

# **VIMAL JYOTHI ENGINEERING COLLEGE**

**Jyothi Nagar, Chemperi PO, Kannur, Kerala India, 670632**

## **ANNUAL REPORT**

**2018-2019**

Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thalassery established in the year 2002 and is managed by Meshar Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). VJEC is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology.

With profound insight into the resource requirements of the higher education system, VJEC has proudly set up world-class infrastructure complemented with intellectual capital in the form of competent faculty. Many of the facilities are way beyond the regulatory requirements aiming for learning beyond the syllabus to address the requirements of the industry. These material facilities along with value addition programs and student support systems are the integral facets of empowerment at VJEC.

**Vision:** To bloom into a Center of Excellence for Technical Education and a pace-setter in rural India with its quality processes and procedures, interwoven with freedom of flexibility, moulding professionals of superior quality, dedicated to the progress and development of Humanity.

**Mission:** To prepare the students to see beyond geographical limit and belong to a new age of acquisition and application of technology to meet the challenges of the changing world. Inspired and guided by gospel values ,we contribute to the socioeconomic welfare of the country with due concern to the marginalized.

It is with great pleasure and enthusiasm that we present to you the Annual Report of Vimal Jyothi Engineering College for the year 2018-19. In the ever-evolving landscape of education, Vimal Jyothi Engineering College continues to stand tall as a beacon of knowledge, innovation, and excellence. This report encapsulates our journey, achievements, and the remarkable progress we have made in shaping the future of engineering education.

In the following pages, comprehensive information about our academic programs, research initiatives, collaborations, student achievements, and the various outreach activities that have made a positive impact on our local and global communities, are presented. Moreover, this report reflects our financial stewardship and the responsible use of resources, ensuring transparency and accountability to all our stakeholders.

**VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ANNUAL REPORT 2018-19**

**ADMISSION AY 18-19 FIRST YEAR**

SANCTIONED INTAKE: 120

NO OF STUDENTS ADMITTED: 72

**RESULTS 2015-219 BATCH**

NO OF STDENTS REGISTERD: 129

NO OF STUDENTS GRADUATED: 83

**WORKSHOPS CONDUCTED:**

1. Department of Mechanical Engineering has organized a one day workshop on “Innovations & Intellectual Property Rights” during 27 July 2018
2. As a part of insight of making our students skilled in the field of relevant academic software, a six days workshop on MSP and Primavera P6 software was conducted by the Department of Mechanical Engineering from 18<sup>th</sup> November 2018.
3. A Three day workshop on robotics and drone design was conducted by Department of Mechanical Engineering with cooperation of BIMLABS Trivandrum, from 23-01-19 to 25-01-2019.
4. A workshop on AutoCAD for the Technical Staff of Department of Mechanical Engineering was conducted on 04-01-2019 to 06-01-2019.
5. Department of Mechanical Engineering on collaboration with IIT Bombay has organised a one day workshop on 'Moodle Learning Management System' for Teachers and System administrators/Computer technical persons on Friday, 15 March 2019.
6. To make the school students familiar with the field of robotics, a workshop on Robotics was conducted by the Department of Mechanical Engineering under the program ‘Summer at VJEC’ on 20<sup>th</sup> and 21<sup>st</sup> May 2019.
7. With the intention of training the students in the field of Robotics and Automation, a one day workshop was conducted by the Department of Mechanical Engineering on 09-03-2019.

**SEMINARS/TECHNICAL TALK CONDUCTED:**

1. Seminar on Higher Educational Opportunities Abroad was conducted for S7 ME students on 25 Sept. 2018.

2. The Department of Mechanical Engineering of Vimal Jyothi Engineering College Chemperi, organised a National seminar on Applications of Science in Agricultural Practices on 28<sup>th</sup> February 2019, the National Science Day.
3. The students from second, third and fourth year of Mechanical Engineering was offered an Invited Talk by SMEC labs, COCHIN on the topic 'Value added programs in Mechanical Engineering' on 01-02-2019.
4. The Department of Mechanical Engineering conducted a talk on the subject Robotics. Mr Sunil Paul, Associate Professor, Department of Mechanical Engineering presented the event in March 2019.
5. As a part of 'Summer at VJEC', a class on Automobile technology, was provided for high school students by the Department of Mechanical Engineering on 20<sup>th</sup> and 21<sup>st</sup> May 2019
6. To enhance the faculty in preparation of online videos, a technology refresher program was conducted by the Department of Mechanical Engineering on 17-05-2019.
7. A technology refresher program on 3 D printing was conducted by the Department of Mechanical Engineering on 24-05-2019.
8. The Department of Mechanical Engineering of Vimal Jyothi Engineering College, Chemperi in association with BIMLABS, Trivandrum conducted an invited talk on MEP modelling and REVIT on 12-11-2018.

#### **TRAININGS ORGANISED:**

1. To make our students educated theoretically and practically in modern manufacturing processes especially in CNC, a training program on CNC was conducted by the Department of Mechanical Engineering in November 2018.
2. A ten days training on Building information Modelling was conducted by the Department of Mechanical Engineering with cooperation of BIMLBS Trivandrum for students during a period from 23-03-2019 to 12-05-2019.
3. The Department of Mechanical Engineering of Vimal Jyothi Engineering College, Chemperi, got selected for BMW "SKILL NEXT", a technical skilling initiative.

#### **CAMPS ORGANISED:**

The Department of Mechanical Engineering organised an ENTREPRENEURSHIP AWARENESS CAMP from 28<sup>th</sup> to 30<sup>th</sup> March 2019. The event was sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB, Department of Science & Technology, Government of India, New Delhi.

#### **SHORT TERM COURSES:**

With the aim of preparing our students to qualify the GATE 2019 with excellent scores, the GATE coaching classes are being given to the final year students (2015-19 batch) of Department of Mechanical Engineering.

#### **MEETINGS ORGANISED:**

1. Student Alumni Meet 2K18" was conducted on behalf of Mechanical engineering department on 1st August 2018.
2. PTA Meeting of S1, S3 and S5 were conducted on 12<sup>th</sup>, 18<sup>th</sup> and 24<sup>th</sup> September 2018
3. The PTA meeting of S4 ME (2017-2021 batch) was held on 7th March 2019 at Seminar hall, ME department at 10:30 AM

4. A farewell programme was organised, by the Department of Mechanical Engineering, for outgoing batch (2015-19 batch)
5. The third DAB meeting was conducted on 08-03-2019 with the agenda of Department Vision, Mission, PEOs and PSOs. The management was represented by Fr. Jinu Vadakkemulanjanal, Administrator, VJEC and Mr. Sebastain, PRO, VJEC. Mr. Aswin Jose, Director of KM OIL INDUSTRIES was the industry representative. Dr. Benny Joseph, Principal, VJEC, Cdr (Retd.) Raju K K, HOD, ME and the faculty members from the department attended the meeting.

#### **PARTICIPATION IN OUTSIDE EVENTS:**

1. As a part of Exhibition, Department of Mechanical Engineering put up stalls at St. Anne's English medium school Payyavoor on 27-10-18, Ursuline Senior Secondary School Pariyaram from 13-12-18 to 15-12-18 and Sree Sankara Vidya Peetam Mattanur from 15-01-2019 to 19-01-2019.
2. Efficycle Technical Committee has introduced a new challenge for participating teams in Sept 2018. This challenge is about conceptualizing an efficycle with the implementation of advance and innovative technologies which can be called the Efficycle of Future. Hence this event is named as "Future Efficycle Challenge".

#### **INDUSTRIAL INTERACTIONS MOUs SIGNED:**

A MOU was signed by the college with BIMLABS Engineering services, Trivandrum on 23-03-2019.

#### **TECH FEST/TECH QUIZ:**

The Department of Mechanical Engineering conducted MEXTERIOUS 2K19, with its full glory and pride on 30<sup>th</sup> March 2019.

#### **PAPER PUBLICATIONS:**

1. A Paper on **Derived Empirical Relationship for Cavitation Analysis on Bulb Turbine in Small Hydro Electric Power Plant Utilizing Plant Sigma** was published by P. Sridharan (Associate Professor, Dept. of ME, VJEC) and N. Kuppuswamy
2. A Paper on **Investigations on Deformation in Discharge Ring and Outer Distributor Cone Performance in Small Hydro Power Plants with Cavitation** was published by P. Sridharan (Associate Professor, Dept. of ME, VJEC), Raju K Kuriakose (Associate Professor and HOD, Dept. of ME, VJEC), M. Eswaramoorthy and N. Kuppuswamy
3. A Paper on **A journal paper on Implementation strategy of lock out and tag out (LOTO) electrical systems for paper industry** is Published by Dr. Sridharan P (Associate Professor, Dept. of ME, VJEC), Mr. Ravi M, Mr. Senthilkumar V.K. In International Journal of Applied Science and Engineering.
4. A Paper on **Cloud Based SCADA System for Integrated Water Resources Development and Management Approach with Special Reference to Kannur District-International Journal of Applied Science and Engineering, 6(2): 135-148, December 2018** was published by Dr. P. Sridharan, Associate Professor, Department of Mechanical Engineering, VJEC.

