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## ANNUAL REPORT FOR THE YEAR 2017-18

### **1.0 Introduction:**

His excellency Bishop Mar Pauly Kannoorkadan, Chairman of the Irinjalakuda Diocesan Educational Trust, Sri M R Ajithkumar IPS, Inspector General Of Police, Thrissur, Msgr.Prof.Dr. Lazar Kuttikadan, Manager & Executive Director, Fr. George Pareman, Associate Executive Director, Fr. Thomas Velakkanadan, Finance Officer, Prof. K T Joseph, Advisor, Dr. Sudha George Valavi, Joint Director, Dr. Mary Regina F, PTWA executive committee member, Mr. Mathew Francis, Alumni member, Mr. Athul Krishna, College Union Chairperson, other distinguished guests, Rev. fathers, Rev. sisters, Parents, Staff and my dear students, Ladies & Gentlemen.

### **HEARTY WELCOME TO SAHRDAYA**

Fr. Anil Pudussery took over charge as Media Director, Fr. Jees Pakrath took charge as Assistant Finance Officer in July, 2017 and Fr. George Pareman took charge as Associate Executive Director during January, 2018.

I am very happy to present the 16<sup>th</sup> Annual Report of Sahrdaya College of Engineering & Technology for the year 2017-18 before the august audience present here.

We are happy that twelve batches of B.tech & 3 batches of M.tech students completed the Course from Sahrdaya and came out successfully. With the Blessings from Heavenly Patron “**Sacred Heart of Jesus**” and with the Guidance and support of our Chairman, Trustees, Governing Body, Advisory Board and Academic Council Members, Teachers, Parents, Well Wishers, Staff and Students we could continue to maintain very good reputation among self-financing colleges in the state.

### **KETCON / TEKON 2018**

Kerala’s biggest technical conclave KETCON TEKON 2018 was hosted in our college jointly by APJ Abdul Kalam Technological University & KSCSTE during 23<sup>rd</sup> to 25<sup>th</sup> February, 2018 wherein Shri Justice P Sathasivam, Honorable Governor of Kerala inaugurated the function on 23<sup>rd</sup> Feb and the valedictory function was inaugurated by Shri. Pinarayi Vijayan, the Chief Minister of Kerala on 25<sup>th</sup> Feb, 2018.

### **2.0 Academic Activities:**

This year is a remarkable year in the history of Sahrdaya as SAhrdaya has received the approval as research centre for Ph.D program under APJ Abdul Kalam Technological University

The 16<sup>th</sup> Academic Year 2017 - 18 was inaugurated on 2<sup>nd</sup> August, 2017 by Shri Dinesh P Thampi, Vice President & Delivery Centre head for TCS, Kerala.

Seventh semester classes started on 26<sup>th</sup> June and terminated on 10<sup>th</sup> Nov, first, third & fifth semester classes started on 1<sup>st</sup> August and terminated on 24<sup>th</sup> Nov.

The admission to Ist semester started during May, 2017 and a total of 380 students were admitted (BM- 61, BT -60, CE - 60, CS - 117, EC- 50, EEE- 31). Orientation classes started from 15<sup>th</sup> July, 2017 and regular classes started on 1<sup>st</sup> August, 2017.

**2.1-Results:** The pass percentage of 2013 & 2014 batch admissions Under Calicut University is as follows

2013 batch VIIIth & VIIth Semester

Semester	BM	BT	CE	CS	EC	EE	Overall pass %
S8	100 %	100 %	92 %	88 %	98 %	81 %	94 %
S7	100 %	100 %	82 %	82 %	92 %	58 %	86 %

2014 batch VIth & Vth semester

Semester	BM	BT	CE	CS	EC	EE	Overall pass %
S6	85 %	91 %	59 %	72 %	56 %	59 %	70 %
S5	87 %	75 %	76 %	59 %	66 %	63 %	71%

**2.2:** The pass percentage in various departments under APJ Abdul Kalam Kerala Technological University as on March, 2018 is as follows:-

2015 batch

Semester	BM	BT	CE	CS	EC	EE	Overall pass %
S1	83%	91 %	90%	89%	91%	96%	90%
S2	85%	91%	90%	85%	94%	94%	90%
S3	73%	75%	65 %	57 %	50 %	58 %	63%
S4	63%	81%	73%	46%	56%	66%	65%

2016 batch

Semester	BM	BT	CE	CS	EC	EE	Overall pass %
S1	68%	89%	85%	72 %	67%	72%	76%
S2	60%	69%	78%	62%	64%	67 %	67%
S3	48 %	61 %	37 %	39 %	32 %	25 %	40 %

2017 batch

Semester	BM	BT	CE	CS	EC	EE	Overall pass %
S1	60 %	52 %	65 %	30 %	46 %	44 %	50 %

**2.4:** M.Tech results of 2015 batch are as follows

Semester	IBT	PED	CSE	ES
S3	100	100	100	100
S4	100	100	100	100

**2016 batch**

Semester	IBT	PED	CSE	ES
S1	100	67	100	86
S2	100	67	100	88

**3.0: Training & Placement****Training**

- 28<sup>th</sup> to 30<sup>th</sup> June 2017: “Train the Trainer“ Program on Python and Python – Database Integration by Infosys was conducted in our campus. Around 35 faculty members from Kerala Engineering colleges and from Mangalore colleges participated in this event.
- 14<sup>th</sup> Sep-2017: Placement Training for the final year students was conducted for four days by Konfidence Group.
- 03-Oct-2017: A resume making session by Mr. M.R.K Menon was conducted for the final year students.
- 25-Oct-2017: Two days of Mock Interview, Resume Making and Technical Training was conducted for the IBS Shortlisted students.
- 27-Oct-2017: A seminar on “Blueprint of GATE 2018” was conducted by Mr. Mathews, Manifold Academy.
- 02-Nov-2017: An aptitude test was conducted for the final year students by Dronacharya Academy. The toppers were given the certificate.
- 17-Nov-2017: Time conducted its scholarship test for the pre-final year students.
- 28<sup>th</sup>& 29<sup>th</sup> Dec 2018 : An FDP on “Design Thinking” was conducted by Mr. Sony John of Allon for internal and external faculty members.
- 06-Jan-2018 : A seminar for CS 2018 Pass out students was conducted on “ Career in Animation , Graphics Designing & Gaming” by Toonz Academy.
- 08-Jan-2018 : Students participated in a program telecasted by Surya TV “ Comedy on Demand” .
- 11<sup>th</sup>& 12<sup>th</sup> Jan 2018: Technical Training for S8 students by Smart Training Resources.
- 20 & 21<sup>st</sup> Jan 2018 : Smart training company conducted two days soft skills training for the first year students.
- 08 & 09<sup>th</sup> Feb 2018: Soft Skills Training by Skill Bird for the Final year students during the Placement Hours.
- 09<sup>th</sup> Feb 2018 : Students of Biomedical had a session on “Grooming” by Gillette & Malayalam .

- 19-Feb-2018: A seminar was organized by GNP Education Pvt. Ltd for 8<sup>th</sup> semester students who are interested to pursue their higher studies abroad.
- 27-Feb-2018 : Mrs. Vini Jose attended the Placement Officers meet conducted by KPIT Technologies, Pune.
- 13 & 14<sup>th</sup> Mar 2018 : S8 students were given a session on “ Expectation of Corporate from Fresh Engineers” by Mr. Snell (Freelance Trainer)
- As part of Admission 2018 and Science Popularization Program, school visits were organized and programs were conducted by Department faculty and students. Nearly 12 schools in and around Thrissur was visited.
- Industrial visit of Final years, third years and Second years was conducted successfully.
- Internship opportunities were informed to all students.

