



# Jyothi Engineering College

NAAC Accredited college with NBA Accredited programmes\*

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, TRISSUR PIN-679531 PH: +91-4884-259000, 274423 FAX : 04884-274777

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**Chairman:** H.G. Mar Andrews, Thazhath **President & Manager:** V. Rev. Mgr. Thomas, Kakkassery,  
**Asst. Managers:** Rev. Fr. Roy Joseph, Vadakkan, (Academics and Admin.) Rev. Fr. Joju Chiriyankandath (Finance & PRO)  
**Principal:** Fr. Dr. Jaison Paul Mulerikkal, **Administrator:** Er. Thomas Mathew, **Asst. Administrator:** Er. Boby Peter & Prof. Francis George



Fr. Dr. Jaison Paul Mulerikkal

## INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL

### Activities

Young Entrepreneurs Summit (YES)



Staff from the College : Anil Antony, Nodal Officer, IEDC

Students from the College : Abin, Edwin Lingston, Robin Wilson, Royal Wilson, Raymond

The summit was held on 12th September 2017 at Cochin as in the previous years. Process, Discover an alternate technology, Develop better product/ service) was its message..

The last semester of 2017 closed with a number of changes taking place at the Jyothi campus. The major event was that of the arrival of a new principal, Fr. Dr. Jaison Paul Mulerikkal, who took over from Dr. K.K. Babu. He has specialized in the area of computer science and was awarded a doctoral degree from the National Australian University.



Dr. K.K. Babu

## Bootcamp #Outofsyllabus



The IEDC of Jyothi Engineering College conducted "KSIDC KSUM boot camp #outofsyllabus program by Openfuel and Channel lam" for our students in association with CESA on 23/09/2017 AN in the EAB415 Hall. The program was partnered by Amazon Web Services(AWS) and Makemytrip. The workshop gave importance to being different from the crowd and being original in doing to instill entrepreneurship in young minds. The workshop #outofsyllabus was conducted by Mr. Rohith Radhakrishnan, Co-founder of Openfuel with assistance from KSUM.



Assistant warden Sister Vivina handed over duties to newcomer sister Rosylin as the former was transferred to another institution.

## INDIA MOBILE CONGRESS 2017



Robin Wilson of Mechanical Engineering, Jyothi Engineering College was selected as one among the 5 member team from Kerala Startup Mission to attend Indian Mobile Congress held @NewDelhi. He showcased his project “LIVLON” an Embedded project which detects a collision, fire on board and drowning (water ingress) using accelerometers, sensors etc in the stall of Kerala Startup Mission.

### LED Bulb Making



On 17-10-2017 IEDC collaborated with the NSS Unit of Jyothi to conduct classes in LED bulb making. The session was handled by Mr. Majeedran.

### Ideation

As part of the selection process for best ideas to be presented at INNOVATE an initiative by A P J Abdul Kalam Technological University for their technological fest KETKON. IEDC collaborated with IEEE to host the event on 7/10/2017 in the college campus. The Ideation was judged by Fr. Dr. A K George, Mr. Biju C V, Dr. Anitha Jacob and Mr. Dany Varghese. The top 5 ideas selected from the college out of the 30 ideas screened were: 1. Agni : Fire extinguisher robot 2. Smart Water Irrigation System 3. Smart medicare system

4. Deafado: A best friend indeed 5. Ojus: A smart guidance system for the blind.

### Entrepreneurship Awareness Program

The Entrepreneurship Development Club of Jyothi Engineering College has been registered with the Directorate of Industries & Commerce under the Entrepreneurship Development club programme of the Department of Industries & Commerce, Govt. of Kerala from 11/10/2017. The IEDC of Jyothi Engineering College conducted a two hour awareness talk program on “Entrepreneurship” for our students in association with the District Industries Centre, Govt. of Kerala on 04/11/2017.

