

**Institute Vision**  
"Moulding Engineers par  
Excellence with Integrity  
Fairness and Human Values".

**Institute Mission**

- We commit to develop the institution as a Centre of Excellence of International Standards
- We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services.
- We help each and every student in their personal growth into mature and responsible individuals.
- We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve the humanity.
- We promise to ensure a free environment where quest for the truth is encouraged.

**Department Vision**

**Mould globally competent Electrical and Electronics Engineers.**

**Department Mission**

1. To provide the best academic ambiance.
2. To develop technical and soft skills to cope up with the emerging global scenario.
3. To enhance knowledge by industry and alumni interaction.

**Program Educational Objectives (PEO)**

1. Graduate shall have the foundation in mathematical, analytical and scientific skills to design technically and economically viable engineering solutions.
2. Graduate shall have the culture and attitude of team work, to help in upbringing socially committed Entrepreneurs engaged in lifelong learning.
3. Graduate shall have professional communication skills, social values and work ethics.

# विद्युत्

VOL. XI ISSUE 1 Dec 2016

## **VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING**

**About the Department**

The Department of Electrical and Electronics Engineering of VJCET was established in the year 2004, with eminent and well-qualified faculty and excellent infrastructure. The department is recognized for its excellence in teaching and service to the professional community and it offers Undergraduate Programme with an intake of 120 students. In a very short span, the department has emerged with four University Ranks and is consistent with its good pass percentage and excellent placement records. The academic strength of the faculty is reflected by the alumni, many of whom are in top echelons of industry and academia both in India and abroad. The students of the department play leading roles in all activities of the college.

## FROM PRINCIPAL'S DESK



Technical education is the backbone of every nation and is the stepping stone for a country to reach the pinnacle. The main focus of education is to empower students with sound knowledge, experience and training both at the academic level of Engineering and in the most competitive industrial world. The department of Electrical and Electronics Engineering, with its infrastructure facilities and state-of-the-art equipments combined with a galaxy of competent and dedicated faculty contribute to an enjoyable and effective learning experience. It is highly appreciable that the department focuses in contributing to the knowledge bank through the initiatives taken to host Nuclear Energy Awareness Seminar (NEAS 2016). As the saying goes, "A desire can change nothing, a decision can change something but a determination can change everything." My best wishes to the department team who work with determination!

**Dr. Josephkunju Paul C.**

## FROM H.O.D.'s DESK



A remarkable year of great achievements has passed by. The effort made by the students and the faculty members of Electrical and Electronics Engineering Department towards the development of technical and social responsibilities among the young engineers is quite appreciable. Let's strive forward this journey of excellence by empowering our students into globally competent electrical engineers to fulfill the technological needs of the society. I wish all the success to the newsletter "VIDYUTH".

**Prof. Paul Antony**

## I. List of Faculty Publications

- Dr. K K Rajan published a paper on "Review on evaluation of hydraulic characteristics of core flow monitoring mechanism for PFBR", in Annals of Nuclear Energy, Vol -101, Page 322-329.
- Dr. K K Rajan published a paper on "Experimental studies on acoustic leak detection in steam generators of Fast Breeder Reactor" in Journal of Maintenance Engineering.
- Ms. Mereya Baby and Ms. Smitha Jacob published a paper on "Power flow control in a transmission line using D-FACT devices" in International Journal of Informative and Futuristic Research.

## II. Newly Joined faculty since July 1, 2016

### • Mr. Jose Jacob

Completed his Bachelor's Degree from Viswajyothi College of Engineering and Technology, affiliated to M.G. University and Masters Degree from Vellore Institute of Technology (VIT), with specialization in Power Electronics

### • Ms. Sonia Sunny

Completed her Bachelor's Degree from Mar Athanasius College of Engineering & Technology, Kothamangalam, affiliated to M. G. University and Masters Degree from Rajiv Gandhi Institute of Technology, affiliated to M. G. University with specialization in Industrial Drives & Control.

### • Ms. Merin Raphael

Completed her Bachelor's Degree from METS School of Engineering, Mala, affiliated to Calicut University and Masters Degree from Nehru College of Engineering and Research, Thrissur, affiliated to Calicut University, with specialization in Power Electronics and Drives.

### • Ms. Sherin Tom

Completed her Bachelor's Degree from Saintgits College of Engineering and Technology, affiliated to M. G. University and Masters Degree from Saintgits College of Engineering and Technology, affiliated to M. G. University with specialization in Power Systems.

- **Ms. Aryasree G**

Completed her Bachelor's Degree from Viswajyothi College of Engineering and Technology, affiliated to M. G. University and Masters Degree from SNGCE, affiliated to M. G. University, with specialization in Power Electronics.