5. A Paper on **Weight Loss on AL-SI-XB4C Composites prepared through powder Metallurgy in Acidic Solution using response surface methodology**- *International Journal of Mechanical Engineering and Technology (IJMET)*, Volume 9, issue 11, November 2018 was published by Christopher Ezhil Singh S, Professor, Department of Mechanical Engineering, VJEC
6. A Paper on **Friction Behaviour of AL-SI-B4C composites prepared by powder metallurgy technique using RSM**- *International Journal of Mechanical Engineering and Technology (IJMET)*, Volume 9, issue 11, November 2018 was published by Christopher Ezhil Singh S, Professor, Department of Mechanical Engineering, VJEC
7. A Paper on " **Energy efficient analysis of bulb turbine in the environment of cavitation with model study in small hydroelectric power plants** " got published in January -February 2019 issue of *INDIAN JOURNAL OF POWER AND RIVER VALLEY DEVELOPMENT* co-authored by Dr. P Sridharan, Associate Professor, Dept. of Mechanical Engineering.
8. A Paper on "**Cloud Based SCADA System for Integrated Water Resources Development and Management Approach with Special Reference to Kannur District**" co authored by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, was published in *International Journal of Applied Science and Engineering*, 6(2): 129-142, December 2018
9. A paper on "**Design, fabrication and performance analysis of solar dryer integrated with thermal energy storage**" authored by Mr. Lince Thomas, Assistant Professor, Department of Mechanical Engineering, was published in *Journal of alternate energy sources and technologies*.
10. A paper on "**Implementation strategy of Lock out and Tag out (LOTO) Electrical system for paper industry**" " co authored by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, was published in *International Journal of Applied Science and Engineering*, 6(2): 01-10, December 2018
11. Dr. P. Sridharan (Associate Professor, Department of Mechanical Engineering, VJEC) presented paper on **Fuzzy based Vibration Control in Small Hydroelectric Power Plants** in International Conference on Science, Technology, Engineering and Management (ICSTEM 19), KIT, COIMBATORE, March 22-23 2019.
12. Dr. P. Sridharan (Associate Professor, Department of Mechanical Engineering, VJEC) presented paper on **Optimization of Guide Vane Sealing in Pumped Storage Power Plants** in International Conference on Science, Technology, Engineering and Management (ICSTEM 19), KIT, COIMBATORE, March 22-23, 2019.
13. 18. The article entitled "**Energy efficient analysis of bulb turbine in the environment of cavitation with model study in small hydroelectric power plants** " by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, got published

in January -February 2019 issue of *Indian Journal Of Power And River Valley Development*.

14. Dr. S. Christopher Ezhil Singh, Professor, Department of Mechanical Engineering, published a paper on **Optimization on Tribological Behaviour of Milled Nano-B4C Particles Reinforced with AZ91 Alloy through Powder Metallurgy Method**, in *Transactions of the Indian Institute of Metal, Springer*.
15. Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, published paper on **Transmission power line fault detection based on deep learning methods** in *Indian Journal of Power and River Valley Development*.

#### **FDPs/STTPs ATTENDED:**

1. Dr. Umesh Sundar (Professor ,ME) & Mr. MidhunMukundan (AP,ME) attended STTP on Pedagogy to synergistic andragogy – A new paradigm in engineering education (16-20 July 2018)
2. Mr. Lince Thomas (Assistant Professor,ME) attended 1 week FDP ON “Advanced Energy Engineering and Technology “ from 2 July to 6 July 2018.
3. Mr. Johny P Joseph (Assistant Professor, ME) attended 1 month online FDP on “Mentoring Educators in education technology” in July 2018.
4. Mr Midhun Mukundan M K, Assistant Professor of Department of Mechanical Engineering attended a Workshop on Carbon Neutrality at Govt. Engg college Wayanad.
5. Mr. Lince Thomas, Assistant professor, Department of Mechanical Engineering attended two week faculty development programme on “Recent trends in Solar Energy Technologies for Sustainable Development” at NIT Tiruchirappalli in May 2019.
6. Mr. Gokulnath R, Assistant professor, Department of Mechanical Engineering attended KTU sponsored five days faculty development programme on Interactive Learning Modules for Innovative Pedagogy in Circuits and Electronics from 27-05-2019 at Vimal Jyothi Engineering College, Chemperi.

#### **FACULTY ACHIEVEMENTS:**

Mr. Midhun Mukundan M K (Assistant Professor, Dept. of Mechanical Engineering) got selected for the PhD program under KTU in November 2018.

#### **STUDENTS ACHIEVEMENTS:**

1. One of the team from final year mechanical engineering got selected for the 9th season of **Yuva mastermind** competition, organised by Malayala Manorama daily in association with

IBS Software services, Trivandrum and Amal Jyothi Engineering College, Kanjirappally. They received Rs 10000 fund for completing the project in September 2018.

2. Forty Two students of 2014-18 batch have been placed in companies like Godsmatthew Group, Agile Business Consulting, Velmurugan Heavy Engg. Industries, Mphasis, BYJU'S, Valued Epistemics, ATEES Infomedia, ACCENTA Education, Lakhota, Diya Systems Mangalore and Lazim Softwares

3. Asish Mathew of S7 ME (2014-18 batch) is selected for the position of Assistant System Engineer-Trainee by TCS

4. Mr. Vaishak R Das of S7 ME B achieved the third prize for the College Level Aptitude test competition conducted on 5<sup>th</sup> Oct 2018.

5. Mr. Ashish Sunny , Mr. Ajay Narayanan, Mr. Jestin Jose, final year students from the department participated in 24th Annual International conference of Advanced Computing and Communications (Sept. 21 to 23, 2018 at International Institute of Information Technology, Bangalore).

### **PROFESSIONAL BODY ACTIVITIES:**

1. Eight students of S7 ME (A &B) got opportunity to participate in ESVC solar car pre virtual round 12 -14 Oct 2018 under SAE.
2. A team formed by the final year students (2015-19 batch) of Department of Mechanical Engineering designed and fabricated the efficycle 'ALPHA 12' and participated at national level competition held at Lovely Professional University, Punjab under SAE.
3. Vimal Jyothi Engineering College, Chemperi, SAE Collegiate club – Invicto Racing 3.0 in the year 2019 was among one other team of eligible competitors from Kerala to take part in the ESI 2019 event. The event was scheduled from 15.Feb 2019 to 19.Jan 2019 at the PCET's Nutan Maharashtra Institute of Engineering and Technology, Pune.
4. A team of students from the Department of Mechanical Engineering participated in the Electric Solar vehicle competition Chandigarh University from 25<sup>th</sup> to 31<sup>st</sup> March 2019. ISIE-ESVC is not only a Motorsport.

### **PLACEMENTS:**

1. Mr. Aravind Manohar, Mr. Akhil C. Sajan, Mr. Nikhil Narayanan and Mr. Sabin Suresh N.of S8 ME are placed by Accenta through campus recruitment.
2. Mr. Asish Mathew of S8 ME is placed in TCS.
3. Mr. Sreenadh G V, Mr. Naveen E V, Mr. Anuraj K, Mr. Akhil K P of S8 ME (2015-19 batch) are selected by IBS for placement.
4. Mr. Aswin Biju and Mr. Rohith P V and Mr. Vaishakh P of S8 ME (2015-19 batch) are offered placement by Agile Business consulting.
5. Mr. Rohith P V, Mr. Sreehari P, Mr.K Anuraj, Mr. Mohammed Mishal and Mr. Sidharth P of S8 ME (2015-19 batch) are offered placement by INFINIZ IT SOLUTIONS.
6. M P Muhammed Farseen Hallaj of S8 ME (2015-19 batch) is offered placement by BOLT IOT.



7. Mr. Asish Mathew, Mr. Asish Prakash and Mr. K Anuraj of S8 ME (2015-19 batch) are placed by FEDERAL BANK.
8. Mr.K Anuraj of S8 ME (2015-19 batch) is shortlisted for placement by COGNIZANT.  
Ms. Vedha Hemanth of S8 ME (2015-19 batch) is placed by AMAZON.
9. 4. Mr. Febin Jose and Mr. Kiran (2014-18 batch) are placed through INDUSCAN at Chennai.

# **VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**

## **DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

### **ANNUAL REPORT 2018-19**

#### **DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION:**

Department of Electronics and Instrumentation Engineering was started in the year 2005. The department offers UG course, B.Tech in Applied Electronics and Instrumentation . And is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU).

#### **ADMISSION**

<b>Academic Year</b>	<b>Sanctioned Intake</b>	<b>Actual Intake</b>
2018-19	30	11

#### **RESULT**

<b>Academic Year</b>	<b>No: of students Graduated</b>
2018-19	25/29

#### **DEPARTMENTAL ACTIVITIES:**

- MOU for placement-oriented training for S8 Students of AEI has been signed with Prolific systems and Technologies Pvt. Ltd. In association with prolific systems, the Department of Electronics and Instrumentation will conduct a 21-days Pre-placement training program in industrial automation.

- The first phase of the placement-oriented training program by Prolific Systems for the 2015-19 batch students was conducted from 09-07-2018 to 13-07- 2018.
- Mr. Shinu M M, Ms Achala Prasad, Ms Sudharsana Vijayan Organized workshop on C Programming and Python for S3 AEI students from 23/6/2018 to 27/6/2018
- Ms. Divya K Vinod, Mr. Dhanoj Mohan organised a one-week training program on ARM embedded systems for S5 AEI students from 09/07/2018 to 13/07/2018.
- S7, S3 and S1 students of the department completed industry visit from 18/10/2018 to 21/10/2018.
- The 'Navayuva contest cum career guidance'- 2019 was conducted by the Department of Electronics and Instrumentation in association with UNNAT BHARAT ABIYAN on 12th January 2019.
- Department tech fest INSTRUS 2K19 was conducted on 30th March 2019 as part of the college annual technical fest SRISHTI 2K19.
- An Introductory program to Engineering 'Summer @ VJEC' were organized for high school students inorder to enhance their skills in science and engineering. It was conducted on 20th and 21st May 2019 and co-ordinated by Mr. Shinu M M & Ms. Achala Prasad. Department of Electronics & Instrumentation Engineering organized a workshop on Autonomous Android Controlled Robot Design.
- The first year (2018-22batch) students of E& I department visited Psycho- Social Rehabilitation Centre, Vellad on 10th April 2019 as a part of charity pilgrim.