## Grace Hopper Celebration of Women in Computing India (GHCI) 17 at Bangalore on the 17th & 18th Nov 2017

The Grace Hopper Celebration India is India's largest gathering of women technologists. It is produced by AnitaB.org and presented in partnership with ACM India. Two Students from Jyothi Engineering College received funding to attend the Grace Hopper Celebration of Women in Computing India (GHCI) 17 conference. Aiswarya Karunan of S7CSEB & Athira Lalmon of S7 CSEA. Aiswarya Karunan of S7CSEB attended the event at Bangalore on November 17th & 18th 2017.

### INNOVATE KSCSTE 2018 provided financial support for the following:

Group Members: Allen Francis Antony, Anju P Nair, Gautham Raj P, Keerthana Sasikumar.

The project titled “Smart Medicare” guided by Mr. Jinesh K.J, Asst. Professor, ECE. (Financial support of Rs 6,500/-).

Group Members: Disni Jose, Anjana K.P., Blessy Babu, Prasobh K.P., Olivia Nelson

The project titled “Agni” guided by Mr. Anil Antony, Asst. Professor, CSE. (Financial support of Rs 5,000/-).

Group Members: Shijith M.S., N. Rahul, Tenwin James, Roy Eluvathingal, Mathews Jose.

### Youva Mastermind 2018 provided financial support for the following:

The project titled “Braille Printer Form Scrap DotMatrix Printer” guided by Mr. Jinesh K.J, Asst. Professor, ECE. (Financial support of Rs 8,000/-).

The project titled “Integrated Speed Tracking & Toll Management System for Express Highways” guided by Ms. Divya Menon Asst. Professor, CSE. (Financial support of Rs 10,000/-)

Group Members: Allen Francis Antony, Anju P Nair, Gautham Raj P, Keerthana Sasikumar.

Group Members: Bernard Bobban, Palatty Jesvin Joseph, Pranav V, Varadha, Sruthy Chandran.

The project titled “Tremor Stabilization & Monitoring of Parkinson Syndrome” guided by Mr. Akhil Balakrishnan, Asst. Professor, EEE. (Financial support of Rs 7,500/-).

Group Members: Antony Jashil, Brolin Tensy, Fathima Irfana T.K., Preethi P.J., Francy Jhoson

## ISTE STUDENT CHAPTER ACTIVITIES 2017-2018

The following office bearers were elected to the ISTE STUDENTS CHAPTER on 23-09-2017:

President: DELVIN DAVIS (S5 EEE)

Secretary: CHANDINI (S5 ECE)

Executive Members RIJO (S5 ECE), JOSEPH P K (S3 EEE), ABEL TOMY (S3 ME(A))

## STUDENT CHAPTER ACTIVITIES 2017-2018

ISTE Student Chapter JECC received the Best Emerging Student Chapter Award for the academic year 2016-2017.

Ms. Geethanjali from EEE, received the state level award for the best student from ISTE for the academic year 2016-2017.



The ISTE Student chapter of JECC sponsored a one day workshop on "IOT and Light Weight Embedded Systems" on 1 July 2017. It was conducted by the Department of Electronics and Communication Engineering in association with ISTE and ECSA. The session was handled by Mr. Tom Varghese Konikkara, R&D Engineer, Mercedes Benz, India.

## NATIONAL SERVICE SCHEME (NSS)

**SWACHHATHA HI SEVA** Campaign was organized by National Service Scheme (NSS Unit No. 244 & SFU591) of Jyothi Engineering College from 15th September to 02nd October 2017.

**On the NSS Day 2017, NSS volunteers successfully completed the event of Tree Plantation.. The programme was lead by our Programme Officer Mr. Christy V Vazhappilly & Mr. Majeendran K.**



### Seven day special NSS camp

The NSS Unit of Jyothi Engineering College conducted a cleaning programme at Taluk Hospital Chelekkara on 1st Oct. 2017, as part of the Gandhi Jayanthi celebrations.

The NSS Volunteers of Jyothi Engineering College conducted a cleaning programme at Vallathol Nagar Railway Station on

2nd Oct. 2017, as part of the Gandhi Jayanthi celebrations.

The NSS unit of Jyothi Engineering College organized a day-long orientation programme for the NSS Volunteers to create awareness among them on the NSS activities. The session handled by Mr. Sivakumar, Former NSS Programme Officer.

