robot using NARX Algorithm” in the Journal of Chemical & Pharmaceutical Sciences, Volume 9, Issue 4. ISSN: 0974-2115

## Patents Appied

1. RASAMENTRA—The automatic Rasam making machine by Dr. Sampath Kumar & Dr. G Glan Devadhas
2. Vehicle Parameter sensing & Control System by Shamy A, Vineed T Govind & Veena Madhu

## Professional Society Memberships

ISA Membership—

Dr. G Glan Devadhas, Akhil Jose, Elizabeth George, Sudharsana Vijayan, Keerthi Chacko, Avinash K K, Divya K, Veena Madhu, Dhanoj M.

SSI Membership—Dhanoj M

## ORGANIZING TEAM

### Chief Patron

Archbishop Mar Njaralakatt, Archdiocese of Tellicherry.

### Patrons

Rev. Fr. Dr. Thomas Melvettath, Chairman, VJEC.  
 Dr. Benny Joseph, Principal, VJEC.  
 Rev. Fr. Jinu Vedakkemulanjanal, Administrator, VJEC.  
 Rev. Fr. George Asarikunnel, Bursar, VJEC.

### Honorary Chairs:

Mr. Deepak Mathur, Chair IEEE India Council.  
 Dr. J. Jayakumari, Chair, IEEE India CAS Chapter.

### Conference Chair:

Prof. Dr. G. Glan Devadhas, Professor, EIE, VJEC.

### Publication Chairs:

Prof. Dr. V. Sampath Kumar, Professor, EIE, VJEC.  
 Prof. Dr. D. Anto Sahaya Dhas, Professor, ECE, VJEC.  
 Prof. Dr. G. Justin Sunil Dhas, Professor, EEE, VJEC.

### Technical Programme Chairs:

Prof. Reema Mathew, A, Associate Professor, EIE, VJEC.  
 Prof. Abdul Latheef M M, Associate Professor, EIE, VJEC.

### Organizing Chairs:

Prof. Dhanoj Mohan, Asst Professor, EIE, VJEC.  
 Prof. Akhil Jose, Asst Professor, EIE, VJEC.

### Finance Chairs:

Prof. Avinash K.K, Asst Professor, EIE, VJEC.  
 Prof. Divya K, Asst Professor, EIE, VJEC.

### Publicity Chairs

Prof. Shinu M M, Asst Professor, EIE, VJEC.  
 Prof. Keerthi Chacko, Asst Professor, EIE, VJEC.

### Co-ordinators:

Prof. Clint Augustine, Asst Professor, EIE, VJEC.  
 Prof. Vineed T Govind, Asst Professor, EIE, VJEC.

### Programme Committee

Prof. Shamyra A, Asst Professor, EIE, VJEC.  
 Prof. Reshma K V, Asst Professor, EIE, VJEC.  
 Prof. Jinsa Mathew, Asst Professor, EIE, VJEC.  
 Prof. Shalet K S, Asst Professor, EIE, VJEC.  
 Prof. Sudharsana Vijayan, Asst Professor, EIE, VJEC.  
 Prof. Elizabeth George, Asst Professor, EIE, VJEC.  
 Prof. Veena Madhu, Asst Professor, EIE, VJEC.

### Address For Communication

Dr. G. Glan Devadhas  
 Professor Dept. of EIE,  
 Conference Chair ICICICT-2017,  
 Vimal Jyothi Engineering College,  
 Jyothi Nagar,  
 Kannur Dist., Kerala,  
 India - 670 632  
 Email: ei\_events@vjec.ac.in  
 Website: http://www.vjec.ac.in/  
 Contact No: 0460-2213399, +919894896257  
 Mr. Dhanoj. M: +919446403312  
 Mr. Akhil Jose: +919497820614



**VIMAL JYOTHI**  
**ENGINEERING COLLEGE**  
 Affiliated to APJ Abdul Kalam Technological University &  
 Kannur University | Approved by AICTE  
 Under the Archdiocese of Malabar



# ICICICT-2017

## International Conference on Intelligent Computing, Instrumentation and Control Technologies

### MANUSCRIPT SUBMISSION

The authors are expected to submit original research papers which have not been submitted elsewhere in other Conference and Journals. Papers should be submitted through easy chair link <https://www.easychair.org/conferences/?conf=icicict2017>. The authors should strictly adhere to the IEEE format. For further queries in this regard, please email to [ei\\_events@vjec.ac.in](mailto:ei_events@vjec.ac.in)