#### **FACULTY ACHIEVEMENTS:**

- Dr. V Sampath Kumar established MHRD innovation cell in VJEC
- Dr. V Sampath Kumar have included VJEC under 2f of UGC
- Mr. Muhamed Jishad T K has completed NPTEL online course with Elite Certification.
- Dr V Sampath Kumar- Proposal submitted to science & technology , UBA
- Dr V Sampath Kumar – submitted project proposal for funding to ANERT and KSCSTR
- Dr. Gan Devadhas – Project proposal recommended by TAC and approved for funding by ANERT.
- Dr. V Sampath Kumar applied for UBA, Setting UPG Center for e-waste collection

- Dr. V Sampath Kumar applied for funding at KSCSTE for “Fully automatic waste management”.
- Dr. V Sampath Kumar applied for funding at KSCSTE for “Automatic Trash removal”.
- Dr. V Sampath Kumar – Signed MoU between Malabar Innovation Entrepreneurship Zone and VJEC.

### **FACULTY PUBLICATIONS:**

- Ms Sudharsana Vijayan, Mr Shinu M M – IEEE published 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
- 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.
- Dr Glan Devadhas published a paper titled “Analysis pf fractional order PI Controller with Cuckoo optimization” (IJRTE).
- Dr Glan Devadhas published paper titled “Design of noval controller to maintain DC level of PV System” (IJRTE)
- Dr Glan Devadhas published paper titled “Development of adaptive PID” (IJAER)

- Dr Glan Devadhas –published paper on “ Increasing the coverage area using microcells in hybrid GFDM system based on ROF Technology , IJRET,Vol11 (Scopus),2.
- Dr Glan Debadhas - published paper on “Improved least mean square algorithm for 5G signal in microwave - IJEAT,vol (8) (SCOPUS)
- Dr Glan Devadhas- published paper on ‘Non linearity mitigation and dispersion reduction using Bussgang theorem,modified MSE and improved MLE equalizers, ELSEVIER (SCOPUS INDEX)

#### **FACULTY PARTICIPATION:**

- Ms Reema Mathew attended AICTE sponsored FDP on Research Challenges in Bio signal and Image organized by ECE department, Vimal Jyothi Engineering College
- Ms Jinsa Mathew & Ms Divya K attended one day workshop on Video Content Preparation, Vimal Jyothi Engineering College
- Ms. Reema Mathew and Ms. Sudarsana Vijayan attended hands on workshop on artificial intelligence and deep Learning organised at Saintgits College of Engineering during 25th June to 27th June 2018.
- Mr. Shinu M M, Dr. Glan Devdas and Mr. Dhanoj Mohan attended 2 day workshop on ‘Developing Digital Twin Modelica Environment’ at Saintgits College of Engineering, Kottayam on 3,4 December 2018.
- Dr. V Sampath Kumar attended MHRD leadership program on 19th March 2019.

#### **FUND SANCTIONED:**

- Dr. Glan Devdas received Rs. 5,00,000/- from AICTE for conducting STTP.
- Dr V Sampath Kumar received Rs. 1, 56,750/- from KTU for project titled on ‘Puttumatic - The Automatic Puttu Making Machine’.
- Dr V Sampath Kumar received Rs. 100000/- from IIT Delhi for project titled on ‘Coconut leaf broom making machine.
- Dr V Sampath Kumar received Rs. 100000/- from IIT Delhi for project titled on ‘Solar Coconut Dryer.

### **STUDENTS ACHIEVEMENTS:**

- Mr. Joyal Joy, Mr. Febin J Nalappatt, Mr. Aswad S Kumar, Mr. Neeraj K, Mr. Harinandh, Mr. Shahabas PP & Mr. Aswin Sudhan of S6 AEI NPTEL online course with Elite Certification.

### **STUDENT PLACEMENT:**

- Mr. Yadukrishnan Mavila, Mr. Jithin P K, Mr. Jerlin Joykutty and Ms. Dayana Jose of S7 AEI placed in Infiniz IT Solutions.
- Mr. Sajin Janardhanan Mr. Sreedhas A & Mr. Anad Raj of S8 AEI placed in ACCENTA Education
- Mr. Jiss Jaison & Ms. Thara P Murali of S8 AEI placed in UL Technology Solution.
- Mr. Rahul K, Mr. Rohan Sajeeve & Mr. Sobin K sunny of S8 AEI placed in CMS IT services
- Mr. Prathyush MV of S8 AEI placed in AGLE business consulting company

### **PROFESSIONAL BODY ACTIVITIES:**

- Workshop on one week training program on C-Programming and Python , 18/6/2018-22/6/2018.
- One week training program on ARM embedded systems, 09/07/2018-13/07/2018.

## ***Department Of Electronics & Communication Engineering***

Department of Electronics and Communication Engineering was established in 2002 with an intake of 60 students in B.Tech programme. The department currently offers B.Tech Programme in Electronics and Communication Engineering with an intake of 90 students and M.Tech in Communication and Signal Processing with an intake of 18 students. The department is an approved research centre under KTU. Department of ECE provides quality education for the students in the field of Electronics and Communication Engineering. The department is committed to educate students about professional and ethical responsibilities and train them to build life skills for their career development. With excellent infrastructure, laboratories and full-fledged faculty, the department has always been in the path of rapid progress, making it one of the premier departments of Vimal Jyothi Engineering College.

### ***1. Details of Faculty members***

<i>Sl No</i>	<i>Name</i>	<i>Designation</i>	<i>Qualification</i>
1	Roshini T V	<i>Associate Professor</i>	PhD
2.	Jerrin Yomas	<i>Associate Professor</i>	M.Tech
3.	Bindu Sebastian	<i>Associate Professor</i>	M. E
4.	Adarsh K S	<i>Asst. professor</i>	M. E
5.	Manoj K. C	<i>Associate Professor</i>	M. E
6.	Vinod J Thomas	<i>Associate Professor</i>	M.Tech

7.	Shimna P K	<i>Asst. professor</i>	M. E
8.	Lekshmy S	<i>Asst. professor</i>	M. E
9	Binil Kumar K	<i>Asst. professor</i>	M.Tech
10	Anoop B K	<i>Asst. professor</i>	M.Tech
11	Grace John M	<i>Asst. professor</i>	M.Tech
12	Jayesh George M	<i>Asst. professor</i>	M.Tech
13	Anusha Chacko	<i>Asst. professor</i>	M.Tech
14	Ann Mathew	<i>Asst. professor</i>	M. E
15	Dr.D.Anto Sahaya Dhas	<i>Asst. professor</i>	PhD
16	Linet.K	<i>Asst. professor</i>	M.Tech
17	Sini Simon M	<i>Asst. professor</i>	M.Tech
18	Jithin James	<i>Asst. professor</i>	M.Tech
19	Sangeeth.S	<i>Asst. professor</i>	M.Tech

## ***2.Details of Technical Staff***

<i>Sl No</i>	<i>Name</i>	<i>Designation</i>	<i>Qualification</i>
1	Divya K	Instructor Grade I	M Tech
2	Joby Joseph	Technician	Diploma in Electronics



			Engineering
4.	Sini Joshy	Technician	Diploma in Electronics and Instrumentation
5.	Josy Francis	Technician	ITI(Electronic Mechanic)
6	Jyothish Francis	Technician	ITI(Electronic Mechanic)

### 3. Academic Activities

*A brief account of the various academic activities and their outcome are dealt in this section.*

#### 3.1 Results of University Examinations

The details of conduct of University Examinations and published results for the students of the Department of Electronics & Communication I Engineering are listed below.

Sl.No.	Batch	Semester	No. of Students appeared for exam	No. of students passed	% of Pass
1	15-19	S8	63	52	82.53
2	15-19	S7	63	49	77.77
3	16-20	S6	59	15	25.42
4	16-20	S5	59	27	45.76
5	17-21	S4	56	32	57.14
6	17-21	S3	57	22	38.6
7	18-22	S2	40	17	42.5
8	18-22	S1	40	16	40

### **3.2 M. Tech. program**

The department currently offers M.Tech in Communication and Signal Processing with an intake of 18 students

### **4. Co -curricular Activities**

*The Department of Electronics & Communication Engineering has always realized the importance of learning beyond class rooms, and has always encouraged the students to indulge in co-curricular activities. Some of the important activities organized in the Department in which students and faculty have participated and accomplished are given below.*

#### **4.1 Visiting Executive Programs**

Event	Date- Month -Year	Resource Person with Designation	Event Coordinators
Soft Skill training on competitive English	30/01/2019	Mr. Rajendran K,M.A, M.Phil, M.Ed,Trainer for Verbal ability in competitive exams	Jithin James, Ann Mathew
Workshop on	10/4/2019-	Ms. Deroll	Linet K

C++	13/4/19	David, Asst. Professor/CSE, VJEC	
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#### **4.2 Initiatives related to Industry internship/summer training**

Following are the initiatives taken for industry internship and summer training.

- Industrial training (IT) is a part of the University Curriculum.
- Students are given clear cut guidelines regarding the time line for completing their industrial training
- Students have to obtain a bonafide certificate by giving a requisition letter to the industrial training coordinator.
- After the successful completion of the training the students have to submit the certificate of the training and activity points are allotted accordingly.