NATURA and NSS joined hands to organize and awareness programme spreading knowledge about water conservation. An inspiring session was conducted by Dr. Abdul Hakim V.M (Prof. & HOD, Dept.of Land and Water Resources Conservation Engineering., Kelappaji College of Agricultural Engineering and Technology., Malappuram). On the topic "Scientific water management with special reference to Kerala".

NSS volunteers became part of the World Palliative Care day Activities by in association with Alpha Palliative Care, They also associated with the Ollur Link Centre to participate in the activities to help the Mentally challenged people activities & family meet at Lions Community Hall, Ollur.

NSS unit of Jyothi Engineering College conducted an anti-ragging programme. The session was handled by Adv. Jose Peter, legal service society, Wadakanchery.

World Teacher's day was celebrated on 5th October in jyothi engineering college; the function was inaugurated by Dr K.K Babu (Principal). The programme was planned and executed by our programme officer Mr.Christy V. Vazhappilly & Ms. Seenia Franics.

NSS units 244 and 591 of Jyothi engineering college held 7 days of special camp separately from 31st August to 6th September 2017. They were conducted at Govt. UP School, Painkulam and Govt. HSS Cheruthuruthy.

## PLACEMENT & TRAINING

### Placements

The following students from Jyothi were placed at various recruitments conducted on our campus till August 2017:

IBS software services

LIPIN PIUS, EDWIN LINGSON, SUSMITHA SUNNY, VISHNU CHANDRAN. K - (CSE)

### Amazon

THIRA NARAYANAN CSE, AISWARYA K CSE, PRABHA KARAN CSE, AISWARYA ROY CSE,

ALBIN CSE K JOSE CSE, ALLEN FRANCIS ANTONY CSE, ANJU P. CSE, ARNOLD ANTOO CSE, ARSHA THOMAS CSE,

ASHA KMURALI CSE, EMIRITA JOHNSON CSE, FILVIN MATHEW CSE, JOSEPH JOY CHIRAMEL CSE, K. NISHA CSE,

LEON JOSE CSE, LIPIN PIUS CSE, POORNIMA SANKAR CSE, PUTHUR SNEHA SUNNY CSE, SIBI BIJU CSE

SWATHI P CSE, URMILA M CSE, ANNA MIRNA M J ECE,

ARJUN K S ECE, HARSHA R ECE, LAKSHMIJA P ECE,  
 NIVIN SUNNY CHOWALLUR ECE, REVATHI R K NAIR ECE  
 ROSE D PYNADATH ECE, RUFEEENA GARFIN ECE  
 SHARON SHAJIPULIKKOTTILECE. SUMANA MOOTHEDATH  
 EC, VINOY GEORGE ECE, AKHILA RAJ T EEE,  
 SOLOMON JOSEPH EEE, ALBIN WALTON P ME, ATUL K P  
 ME, MARTIN AULSON ME, NAVNEETH PRABHAKAR ME,  
 RAYMON CHARLY ME, VISHNUKRISHNAN S ME, VIVEK K  
 ME .



### School Outreach Program (SOP)

- i) Prof. Annie Joseph took a session on Syncing Values, Education, and Career Aspirations at St. Joseph's HS Pangarappilly.
- ii) Prof Francis George took a session on Skills required to grow in today's competitive world at Sacred Heart Convent GHSS, Thrissur and T.R.K. HSS, Vaniyamkulam.



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### Dept. of Computer Science & Engineering

#### STUDENT ACHIEVEMENTS

Project titled 'Integrated Speed Tracking and Toll Management System for Express Highways' by Mr Allen Francis Antony, Ms Anju P, Mr Gautham Raj, Ms Keerthan M S (S7 CSE A) under the guidance of Ms Divya M Menon, Associate Professor has been approved for a financial assistance of Rs. 20,000/-

under INNOVATE Scheme of KSCSTE-2018. The same project also received a financial assistance of Rs 10,000/- from Yuva Mastert Mind 2018. The design of this project has been presented by Mr Allen Francis Antony in the IEEE Conference ICCMC 2017 held at Coimbatore