### Placements

- 05-June-2017: 2017 Pass out students of Biomedical attended recruitment by Parzalsus, Telenova, Biomed and Agappe. One each got placed in each company.
- 18-July-2017: Five students of Computer Science 2017 Pass out got selected in Web & Crafts.
- 19<sup>th</sup>& 20<sup>th</sup> Aug 2017: ICT Enabled Faculty development program for all the teachers.
- 21-Aug-2017: Travel Mate selected three students of computer Science 2017 pass out.
- 12-Oct-2017: 2018 Pass out students attended the Aegis Placement. 45 students got selected.
- 12-Oct-2017: 2018 Pass out students attended the Bluez Infomatic. 62 students got selected.
- 27-Oct-2017: 2018 Pass out students of EC & CS attended the IBS Recruitment. Three students got selected.
- 08-Nov-2017: 2018 Pass out students attended the recruitment by IVTL Infoview. Total 53 students are eligible of EC, CS & EEE.
- 05-Dec-2017 : UST Global off campus recruitment for the 2017 pass out students was conducted by Manipal Academy. Two students got selected.
- 03-Jan-2018 : EC & CS students of 2018 Pass out participated in Byju’s Think and Learn recruitment .
- 12-Jan-2018: GE Healthcare recruitment for the 2017 pass out students was conducted. 6 students have been shortlisted to the final interview round.

- 16-Jan-2018 : 14 students of 2018 pass out got selected by Amazon .
- 18 & 19<sup>th</sup> Jan 2018: Job Expo was conducted in our campus. Nearly 2500 students participated. Around 32 companies had registered for the Expo. 24 students got selected.
- 30-Jan-2018 : KPIT recruitment was conducted in our campus. One students of CS 2018 Pass out got selected.
- 31-Jan-2018 : TCS Off-campus recruitment for the 2017 Pass out students was conducted. One students of EC got selected.
- 01-Feb-2018 : 5 students of 2017 Pass out got selected by Ernst & Young.
- 08-Feb-2018 : One student of Biomedical 2017 pass out got selected by Agappe.
- 19-Feb-2018: BM & BT 2018 Pass out students attended the CPC Diagnostics recruitment. Two got shortlisted.
- 22-Feb-2018: EEE and EC 2018 pass out students attended the recruitment by TESSOLVE Semiconductors.
- 02-Mar-2018: Zifo recruitment was conducted for the BM & BT 2018 pass out students.
- 08-Mar-2018 : 7 students of BM 2018 pass out attended the Skype call interview by a Dubai based company Numex and 2 of them got selected.
- 15-Mar-2018 : FACE conducted recruitment for the post Associate Trainers in our campus for the 2018 pass out students.
- 16-Mar-2018 : Fijo's Engineers & Architects recruitment for Civil 2018 pass out students was conducted. 9 students got shortlisted.
- 17-Mar-2018 : Qburst conducted the recruitment for the CS 2018 Pass out students. 3 got selected.
- 19-Mar-2018 : Jobin & Jismi conducted recruitment for the CS 2018 pass out students. Results are awaited.
- 22-Mar-2017 : Pravaha Software and Consultancy Pvt. Ltd. conducted recruitment for the EC & CS 2018 Pass out students. Results are awaited.
- GATE 2018: Four students qualified GATE 2018. 2 from BT, 1 from CS & 1 from EC.
- Students of 2017 pass out and 2018 pass out got opportunity to participate in Infosys off campus, Support Sages, Muzirus, Telenova, Surya Constructions, Mulbery Homes, Catholic Syrian Bank.

- Total number of students placed in 2018 batch as on March 2018 is 90.

### Other Activities of Training & Placement Department

- Well-designed rooms for Training & Placement Center and Counseling was inaugurated on 02-Oct-2017.
- Mr. Benny Peter Varghese joined Sahrdaya Group of Institutions as the Manager - Training & Development.
- Students were informed many online platforms by AICTE, TCS and Placement Season for Wheebox Employability Skill Test, Online contests and Aptitude test practice session. Also, internship opportunities were informed and supported.
- The regular meetings of Academic Forum, Placement, Anti-Ragging and Students Grievance cell was conducted.
- Study Group Activities (Technical Quiz, General Quiz, Skit, Product Marketing, Debate, JAM and Group Discussion), Language Lab, Yoga, Library Reference, Doctor Service and Counseling are scheduled in regular intervals.
- Newspapers "The Hindu" & "Times of India" is given to all first year students to improve their English and General Knowledge and for interested students of other batches and faculty.
- We participated in GHRDC Education Survey. Our college was rated in Excellent Category.

### Placement Details

Batch (Pass out Year)	Total no. of students (TS)	No. of students eligible for placement (ES)	No. of Students Placed	No. of job offers	No. of students pursuing higher studies	Total Students placed (Jobs+ Higher Studies) TSP	Total Placements (Job offers+ Higher Studies)	Placement % (TSP/TS)
2006	241	160	158	167	59	217	226	90
2007	247	180	172	181	58	230	239	93
2008	240	182	174	202	52	226	254	94
2009	245	156	192	213	42	234	255	95
2010	245	142	168	179	46	214	225	87
2011	239	148	184	176	32	216	208	90
2012	239	138	171	188	34	205	222	86
2013	154	102	106	121	37	143	158	93
2014	187	133	128	143	32	160	175	86

2015	302	225	219	242	48	267	290	88
2016	389	277	171	187	44	215	231	55
2017	469	320	142	147	62	204	209	44
2018	476	323	90	106	N/A	90	106	19

**4.0 Faculty and Staff:** We are proud of our Faculty and staff, their dedication and Commitment. We have 142 Faculty Members on rolls, we have 1 adjunct faculty. Seven faculty members are on study leave for doing PhD. We have 24 technical supporting staff. We have 22 Faculty with Ph.D and 24 Faculty members are pursuing Ph.D. All members are with PG qualification.

#### 4.1 PAPER PUBLICATIONS & PRESENTATIONS BY FACULTY MEMBERS

- Ms. Amitha Joy (Asst. Prof BT) published a paper entitled “Interactions of phytic acid with anticancer drug Targets” in the International Journal of Computational Biology and Drug Design, Vol. 10, No. 1, 2017 .
- Dr.Rajeswari (Asst Prof, CSE) published a paper on “Scope of BCI in transportation field” in International Journal of Advanced Trends in Technology, Management and Applied Science, , Volume 3, Issue 1, pp.17 -23, 2017.
- Dr.Rajeswari, Mr.Vishnu G Nair, Ms.DimpleElizbath, Ms.Krishnapriya K S (Asst Prof, CSE) published paper on “Evaluating The Reliability Of WRP: Wireless Routing Protocol Using UGFT: Universal Generating Function Technique” accepted in International Journal of International Journal of Control Theory and Applications.
- Dr.M.Rajeswari (Asso.Prof CS) published a paper titled ‘Survey on Data Dissemination Process Using Routing Protocols in MANET and VANET’ in the Journal of Adv Research in Dynamical & Control Systems, Scopus Indexed, Elsevier Publication - Vol.15, Special Issue, ISSN: 1943-023X, pp. 214-221. Oct 2017.
- Ms. Divya R (Asst.Prof CS) published a paper titled ‘Heart disease detection using wireless sensors’ in the International Journal of Engineering Science and Computing - Vol.7, no.3, ISSN:2321-3361,pp. 5329-5330, 2017.
- Ms. Soumya Varma (Asst.Prof CS) published a paper titled ‘A survey on Malayalam OCR modules’ in the Journal of Emerging Technologies and Innovative Research - Vol.3, no.10, pp. 361-363, ISSN: 2349-5163, 2016.
- Ms. Soumya Varma (Asst.Prof CS) published a paper titled ‘Identification and conversion of handwritten Malayalam scripts using convolutional neural networks’ in an International Journal for Research Trends and Innovation - Vol.2,no.3, ISSN: 2456-3315, pp. 103-112, 2017.
- Dr.Vince Paul and Mr. Krishnadas J of CS published a paper titled ‘Early detection of obstacles in the railway track and crack identification system’ in an International Journal of Innovative Research in Computer and Communication Engineering - Vol. 5, no.4, ISSN(O): 2320-9801, ISSN(P): 2320-9798, pp. 8111-8115, 2017