Name of Industry	Date of Training	Areas focused	Impact
KlickeventsInfosolutionsPvt Ltd., Cochin	11/6/2018-15/6/2018	Microcontroller Programming and Design	Students were well versed with the practices in the industry which later helped in the placement activities
AIR Kannur	18/6//2018-22/6/2018	FM Transmitter	
Keltron	21/6//2018-28/6/2018	Image processing and machine learning	
AIR Kannur	25/6//2018-29/6/2018	FM Transmitter	
Srishti Robotics, Kochi	25/6/2018-29/6/2018	Microcontroller and Embedded system Programming, Python programming	

Keltron	10/7/2018- 14/7/2018	System Architecture Design, Microcontroller Programming
PantechProEd	10/7/2018- 12/7/2018	IOT/Arduino
Robokart,IIT Bombay	21/9/2018- 22/9/2018	Quadcopter

### 4.3 Industrial Visit

*The students of the department were motivated to visit places where different Electronics&Communication engineering activities were taking*

Name of the Industry	Date	Batch
Fresh- N – nice foods verna	17/10/18- 20/10/18	S5(2016-20)
Keltron Kannur	17/10/18- 20/10/18	S7(2015-19)
AIR Kodaikanal	17/10/18- 20/10/18	S7(2015-19)
Solar observatory Kodaikanal	17/10/18- 20/10/18	S7(2015-19)

### 4.4 Professional Body Association

Event	Date- Month - Year	Resource Person	Event Coordinators
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Three days Hands on Training & Design Competition on Electronic Circuits	23-01-19 to 25-01-19	Ms. JerrinYomas, Mr. sangeeth S, Mr. Manoj K C & Mr. Anoop B K	Binil Kumar K, Bindu Sebastian
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#### 4.5 Achievements by the students

Sl.No	Name of the student	Event name	Date & Venue	Organised by	Prizes won/ Remarks
1	Abin Mathew Sali	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
2	Akshay P	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
3	Amrithesh Gopinath	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
4	Deepak Raghavan	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation

				lam	
5	Devanand M. V	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
6	Jeevan Nobins	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
7	Pranav Rajeev	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
8	Pranav Rajeev	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
9	Rahul S.P	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
10	Rahul S.P	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering,	Participation

				Kothamangalam	
11	Rohan U.T.C	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
12	Rohan U.T.C	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
13	Saketh P.K	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
14	Saketh P.K	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
15	Saketh P.K	University Inter Collegiate Softball Tournament	14-15 October 2018	VimalJyothi Engineering College, Kannur	Third Place
16	Sebin Thomas	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation

17	Sebin Thomas	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
18	Vishnu K	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
19	Vishnu K	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
20	YethulSidharth	Workshop on Amazon Alexa & Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
21	YethulSidharth	Hackathon on Amazon Alexa	1-2 February 2019	Mar Athanasius College of Engineering, Kothamangalam	Participation
22	AbhiramiVenugopal	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation



23	Abhirami Venugopal	Text Mining Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
24	Abhishek T. K	Engine Overhauling Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
25	Abhishek T. K	University Inter Collegiate Softball Tournament	14-15 October 2018	VimalJyothi Engineering College, Kannur	Third Place
26	Abhishek T. K	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
27	Amalesh Kumar V	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
28	Amaljith P.K	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
29	Amaljith P.K	Alexa Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS	Participation

				College of Engineering, Palakkad	
30	Arathi Krishna	Crack the Interview Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
31	Arthana S	Engine Overhauling Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
32	Arthana S	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
33	Chaithanya P.V	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
34	Chaithanya P.V	Text Mining Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of	Participation

				Engineering, Palakkad	
35	Devika P. V	Engine Overhauling Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participati on
36	KeerthanaVi nod	Text Mining Worshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participati on
37	Mahima K.V	Text Mining Worshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participati on
38	Mahima K.V	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participati on

39	Neubin Sebastian	Text Mining Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
40	Neubin Sebastian	University Inter Collegiate Softball Tournament	14-15 October 2018	VimalJyothi Engineering College, Kannur	Third Place
41	Nithin Tom	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
42	Pranav P K	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
43	Pranav P K	Alexa Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
44	Radhana S	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
45	Ridhusha M	Workshop on Voice Controlled	17 th November	CET Trivandrum	Participation

		Bot Using Arduino	2018		
46	Ridhusha M	Crack the Interview Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
47	RohithSreenivasan	Text Mining Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
48	RohithSreenivasan	Treasure Hunt, Tathva'18	12-14 october 2018	NIT Calicut	Participation
49	RohithSreenivasan	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
50	Sanjay Prakash	Text Mining Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of	Participation

				Engineering, Palakkad	
51	Sanjay Prakash	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participati on
52	SwathiValsa raj	Engine Overhauling Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participati on
53	V Advait	University Inter Collegiate Softball Tournament	14-15 October 2018	VimalJyothi Engineering College, Kannur	Third Place
54	Vimal P	University Inter Collegiate Softball Tournament	14-15 October 2018	VimalJyothi Engineering College, Kannur	Third Place
55	Vimal P	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participati on

56	Vimal P	Text Mining Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
57	VyshakhGirish	Workshop on Voice Controlled Bot Using Arduino	17 th November 2018	CET Trivandrum	Participation
58	VyshakhGirish	Engine Overhauling Workshop	27-29 July 2018	IEEE Kerala Section & IEEE Malabar Subsection at NSS College of Engineering, Palakkad	Participation
59	Sona Maria Jose	Projectio, part of National-ManagementCultural Festival	23-24 February 2019	Government College of Engineering, Kannur	Participation
60	Nandakishor M	Circuit Master, part of National-ManagementCultural Festival	23-24 February 2020	Government College of Engineering, Kannur	Participation
61	Nandakishor M	Workshop on DEEP LEARNING	24-Feb-19	NIT Calicut	Participation
62	Vishnu	Workshop on	24-Feb-19	NIT Calicut	Participation

	Prasad	DEEP LEARNING			on
63	Vishnu Prasad	Student Delegate at the Professional Students' Summit	2019	CUSAT, Kochi	Participation
64	Ragendu N	Workshop on IIoTpart of National-ManagementCultural Festival	23-24 February 2019	Government College of Engineering, Kannur	Participation
65	Namitha V K	Workshop on IIoTpart of National-ManagementCultural Festival	23-24 February 2019	Government College of Engineering, Kannur	Participation
66	Sarika K Chandran	Workshop on IIoTpart of National-Management Cultural Festival	23-24 February 2019	Government College of Engineering, Kannur	Participation
67	Muhammed M C	Workshop on DEEP LEARNING	24-Feb-19	NIT Calicut	Participation
68	Arya Suresh	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
69	Ashish Pradeep	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation



70	Athul R Suthan	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
71	Athulya M	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
72	Deepu Cyril George	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
73	Jeslyn Mathew	24th International Conference on Advanced computing and Communications	21-23 September 2018	International Institute of Information Technology (IIITB) Bangalore	Participation
74	Jisnajose	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
75	Liya Rose Jaison	24th International Conference on Advanced	21-23 September 2018	International Institute of Information	Participation

		computing and Communications		Technology(IITB) Bangalore	
76	M Naseem	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
77	Muhammed M C	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
78	Anju P V	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
79	Anjali Mohan	Workshop on Cyber Security and Ethical Hacking	23-24 February 2019	Government College of Engineering, Kannur	Participation
80	Anand K V	Won MEGA Competition Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	First Position
81	Anand K V	Workshop on DEEP LEARNING	24-Feb-19	NIT Calicut	Participation

82	Anagha C	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
83	Akshay V K	Workshop on Agrobots	23-Jan-19	IIT Madras	Participation
84	Akshay V K	Won MEGA Competition Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	First Position
85	Akshay V K	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participation
86	Akshay P	Quant Finance Workshop	22-Jan-19	IIT Madras	Participation
87	Akshay P	Won MEGA Competition Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	First Position
88	Akshay P	Quadcopter Workshop, Organized by Robokart.com in association with	21-22 September 2018	College of Engineering Thalassery	Participation

		Innovation Cell UMIC, IIT Bombay			
89	Akshaya P	National Workshop on Robotic Process Automation	26-28 July 2018	Nehru College of Engineering and Research Centre Thrissur	Participati on
90	AkshanuSad hanadan	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participati on
91	Amaldev K V	Workshop on Agrobots	23-Jan-19	IIT Madras	Participati on
92	AmruthaNa nukuttan	Workshop on IIOTpart of National Techno - Management Cultural Festival	23-24 February 2019	Government College of Engineering, Kannur	Participati on
93	AmruthaNa nukuttan	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participati on
94	AkhilChandr an	Worshop on Android Application Development	23-Feb-19	NIT Calicut	Participati on

95	Aiswarya P	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participati on
96	Aiswarya P	Won MEGA Competition Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	First Position
97	Abhay George	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participati on
98	Abi G Benz	National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participati on
99	Abi G Benz	Go Salar organized by Robokart.com in association with Innovation Cell, IIT Bombay	6-7 October 2018	College of Engineering, Kasaragod	Participati on
100	Abi G Benz	Solar Tracker Event	6-7 October 2018	LalBahadurS has tri College of Engineering,	Participati on

