

## ELECTRICAL GNOSYS

VOLUME 11

ISSUE 10

## HOD'S DESK

Prof. Laly James



I am happy to announce the yet another edition of "ELECTRICAL GNOSYS", August 2022 is ready to publish. The Newsletter is presenting a peek to the growth of our department on many fronts. I am content with the efforts put forward by staff and students for past month and also the work done to publish our newsletter in the midst of university exams.

The advisory meeting conducted during the month of July and August for internal mark finalization. Also, I am glad to inform the achievement of dear Dr. Teena George for successfully defending PhD thesis in the month of July.

We have conducted online PTA meeting for S2 & S4 EEE to provide guidance for the students to preparations for the coming university exams.

I wish all the success for all students for the university exams commencing in August 2022.

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## VISION:

To evolve as a centre of excellence, to train students in contemporary technologies, to meet the needs of global industry and to develop them into skillful engineers instilled with human values and professional ethics.

## MISSION:

To produce competent and disciplined Electrical Electronics Engineers through delivery of quality education to meet the ongoing global challenges in alignment with technical education system and society.

## **WELCOME OUR NEW CHAIRMAN**



**Rev. Fr. Antony Muthukunnel**



**New chairman Fr. Antony Muthukunnel was welcomed to VJEC by Manager Fr. James Chellamkottu, VJEC Principal Dr. Benny Joseph, VJIM Principal Fr. Dr. Jinu Vadakkemulanjinal, P.R.O Mr. Sebastian Puthenpura, Staff and students on 10th August 2022.**

# Faculty Achievement

## *Congratulations Dr. Teena George*



**Dr. Teena George (Assistant professor, EEE)** has successfully defended her thesis on 04/07/2022, in front of the members of Viva-voce Board nominated by the Hon. Vice-Chancellor of KTU.

**Research Title : Design and Analysis of Type-IV Wind Energy Conversion System**

Board Members:

1. Chairman :**Dr. Shalij P.R., Dean Research** ( Chairman of the Board ), APJ Abdul Kalam Technological University, Thiruvananthapuram.
1. External Examiner : **Dr. D P Kothari**, Former Prof & Head, Centre For Energy Studies, Indian Institute of Technology, Delhi.
2. Subject Expert : **Dr. G.Saravana Ilango**, Associate Professor, Department of Electrical Engineering, National Institute of Technology, Tiruchirappalli.

Research Guide : **Dr. Jayaprakash P.**

Research Centre : Government College of Engineering, Kannur.

# Faculty Achievement

The list of publication of Dr. Teena George based on research are,

## Journal Publications

1. Teena George, Jayaprakash Pychadathil "Maximum Power Tracking and Power Sharing in Grid Connected WECS Using Modified PFC Rectifier and PR Controlled Inverter", *Electric Power Components and Systems*, vol 48, issue 14-15, pp.1584-1597, Jan 2021. doi: 10.1080/15325008.2020.1857473.(SCIE)
2. T. George, P. Jayaprakash, U. Subramaniam and D. J. Almakhles, "Frame-Angl Controlled Wavelet Modulated Inverter and Self-Recurrent Wavelet Neural Network-Based Maximum Power Point Tracking for Wind Energy Conversion System," in *IEEE Access*, vol. 8, pp. 171373-171386, 2020, doi: 10.1109/ACCESS.2020.3025309.(SCIE)
3. Teena George, Jayaprakash P., Tinu Francis, C.E.S. Sreedharan "Wind Energy Conversion System Based PMSG for Maximum Power Tracking and Grid Synchronization Using Adaptive Fuzzy Logic Control," Accepted for publication in *Journal of Applied Research and Technology (Scopus)*