### REGISTRATION FEE

Category	Delegates from India (IEEE Members)	IEEE Non-Members	Foreign Delegates
FG/Full Scholar	Rs. 4000/-	Rs. 5000/-	US\$ 100
Academicians	Rs. 5000/-	Rs. 6000/-	US\$ 200
Industry Delegates	Rs. 6000/-	Rs. 7000/-	US\$ 200
Accompanying Person	Rs. 2000/-	Rs. 2000/-	US\$ 75

Based on the review, selection, acceptance, registration and presentation the papers will be published in IEEE Xplore digital library. If the papers are presented by a single author, he/she must register for the conference, if it is more than one author, at least one of the author must register for the conference on or before 6<sup>th</sup> June 2017. Participants of the conference may address their queries if any, regarding the paper submission or any other matter to the email [ei\\_events@vjec.ac.in](mailto:ei_events@vjec.ac.in). A late registration fee (after 6<sup>th</sup> June 2017) of Rs.500/- should be paid along with registration amount till 25<sup>th</sup> June 2017. For more details and registration form, please refer to <http://www.vjai.ac.in/>

### IMPORTANT DATES

Full Paper Submission : 4<sup>th</sup> April 2017  
 Notification of Acceptance : 5<sup>th</sup> May 2017  
 Final Paper Submission and Author's Registration : 6<sup>th</sup> June 2017  
 Conference Date : 6<sup>th</sup> and 7<sup>th</sup> July 2017



Electronics & Instrumentation Department is planning to conduct an IEEE sponsored International Conference on 6<sup>th</sup> & 7<sup>th</sup> July 2017. The Conference chair is Dr. G Glan Devadhas & the organizing chairs are Mr. Akhil Jose & Mr. Dhanoj M. The authors are expected to submit original research papers which have not been submitted elsewhere in other conference and journals. Papers should be submitted through easy chair link <https://www.easychair.org/conferences/?conf=icicict2017>. The authors should strictly adhere to the IEEE format. For further queries in this regard, please email to [ei\\_events@vjec.ac.in](mailto:ei_events@vjec.ac.in)

## MOU with Prolific Industries Ltd



An MOU was signed between Vimal Jyothi Engineering College, Electronics & Instrumentation Engineering Department & Prolific Industries Ltd on 11 November 2016. This Memorandum of Understanding will help the students of final year to get a placement as soon as they finish their course.

## Editorial Board

### Staff Incharge :

Akhil Jose,  
Asst Prof. EIE

### Staff Editor :

Dhanoj M,  
Asst Prof. EIE

### Student Editor:

Mr. Rahul Kunhiraman.  
S5 EIE

## KANNUR UNIVERSITY RANK HOLDERS

### B.Tech in Applied Electronics & Instrumentation



Bini Vishwanath Farzana T K Tijo Thomas  
1st Rank 2nd Rank 3rd Rank

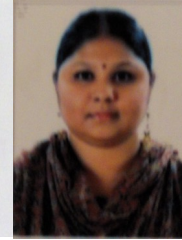
Pranoy M

1st Rank



Parvathy

2nd Rank



Anupama B

3rd Rank



### M.Tech in Control & Instrumentation

## INDUSTRIAL VISIT

The third year students of Applied Electronics & Instrumentation went on an industrial visit to Anna Aluminium & Kitex from 05 to 08 October 2016. Four faculties accompanied the batch were Mr. Akhil Jose, Mr. Vineed T G, Ms. Shamy A & Ms. Jinsa Mathew.



The final mini project presentation was conducted on 20 October 2016. All the batches have come out with their mini projects models successfully. A quadcopter prepared by our students (Akhil Joseph, Akhil Thomas, Jesbin Thomas & Mohammed Nazil) under the guidance of Miss Shalet K Sready to take off.



## Workshop on PRIMAVERA



A one day workshop was conducted on "PRIMAVERA" on 31 October 2016 for S5 AEI students. The Coordinators of the events was Mr. Vineed T Govind & Ms. Divya K . Resource person was Mr. Shameez, Center head, CAD Center, Payyannur.

## NEW GENERATOR

### FACILITY

A New generator was inducted on 29th July 2016. It has a capacity of 250kVA. It was inaugurated by Rev. Thomas Melvettath.



## Expert talk on Current trends in Industrial Automation



An expert talk was conducted on "CURRENT TRNEDS IN INDUSTRIAL AUTOMATION & ROBOTICS" on 21 October 2016 for S7 AEI students. The Coordinators of the events was Ms. Shalet K S & Ms. Jinsa Mathew. Resource person was Mr. P Sai Samanth, Project & Marketing head, Involute Automation, Hyderabad.