				Kasaragod	
101	Adarsh S K	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
102	Ajil K John	Poster Presentation(Galleria) as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	First Prize
103	Akshay M P	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
104	AnaghaAmbiloth	Gamer's Den as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
105	AnaghaAmbiloth	Blind Coder as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
106	AnaghaAmbiloth	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering	Participation

				and Technology	
107	AnaghaAmbi loth	Quadcopter Workshop, Organized by Robokart.com in association with Innovation Cell UMIC, IIT Bombay	21-22 September 2018	College of Engineering Thalassery	Participati on
108	AmalBabu	"Foundation Skills in Entrepreneurship" Program of Kerala Startup Mission	24-25 September 2018	Sir Syed College, Taliparamba	Participati on
109	AmalAnand K V	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
110	Anannya K	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
111	Anannya K	Gamers Den as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
112	Anjali M	Quadcopter Workshop, Organized by Robokart.com in	21-22 September 2018	College of Engineering Thalassery	Participati on

		association with Innovation Cell UMIC, IIT Bombay			
113	Anjali M	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
114	Anjali M	Blind Coder as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
115	AnjanaVaradan	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
116	AnjanaVaradan	Blind Coder as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
117	Anjunath D	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
118	Anjunath D	Galleria (Poster Presentation) as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering	Third Prize



				and Technology	
119	Anjunath D	Solar Tracker Event	6-7 October 2018	LalBahadurS hastri College of Engineering, Kasaragod	Participati on
120	Anjunath D	Go Salar organized by Robokart.com in association with Innovation Cell, IIT Bombay	6-7 October 2018	College of Engineering, Kasaragod	Participati on
121	Anu Thomas	Blind Coder as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
122	Anu Thomas	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
123	AnusreeAno op	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
124	Arjun P	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and	Participati on

				Technology	
125	Arjun K Pattan	Galleria (Poster Presentation) as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
126	Arjun K Pattan	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
127	Athira Anil	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
128	Athira Anil	Gamers Den as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	First Prize
129	Athira M	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering and Technology	Participation
130	Athul P K	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNarayana Guru College of Engineering	Participation

				and Technology	
131	Bhavana Rajeev	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
132	Don John Sebastian	Poster Presentation(Galle ria) as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
133	Don John Sebastian	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
134	Fabian Alex	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
135	Fathimathul Amrath C M	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
136	Namitha Theresa Jose	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering	Participati on

				and Technology	
137	Nidhin K K	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
138	Nidhin K K	Poster Presentation(Galle ria) as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
139	Nived Rajeev	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
140	Rahul Joshy	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
141	Renita Sylvia Nicholas	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
142	Renita Sylvia Nicholas	Blind Coder as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering	Participati on

				and Technology	
143	SarathSasee ndran	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
144	SarathSasee ndran	Poster Presentation(Galle ria) as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
145	ShadaZiyad	Blind Coder as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
146	ShadaZiyad	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
147	Shelley Venugopal	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
148	Shibu Wilson	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering	Participati on

				and Technology	
149	Sivanya K	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
150	Subhimol M O	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
151	Surabhi P P	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on
152	Vaideh Dinesh	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Third Prize
153	VaishnavSat heesh	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	First Prize
154	Vighnesh R	Tech Wiz as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering	Participati on

				and Technology	
155	Vighnesh R	Poster Presentation(Galle ria) as part of National Level Tech Fest	12-13 October 2018	SreeNaraya na Guru College of Engineering and Technology	Participati on

#### 4.6 Achievements by the faculty members

##### 4.6.1 FDP / Workshop attended by Faculty

SL NO	NAME OF THE FACULTY	FDP / WORKSHOP	NUMBER OF DAYS
1	Dr. Anto Sahaya Dhas	Advance in machine learning & Deep Learning	5
2	Dr. Roshini T V	Image processing & Computer vision	6
3	Anoop B K	Image processing & Computer vision	6
4	Anoop B K	Artificial Intelligence & Machine learning	5
5	Sini Simon	Machine learning	6
6	Jayesh George	Machine learning	6

7	<i>Bindu Sebastian</i>	<i>Image processing &amp; Computer vision</i>	6
8	<i>Bindu Sebastian</i>	<i>Analog &amp; Digital Integrated Circuit Design using EDA Tool</i>	5
9	<i>Roshini T V</i>	<i>Innovations &amp; Intellectual property rights</i>	1
10	<i>Dr.AntoSahayaDhas</i>	<i>Developing Digital Twins : Modeloca Environment</i>	2
11	<i>Manoj K C</i>	<i>Signal &amp; Image processing, Issues, challenges&amp; Techniques</i>	14

#### **4.6.2. Papers Published by Faculty**

Sl. No.	NAME OF FACULTY	NAME OF THE PUBLICATION	TITLE OF THE PAPER	ISBN /ISSN No./DOI	VOL .	ISSUE	PAGE. NO
1	Dr. AntoSahayaDhas	Journal of Switching Hub	A Feasibility Study On C-RAN	<a href="http://doi.org/10.5281/zenodo.1492961">http://doi.org/10.5281/zenodo.1492961</a> (DOI)	3	3	6-12
2	Jayesh George	Journal of Communication Engineering and Its Innovations	Micro-calcification Detection In Digital Mammogram	<a href="http://doi.org/10.5281/zenodo.1490326">http://doi.org/10.5281/zenodo.1490326</a> (DOI)	4	3	20-29



3	Roshini TV	International Conference on Control, Power, Communication and Computing Technologies (ICCPCCT)	A Review on Privacy Preserving Authentication in VANETs	978-1-5386-0796-1(ISBN)	http://dx.doi.org/10.1109/ICCPCCT.2018.8574315(DOI)		235-238
4	Dr. AntosahayaDhas	West Indian Med Journal	An improved classification system for brain tumours using wavelet transform and neural network	2309-5830 (ISSN)	67	3	243-247
5	Adarsh k S	Journal of Signal Processing	Epilepsy detection based on EEG signals	http://doi.org/10.5281/zenodo.1488874(DOI)	4	3	18-25
6	JerrinYomas	Communications on applied electronics	A Critical analysis on the evolution in the E-payment system ,security risk threats and vulnerability	10.5120/cae2018652800(DOI)	7	23	21

#### ***4.6.3 Higher Qualification acquired by the Faculty***

*Prof. Roshini T. V received her PhD degree from Karpagam Academy of Higher Education.*

#### ***4.7 Additional facility created***

##### ***Interactive Classroom***

In order to develop and enhance the listening, speaking, reading, and writing skills of our students, a Language Lab is installed with the most effective state of art facilities. The lab is suitably equipped with systems, software license and other technical lab equipments. It is also equipped with state of the art video conferencing facility with the support of Kerala State IT Infrastructure Ltd., Government of Kerala.

#### ***4.8 Research activities***

*The department has already been approved as research Centre by the KTU and one candidate has enrolled for Ph.D program under the guidance of Dr. D Anto Sahayadhas, Professor, Department of Electronics & Communication Engineering.*

#### ***4.9 Other Activities/ Classes conducted***

Activity	Beneficiary
GATE Coaching	Final Year Electronics & Communication Engineering Students
Remedial classes	S1 S2, S3, S4, S5, S6, & S7 Classes



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

# ANNUAL REPORT

## 2018-2019

DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING

The EEE department has been playing a pivotal role in shaping the careers of aspiring students through creation of generations of thinkers and dreamers of tomorrow. This has become possible only due to continued patronage of the Management, Principal and tireless efforts of its experienced and dynamic faculty members, non-teaching staff members and worthy contributions of its dedicated students and alumni. We are constantly reviewing our setup to update and improve while making sure that students gain multiple skills-thinking skills, analytical frameworks, entrepreneurial skills, and interpersonal and communication skills. The multicultural and compassionate environment helps us and our students understand the state of global competition and the required competencies to cope with it. The academic activities concentrate on helping the students to gain an excellent theoretical knowledge base and the development of skills to implement them. Thus, the department offers an all-round learning environment where success and bright careers are the only goals.

## **PROGRAMS CONDUCTED**

- The IEEE SB VJEC conducted inception 2018 for the first year on 16<sup>th</sup> July 2018
- Personality development training was conducted on 21<sup>st</sup> July 2018 for S3 EEE students.
- Impact of Professional engineering Solutions in Societal and Environmental Context Program on 23<sup>rd</sup> July 2018 for S5 EEE students.
- Hackathon in the topic “Use of AI in Everyday Life” was conducted on 4<sup>th</sup> August 2018 for S7 & S5 EEE students.
- Software familiarization –MATLAB program was conducted for S7 students on August 22<sup>nd</sup> 2018. Session was handled by Mr. Sarin C R, AP EEE
- Conducted Design Contest on 1<sup>st</sup> September for S3 EEE students. Session was handled by Mr. Sarin C R, AP EEE
- Project Management Skills Phase 1 was conducted on 15<sup>th</sup> September 2018 for S7 EEE students by Mr. Justin C Jose, Chapter Advisor, SAE.
- Industrial visit of S5 EEE TO Kanak Industries, Goa and Finolex Cables Ltd. On 19<sup>th</sup> September to 23<sup>rd</sup> September.
- IEEE SB VJEC conducted an MD Session to first years by Mr. Shone Jose from Government Relations Section, Malabar Hub on 15<sup>th</sup> September 2018.
- IEEE SB VJEC conducted IEEE Day Celebrations on 4<sup>th</sup> October 2018.
- Industrial visit to Kannur International Airport by S1 EEE students on 06<sup>th</sup> October 2018.
- A talk on Ethical Principles and Responsibilities of Engineer was conducted on 6<sup>th</sup> October 2018 for S5 EEE students.
- IEEE SB VJEC conducted IEEE Day Quiz on 8<sup>th</sup> October 2018.
- A photography competition was conducted during the vacation time on the theme “Monsoon”
- The IEEE SB VJEC conducted a logo designing competition for the SB as a part of vacation activities.
- A self defence workshop was conducted by IEEE SB VJEC WIE in Vimal Jyothi Engineering College on 10<sup>th</sup> October.
- Industrial Visit was organized for S7 EEE to Finolex Cables from 18<sup>th</sup> October to 20<sup>th</sup> October.