- Dr.Vince Paul and Ms.Soumya Varma of CS published a paper titled 'Classification of brain MR images using texture feature extraction' in an International Journal of Innovative Research in Science, Engineering and Technology - Vol.6,no.4, ISSN(O):2319-8753, ISSN(P):2347-6710, pp. 7184-7190, 2017.
- Dr.Vince Paul and Ms.Livya George published a paper titled 'Enabling smart and secure multi-keyword fuzzy search over encrypted outsourced data' in the International Journal of Innovative Research in Science, Engineering and Technology - Vol.6,no.4, ISSN(O):2319-8753, ISSN(P):2347-6710, pp. 6701-6708, 2017
- Ms.Soumya varma (Asst. Professor CS) published a paper titled 'Smart presentation using gesture recognition' in an International Journal for Research Trends and Innovation - Vol.2,no. 3,ISSN:2456-3315,pp.64-69,2017
- Mr.Krishnadas J (Asst. Professor CS) published a paper titled 'Light dimmer with the implementation of data abstraction while crashing' in an International Journal of Engineering Science and Computing - Vol.7, no.3, pp. 4934-4938, 2017.
- Ms. Divya R (Asst. Professor CS) published a paper titled 'Product marketing improvement using big data analysis' in an International Journal for Research Trends and Innovation - Vol.2,no. 3,ISSN:2456-3315,pp.126-129,2017.
- Ms.Anila Thomas (Asst. Professor CS) published a paper titled 'Railway level crossing gate control and measurement system for railway track condition monitoring' in the Journal of Emerging Technologies and Innovative Research Vol.4,no.3, ISSN:2349-5162, pp.101-110, 2017.
- Ms.Livya George (Asst. Professor CS) published a paper titled 'Traffic violation detection system' Journal of Emerging Technologies and Innovative Research - Vol.4,no.3, ISSN:2349-5162, pp.92-95, 2017.
- Dr.Vince Paul & Dr. R. Satheesh Kumar published a paper titled 'Survey on 3 PAKE protocols in cryptography' International Journal of Application Innovation in Engineering & Management - Vol.6,no.4,ISSN:2319-4847,pp.040-043,2017.
- Dr. Gnana King, Professor of ECE published an international journal on the topic "A low-cost Embedded stereo vision system for real-time applications using Raspberry pi" in International Journal of Research Volume 04 Issue 13 October 2017,Page:148-154.
- Dr. Vijikala V published a paper, "An improved CAD system for abnormal mammogram image classification using SVM with linear Kernel", in Biomedical Research, ISSN 0970-938X, Vol. 28 Issue 12, July 2017.
- Dr. Gopakumar P (Asso. Prof EEE) is awaiting the online publication of a paper "A Novel Transmission Line Protection Using DOST and SVM", an International Journal Engineering Science and Technology, Science Direct (Elsevier)
- Ms. Jilu Alias of EEE Department got Best Paper Award in IEEE International Conference on Industrial Technology 2017, Toronto Canada & the paper is "Fractional Order Sliding Mode Controller for a Solid Core Magnetic Bearing System"



- Ms. Drisya K Sasi of EEE Department Presented and published paper on IEEE International Conference on Signal Processing informatics, communication and energy systems 2017 & the paper is "A Transformer-less High Efficiency Interleaved Buck Converter with Improved Step-down Conversion Ratio and a Pre-charging Setup through Snubber Circuit"

#### 4.2 SEMINARS AND TRAINING PROGRAMME ATTENDED BY STAFF

- Ms. Remya P M (Asst. Prof) attended a workshop on "NPTEL" at Federal Institute of Science and Technology, Angamaly on 20th July 2017.
- Mr. Emanuel Chirayath (Asst. Prof) attended a Faculty Development Programme on "Design Projects" organized by KTU at SCMS School of Business, Cochin on 22nd August, 2017.
- Mr. Emanuel Chirayath attended a Faculty Development Programme on "Teamwork and Communications" organized by Sahrdaya Institute of Management Studies, Thrissur during 26<sup>th</sup>& 27<sup>th</sup>, November, 2017.
- Mr. Arun T attended a three day National workshop on "Geoinformatics" at Mar Athanasius College of Engineering, Kothamangalam during 18<sup>th</sup> to 20<sup>th</sup> September 2017.
- Ms. Sreetha E S, Ms.Livya George, Ms.Soumya Varma, Dr. Rajeswari M, Deepa Devassy of CSE attended a 3 day FDP on Python and Python Database Integration at Infosys Ltd during 28<sup>th</sup> to 30<sup>th</sup> June, 2017.
- Ms. Sreetha E S (Asst Prof, CSE) attended a 5 day FDP on Building Private cloud using free software tools at GEC Thrissur during 20<sup>th</sup> to 24<sup>th</sup> June, 2017.
- Ms. Tresa Thomas (Asst Prof, CSE) attended FDP on Design Project at SCMS, KALAMESSERY, on 21<sup>st</sup> August, 2017.
- Two day Faculty Development Program on "The principles of DSP and its implementation" was conducted by Dr. Rajesh M.V, Chief Guest Associate Professor & HOD ECE College of Engineering, Poonjar, Mr. Geevarghese Titus, Assistant Professor, Amal Jyothi College of Engineering, Kottayam, Ms. Meena V Associate Professor, Rajagiri School of Engineering & Technology, Kakkanad, Elmactics Enterprises and Academic Lab Solutions, Mumbai were the resource persons on 25<sup>th</sup> & 26<sup>th</sup> July 2017.
- One day Faculty Development Program on ExpEYES was conducted by Dr. Ajith Kumar B. P. (Scientist-H, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi 110067) on 14th July 2017.
- Shini Shanmughan and Aiswarya M S participated attended a short term course on "Construction Management And Building Services" organized by the school of architecture, Govt. Engineering College Thrissur from 11<sup>th</sup> -15<sup>th</sup> December.

- All faculties of Civil Department attended a three day workshop on “ Design Thinking” which was as a precursor for KETCON 2018.

### 4.3 FACULTY EXCELLENCE:-

#### 1. Biomedical Engineering Department:-

- Mr. Yuvaraj (Asst. Prof) is awarded Ph.D in Nanomedicine from VIT University, Vellore.
- Dr.Sudhin Thampi received the Best Thesis Award from Biotechnology Department instituted by IIT Madras.
- Ms. Jinu Sebastian (Assistant Professor) is doing her part time Ph.D under KTU under the supervisory ship of Dr. Leon Ittiachen & Dr. Gnana King.
- Ms. Sony N.S from Biomedical Department participated in the Arab Health International Biomedical Convention held at Dubai on 27th January, 2018 in which large number of alumnus across the gulf and Arab nations participated.

#### 2. Biotechnology Engineering Department:-

- Uma Krishnakumar (Asst. Professor) was awarded Ph.D from NIT Calicut.
- Dr. Ambili Mechoor (HOD, BTE) published two chapters in Methods of Biotechnology in Wiley Publications.
- Dr. Leon Ittiachen is approved as KTU research guide.
- Department of BTE received a grant of Rs.4,95,275 (5Lakh) from AICTE for FDP in “Technical development in bioprocess Engineering”. The co-ordinator is Dr.Ambili Mechoor.

#### 3. Civil Engineering

- Dr. T P Somasundharan, Rtd. Professor from NIT Calicut joined as Adjunct Professor.

#### 4. Computer Science and Engineering Department:-

- Dr. Rajeswari (Asst Prof, CSE) currently serves as a reviewer of Computational Intelligence and Neuroscience journal by Hindawi Publication and also a reviewer of International Journal of Wireless Personal Communication by Springer Publication

#### 5. Electronics and Communication Engineering Department:-

- Mr. K R Joy has been awarded Ph. D in ‘Quality assessment of large images: A simplified approach using image gradients and structural similarity’ from Karpagam University, Coimbatore.
- Mr. Vishnu Rajan (Asst Prof, ECE) was awarded Ph.D in ‘Engineering and Technology’ from Jodhpur National University.
- Dr. Gnana King, Associate Professor in EC department has been selected as the Research Supervisor by KTU.
- Harikrishnan M S (Asst. Prof ECE) got selected for full time Ph.D under APJ Abdul Kalam Kerala Technological University with 1st rank and it includes CERD Fellowship with Rs. 25000 per month.