Surya R , Noel Vincent and Vishnu K of S5 CSE B won the 2nd prize for Ibeta grand finale conducted by Govt. Model Engineering College , Thrikkakara

Philip Roy, Rony, Deepak, Leon of S7 CSE B won the 5th position in the event " The best Management team The Wolfpack " held at Rajagiri

S7 CSE A Students visited Pruaeba India Software Pvt. Ltd Udupi, Wrist code Technologies Pvt. Ltd. Udupi, Messengerify and ExpressBase in NASSCOM

**S7 CSE B students visited Wipro infrastructure Engineering, Banglore, Altimetrik India pvt Ltd, Electronic city, Banglore on 14/10/2017.**

**Athira L I, Gresshma .P. Benny of S7 CSE A got the first position in S5 Result with CGPA 7.29**

**Urmila M M of S7 CSE A got the first position in S5 Result with CGPA 7.93**

#### DEPARTMENT ACTIVITIES



CESA activities inaugurated by Dr. K.K. Babu.

World Environment Day celebrations were inaugurated by Dr. Abdul Hakkim V M, Professor, Kelappaji College of Agricultural Engineering & Technology on 23/09/2017.

An Out of Syllabus talk was given by Mr. Rohit Radhakrishnan, Co-founder Openfuel on 23/09/2017.

The FOSS club was inaugurated & a Workshop on GNU/Linux system administration was conducted on 28/10/2017.



A Two- week 'On The Job training' programme for VHSE students, Desamangalam was held from 9/11/2017 to 23/11/2017.

## STAFF ACTIVITIES

Mr Aneesh Chandran, AP CSE received the D-License certificate of the All India Football Federation

Rev. Fr. Dr. A K George, Professor CSE was the resource person for a one day Teacher's Orientation Program at Coimbatore on 25/11/2017.

Rev. Fr. Dr. A K George conducted a Personality Development Program and a Basket Ball Coaching camp for students at Telingana from 27/11/17 to 5/12/2017.

Ms. Aswathy Wilson, AP CSE, Ms Seenia Francis, AP CSE, Ms. Swapna B Sasi, AP CSE and Mr. Aneesh Chandran, AP CSE attended a two day workshop on "Network Programming Lab" from 13/12/2017 to 14/12/2017 conducted by CSE Department, Federal Institute of Science & Technology.

Ms. Sobha Xavier, AP CSE and Ms Jisna V A, AP CSE attended a one week FDP on "Design & Analysis of Algorithms" from 27/11/2017 to 2/12/2017 conducted by CSE Department, Sahrdaya College of Engineering & Technology.

Mr. Aneesh Chandran, AP CSE & Mr. Anil Antony, AP CSE attended a three day workshop on "Arduino based Automation & Robotics Control" from 29/11/2017 to 1/12/2017 conducted by CSE Department, GEC, Sreekrishnapuram

Ms. Reshma K V, AP CSE & Ms. Ninu Francis, AP CSE attended a two day FDP on "Web Technologies in an Industrial Perspective" from 15/12/2017 to 16/12/2017 conducted by CSE Department, Muthoot Institute of Technology & Science.

## RESULT ANALYSIS (B.TECH)

Pass percentage in Fifth semester BTech examination of 2014-2018 CSE-A batch is 43.33.

Pass percentage in Fifth semester BTech examination of 2014-2018 CSE-B batch is 56.6.

## DEPT. OF ELECTRICAL & ELECTRONICS ENGINEERING

### Faculty Achievements

Mr. Shijoh V , Asst Prof EEE was awarded Ph.D degree from NIT Calicut on 23/09/17for his work 'Artificial Neural network



based modeling state estimation and control of autonomous hybrid systems'.

Dr. Jarin T, Assoc. Professor, Dept. of EEE in association with Prof. X.Z. Gao, Machine

vision and Pattern Recognition Laboratory, Lappeenranta University of Technology Finland published a research paper titled on "FPGA Based Analysis of Non – Deterministic PWM in Induction Motor Drives in the Asian Journal of Applied Science and Technology (AJAST) , Volume 1, Issue 8, Pages 56 – 60, September 2017 as the part of Post Doctoral research in his research area.