- IEEE PELS Inauguration was held on 25th October 2018 at VJEC.
- Introduction to Programming Language was conducted on 26<sup>th</sup> October 2018 for S3 EEE. Session was handled by Mr. Jilson P Jose, AP CSE.
- 3 day workshop was conducted by SIGMOS India Training on 26<sup>th</sup> -29<sup>th</sup> October for S7 EEE students.
- IEEE PELS Industrial Visit to Solar plant of VJEC on 1<sup>st</sup> November 2018
- IEEE PELS Orientation Talk to School Students on 2<sup>nd</sup> November 2018
- IEEE PELS Orientation Talk to Local People on 3<sup>rd</sup> November 2018
- IEEE WIE initiated program WISE 3.0 was conducted in Vimal Jyothi Engineering College on 6th November 2018
- IEEE WIE initiated program RHEA 2.0 was conducted in Vimal Jyothi Engineering College on 7th November 2018
- One day workshop on ROBOTICS was conducted for school students at VJEC on 02<sup>nd</sup> January 2019.
- Meet and Greet 2k19 was conducted at VJEC on 2<sup>nd</sup> January for S6 EEE students.
- IEEE PELS conducted “ DIGITAL LITERACY PROGRAM FOR WOMENS” on 9th January 2019.
- Conducted Workshop on IOT for S4 students on 23rd to 25<sup>th</sup> January 2019.
- The zonal wise annual meet of International Centre for Free and Open Source Software (ICFOSS) coordinated by Mr. Sarin C.R, AP, EEE on 28th January 2019.
- Conducted a SPECTRUM TALK for IEEE Members on 1st February 2019.
- WIE affinity group under IEEE SB VJEC conducted a program “WOMEN IN TECHNOLOGY” on 11th February 2019
- Conducted IEEE PELS DLP Program on Large Scale Solar PV Electricity Grid Integration by Dr.VASSILIOS G AGELIDIS ,(Prof. Technical university of Denmark), FELLOW IEEE on 26th February 2019.
- IEEE Conducted a Workshop on Rapid prototyping for S4 EEE Students on 27th February 2019
- IEEE Conducted Science Week – General Science Quiz, Science And Engineering Quote Challenge, Science Fiction Movie Review Contest for Students on 27th February 2019.
- Conducted PERIODIC TABLE FILLING CONTEST on 1st March 2019.
- Conducted A Look Back At Science At School & Wie Online Poster Creation Contest on 6th March 2019.
- Conducted Wie Week Logo Competition & Wie Week Debate Competition on 7th March 2019.
- Conducted WIE Week Google Doodle Quiz & Wie Women’s Day Motivational Talk on 8<sup>th</sup> March 2019.
- IEEE WIE SB VJEC celebrated women’s day on 8th march 2019. A motivational talk was given by Mrs. Suraja Nair, Executive Engineer At Kerala Water Authority .
- IEEE SB VJEC conducted Science Law Presentation Contest on 11<sup>th</sup> March 2019.

- Conducted WIE Explore About Lesser Known Apps & Glory Of SB on 12<sup>th</sup> March 2019.
- Conducted IEEE IAS/IES/PELS Quest Quiz, Wie Let Me Speak Out, WIE Talk On “Need Of Electrification In The Transportation Sector” on 13<sup>th</sup> March 2019.
- Conducted WIE Coding Training, WIE Love For Women Staff on 14<sup>th</sup> March 2019.
- Conducted WIE Case Study Analysis on 15<sup>th</sup> March 2019.
- Conducted WIE Spot Presentation Contest, Project Poster Presentation Contest for S8 Students on 30<sup>th</sup> March 2019.
- TEKSCIO 2.0 (EEE Tech Fest) conducted on 30<sup>th</sup> MARCH 2019
- Placement training conducted by SIGMOS INDIA for final year students during April 11– 14.
- Conducted PES day celebrations by IEEE PES Members on 29<sup>th</sup> April 2019.
- Conducted PES quiz competition & PES day talk on 30<sup>th</sup> April 2019.
- Conducted ROADMAP To Success In Engineering for Class XII Students on 11<sup>th</sup> May 2019.
- An introductory class to the engineering stream especially in electrical engineering for the newly joined student were conducted in Vimal Jyothi Engineering College. 24<sup>th</sup> - 26<sup>th</sup> June 2019
- Conducted MD session for 1st years by MALABAR HUB WIE COORDINATOR MEGNA.S on 28<sup>th</sup> June 2019

## **FACULTY ACHIEVEMENTS**

- Ankita Sebastian, AP, EEE attended NPTEL awareness and felicitation workshop conducted at IIT Madras on 14/07/2018.
- Shelma George, AP ,EEE received outstanding Chapter Advisor Award for IEEE IAS during IEEE IAS Annual Meet in Portland USA
- Ms. Laly James, HOD EEE & Ms. Lipina Gopal M, AP EEE attended IEEE WIE ILS 2018 at Le Meridian Hotel, Cochin on 7<sup>th</sup> and 8<sup>th</sup> September 2018.
- Ankita Sebastian, AP, EEE VJEC NPTEL SPOC –has completed NPTEL online course with Elite Certificate
- Mr. SARIN C R , AP, EEE presented a paper titled "Multilayer Analysis for Prediction of Power Tracing on Uncertain Loads" in 2018 International Conference on Intelligent and Advanced System (ICIAS) organised by Universiti Teknologi PETRONAS, Malaysia. And now the proceedings have been published in IEEE Xplore .
- Ankita Sebastian, AP, EEE ,has received certificate of appreciation as Active SPOC from NPTEL.
- Ms. Laly James, HOD EEE received Outstanding Student Branch Counselor Award 2018, IEEE Malabar subsection & also got selected as VSAC of Malabar subsection.

- Dr. R SENTHIL KUMAR , Prof, EEE recognized as KTU Research supervisor
- Shelma George ,AP ,EEE selected as WIE STAFF Coordinator Malabar Hub
- Mr. Prabin James AP, EEE IA/IE/PELS Jt. Chapter Kerala—EXECOM 2019 Selected as DLP coordinator
- Ms. Laly James, HOD, EEE has been elevated to the grade of Senior Member of IEEE this year
- Mr.Prabin James AP,EEE got selected as member of IEEE SIGHT Education s u b c o m m i t t e e 2019.
- Dr.G Justin Sunil Dhas received fund from AICTE for IEEE conference ICCPCCT –2018
- Dr. R Senthil Kumar received fund from ANERT for project proposal .
- Mr. Prabin James, AP, EEE got IEEE PES Kerala Chapter Outstanding Engineer award 2018
- Tinu Francis, Teena George and Jijo Joseph, “Adaptive sensor less control of PMBLDC motor with voltage controlled PFC Cuk converter”, International Conference on Recent Scientific Research in Engineering and Technology (ICRSRET 2019), 22 March 2019.
- Laly James, Tintu George and Sarin C R, “Adapting self regulating demand response model for microgrid using machine learning” , International Conference on Recent Scientific Research in Engineering and Technology (ICRSRET 2019), 22 March 2019.
- Amrutha Maria Mathew, Riya Joy and Prabin James, “Adaptive predictive model for MPPT on wind turbine “, International Conference on Recent Scientific Research in Engineering and Technology (ICRSRET 2019), 22 March 2019
- Ms. LALY JAMES, HOD, EEE received faculty awards during Merit day 2k19, 23 July 2019, Produced good results in KTU examination Apr &Dec 2018
- Mr. Jijo Joseph, AP, EEE received faculty awards during Merit day 2k19, 23 July 2020, Produced good results in KTU examination Apr &Dec 2018
- Ms. Laly James, HOD EEE received Outstanding Student Branch Counselor Award 2019 from IEEE Kerala Section.



# VIMAL JYOTHI ENGINEERING COLLEGE, KANNUR

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ANNUAL REPORT FOR THE YEAR 2018- 2019

#### I. FACULTY ACHIEVEMENTS

<b>PUBLICATIONS</b>	
<b>Sl. No.</b>	<b>Details</b>
1	Ms. Vidhya S S, A P of the Computer Science and Engineering Department has published “Investigation of Next Generation Internet Protocol Mobility-Assisted Solutions for Low Power and Lossy Networks” paper in Procedia Computer Science, an Elsevier Publishers.
2	Ms. Jeethu V Devasia, A P in CSE published a paper named “Graph sparsification with parallelization to optimize the identification of causal genes and dysregulated pathways” in 34th ACM/SIGAPP Symposium on Applied Computing held at Limassol, Cyprus from 08.04.19 to 12.04.19.