## 6. Electrical and Electronics Engineering Department:-

- Research work of Dr.Gopakumar (Asst. Prof, EEE) has been published as a chapter in a book entitled "Synchronized Phasor Measurements for Smart Grids" published by IET Press, UK (under IEEE).
- Ms. Jilu Alias of EEE Department got Best Paper Award in IEEE International Conference on Industrial Technology 2017, Toronto Canada & the paper is "Fractional Order Sliding Mode Controller for a Solid Core Magnetic Bearing System.
- Ms. Ashna Mohan, Asst. Professor EEE got selected for Ph.D as part time under APJ Abdul Kalam Technological University.

**5.0 Technical Associations:** The Technical Associations in all the six departments organized a number of Programmes to promote the technical and organizational skills of the students. A number of invited talks and symposium were organized by the Technical Association. The following are some of the major Programmes organized during the report period.

### 1. EBSA (BIOMEDICAL ENGINEERING DEPARTMENT)

- On 21<sup>st</sup> June, we had the inauguration of GE- SAHRDAYA Industry Academia Collaboration and GE- SAHRDAYA centres of excellence.
- EBSA arranged an alumni interaction with Mr. Fawaz Hussain working abroad in a hospital as Application Engineer on 10<sup>th</sup> August, 2017.
- Alumni interaction with Mr. Mathew working as working as junior research fellow at Narayana Nethralaya Hospital, Bangalore was arranged on 23<sup>rd</sup> October, 2017.
- Ms. Terri Bresenham, President & CEO, Sustainable Healthcare Solutions, GE Healthcare interacted & delivered a motivational talk with the Biomedical Students on 23<sup>rd</sup> September, 2017.
- As part of GE-SAHRDAYA ADVANCED MEDICAL ENGINEERING CERTIFICATION PROGRAM, a 11 days training program was held for the registered students at GE-SAHRDAYA CENTRE OF EXCELLENCE from 11/12/17 to 21/11/17.
- Mr. Luke Tom, working as Biomedical Engineering at Seimens, Germany of 2002-2006 batch addressed the final year Biomedical students on 24<sup>th</sup> January, 2018 regarding the overseas prospects of Biomedical Engineering and was kind enough to donate some biomechanical implants produced by Siemens.
- Ms. Anna Alina of 2012-2016 batch addressed the final year students regarding the overseas prospects of Biomedical Engineering on 23<sup>rd</sup> January, 2018.
- A two day training program was conducted for sixth semester BM students in LABVIEW and ELVIS on 2/2/2018 by Mr. Jiyo Mathew, Sr. Field Application Engineer, Trident Techlabs pvt ltd.
- Malayala Manorama in association with Proctor and Gamble conducted sessions on personal grooming and soft skills for the purpose of boosting self-confidence at job interviews and group discussions for S4 BM students on 09/02/2018.

### 2. BEATS(BIOTECHNOLOGY ENGINEERING)

- An Alumni interaction has been conducted by Ms Radhika of 2012 Batch on August 8th 2017. Now she is pursuing her M Tech at Pondicherry Central University.
- BEATS organized a FSSAI (Food safety & standards Authority of India) conducted food safety supervisor training in advance level catering on 31<sup>st</sup> Jan, 2018.
- KSCSTE sponsored National Seminar on Molecular Tools and Disease Diagnosis was conducted on the dates 16th March and 17th March 2018 by the Department of Biotechnology.
- Technical Programme has been conducted on Analytical Methods and Applications by Mr Anil V Kurup and Mr Narayan Patil from Waters India Pvt Ltd. Bangalore for S4 & S6 students.

### 3. PACE (CIVIL ENGINEERING DEPARTMENT)

- A 5 day hands on training and workshop was conducted by the department from 30<sup>th</sup> June onwards by Mr. Viju Antony for the 2013 Batch Students.
- 'SAHRDAYAM 2017' was launched with the help of 2014 batch CE students and the faculty co-ordinator is Prof. Devis P.C. The programme aims at recharging the ground water. A survey was conducted at Pulipparakunnu panchayath regarding the availability of water.
- PACE conducted a 2 day workshop on 'REVIT Architecture' by Mr. Antony from 'TSQUARE ACADEMY' for the seventh semester CE students during 15<sup>th</sup> and 16<sup>th</sup> September 2017.
- Conducted one day class on "Use of Softwares in Civil Engineering" by Mr. Viju Antony of 'BIMIT' for the 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> semester CE students on 27<sup>th</sup> September 2017.
- Conducted a workshop on FUSION360 in association with AUTODESK.
- Conducted an Add-on course on Geology by Dr. G. Gopalakrishnan for 3<sup>rd</sup> semester CE students on 9<sup>th</sup> October 2017.
- CE department arranged a technical talk on 'Earthquake Resistant Design' for 6<sup>th</sup>& 8<sup>th</sup> semester students by Dr. T P Somasundaran, Rtd Prof. NIT Calicut on 16<sup>th</sup> Feb, 2018. He is also the academic council member of Sahridaya.
- CE Department conducted a Scholarship Exam on Civil CAD for S8 CE students by Engineer's House & CAD Centre Chalakudy & Thrissur.

### 4. ACES (COMPUTER SCIENCE & ENGINEERING DEPARTMENT)

- Software club of computer science and Engineering department conducted a two day workshop on "ETHICAL HACKING" by Quovadis Robosofttech.
- CS department conducted a three day workshop on the two topics, "Android app development" & "Mobile making & Virtual Reality" during 17<sup>th</sup>, 18<sup>th</sup> & 19<sup>th</sup> March, 2018.

### 4. E-MAGE (ELECTRONICS & COMMUNICATION DEPARTMENT)

- Department of Electronics and Communication Engineering, in association with IEDC of our College have organized a one day "Faculty Development Program on ExpEYES - Open Software, Hardware and Laboratory Equipment" on 14<sup>th</sup> July, 2017. The resource person for the day was Dr. Ajith Kumar B. P., Scientist-H at the Inter-University Accelerator Centre, New Delhi.

- Conducted 2 day Internship program on “Electronic designing- Concept to reality” by Mr. Don P John, Mr. Deepak Joseph & Mr. Saran K.B (Asst. Professor, ECE) organized by Silpa P.A (Asst. Professor, ECE) on 18 & 19<sup>th</sup> July 2017
- Conducted add on course on “PCB Design” by MR. ANTO DOMINIC on 28 & 29<sup>th</sup> October 2017.
- Dr. Shaju.K.Albert, an outstanding scientist & Director of Material Engineering group, Indira Gandhi centre for atomic Research, Kalpaka addressed our students of S8 EC,CS,EE & CE. Dr.Shaju is a Professor of Homi Baba National Institute also.
- A placement talk was arranged for the final year ECE students on 30/03/2018. Ms. Sonu from Linware was the resource person.
- An interaction session with industrial expert for selected students of Third year ECE was arranged on 25/01/2018. Students could gain idea on the needs and work culture of the industry through this interactive session. Mr. Arun from XEROX was the resource person.
- An in house internship on circuit design using modern tools and PCB assembly was organized for interested students on 18<sup>th</sup> and 19<sup>th</sup> of July 2017.

#### 5. AESON (ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT)

- EEE department conducted a special training program on FUSION 360 for S7 EEE students by T SQUARE CAD ACADEMY on 28<sup>th</sup>& 28<sup>th</sup> July, 2017.
- EEE department conducted a faculty knowledge sharing program on 10<sup>th</sup> August by Mr. Madhujith T (Asst Professor EEE) on the topic “Design of an Electrical System of a multi storey building”
- EEE department conducted a talk on the topic “Use of Software’s in Electrical Engineering” for S5 & S7 EEE students by Mr.Viju Antony P, Executive Director, BIMIT - CAD & BIM Training on 4<sup>th</sup> October, 2017.
- EEE department together with the support of IEDC received the 1<sup>st</sup> product development consultancy for our college. Adithya Medical Rehabilitation centre, Thrissur entrusted our college to develop a “Stand on wheels”-a wheel chair for patients with neuro disability. The team members are Midhun.C, Nithish Suresh, Kiran.P.Nair, Thejus.K.Ajith & Anchello Davis of S8 EE. Guide is Prof. Sebin Davis. Sanctioned Rs.60,000 for the same.
- EEE department conducted a special training program on FUSION 360 for S7 EEE students by T SQUARE CAD ACADEMY on 28/7/2017 & 29/7/2017
- ENERCON club of EEE Department has organized a debate competition for the students of the college on the topic, “Feasibility of Athirappilly Power Project”
- Dr. Gopakumar P (Asso. Prof) & Mr. Anoop V P (Asst. Prof) of EEE Department has given hands on training on “Maintenance of basic electrical equipment’s” for EEE students.
- EEE department conducted a workshop on Electrical CAD for S6 EEE students by CAD centre on 17<sup>th</sup> Feb, 2018.
- EEE Department conducted a technical talk for S8 EEE on “Electrical System Design & Estimation”, by Mr. Sajin Joseph, Technical Engineer, Sigmos India Pvt Ltd.