- **Ms. Steffy Tresa Loui**

Completed her Bachelor's Degree from Viswajyothi College of Engineering and Technology, affiliated to M.G. University and Masters Degree from College of Engineering Trivandrum, affiliated to Kerala University, with specialization in Guidance and Navigational Control.

- **Ms. Merin Sunny**

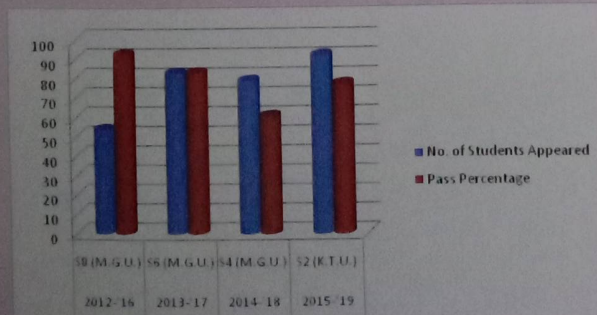
Completed her Bachelor's Degree from Ilahia College of Engineering and Technology, affiliated to M.G. University and Masters Degree from Ilahia College of Engineering and Technology, affiliated to MG University, with specialization in Power Electronics.

## II. Current Placement Statistics of 2013-2017 Batch

As on 15th December 2016, twelve students of final year have been placed in Infosys.

### I. University Exam Result

Batch	Class	No. of Students Appeared	Pass Percentage
2012-'16	S8 (M.G.U.)	54	92.59
2013-'17	S6 (M.G.U.)	83	83.13
2014-'18	S4 (M.G.U.)	79	60.76
2015-'19	S2 (K.T.U.)	92	77.17



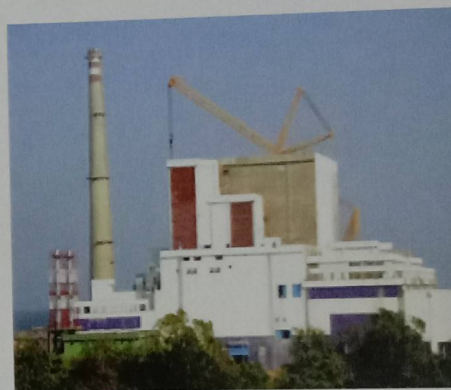
### III. Details of industrial visits by the students.

- Students of S5 EEE A & EEE B visited Peechi Hydro Electric Project as part of their industrial visit.
- Students of S3 EEE completed Internships at HOCL, KEL, Southern Railway and The Travancore-Cochin Chemicals Ltd.

### IV. Technical Visits/Seminars/Short Term training programmes

- **Kalpakkam Visit**

Dr. K. K. Rajan and Mr. Aneesh Kurian visited Indira Gandhi Centre for Atomic Research, Kalpakkam from 29th and 30th July 2016.



- Industry Institute Interaction Cell (III Cell) with support of Electrical and Electronics Department of

Viswajyothi College of Engineering and Technology (VJCET) in association with various units of Department of Atomic Energy, Government of India, organized Nuclear Energy Awareness Seminar (NEAS) on 30th September and 1st October 2016.

- Prof. Paul Antony chaired session on "Relevance of FBRs and Experience on FBTR" in Nuclear Energy Awareness Seminar.
- Ms. Cini K co-chaired session on "Power scenario and Role of Nuclear Energy" in Nuclear Energy Awareness Seminar.
- The department is organizing a one week Faculty Development Program in Application of Power Electronics in Modern Power Systems on 3rd – 7th January, 2017 in association with ISTE.
- Mr. Jomu M George Completed certified course on "ETFM2016.1x: Fundamentals of

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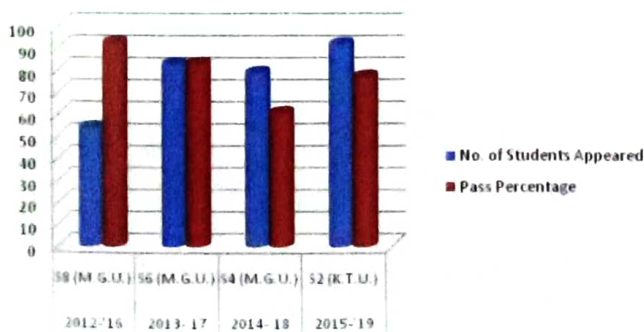
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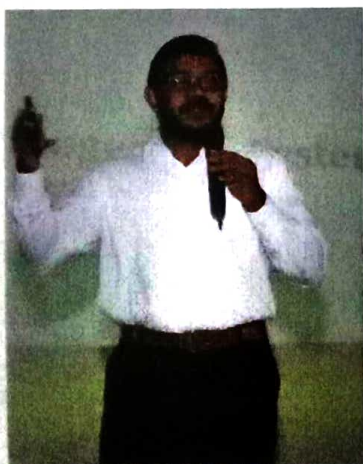
Market Structure”, a course of study offered by NYIF, an online learning initiative of New York of Institute of Finance through edX.