<b>PROJECT/FDP/STTP/MODROBS FUNDING (APPLIED / SANCTIONED)</b>		
<b>Sl No.</b>	<b>Details</b>	<b>Category</b>
1	Ms. Jeethu V Devasia, AP in CSE applied for DST-FIST funding for “Improving Campus Facilities”. The proposal is under processing by the external funding agent.	DST- FIST
2	The S8 CSE students Ms. Sincy Joseph, Ms.Navya Francis, Ms. Anju John, and Ms. Binsi Farha have received an amount of 100000/ from KSCSTE for the project “Intravenous Drip Monitoring System in Smart Hospital using IOT”. The project was guided by Ms. Asha Baby, Assistant Professor of CSE.	KSCSTE
3	Student project named “e-Passport using Blockchain” was funded by IRPS. The student teams are Mr. Vishnu Pradeep, Ms. Abhina AnilKumar,	IRPS

	Ms. Amala Sebastine and Ms. Keerthana. The project is guided by Dr. Manoj V Thomas, Professor and HoD of CSE.	
4	Ms. Jeethu V Devasia (AP in CSE) and S8 CSE students namely Abhilash Sivasankar, Akash P, Deepak Dileep Kumar K and Eby Saju applied for KSCSTE funding under the student project scheme. The project is entitled “e-Lottery System using blockchain”.	KSCSTE
5	Ms. Jeethu V Devasia (AP in CSE) and the team applied for KTU-FDP funding under KTU FDP. The proposal is entitled “FDP on Mathematical Foundation of Machine Learning”.	KTU

<b>FACULTY DEVELOPMENT PROGRAM AND WORKSHOPS ATTENDED</b>			
<b>Sl. No.</b>	<b>Details</b>	<b>Period</b>	<b>No. of Days/ Hours</b>
1	Dr. Manoj V Thomas (Professor & HoD CSE) attended the FEP 5.0 organized by Infosys Campus Connect at St. Joseph Engineering College, Mangalore from 6/8/18 to 10/8/18.	6/8/18-10/8/18.	5 Days
2	Dr. Manoj V Thomas (Professor & HoD CSE) attended the International Conference on Multidisciplinary Research at the Asian Institute of Technology, Bangkok from 23 November 18 to 24 November 18.	23/11/18-24/11/18	2 Days
3	Ms. Asha Baby attended a two-day Faculty Development Program on “Data Mining and Data Warehousing” at SNGIST Parador on 10/12/2018.	10/12/2018.	1 Day
4	Ms. Keerthijith P attended a five-day Faculty Development Program on “Compiler Design” from 17/12/18 to 21/12/18 at Amal Jyothi Engineering College.	17/12/18 - 21/12/18	5 Days
5	Ms. Divya B and Ms. Neena V V Assoc., Professors of CSE attended ACM Annual Event 2019 held at Rajagiri Business	8/2/19	1 Day

	School on 8th Feb 2019. The event was organized by ACM Cochin Professional Chapter in association with Rajagiri School of Engineering. and Technology, Cochin.		
6	Dr. Manoj V Thomas, HoD of the CSE department attended three days FDP on “Student Induction Program” conducted at Mangalore Institute of Technology and Engineering, Mangalore from 14.05.19 to 16.05.19.	14/05/19 to 16/05/19	3 Days
7	Ms. Asha attended Online Video Preparation conducted at VJEC on 17th May 2019.	17/05/2019	1 Day
8	Ms. Divya B, Ms. Neena V V, and Ms. Vidhya S S of the CSE department attended a two-week AICTE-sponsored FDP on “Research Challenges in Bio-signal and Image Processing for Medical and Health Science” conducted at VJEC, Kannur from 20.05.19 to 01.06.19.	20/05/19-01/06/19	Two Weeks
9	Ms. Jeethu V Devasia and Ms. Keerthijith P of the CSE department attended five days KTU sponsored FDP on “Interactive Learning Modules for Innovative Pedagogy in Circuits and Electronics” conducted at VJEC, Kannur from 27.05.19 to 31.05.19.	27/05/19 - 31/05/19.	5 Days
11	Ms. Neena V V, and Ms. Vidhya S S, attended the Technical Refresher Program for faculty on iOS App Development conducted at VJEC on 17.06.19.	17/06/19	1 Day
12	Ms. Asha Baby, Ms. Anjana Baby, Ms. Anisha Joseph, Ms. Keerthijith P attended the Technical Refresher Program for faculty on MS Excel conducted at VJEC on 25.06.19.	25/06/19	1 Day\

## **II. STUDENT ACHIEVEMENTS**

<b>Sl. No.</b>	<b>Details</b>
1	Ms. Ann Mary, Ms. Bindya, Ms. Niveditha V Nair, Ms Varada M V, Mr. Ajay Joy, and Mr. Nijil P T of S6 CSE along with Ms. Divya B, Assoc. Professor of CSE attended ACM Annual Event 2019 held at Rajagiri Business School on 8th Feb 2019. The event was organized by ACM Cochin Professional Chapter in association with the Rajagiri School of Engineering. and Technology, Cochin.
2	Mr. Ajay Joy and Mr. Wissam Salih Abdullah of S5 CSE have received an appreciation award in connection with the Peace Club for their active participation. They collected the award from Ms. Teresa John Madam (Thalassery SP) at Nirmalagiri College, Thalassery.
3	Ms. Sincy Joseph and Ms. Varada Vishnu were selected to attend the ACM Summer School on Information Security and Cyber Forensics from 11th June to 29th June 2018 at PES University, Bangalore.
4	Mr. Ashik S N of S5 CSE got recognition from the Founders of AntiHACK.me - Asia's biggest bug bounty platform for his efforts in assisting their clients to identify various vulnerabilities on their platform, as well as all the hard work that went into keeping their clients' digital assets safe.
5	Ms. Varada, Ms. Aparna, Ms. Fathima Shahzadi, Mr. Amal, Mr. Yeswanth, Ms. Aswani, Mr. Ajay Joy, and Ms. Arunima students of the S5 CSE Department attended three days Annual International Conference on Advanced Computing & Communications (ADCOM 2018) at Bangalore from 21th -23th September 2018.
6	Mr. Agin Chandran, Mr. Abhinav K M, Ms. Linisha Suresh, Ms. Keerthi Ramesh, and Mr. Vivek Rajan of S3 CSE participated in Google Firebase workshop at MIT Anjarakandy.
7	Mr. Arjun, Mr. Abhinav, Mr. Amal, Mr. Dony, Mr. Ashlin, Mr. Ajay Joy, and Mr. Midhun Devasia attended a one-week workshop on IoT at VIT, Chennai.
8	Mr. Arjun, Mr. Abhinav, Mr. Amal. Mr. Ajay & Ms. Varada of S5 CSE are selected to test RoboRave by N2cafe.
9	Ms. Merin John, Ms. Nithya Joshy, Ms. Varna & Ms. Juhi Krishna S5 CSE has been recommended for Adobe India WIT scholarship.
10	Ms. Varada and Ms. Niveditha S5 CSE attended ACM Grace Hopper Event (GHCI 2018) held at Bangalore International Exhibition Centre from Nov 14-16 2018.
11	Ms. Aishwarya M and Ms. Anila Sebastian from S3 CSE certified by NPTEL for the course STLD.

12	Ms. Varada from S5 CSE got certified by NPTEL for the course “Introduction to IOT”
13	Mr. Vishnu Pradeep, Mr. Eby, and Mr. Emmanuel Abraham of S7 CSE participated in the Boot camp Idea Pitching Event at NIT Calicut on 20/11/18.
14	The S3 CSE student Shreya Nambiar secured the first position in the Kerala Technological University (KTU) F zone intercollegiate Badminton championship.
15	The S8 CSE students Ms. Sincy Joseph, Ms.Navya Francis, Ms. Anju John and Ms. Binsi Farha presented their main project “Intravenous Drip Monitoring System in Smart Hospital using IOT” at Government Engineering College, Thrissur as part of the TECHFEST conducted on 12 Feb ’19 and 13 Feb ’19.
16	Ms. Anusha Jiji of S8 CSE was provided a travel grant as part of the invitation to attend IEEE VI committee 2019 held in Portugal.
17	Mr. Abhilash Sivasankar, Mr. Deepak Dileep, and Mr. Akash P of S8 CSE participated in the workshop on Blockchain Technology held at Mahatma Gandhi College, Iritty on 29/1/19.
18	Mr. Ashik S N, S6 CSE student is recognized in the HALL OF FAME of GOOGLE for his outstanding performance in finding a bug in GOOGLE product.
19	Mr. Midhun Devasia, S6 CSE got first prize in Essay Competition, conducted by Go Green Club in connection with World Wild life Day.
20	Mr. Shufaid of S8 CSE qualified GATE examination 2019.

### **III. EVENTS ORGANIZED**

<b>Sl. No.</b>	<b>Details</b>	<b>Date (From - To)</b>	<b>No. of Days</b>	<b>Faculty Coordinator</b>	<b>Category</b>
1	The Department of CSE arranged a three-day workshop on Introduction to IOT from 09/12/2018 to 11/12/2018. The resource persons, Mr. Alex M. Sunny and Mr. Robin Kannattu Thomas from Astrek Innovations Pvt. Ltd., Kochi conducted the workshop.	09/12/2018 - 11/12/2018	3	Ms. Anjana K P Sr. Jisha C T.	
2	IEEE Computer Society Organized a three-day hands-on workshop on Java Programming and Database workshop from 22/01/2019 to 24/01/2019. The resource persons, Ms. Divya B and Mr. Jilson P Jose from VJEC conducted the workshop.	22/01/2019 - 24/01/2019	3	Ms. Ancy K Sunny, Ms. Anjana Baby Ms. Purnima Mathew	IEEE CS
3	Department of Computer Science and Engineering in association with Go Green Club organized an Essay writing Competition as a part of the World Wild Life Day Celebration.	08/03/2019		Ms. Anisha Joseph	Go Green club
4	Department of Computer Science and Engineering in	19/03/2019- 21/03/2019	3	Ms. Anisha Joseph	IEDC

	association with Innovation and Entrepreneurship Development cell, VJEC organized a workshop on WEB DEVELOPMENT on 19th, 20th, and 21st March 2019.				
5	The Department of CSE conducted the tech-fest ENIGMA 2K19 in association with SRISHTI 2K19. Dr. Manoj V Thomas (HoD CSE) was the main coordinator of the Annual Techfest 2K19.	30/3/2019	1	Ms. Derroll David Ms. Keerthijith P	

#### **IV. CAMPUS PLACEMENT**

In the 2015-2019 batch, 30 students got placed in various reputed companies like TCS, Infosys Pvt. Ltd, Amazon, Systools, ULTS Campus, Quest, etc.