- EEE Department conducted a two day workshop for S8 EEE on “Electrical System Design & Drafting”, by Mr. Sajin Joseph, Technical Engineer, Sigmos India Pvt Ltd.
- A technical talk on electrical system design was delivered by Er. V Krishnan Nambiathry, Er. Mini and Er. Tojo Jacob (Electrical Inspectorate Engineers Association) for S8 EEE on 07/02/2017
- A technical talk on Energy Auditing was done by Dr. C Jayaraman (Retd. BPCL Manager), Energy Management Center on 21/3/2017

## **6.0 Funded Projects**

### **Faculty funded projects**

- KSCSTE science popularization program has sanctioned Rs.3,20,000 for the project titled “Spectacle of science”. The project co-ordinators are Dr.Vishnu Rajan (EC) & Dr. Ambili Mechoor (BT).
- Dr. Gopakumar P (Asso. Prof EE) has submitted the proposal for the project titled "Design, development and testing of high efficient multi-cell multiple-input-series-output-parallel isolated telecom power supply" to Science & Engineering Research Board (SERB), New Delhi. (The proposal is in-order and is under consideration for further processing).

### **Students funded projects**

- Seventh semester student project entitled 'Robotic Mobilisation Device for partially paralised individuals got financial assistance of Rs. 20,000/- under INNOVATE Scheme of KSCSTE-2018 and is guided by Ms. Kiran Philip (Asst. Prof – BM). The students are Lesson, Serene, Mohammed Yasin, Athira A & Harishkrishnan of Biomedical Engineering.
- Seventh semester student project titled 'DSA: Dynamic Spine Analysis' has got financial assistance of Rs. 20,000/- under INNOVATE Scheme of KSCSTE-2018 and is guided by Ms. Reshma Jose (Asst. Prof, BM Dept.) & student members are Amal Jude, Megha Biju, Meghna Wilfred, Harsha Sahadevan & Fathima Rinza of BME.
- A team from S8 BM consisting of Sana Samshudeen, Jasmine Francis, Rizwana Yoonus, Sruthy Manjaly and Stenny Sunny guided by Mr. Jis Paul has been selected for the IEDC- Idea Day grant of Kerala Start Up Mission and sanctioned an amount of Rs. 2 Lakh for Prototyping.
- A team from S8 BM consisting of Alisha P.K, Aswini S, Kevina Kurian, Sara Sunny, Sruthi K.S guided by Mr. Yuvaraj V has been selected for the IEDC- Idea Day grant of Kerala Start Up Mission for the project “Auto clean Automated Reprocessing of Dialyzer Filter” and has been sanctioned Rs.55,000.
- The project entitled ‘BIOME Photobioreactor’ received a KSUM fund of 1.5 lakhs from Kerala Startup Mission 2018. The project team members are Aswin Sasi, Hilal Aboobacker, Neha Nagarkoti, Anna Jelson and Haritha R guided by Dr. Dhanya Gangadharan (BTE) .
- The project entitled ‘Marijuana and Alcohol Detector’ received a KSUM fund of 2 lakhs from Kerala Startup Mission 2018. The project team members are K Achyuthanand, Gopika Menon, Parvathy M, Aysha Rega and Manu Joseph guided by Dr Dhanya Gangadharan (BTE) and Ms Ambily Francis (EC).



- Students from the seventh semester CE won a project grant amount of Rs. 10,000/- from KSCSTE for the project titled “Manufacturing of Paving stones using waste plastic”. The students are Akhil Jose, Antony Kollannur, Sandeep K Mathew, Eldrix Helder and Manuel Jose, and the guide is Ms. Remya P M.
- Students from S8 EC -Troy M Jose, Nikhil Nandan, Said Jubair, and Sanal Sukumaran participated in Drishti’17- Technical Fest of College of Engineering Trivandrum and secured first prize in the Innovation Challenge’17. They received certificate of merit and cash prize worth Rs. 15,000. This team also received Rs. 11000 as financial assistance from KSCSTE for the project entitled ‘Punarjani –Chest compression system to save the lives of sudden cardiac arrest patients’. Their supervising guide was Ms. Ancy Joy (Asst Prof, ECE).
- PeBLas an innovative natural organic toothpaste formulation against tooth decay received grant of Rs 6000/- from KSCSTE. The students are Mr.Najeeb Haneef, Adithya Ganesh, Delvy Davis, Divya Anand & Sruthy Nair of 2<sup>nd</sup> year Biotechnology Engineering. The project guide is Dr.Ambili Mechoor.
- The project titled “Defluoridation of drinking water using low cost filter for rural areas” with Prof. Davis P C (Prof, Civil Engg.) as Principal Investigator and Ms. Shruthi Balachandran, Ms. Himadrija K, Ms. Merrine Paul, Ms. Anjana K, Ms. Catherine Robert and Ms. Neenu K Chandy as Student investigators had been granted an amount of Rs. 6000 from KSCSTE.
- Project Titled C-WALK (Convertible-Walking Aided Leg Kit) to enable the disabled done by Jeswin Jomario, Arjun N A, Arpith Prasanth, Abhijith B of 2013-17 batch guided by Vishnu Rajan has been allocated a fund of Rs. 10000 and is selected among 25 Final Teams for KTU KSCSTE TECHFEST 2017.
- Students from s8 EC Nihil Nandan, Sanal Sukumaran, Troy M Jose and Said Jubair received the project grant of Rs.11000 from Kerala State Council for Science, Technology & Environment (KSCSTE) guided by Asst. Prof. Ancy Joy
- Students from S8 EC Nivedhya K K, P Aswathy, Kripa Paul, Sandra A Sathyan and Pramitha P M received the Project grant of Rs.8000 from Kerala State Council for Science, Technology & Environment (KSCSTE) guided by Asst. Prof. Kavya T S.
- Hena Mary Baby, Dona Varghese, Farsana Ummat, Prince Poulose of BM received the project grant of Rs. 15000 from KSCSTE on the project topic Epilepsy Prediction And Seizure Suppression System.
- Jennifer Laly John, Neha P A, Anju Vincent, Adheena Jose and Anuvind I R of S8 CE got a fund of Rs 2 Lakhs from KSCSTE on idea day competition 2018.
- EEE department together with the support of IEDC received the 1<sup>st</sup> product development consultancy for our college. Adithya Medical Rehabilitation centre, Thrissur entrusted our college to develop a “Stand on wheels”-a wheel chair for patients with neuro disability. The team members are Midhun.C, Nithish Suresh, Kiran.P.Nair, Thejus.K.Ajith & Anchello Davis of S8 EE. Guide is Prof. Sebin Davis. Sanctioned Rs.60,000 for the same.

## **7.0 PARTICIPATION IN INTER COLLEGIATE COMPETITIONS:**

- The following students are selected for the phase 3<sup>rd</sup>& Hub level competition of WYBO “Work your Brain Out” conducted by IEEE. - Merin David , Dhanalakshmi.C.D, Sandeep.K.C, Karthika.