#### V. Training programmes organized outside and attended by the department faculty.

- Mr. Jose Jacob attended a Two Weeks Faculty Development Programme in Entrepreneurship at Amal Jyothi College of Engineering and Technology, Kanjirappally, from 13th to 24th December, 2016.
- All faculty members of EEE department attended Nuclear Energy Awareness Seminar conducted by Industry Institute Interaction Cell of VJCET in association with Indira Gandhi Centre for Atomic Research, Kalpakkam on 30th September and 1st October.

#### VI. Institutional / Departmental Responsibilities:

- Dr. K K Rajan has been appointed as Nodal Officer of Innovation and Entrepreneurship Development Cell (IEDC).
- Mr. Sony Kurian took charge as Union Advisor for the academic year 2016-17.



Technical Talk by  
Mr. Nissim Ahamed Kasim

- Mr. Babu T Chacko continued as the Branch Counselor of IEEE, VJCET Chapter.

- Mr. Sharone Varghese assumed charge as Program Officer of NSS Unit.

- Ms. Cini K took



charge as Department Association In-Charge.

#### VII. Professional Society activity.

- IEEE: Taking into consideration the keen interest shown by the IEEE student volunteers of the student branch, an Arduino workshop was conducted on 13th August, 2016.
- Student chapter Society Energy Engineers and Managers (SEEM) has started functioning in the department coordinated by Mr. Aneesh Kurian.

#### VIII. Student achievements :

- Ms. Hanna George of S5 EEE B has been elected as Union Vice-Chairman.

- Mr. Basil George of S5 EEE A has been elected as Union General Secretary.

- Mr. Hafeez Nazar, S3EEEEA was selected as CFO of Innovation and Entrepreneurship Development Cell (IEDC VJC).

- Mr. Mathews P Mathew, 2012-2016 batch, got placement offer from GE India, Bangalore.

- Mr. Saran Sankar, Mr. Sachin Sabu and Mr. Paulson Joseph of S3 EEE B participated in Hub Level Presentation Competition on Energy Efficient Dream Home organized by IEEE Power and Energy Society at Rajagiri School of Engineering and Technology.



Ms. Hanna George



Mr. Basil George

Inauguration of NEAS Seminar



- Manisha Mariam Vincent of S7 EEEA participated in the IEEE region 10 congress ( Asia Pacific Region Congress ) at Bangalore in August 2016.

- Ann Mary Ajay participated in the All India Student Young Professional Women in Engineering Congress, LNMIIT, Jaipur in October 2016.

**IX. Extra-curricular / Co-curricular activities organized for the students (Various club activities).**

- Ms. Akshaya Prashanth K, Ms. Anjana Thomas, Ms. Mary Jesna P J, Ms. Mary Tesna P J, Ms. Sansanna C Prince, Ms. Irene Mathew, Ms. M J Krishnapriya, Ms. Rona Mol Johny and Ms. Anna Biju of S3 EEE A performed in Karshakadinam organized by Avoly Gramapanchayath-Krishibhavan.

**X. Invited talks / Consultancy projects by the department faculty.**

- Technical talk on “Instrumentation & Control System of a Spent Fuel Reprocessing Plant by

Mr. James Joseph, Head, Process Instrumentation & Control Section, BARC Facilities, Kalpakkam on 14th October 2016.

- Technical Session on “Glimpse into the latest in Electrical Engineering” by K P Kesavan Nair, Scientific officer, Head, Electrical Service Division, Indira Gandhi Centre of Atomic Research, Kalpakkam, Department of Atomic Energy on September 6th 2016.

- Technical talk by Mr. Nissim Ahamed Kasimm, Consultant SEEM on 31st August, 2016.

**XI. Association Inauguration**

- Mr. Jayakumar (National Joint Secretary Society of Energy Engineers and Managers) inaugurated the association activities for academic year 2016-17 and also inaugurated Society of Energy Engineers and Managers (SEEM) Student Chapter on 31st August, 2016. Mr. Azeem K, Joint Secretary, SEEM Kerala, delivered a Technical talk thereafter.

# Industrial Visits