Mr. Jithin K Jose, AP, EEE & Mr. Kapildas K S , AP, EEE attended one week FDP on "Emerging Technologies in Green Energy System" from 27/11/2017 to 01/12/2017 at NSS College of Engineering, Palakkad in association with IEEE Malabar subsection.

Ms. Reshma Raj, AP, EEE and Mr. Akhil A Balakrishnan, AP, EEE attended one week STTP on "Control Systems: Theory & Applications" from 4/12/17 to 8/12/17 at GEC, Thrissur.

Dr. Shijoh .V, Assoc. Prof. EEE and Mr. Jithin K Jose Asst. Prof EEE, were the resource persons for one a day talk on NBA-Accreditation at Thiagarajar Polytechnic, Alagappanagar, Thrissur.

### Major Events

Department of EEE organized "Engineers Day" Celebration in association with IEI (India) on 15/09/2017. Dr. Jagadanand, Prof. NIT Calicut was the chief guest. He delivered a talk on the theme – Role of Engineers in building India".

The distribution of certificates for those who successfully completed the Assistant Electrician course in connection with the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) with was held on 7/10/17.



### Student Achievements

Paul Mohan and Kiran Elias of S5 EEE secured second Prize in the district Level online Quiz competition "Dr A.P.J. Abdul Kalam Energy Quiz 2017" conducted by KSEB Engineers Association.

Ms. Geethanjali P.G of S7 EEE ,secured state level ISTE Best Student award for the year 2016-2017 .



### Industrial Visit

54 students of S7 EEE ( 2014 Admission) accompanied by 2 faculty members Prof. Ratnan P and CPRI, Bangalore on 12/10/17 and 13/10/17 and Ms. Aathira K V went for an Industrial visit to 11kV substation at Wonderla, Bangalore

### Result Analysis

As per the data of the results of S5 University Examinations (2014 Admission Batch) released through the Net by the Calicut University, Department of EEE in Jyothi Engineering scoring an overall percentage of 53.62%. The class toppers were Ms. Veena P (8.93 Ms. Sumayya Thasneem (8.64), Ms. Anjali Ashok (8.5)

## Department of Electronics and Communication ENGINEERING

### STAFF ACTIVITIES

#### SEMINARS / WORKSHOPS ATTENDED

**Mr. Jinesh K J and Dr. Suresh P** attended two days laboratory course on “**Power Electronics and Digital Signal Processing**” at Sreepathy Institute of Management and Technology, Vavanoor on 10/08/17 & 11/08/17.

**Mr. Jinesh K J** attended Fab Lab meeting along with Prof. Francis George and Mr. Anil Antony at XIME, Kalamassery

**Mr. Jinesh K J**, Asst. Professor, attended training programme on Prime Minister Yuva Yojana at Dayanand Sagar College of Engineering, Bengaluru from 10/10/2017 to 14/10/2017.

**Fr. Ajeesh Babu Perinchery, Trade Instructor, ECE** attended Fab lab workshop conducted by Kerala Start-up Mission at Rajagiri School of Engineering and Technology from 23/10/17 to 26/10/17.

#### STUDENT PAPER PRESENTATION AND PUBLICATION

**Richu Varghese, Sai Krishnan S, Swayambu T A, Thasneem P, Steve Thomas** guided by **Ms. Asha John** published a paper titled “**Automation of 11 kv substation using raspberry pi**” in IEEE Digital Xplorer 2017

**Juliya Sunny, Almaria Thomas K, Jyothish P M, Jayaprakash P R** guided by **Ms. Sindhu S** published a paper titled “**Design And Implementation of RF Controlled Miniature Fan**” in IEEE Digital Xplorer 2017

**Sandeep C.M., Sandra P.S., Vivek Nair, Vindhuja M.V and Shruti S. Nair**, under the guidance of **Mr. Ponmani Raja** published a paper titled “**WSN Based Industrial Parameter Monitoring Using Smart Watch**” in IEEE digital Xplorer.