- M.Tech IBT 2017 batch students' secured first prize for their project titled Chitowrapper - A bioactive packaging. The group members Aleena Sebastain, Anitta Sunny, Merin Raju, Anumol S Kottackal. Their guide is Asst.Prof.Smeera Thomas.
- Ms Devu P Vijayan and Ms Gayathry Rajeev of S5 BTE secured 2nd prize in Inter University Power-point Presentation Competition on "Stay Healthy in Monsoon" conducted in connection with Monsoon Disease Awareness Programme - 2017 by Department of Microbiology, St. Mary's College, Thrissur on 28th July 2017.
- IIT Delhi has conducted a Techtop Innovation workshop, 40 students were selected all India level among them four students were from our college. They are: S7 CS-Acqueela.G.Palathingal, S7 CS-Margrat.C.R, S5 EE-Joyal Johnson, S7 EE-Aiswarya.
- The student group from S8 BME consisting of Alka Rajendran, Athira Y Das, Aysha PM and Antony Padamadan participated and secured first position in the Srishti Project Expo 2017, organized by Saintgits Engineering College Kottayam. They received the certificate of appreciation and cash prize of Rs 15,000. Same group of students participated in the project competition Texplore at GEC Trivandrum and secured first position. They received certificate of merit and cash prize of Rs 9000. The project was guided by Prof. Yuvraj (HOD, BME).
- A group of students from S8 Biotechnology comprising of Aleena Sebastian, Swathy & Jeena Elizabeth secured the Innovative Award in SRISHTI Project Expo2017 organized by Jyothi Engineering College. They received the Certificate of Appreciation and cash prize worth Rs.7000. The project was guided by Ms. Smeera Thomas (Asst Prof, BTE).
- Mr Aswin Sasi, Ms Haritha R & Mr Hilal Aboobacker, attended a two day digital fabrication workshop conducted by FAB LAB , Kerala & Innovation and Entrepreneurship Development Centre, METS Mala during 7<sup>th</sup>& 8<sup>th</sup> November, 2017.
- S6 students of BTE participated in ABLE-BEST INDIA 2017 Entrepreneurship Workshop on the project entitled 'BIOME Photobioreactor' from February 12-16, 2018. The project team members are Aswin Sasi, Hilal Aboobacker, Neha Nagarkoti, Anna Jelson and Haritha R guided by Dr Dhanya Gangadharan (BTE)
- Ms Ruth K Joji, Ms Karthika V, Ms Padmasoonam, Ms Nirosha Sunil and Ms Christeena Jose of S8 BTE participated in Paper Presentation in International Conference on Energy and Environment: Global Challenges conducted by National Institute of Technology, Calicut, Kerala on 9th and 10th March 2018 on the topic "Enzymatic catalysis for enhanced biodiesel production using membrane bioreactor".
- S7 EC students Syam Krishna, Radin Lawrence, Melwin Vincent & Ramees.P.K participated in the project competition and won third prize for their project titled "Automatic Court marker". Asst Prof in EC Emmanuel Tom is their project guide.
- Jeslin Antony & Malavika Sudheer of S5 EC secured 3<sup>rd</sup> prize in the Hub level paper presentation contest on "Smart Grid for power distribution in smart cities" conducted by IEEE.

- Renjith Mani, Ajith mani, Athul Krishna A S, Hrithwik Sadanadan & Sujith V S of S7 EEE got selection for INDIA INNOVATION CHALLENGE DESIGN CONTEST 2K17.
- Jefin Varghese, Nidhin Jose, Vimal A V, Krishnaraj P S, Elsa P J and Navneeth P R of S4 EEE conducted an awareness on Safety Home program at KSEB Chalakudy.
- Antony Albert Anto and Robince P O of S7 EEE got selection for paper presentation at NIT Calicut.
- Antony Albert Anto , Gautham Krishna K L , Christen p g , Robince P O and Jacob Jose Anto of S7 EEE got selection for project expo at NIT Raipur & the project is guided by Dr. Gopakumar P.
- Antony Albert Anto , Gautham Krishna K L ,Christeen P G , Robince P O and Jacob Jose Anto of S7 EEE got selection for INDIA INNOVATION CHALLENGE DESIGN CONTEST 2K17 & got equipment worth 200 dollars from Texas Instruments US.
- Aishwarya P of S7 EEE participated in the Techttop, National Level Innovation Workshop at IIT Delhi from 8 to 15 July 2017.
- Akhil T S & Deepak Davis of S5 EEE secured third position in E-Zone competition conducted in Christ Vidya Nikethan Irinjalakuda
- A project group from S8 BM won the “Marian project Excellence Award 2016”. The award consists of prize money of Rs. 75,000 and a certificate of merit. The project group consists of Sreerag V R, Monica M Jose, Sreelakshmi S R, Shilpa T K , Awathy K Babu. Guided by Mr. Kiran Philip Issac (Asst Prof BME)/
- A technical talk on ‘Machine learning using python’ for CSI students was conducted from by Mr. Pankaj, Assistant Professor, FISAT, Mookkannur .
- Ms Anmy George of S7 CSA, participated in the MIT-IIT MAKE IN INDIA boot camp which was held at IIT Mandi during 19<sup>th</sup> June 2017 to 15<sup>th</sup> July 2017.
- Aqueela G Palathingal and Margret C R of S7 CS participated in Techttop innovation workshop which was conducted at IIT Delhi during 8<sup>th</sup> July 2017 to 15<sup>th</sup>July 2017.
- Krishnaraj P. S, Abjeeth Aravind of S4 EEE got selected for KSCSTE Tech Fest , " Insulator Failure Leakage Current Detection Device for HV/LV lines", Guide- Dr. Gopakumar P.
- Krishnaraj P. S of S4 EEE attended Workshop on analog system conducted by Texas Instruments at NIT, Trichy.
- A project group from S8 EEE got selection to the quarterfinals of “My Government Innovation Challenge” & received equipment worth 200 dollars from Texas Instruments, US. The project title is ‘Cortar’ and the students are, Athul Krishna,

Ranjith Mani, Ajith Mani, Sujith V S & Hrithwik. Dr.Gopakumar P is their project guide.

- Manu Joseph, Parvathy.M, Aysha Rega of S6 ECE, K.Achyuthanand, Gopika Menon of S6 BT have bagged the runner up award in ECE for the project Marijuana & Alcohol Detector (Hybrid) in Srishti 2018. Ambily Francis & Dr. Dhanya Gangadharan are their supervising guides.
- IBS travel Hackathon 2018 student edition was held at Thiruvananthapuram on 27<sup>th</sup> & 28<sup>th</sup> Jan. Our student team consisting of Manu Joseph (S6EC), Ebin Joseph, Arun.A.S, Ebin Sebastian (S6CS) & Don.C.John (S4 CS) have won the 1<sup>st</sup> prize in this event. They were awarded a cash prize of Rs.60, 000 & got a direct entry to the IATA Hackathon to be held in Kerala.
- The project entitled 'Bio-Na-Chi for burn wound healing' secured second runner up prize in the Srishti 2018 contest held at Saintgits college. The project team members are Aryasree N M, Chinju Paul, Sony Vincent, Kavya N.M, Neethu K.S and the guide is Ms.Amitha Joy.
- A group of students from S8 BM participated in the project competition 'GOSOLO 18'. A National Level Technical Symposium at Kalasalingam Institute of Technology, Tamilnadu & secured first prize. The student members are Aiswarya K Sachi, Hannah Susheela, Heera P M, Nehala P N & Vaisakh T V. Dr Sudhin Thampi is the supervising guide.
- A group of 5 students from ECE department secured 2<sup>nd</sup> prize in paper presentation conducted at KSR college of Technology Erode during February, 2018. They presented the paper on the title "IOT based Aadhar Voting System." The student members are Allen Treesa, Anju Maria Jose, Athira.P, Akhil Babu, Denfin. Supervising guide is Ms.Ambily Francis.
- A national level conference on frontiers of computing was held at MES college, Kuttipuram. A team from S8 EC A Amal.S.Chalissery, Abhay Kumar, Emil Thomas, Evans.V secured the best paper award based on their project. The prize consists of a trophy & a cash prize of Rs.8000/- Prof.Lekha.N.M is their project guide.