## Conference Proceedings

4. Teena George, C. P. Archana and P. Jayaprakash, "Maximum power tracking and power factor correction in PMSG driven wind energy system," 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Chennai, 2017. (Scopus)
5. Teena George, P. Jayaprakash "Maximum Power Tracking and Power Sharing in PMSG Driven Wind Energy Conversion System Connected to the Grid" International Conference on System Energy and Environment, ICSEE- 2017.
6. Teena George, C. P. Archana, and P. Jayaprakash., "Wavelet Modulated Inverter for WECS using Permanent Magnet Synchronous Generator," 2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Chennai, India, 2018. (Scopus)
7. "H. Unais, P. Jayaprakash and Teena George, "Optimum Torque - Zero d-axis Current Control of Direct Driven PMSG Based Wind Energy Conversion System," "Optimum Torque - Zero d- axis Current Control of Direct Driven PMSG Based Wind Energy Conversion System" International conference on Power Electronics and Renewable Energy Applications. (Scopus)
8. Teena George, P. Jayaprakash, Tinu Francis "Adaptive Fuzzy Logic Control for Maximum Power Tracking and Grid Synchronization of PMSG Based Wind Energy Conversion System" International Conference on Technological Convergence in Engineering, Energy, and Sustainability, July 2020.

# CONGRATULATIONS



Mr. Noyal Jose ( S6, EEE) was honored in the Innovators meet at Trivandrum. He received a funding of 2 lakh rupees and certificate for the idea” Coffee Harvester” from Honorable Higher education Minister R. Bindu.



വിമൽജ്യോതി എൻജിനീയറിംഗ് കോളജ് വിദ്യാർത്ഥി നോയൽ ജോസ് ജേതി ആർ. ബിന്ദുവിൽനിന്ന് പ്രശസ്തിപത്രം ഏറ്റെടുക്കുന്നു.

## കാഴ്ചകർഷകരായി വിമൽജ്യോതിയിൽനിന്നൊരു പുത്തൻ സ്റ്റാർട്ടപ്പ്

ചെന്നൈ. വിമൽജ്യോതി എൻജിനീയറിംഗ് കോളജ് വിദ്യാർത്ഥി നോയൽ ജോസിന്റെ ആശയത്തിന് സംസ്ഥാന സർക്കാരിന്റെ അംഗീകാരം. കേരള സ്റ്റാർട്ടപ്പ് മിഷന്റെ ആഭിമുഖ്യത്തിൽ നടന്ന ഐഡിയ ചലഞ്ച് മത്സരത്തിൽ നോയൽ അവതരിപ്പിച്ച കോഫി ഹാർവെസ്റ്ററിനാണ് അംഗീകാരം. കാപ്പി കർഷകർക്ക് സഹായകമാകുന്നതാണ് ഈ കണ്ടുപിടിത്തം. തിരുവനന്തപുരത്ത് നടന്ന ചടങ്ങിൽ മുന്തി ആർ. ബിന്ദു രണ്ടു ലക്ഷം രൂപയും പ്രശസ്തിപത്രവും നോയലിന് കൈമാറി. വയനാട് സ്വദേശിയായ നോയൽ മൂന്നാംവർഷ ഇലക്ട്രിക്കൽ ആൻഡ് ഇലക്ട്രോണിക്സ് വിദ്യാർത്ഥിയാണ്. കോളജ് രക്ഷാധികാരി ആർച്ചബിഷപ്പ് മാർ ജോസഫ് പാപ്പാണി, ചെയർമാൻ മോൺ. ആന്റണി മുതുകുനേൽ, മാനേജർ ഫാ. ജയിംസ് ചെല്ലങ്കോട്ട്, പ്രിൻസിപ്പൽ ബെന്നി ജോസഫ്, ലാലി ജെയിംസ് എന്നിവർ നോയലിന്റെ നേട്ടത്തെ അഭിനന്ദിച്ചു.