**Ajay Roy, Almaria Thomas K, Ancy Thomas, Bincy Tharakan T, Dinesh C and Rajesh M** guided by **Ms. Bindhu K Rajan** published a paper titled “**Text Recognition And Face Detection Aid For Visually Impaired Person Using Raspberry Pi**” in IEEE digital Xplorer

#### STUDENT ACHIEVEMENTS IN EXTERNAL COMPETITIONS

**Ms. Sophy Shaju** along with Noel Vishnu K(CS) won second prize in “**Excel Ibetos**” last round held at Model Engineering College, Thrikkakara on 04-09-2017.

**Mr. Marian Davis (S3 ECB)** participated and reached Semi Final in KTU –E Zone Intercollege Table Tennis match held at GEC, Thrissur on 27/9/2017

#### ACHIEVEMENTS IN INTERNAL EVENTS

S7 ECE B secured third prize for Pookalam Competition held as part of Onam Celebration 2017 at JECC on 30/08/17 & 31/8/17.

#### STUDENTS ACTIVITIES

The following students of S5 ECE participated in ROS Workshop conducted as part of “**TESSERACT 3.0 2017**” held at St. Joseph Engineering College, Pala from 13/10/2017 and 14/10/2017. **Chandini M S Anand Balaram, Anjana K P, Nikeeta Saji, Bharathchandran, Chandini M S**

The following students of S5 ECE participated in start up programme “**BOOT CAMP**” organized by IEDC at Jyothi

Engineering College, Cheruthuruthy on 27/09/2017 **Arya C, Anjana K P, Nikeeta Saji, Aquila, Nima Joshy, Thejus Tony**

#### INDUSTRIAL VISITS / INTERNSHIP

58 Students of S5 ECE along with two faculty members conducted industrial visit to ACE Components as part of their three days educational tour to Mysore & Coorg from 12/8/17 to 14/08/17.

47 Students of S7 ECE A along with two faculty members conducted industrial visit to Intra Electronics Ltd. and L&T Infotech (LTI) as part of seven days industrial visit to Mumbai and Pune from 02/10/2017 to 08/10/2017.

55 Students of S7 ECE B along with two faculty members conducted industrial visit to Saptarshi Electronics Ltd. as part of seven days industrial visit to Mumbai and Pune from 08/10/2017 to 14/10/2017.

#### RESULT ANALYSIS

Ms. Christy Paul (8.79) Ms. Angel Rose (8.57) Ms. Krishnapriya S(8.29)	S5 2014-2018 A 50.00%
Ms. Reshma R (8.71) Ms. Siji John (8.5) Ms. Tinu Thomas (8.21)	S5 2014-2018 B 67.27%
ARYA C (9.24) ANN MARY VARGHESE T (8.33) ANJANA K P (8.09)	S4 2015-2019 A 32.14%
PRANAN V V (8.89) PRAVITHA P G(8.85) PALATTY JESVIN JOSEPH (8.65)	S4 2015-2019 B 55.17%
ASWATHI KRISHNA(8.82) JULIYA SUNNY(8.52) ANITHA P(8.41)	S8 2013-2017 A 85.71%

## Dept. of Mechanical Engineering Department

#### ACTIVITIES & EVENTS

A one day work shop was organized on the topic **Autodesk Fusion 360**, in association with CAD Center, Society of Automotive Engineers (SAEINDIA) & Association of Mechanical Engineering Students (AMES), on 26th August 2017. 24 students of S7 Mechanical Engineering Department participated in the program.



**World Standards Day - 2017** on 28th October 2017 was celebrated by IE(I) student's Chapter Mechanical Engineering Department, in association with Association of Mechanical Engineering Students (AMES). Mr. G. Krishnakumar, general secretary of the Society of Energy Engineering and Managers (SEEM) was the chief guest



Mr. M. Radhakrishnan Menon (Founder & CEO, Global Aero-Sports) inaugurated the activities of Society of Automotive Engineers (SAEINDIA) & Association of Mechanical Engineering Students (AMES) on 4th November 2017, and gave a talk on **Aerospace Engineering & Job Opportunities**