### **Student's Participation in KETCON TEKON 2018**

- Aiswarya K Sachi secured special prize in KSCSTE KETCON 2018 jointly organised by Abdul Kalam Technological University and KSCSTE hosted by Sahrdaya College of Engineering and Technology on 23- 25th February 2018 for the paper 'PULMONARY FUNCTION AND MULTI ANALYSIS SYSTEM WITH DISEASE MONITORING CAPABILITY'.
- Four of student projects in BT department selected for Project Exhibition in TEKON 2018 are Biosensors for detection and degradation of pesticides, Enzymatic catalysis for enhanced biodiesel production using membrane bioreactor, Media optimization for

probiotics using fruit waste and vitamin enriched functional food and Bio-Na-Chi for burn-wound healing guided by Dr Dhanya Gangadharan, Dr Uma Krishnakumar, Ms Marria C Cyriac and Ms Amitha Joy respectively.

- Akhil Jose, Manuel Jose, Eldrix Helder and Antony Kollannur of S8 CE got grant of Rs10,000 from KSCSTE and the project was short listed for TEKON 2018.
- Akhil Jose, Manuel Jose, Eldrix Helder and Antony Kollannur of S8 CE presented a paper “Manufacture of Paving Stone” in KETCON 2018.
- Irene Maria Mathew, Arsha Johnson, Celin Rose, Jiss Theresa and Krishnapriya of S8 CE presented a paper “Water Treatment Using Natural Materials” in KETCON 2018.
- Antony Albert Anto , Gautham Krishna K L ,Christeen P G , Robince P O and Jacob Jose Anto of S8 EEE presented a paper “MODULAR INTEGRATED AUTOMATED SUBSTATION SYSTEMS” in KETCON 2018.
- Antony Albert Anto , Gautham Krishna K L ,Christeen P G , Robince P O and Jacob Jose Anto of S8 EEE bagged a special prize offered by KSCSTE in TEKON 2018 worth Rs 5000
- Vaishnav K, Bibin Antony, Evin Antu, Tijo T J & Fijo Francis of S8 EEE presented a paper “SMART HYBRID POWER DRIVE FOR AGRICULTURE MOTOR” in KETCON 2018.

### 8.0 STUDENTS COUNCIL

Office bearers were elected to the College Students Council for the year 2017-18. Mrs Shini Shanmughan (Asst. Prof. CE) is the faculty advisor to student’s council.

- The new student council was inaugurated on 18<sup>th</sup> August, 2017.
- As a part of central vigilance commission student council took an awareness integrity pledge on 30<sup>th</sup> October, 2017.

### 9.0 SPECIAL EVENTS

- The inaugural ceremony of 3<sup>rd</sup> International conference on Trends in Research, Engineering and Developmental Sciences (TRENDS’17) organized by CSE department in association with ECE, BTE and EEE departments was on 16<sup>th</sup> June. Cdr John Edison (Senior Leadership Facilitator, CTS, Coimbatore) delivered the keynote address.
- The inauguration of GE- Sahrdaya Industry academic collaboration and the blessing of the new GE- Sahrdaya Center of Excellence in Health care Technologies Lab were done on 21<sup>st</sup> June. Inaugural address was given by Dr Kuncheria P Isaac, Hon. Vice Chancellor, APJ Abdul Kalam Technological University. Mr Maneesh R Pherwani (GM ,South Asia Education & Professional Services,GE Health care),Mr Mandeep Singh (Chief commercial officer, GE), and Mr Marut Setia (Head of Education and Skill Development for GE Health care across South Asia, Africa and ASEAN region attended the function.
- The 11<sup>th</sup> Convocation ceremony of 2012-16 batch was held on 23<sup>rd</sup> October, 2017. His Excellency **Mar Pauly Kanoorkadan, Bishop of Irinjalakuda Diocese** Preside the convocation and Ms. Terri Bresenham (President & CEO, sustainable healthcare solutions, GE Healthcare) delivered the convocation address.



- Sahridaya College of Engineering and Technology created history by participating in a mega-workshop from August 7<sup>th</sup> to November 15<sup>th</sup> 2017 with 100 participants on Foundation Program in ICT for Education FDP101x and FD201x conducted by IIT Bombay. The workshop was conducted in distance mode, using A-VIEW software and the Internet, as part of the National Mission on Education through ICT (MHRD, Govt. of India). More than 7500 teachers participated from over 180 RCs. As part of the Faculty Development Program conducted by IIT Bombay, Prof Deepak Phatak from IIT Bombay visited Sahridaya College of Engineering and Technology on 7<sup>th</sup> October 2017.
- On 16<sup>th</sup> January, 2018 a new venture, Sahridaya Technology Business Incubator (STBI), a joint venture of Kerala State Industrial Development Corporation(KSIDC) was started. Dr. Christy Fernandez, chairman KSIDC inaugurate the function. Our chairman Bishop Mar Pauly Kannookadan presided over the function.

#### **10.0 NATIONAL SERVICE SCHEME:**

- On 26<sup>th</sup> January, 2018 Republic Day was celebrated. The National Flag was hoisted by the Executive Director.
- Physical Education Director Vijay.C.U & Asst.Prof. Ashna Mohan along with 15 students participated in the IEDC flash mob on 16<sup>th</sup> August, 2017 at marine drive Ernakulam. It was conducted by Channel I'm.
- NSS unit of Sahridaya inaugurated the 1Rupee 1Life campaign ON 13<sup>th</sup> Nov, 2017.
- Cleaning of the premises of Public Health Centre, Kodakara was done by NSS volunteers on 2<sup>nd</sup> October, 2017, as part of Gandhi Jayanti. The programme was inaugurated by Mr. P.R.Prasad, Kodakara Panchayat President. Medical officer of the PHC was also present there at the time of inauguration

#### **Sports**

- In connection with the National sports Day Walkathon and Football Exhibition Match was organized on 29<sup>th</sup> August, 2017. The program was flagged off by Col H Padmanabhan (commanding officer 7 kerala girls Battalion NCC, Thrissur). Thereafter, we had the football exhibition match in the college football ground.
- Reliance foundation of Youth sports has organized the Thrissur district level Football Competition in our College from 12<sup>th</sup> October, 2017. The event was inaugurated by our Executive Director & Manager Msgr.Prof.Dr.Lazar Kuttikadan.
- We had the Men & Women E - Zone Basketball matches at GEC Thrissur on 17<sup>th</sup>& 18<sup>th</sup> October, 2017. Men team qualified for the Quarter final and the team members are Bastin John Antony (S5 EEE), Shony K Devassy(S3 CE), Rahul M M(S3 EEE), Muhammed Fahis T P( S3 BM), Arshath Abdul Khader (S3 CS), Abdul Basith Ashraf (S5 BM), Anas Abdul Azeez (S5 EEE), Steve Shaju ( S1 EC), Sruthin James (S3 BM), Venkideswara Prasad (S5 EEE), Nishanth Prasad (S3 EC), Arun J Nambiar ( S5 EEE)  
Women team members are ; Anmariya Benny(S5 BT),Christy Davy (S5 BT),Dona Joseph (S5 BT),Emi Elizabeth Benson(S5 BM),Mary Mareena James(S5 CE),Minnu Joy(S5 EC),Namitha Nirjathan(S5 BT),Sandra Marium Kurien( S5 BT),Sanitha T Nirjathan(S5BM),Sherin Alappat Davis(S5 CS).