Sl.No.	Details	Batch	Company
1	Mr. Sairam Manoharan	2015-2019	TCS Systools
2	Mr. Vishnu Pradeep	2015-2019	ULTS Campus Quest Poornam Info Vision Pvt. Ltd. CMS IT Services Nethram LLC (Shortlisted) CCTS (Shortlisted)
3	Ms. Fathima Sherin	2015-2019	FACE Academy Infinite IT Solutions

			Support Sages (Shortlisted)
4	Mr. Akhil Paul	2015-2019	Poornam Info Vision Pvt. Ltd. Accenta Education CMS IT Services Support Sages (Shortlisted)
5	Mr. Emmanuel	2015-2019	Systools Ontash (Shortlisted) CCTS (Shortlisted)
6	Ms. Sincy Joseph	2015-2019	Accenta Education
7	Ms. Meghna P	2015-2019	Systools
8	Ms. Neena A J	2015-2019	Systools Diya Systems CCTS (Shortlisted)
9	Ms. Varada Vishnu	2015-2019	Agile Business Consulting (BDE position) Ms. Agnus T F Systools
10	Ms. Keerthana D	2015-2019	Agile Business Consulting (BDE position) Ontash (Shortlisted)
11	Mr. Shufaid T	2015-2019	Amazon Support Sages (Shortlisted)
12	Ms. Swetha R K	2015-2019	Infinite IT Solutions
13	Mr. Jeswin Jaison	2015-2019	Infinite IT Solutions CMS IT Services
14	Ms. Gopika Rajeev	2015-2019	Infinite IT Solutions Ontash (Shortlisted)



15	Mr. Akshay S	2015-2019	Infinite IT Solutions Support Sages (Shortlisted)
16	Mr. Hari Krishnan R	2015-2019	CMS IT Services Support Sages (Shortlisted)
17	Mr. Alan Jose Tom	2015-2019	CMS IT Services Ontash (Shortlisted)
18	Mr. Sarath C	2015-2019	CMS IT Services
19	Mr. Nameer C K	2015-2019	CMS IT Services Ontash (Shortlisted)
20	Mr. Avinash Ghosh	2015-2019	CMS IT Services
21	Mr. Nivedh K P	2015-2019	CMS IT Services Nethram LLC (Shortlisted)
22	Mr. Ashik Dileep	2015-2019	Nethram LLC (Shortlisted)
23	Mr. Roshan Tom	2015-2019	Nethram LLC (Shortlisted)
24	Mr. Akshay T P	2015-2019	Support Sages (Shortlisted)
25	Mr. Rahul Rajeevan	2015-2019	Spectrum (Shortlisted)
26	Ms. Anusha Jiji	2015-2019	Cognizant Infinite ITSolutions
27	Ms. Annjulia	2015-2019	Infosys Pvt. Ltd
28	Ms. Abhina Anil Kumar	2015-2019	Infosys Pvt. Ltd., Infinite IT Solutions, FACE Academy, Bolt IOT, CCTS (Shortlisted)
29	Ms. Karthika Rajan	2015-2019	Infinite IT Solutions
30	Mr. Harikrishnan	2015-2019	CMS IT Services

### **ACHIEVEMENTS OF THE DEPARTMENT**

- ✓ The Department of CSE have organized a three-day STTP on “Blockchain Technology and it’s Applications' ' from 13th - 15th July 2018. The course included a better understanding of the functions of Blockchain, and its behavior as immutable, encrypted, and distributed ledger. Critical evaluation of existing "smart contract" capabilities and platforms and examines their future direction, opportunities, risks, and challenges. Hands-on implementation and deployment of the Ethereum private network and smart contract will also be covered. Dr. Manoj V Thomas (Professor and HoD CSE) was the chief co-ordinator and Ms. Derroll David and Ms. Anisha Joseph were the co-ordinators. Dr. Sindhu M from TIFAC-CORE in Cyber Security, Amrita Vishwa Vidyapeetham, Coimbatore, and Mr. Midhun T P from Factweavers Technologies Pvt. Ltd. were the resource persons.
- ✓ Around 31 students from S6 CSE have been issued with Oracle Academy - Programming with PL/ SQL certificate.
- ✓ Students of S6 CSE developed a website for the National Conference on Recent Trends in Civil Engineering, VJEC in association with the Software Development Cell.

### **ADDITIONAL FACILITY & BEST PRACTICES**

- Mr. Jilson P. Jose, Assistant Professor of CSE attained RHCSA - RHEL7 certification from RedHat Academy after the 15 days training program at Prodevans, Bangalore held on 26/12/2018.
- .Mr. Jilson P Jose have started the RedHat training for faculty and students on 01/4/2019. The classes running successfully and as part of the outcome of this program, the participant will be able to get certified for this course after attending their examination.
- Ms. Ancy K Sunny, Assistant Professor of CSE qualified GATE examination 2019

## **Report on Teachers' Participation in Faculty Development Programmes (FDP) in the academic year 2018-19**

- 1. Two-day workshop on Developing Digital Twins: Modelica Environment:**
  - Participants: Shinu M M (Assistant Professor) and Dr. Glan Devdhas, Dr. Anto Sahaya Dhas (Professors)
  - Date: 03/12/2018 to 04/12/2018
  -
- 2. Deep Learning Workshop:**
  - Participants: Shamyia A, Reema Mathew, Shalet KS (Assistant Professors)
  - Organizer: Department of Electronics and Communication Engineering, National Institute of Technology Calicut
  - Date: 18/12/2018 to 22/12/2018
  -
- 3. Workshop on Artificial Intelligence and Deep Learning:**
  - Participant: Sudharshana (Assistant Professor)
  - Organizer: Saintgits College of Engineering
  - Date: 25/06/2018 to 27/06/2018
  -
- 4. Automation Workshop:**
  - Participants: Reshma K V, Dhanoj M, Jinsa Mathew (Assistant Professors)
  - Date: 17/09/2018 to 22/09/2018
  -
- 5. Workshop on Membrane Technology for Water and Wastewater Management:**
  - Participant: Dr. Shika S (Associate Professor)
  - Date: 12/11/2018 to 17/11/2018
  -
- 6. Workshop on Recent Trends in Engineering Pedagogy:**
  - Participants: Multiple faculty members including Ms. Theres Charly, Ms. Margaret Abraham, Dr. Shika S, Ms. Dona Chacko, Mr. Logi N Bobby, Ms. Asha Mary Jose, Mr. K Nitheesh, Mr. Saneesh K, Mr. Rojin P, Mr. Ashwin Joy, Ms. Athira K, Ms. Prajisha V P, Mr. Abhijath I P, Ms. Anuragi P, and Ms. Anju E C (Assistant Professors)
  - Date: 09/07/2018 to 13/07/2018
  -
- 7. Research Challenges in Biosignal and Image Processing for Medical and Health Science:**
  - Participants: Multiple faculty members including Adarsh K.S, Ann Mathew, Anusha Chacko, Binil Kumar, Grace John, Jerrin Yomas, Jithin James, Lekshmy

S, Manoj K C, Sangeeth S, Shimna P.K, Sudarshana Vijayan(Assistant Professors), Vinod J Thomas (Associate Professor)

- Date: 20/05/2019 to 01/06/2019

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**8. Workshop on Image Processing & Computer Vision:**

- Participants: Anoop B K(Assistant Professor), Roshini T V (Professor) and Bindu Sebastian (Associate Professor)

- Date: 10/12/2018 to 15/12/2018

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**9. Workshop on Analog & Digital Integrated Circuit Design using EDA Tool:**

- Participant: Bindu Sebastian

- Date: 21/01/2019 to 25/01/2019

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**10. Emerging Areas in Nanomaterials and its Applications:**

- Participants: Cdr.Raju Kuriokose (Retd), Mr. Ryne P M(Associate Professors), Mr. Midhun Mukundan M K, Mr. Mejo M Fransis, Mr. Appu C Kurian, Mr. Lince Thomas, Mr. Shamin Muth K K, Mr. Gokul Nath R, Mr. Aji Augustine, Mr. Alex George, Mr. Dilin Dinesh, Mr. Denny J (Assistant Professors)

- Date: 24/06/2019 to 28/06/2019

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**11. Pedagogy to Synergistic Andragogy - A New Paradigm in Engineering Education:**

- Participants: Dr. R Umesh Sundar (Professor) and Mr. Midhun Mukundan M K (Assistant Professor)

- Date: 16/07/2018 to 20/07/2018

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**12. Faculty Development Program (FDP) for Student Induction:**

- Participant: Dr. P Sreedharan (Professor)

- Date: 27/05/2019 to 29/05/2019

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**13. FDP on Advances in Machine Learning and Deep Learning:**

- Participant: Dr. S Christopher Ezhil Sigh, Dr. Anto Sahaya Dhas (Professors)

- Date: 17/12/2018 to 21/12/2018

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**14. FDP on Rebuilding a Resilient Kerala after the Floods**

- Participant: Ms. Sigi Thomas (Assistant Professor)

- Date: 06/01/2019 - 07/01/2019

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**15. FDP on Artificial Intelligence & Machine learning**

- Participant: Anoop B K(Assistant Professor)

- Date: 17/12/2018 - 22/12/2018

**16. FDP on Machine learning**

- Participant: Dr. Jayesh George, Sini Simon (Assistant Professor)
- Date: 20/09/2018 - 25/09/2018

**17. FDP on Mentoring Educators in Educational Technology**

- Participant: Mr. Johny P Joseph (Assistant Professor)
- Date: 17/05/2018 - 05/07/2018

**18. FDP on Interactive Learning Modules For Innovative Pedagogy in Circuits and Electronics**

- Participant: Mr. Gokul Nath R(Assistant Professor)
- Date: 27/05/2019 - 31/05/2019
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These workshops and training programs cover a wide range of topics, including digital twins, deep learning, artificial intelligence, automation, pedagogy, image processing, nanomaterials, and machine learning. The participation of faculty members in such programs reflects their commitment to continuous learning and professional development, which ultimately enhances the quality of education and research at the institution.