A One-day workshop on **NON-DESTRUCTIVE TESTING** was held in tandem with United NDT training & Inspection Centre, Kochi, in association with Society of Automotive Engineers (SAEINDIA) & Association of Mechanical Engineering Students (AMES) on 10th November 2017 for 3rd year mechanical engineering students S7 ME B (2014-18 Batch) students completed seven days of Industrial Visit cum Study Tour between 1st and 7th October 2017. They visited two industries, V&G Industrial Testing Laboratories, Baikampady, Mangaluru, and Kalkura Refrigeration and Kitchen Equipments, Ambagilu, Uduppi. Mr. Sheik Afthab S (Assistant Professor, ME), Jithin K Kuriakose (Assistant Professor, ME) and two parents accompanied the students.



### STAFF AND STUDENT ACHIEVEMENTS

Mr. Shijin K. M. (Trade Instructor) of Mechanical Engineering Department attended a four day training program on **Fab Lab** at Rajagiri School of Engineering & Technology, Ernakulam between 23rd October 2017 to 26th October 2017.

Mr. Sukesh O. P. (Assistant Professor, ME) & Mr. Anto Zacharias (Assistant Professor, ME) attended a AICTE-QIP sponsored one week short term course on **Advances in Refrigeration and Air Conditioning** at Pondicherry Engineering College, Puducherry b 11th December between 2017 and 15th December 2017.

Sushmitha S. of Mechanical Engineering Department has been selected for the Overall Topper Award and S8 Topper Award for the 2012-2016 ME Batch. She got 10.00 SGPA in the Eighth Semester Examination and secured 9.33 CGPA.

Praveen M V of S7 ME B won the 2nd prize in the Freedom Quiz conducted by the NSS Unit of Jyothi Engineering College on August 2017.

Bernard K B of S5 ME A won the third prize in the painting competition conducted by the NSS Unit of Jyothi Engineering College as part of Kerala Piravi on November 2017.

### PAPER PUBLICATIONS

Melvinraj C R (Assistant Professor, ME), Jithin K Kuriakose (Assistant Professor, ME), James Edwin Prince Maikad, Alex Thomas, Fredy C Thomas, Gilbert C Thomas, Joseph John (Students of S7 ME-A- 2014-18 Batch) of Mechanical engineering Dept. published a research paper entitled "**Design of Heat Exchanger**" in the International Research Journal of Engineering and Technology (IRJET); Volume: 04 Issue: 10; October 2017;

Praveen Raj (Assistant Professor, ME), Sreejith K (Assistant Professor, ME), Aravind M.S., Betson Jose, Dinay K.P., Jaison Elias (Students of S8 ME-A- 2013-17 Batch) of Mechanical engineering Dept. published a research paper entitled "**Experimental Investigation of a Domestic Refrigerator using Nano Lubricants**" in the International Journal of Engineering And Science; Volume 6, Issue 9; September 2017.

Mr. Lawrance C. A. (Associate Professor, ME), presented a paper titled "**Production of Al6061-TiB2 Metal Matrix Composite by Stir Casting and in-situ Techniques with Different Reaction Holding Times**" in the 9th annual research congress (KAHEARC-2017) held at Karpagam Academy of Higher Education, Coimbatore on 9th December 2017.

### Department of Civil Engineering

The department started a new PG program – M.Tech in Transportation Engineering with an intake of 18 students.

### DEPARTMENT ACTIVITIES

Following programs were organized exclusively for PG students

One day software training on 'Synchro'- a software for design of signalized intersections was handled by Mr. Prathyush M, Transportation Engineer, Dubai on 26th August 2017.



An invited talk on "Activity Based Travel Demand Modeling" which is the third generation planning process, was delivered by Prof. Sreela P. K., Associate Professor in Civil Engineering, Govt. Engineering College, Kozhikkode on 13-10-2017. The talk was arranged by IEI (Civil) Students chapter along with CEA.

ICI activities were inaugurated by Mr. Sarath Vinod, Senior technical officer, Ultra tech cements. He spoke on 'Modern trends in Construction Industry'. Prof. Cyriac M.G. coordinated the program.