# *Congratulations*

## *International Recognition*



**Mr. Sharan Rathnakumar (S8 EEE)**  
(Chair—IEEE IAS)  
Awarded

**Continued Outstanding Performance**  
student branch chapter for VJEC IAS  
**SB**  
In  
IAS CMD Award Results 2022

Got Travel Grant of **\$1275** for attending  
IAS annual meet in **USA**

## *International contest winner*



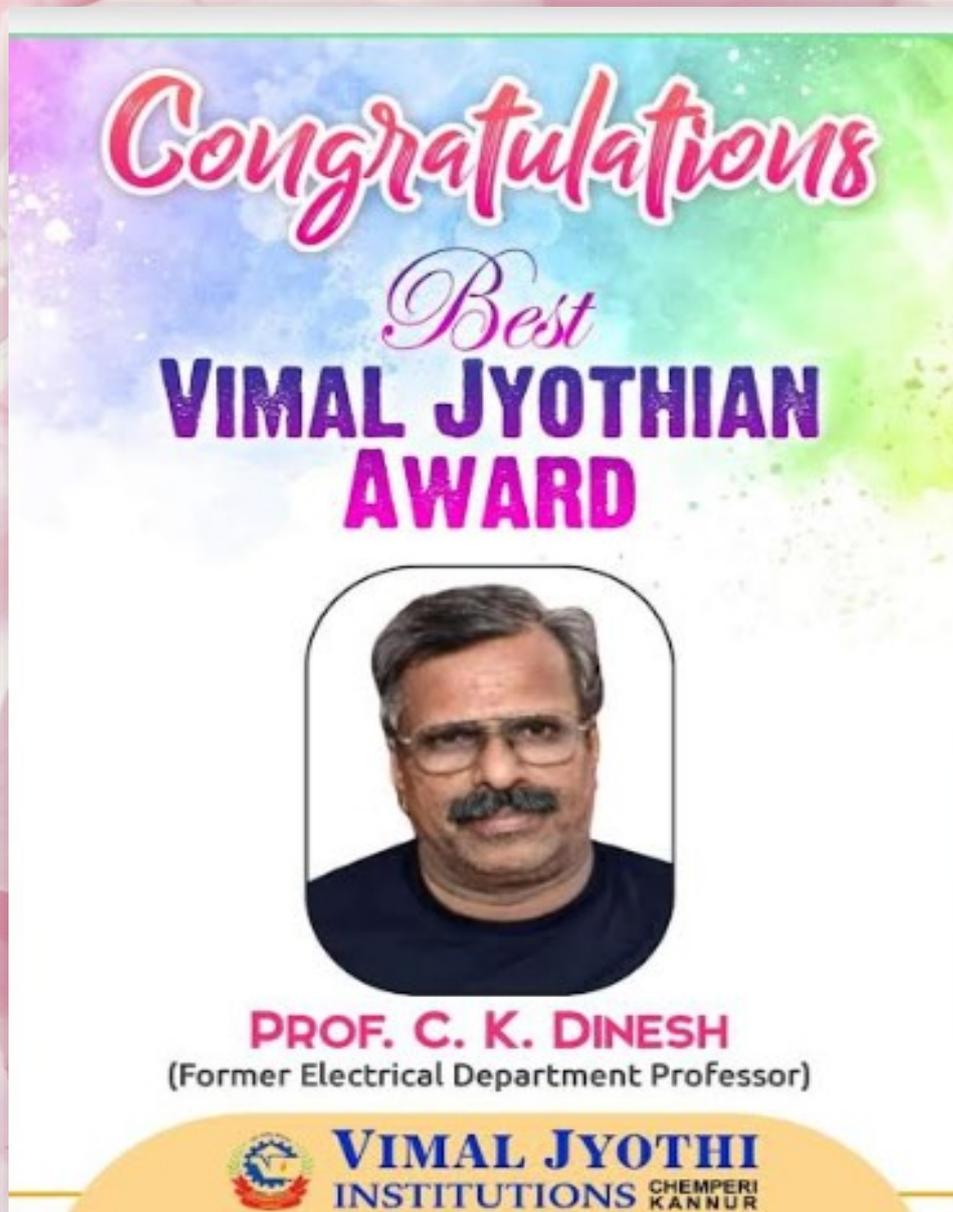
**Mr. Noyal Jose (S6 EEE)**

**3rd Place winner**

**For UNDERWATER ROBOT**  
(Guided By Jyothi Joseph)

in  
IAS CMD Humanitarian Contest 2022

Got Travel Grant of **\$1275** for attending  
IAS annual meet in **USA**



**Our dearest Prof. Dinesh C K (former Asso. Professor, EEE) was elected for the best Vimal Jyothian Award 2022. He worked in department in the period 2002 — 2021.**



**Our dearest Shelma George (Assistant Professor, EEE) & Dr. Nivil V Joseph tied knot on July 4th at St. Joseph's Major Archi Episcopal Church, Peravoor. We wish you a happy married life.**

## ONLINE PTA MEETING



Online PTA meeting for S2 EEE was held on 4th August 2022 at 8.00 pm to improve the preparation of students for the upcoming university exams and also to enlighten the parents to provide necessary support for the exam. Hod Prof. Laly James and tutors Ms. Tintu George (Asso. Prof) , Ms. Athira M Thoma(Asst. Prof) were present with the parents and students.