CEA inauguration along with the inauguration of World Habitat Day was done by L. Gopakumar, Director & Senior

Architect, Architects Group who delivered a technical talk on "Affordable Homes". Ms. Sinu C. G. Coordinated the program in association with IEI (Civil) student chapter.

Experience the Engineering Program conducted as part of the School outreach program was done very effectively by the teaching and non teaching faculty of the department.

### Experience Engineering Program being conducted at various Civil Engineering Labs

PMKVY program on Plumbing proposed by the department has got sanction from the government

Department has arranged alumni interaction with students. Mr. Mohammed Jasir (Brunel University London) who has completed his MS program interacted with students of S3 and S5 and about the procedures for pursuing higher studies abroad.



### Publication CE Dept.

The center for water research under the Civil Department published an informative book regarding the issues and maintenance of domestic water sources. It is written by Profs. M.G. Cyriac and S. Rathish.

### FACULTY ACHIEVEMENTS / PUBLICATIONS

A joint paper by Dr. Anitha Jacob, Ms. Jisha Akkara and Mr. Midhun Mohan R. on "Development of Consistency evaluation Criteria for Indian Two-Lane Rural Highways" was accepted for presentation at the 4th International conference of Transportation Researchers Group of India, scheduled to be held at Mumbai on 17 to 20 December 2017. Ms. Jisha Akkara is presenting the paper on 18th December 2017.

The paper titled "Effect of rural highway geometry on driver workload – a step towards safety" has been accepted for International Conference on Civil Engineering Advancements in Sustainable Infrastructure Development and Environment - CEASIDE 2018 scheduled for 18 - 20 January 2018. The paper is authored by Dr. Anitha Jacob, Prof. Jinesh K. J., Prof. Jisha Akkara and Dr. Jose P. Therattil. The paper is an outcome of the KSCSTE funded project.

Mr. George Chirammel of Civil Engineering department was honored by the faculty and students of Thiagarajar Polytechnic, Alagappa Nagar with the release of the book "Haridhakshina" which contains the details on all the trees planted by him on the campus

### STUDENT ACHIEVEMENTS

Mr. Anto of S5 was ranked fourth in the startup i3 contest conducted at MES Engineering college, Kuttipuram.

Mr. Fredin Joy K. of S3 Civil has secured first prize in the poster making competition organized by Natura club of the college.

### INDUSTRIAL VISITS

Fifth semester students went for an industrial tour to Mysore and Koorgue on 12-14, August 2017 and the Final year students went for seven day industrial visit to Jai Salmer, Jaipur and Agra on 30th September 2017. Mr. Aswin P Vijayan and Ms. Nisni Ashraf accompanied them.

### EXPERT LECTURE

Prof. S. Rathish was the resource person for the training session at KWA training centre Trivandrum on 3-11-17 and 16-11-17. The trainees included participants from KWA and professionals from other states. Prof. Cyriac M. G. had trained the participants from KWA on 3-11-17 at KWA training centre Trivandrum.

Prof. Cyriac M. G. conducted a one day training session on "Water Quality" for the teachers and NSS volunteers of Govt. VHSE, Kunnankulam. organised by Communication And Capacity Development Unit (CCDU), Water Resource Department, TVM on 11-12-17.

### Department of Basic Science and Humanities

As one of the best BEC Preparation Centers of South Asia, representatives from Jyothi Engineering College were invited to attend a conference at Cambridge University, London on 27th and 28th November, 2017. Fr. Roy Joseph Vadakkan (Asst. Manager Academics and Administration) attended the same.



Fr. Roy Joseph Vadakkan (Asst. Manager Academics and Administration) attended the conference held at Cambridge

Dr. Usha Menon went to conduct the BEC Speaking Examination at Sree Ramakrishna College, Coimbatore on 23rd, 24th and 25th of November, 2017.

Dr. Fr. Flergin Antony of the English Department was appointed as the chairman for the first year examination valuation camp of Kerala Technical University held at Jyothi Engineering Center.

Ms. Jasmin Jose went to Vidya Academy of Science and Technology as KTU Observer on 8/12/17

The department celebrated the Feasts of Fr. John Tharayil and Fr. Flergin Antony on 14/12/17.