Online PTA meeting for S4 EEE was held on 9h August 2022 at 8.00 pm to improve the preparation of students for the upcoming university exams and also to enlighten the parents to provide necessary support for the exam. Hod Prof. Laly James and tutors Mr. Jijo Joseph(Asst. Prof) , Ms. Ankitha Sebastian (Asst. Prof) were present with the parents and students.

Third Advisory Committee meeting for the EEE classes were conducted during the month of July and August 2022.

S2 EEE meeting conducted on 27th July at 12.30 pm.

S4 EEE meeting was conducted on 6th August at 12.45 pm.

S6 EEE meeting was held on 2nd August 2022 at 10.00 am.

## Department Celebration



Department of EEE celebrated the completion of PhD by Dr. Teena George

## Sent off meeting



Sent off meeting to Mr. Aneesh Thomas at EEE department

## Farewell



Mr. Aneesh Thomas, Technical Staff of EEE left VJEC by 30th June 2022. We wish you all the best in the future.

## PITCH YOUR SPARK

**VIMAL JYOTHI**  
ENGINEERING COLLEGE

**IEEE**

**'Pinch Your Spark'**

**Arduino**  
**Workshop**

**July 28**  
**9.30 to 3.30**

IAS IEEE INDUSTRY APPLICATIONS SOCIETY

IEEE PES Power & Energy Society

IEEE Women in Engineering

PELS IEEE POWER ELECTRONICS SOCIETY Powering a Sustainable Future

Powered by TRY Engineering

STEM Portal

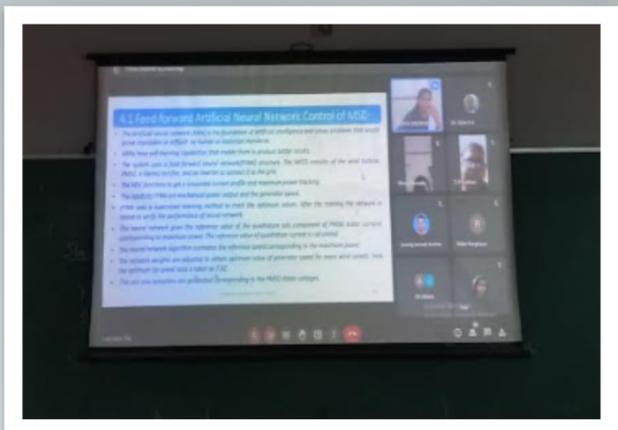
An Idea pitching competition was conducted by EEE department to encourage the higher secondary schoolm students towards technical education on July 28th at VJEC. The program was in association with IEEE–PES, PELS and IAS.

## DIGITAL LAB PROJECT EXHIBITION



Exhibition of digital electronics based project by S4 EEE on 2nd August 2022 at digital electronics lab.

## GAP FILLING ACTIVITY FOR S6 EEE



Gap filling activity for power electronics, control system and power system analysis was held on 4th July 2022. The event topic was Analysis and control of type IV wind energy conversion system (Phd Defence by Dr. Teena George)



## BOOT CAMP



**Boot Camp introductory class by Prof. Laly James, HoD EEE**

# STUDENT PARTICIPATION



Students from S4 EEE participated in workshop organized by CET on 25th and 26th June 2022. Students participated are Mr. Agil Mathews, Mr. Albin James, Mr. Amrith Raj, Mr. George Gibson, Mr. Ronith Sajeev and Mr. Vaibhav O.



## FACULTY PARTICIPATION



Dr. Teena George participated in Institute Innovation Council Regional Meet 2022, Conducted by Ministry of education , Govt. of India and AICTE on 6th August 2022.

## *Welcome Back*



Ms Shelma George (A. P, EEE)



Ms Indulekha K M A. P, EEE)

Joining back to EEE department after the Phd course work from 1st August 2022.



**Staff Editor:**  
**Jyothi Joseph**  
**(A.P, EEE)**

**Student Editor:**  
**Sayooj Devan M B**  
**(S6 EEE)**