- On 17<sup>th</sup>&18<sup>th</sup> 2017 Men & Women E - Zone Basketball matches were started at GEC thrissur. Men team qualified into Quarter final & women team secured a first runner up position and qualified into inter zone competition . women team are ; Anmariya Benny(s5 BT),Christy Davy (S5 BT),Dona Joseph (S5 BT),Emi Elizabeth Benson(S5 BM),Mary Mareena James(S5 CE),Minnu Joy( S5 EC),Namitha Nirjathan(S5 BT),Sandra Marium Kurin( S5 BT),Sanitha T Nirjathan (S5BM),Sherin Alappat Davis(S5 CS). The women team members participated in the inter zone competition at Eranad Knowledge City Campus, Manjeri and were qualified for the Quarter Final.
- Our football team participated the Reliance foundation youth sports on 31<sup>st</sup> October, 2017.
- E - Zone shuttle badminton tournament was held at Christ Engineering college, Irinjalakuda on 23<sup>rd</sup>& 24<sup>th</sup> October, 2017 and our shuttle badminton team secured the zonal based second runner up & individual position in tournament. The team members are Akhil T S ( S5 EEE), Geo Joy(S3 EEE), Albin Paulose(S3 EC),Deepak Davis(S5 EEE), Milin Joseph(S5 CS), K S Ashik (S3 EEE). Individual championship fourth position E Zone shuttle badminton tournament was awarded to Mr. Geo Joy ( S3 EEE).
- PECSAGA volleyball tournament (Men) was conducted at Malabar college of Engineering and technology during February, 2018 and our college team won the 1<sup>st</sup> runner up trophy.
- An annual sport meet was held on 12<sup>th</sup> Feb, Monday.
- PECSAGA Volleyball tournament was held at Malabar college of engineering & technology on 17<sup>th</sup>& 18<sup>th</sup> February 2018. Our college team, men & women participated and men team had secured first runner up position in the tournament. Women team had second runner up position in the tournament.
- Mr. Vishnu Shaji of S4 BM , became the Man of the Match for PECSAGA football tournament.

### **11.0 RDC ACTIVITIES**

- Compilation of all the published research papers of the faculty during 2016-17 AAVISHKARAH III was released.
- Interdisciplinary Café 4 Disruptive thinking -IC4D an interdisciplinary project contest was initiated along with IEDC and contest was conducted in presence of Director, Joint Director and Dr Ajay, Faculty GEC.
- Search, Collaborate and Implement - SCI'18 plan was launched for newly joined faculty, under this plan a newly joined faculty can kick start their research career in a step by step manner. First step is searching for opportunities and getting acquainted with system for 6 months, second step is collaborating with other faculty and form student groups then last and final third step is applying for funding based on results from collaborated work. Thus, all will be able to acquire funded projects.

- Dr. Leon and Dr. Gnana King, RDC council members got recognized as KTU guides.
- Sahrdaya came into the list of KTU approved research centers after Ms Jinu Sebastian faculty from BM department registered for PhD under KTU and chose above mentioned RDC council members as guides.
- **E-yantra, a IITB initiative to establish robotic labs**  
A workshop was attended by a team of 4 faculty members Dr. Sudhin Thampi (BM) as coordinator, Mr Saran K B (EC), Anoop V P (EE) and Mr. Krishnadas (CS) as team members, conducted at IIT Bombay under a MHRD initiative. This was followed by task completion and set up of a Robotics lab at SCET and will act as a nodal center for e-yantra activities.

## 12.0 News @ IEDC

- Coders Club of IEDC Sahrdaya organised a workshop on basics of HTML, CSS with fire base backend.
- On 8th June Dr. Vishnu Rajan (Assoc Prof - EC) represented IEDC Sahrdaya in Kerala Startup Mission's official representation to study NASSCOM's Centre of Excellence for IoT, Bangalore and Workbench Project, Bangalore.
- On 14th July, 2017 IEDC in association with ECE Dept. organised a faculty development program on "Express EYE Open Source HW/SW Development Tool". Dr. Ajith Kumar, Senior Scientist Inter University Accelerator Centre, New Delhi was the resource person.
- On 18th July, 2017 IEDC had a discussion with Mr. Sujith, CEO of IBIS Medical Systems on commercialization of products developed through Academic Projects.
- On 27th July, 2017 IEDC arranged a talk by Pradeep Punakara, an alumni Entrepreneur who brought disruption in agriculture through his company FarmersFz.
- On 27th July, 2017 IEDC conducted a one-day orientation program for Newly Joined Students of 2017 B.Tech.
- Volunteers of IEDC Sahrdaya performed Flash Mob on 16th of August at Marine Drive Cochin towards the promotion of IEDC Summit 2017.
- Members of IEDC Sahrdaya participated and Volunteered in IEDC Summit, India's largest Student Entrepreneurship Summit on 19th August 2017 at Adulx Convention Centre, Cochin.
- On 30th August IEDC conducted "out of Syllabus" Bootcamp for Final Year students in Collaboration with Kerala startup Mission, Kerala State Industrial Development Corporation, open fuel and Channel I'm.

- 3 Student representatives participated 2-day Patent Information Workshop at Amal Jyothi Engineering College, Kottayam during 22nd to 23rd of September 2017.
- On 12th of September 200 students of Sahrdaya participated in YES 3D (Young Entrepreneurship Summit) Discover, Disrupt and Develop at Le Meridian Convention Centre, Cochin.
- IEDC started a peer skill sharing program at Santhome Hostel, MAKERS@HOSTEL to promote maker skills of students.
- IEDC & RDC the research wings of Sahrdaya jointly present "Innovative Cafe 4 Disruptive Ideas (IC4D) contest 2017 at SCET.
- Hardware club of IEDC participated in the NIT Techfest and bagged 2<sup>nd</sup> prize in the event E- RACER. The students are Akshay Babu - S3 EE , Arunjo Maliakkal-S5 EC, Gowri Sankar P U - S5 EC.
- Kerala startup Mission (KSUM) conducted Idea Presentation Competition - Idea Day. More than 100 entries were there, among them 16 shortlisted. Out of 16, 3 engineering colleges were shortlisted. One of our project group received grant of Rs. 40,000 for creating brain signal mapping. The team members are Anjana C Sunil, Ashna Sunny, Ann Maria M J, Delna Davis, Divya Davis all from S7 EC A. Their project guide is Dr. Vishnu Rajan.
- IEDC Media Club was launched on 21<sup>st</sup> Nov, 2017.
- Kerala State Industrial Development Corporation (KSIDC) has approved Technology Incubation Centre (TBI) in our college. This TBI will be functioning with the support of KSIDC. An amount of Rs. 5 lacs is sanctioned towards the facility built up of TBI.
- A workshop on "Experimental Research and Product Development - Tips for Research Grant" by IXORA Tech Consulting Services Pvt Ltd. was arranged on 7<sup>th</sup> December, 2017. The aim is to promote funded projects in our college.
- Every month Kerala Start up Mission through IEDC is granting Idea Fund upto Rs. 2 Lakhs for student innovative Ideas. Till now two groups from sahrdaya received the Idea grant - one group is from Biomedical Department 2 lacs & other group from Electronics & Communication dept. Rs. 60000.
- IEDC conducted a two day Ideation workshop in association with Kerala startup mission & ICT Academy during 14<sup>th</sup>& 15<sup>th</sup> Feb.

### **13.0 IEEE CHAPTER @ SAHRDAYA**

- IEEE All Kerala Students Congress was hosted in our campus during 26<sup>th</sup> to 28<sup>th</sup> August, 2017.
- IEEE conducted Spectrum Talks on 7th, 14th, 28th of July 2017 and 11th of August 2017, which is an initiative taken for improving the technical knowledge of students.
- Five phase panel discussion on Medical device rule 2018 was organized to make the topic reach all the students and members of the faculty.

- The phase 1 (Student branch level) of the three phase (Student branch level, Zonal level and Hub level) WYBO (Work Your Brains Out) conducted on 10th August 2017 and the phase 2 (Zonal level) conducted on 19th of August 2017.
- The IEEE All Kerala Student Congress 2017 has held at SCET from 26th to 28th of August. The annual flagship event of IEEE LINK team has given, the delegates from around Kerala, a wonderful platform to enhance their technical knowledge and cater a passion for volunteering.
- A five day (6-10 September 2017) internship is conducted by Niranjana Ultrasound, Calicut, which involved hands on experience of 25 Medical equipment's.
- IEEE student branch of our college has received as amount of Rs. 40,639 as a rebate from IEEE Kerala section for the activities conducted during 2017.
- During the Kochi annual general body meeting held on 2<sup>nd</sup> January, IEEE student chapter of Sahridaya received two important achievements IEEE link representative Akshay.M.Sabu has been awarded for the best student volunteer 2017. IEEE student branch received award for the versatile student activities and successful conduct of AKSC.
- Annual General Body meeting of IEEE Kerala section was held at Trivandrum on 13<sup>th</sup> Jan 2018. Padmavibhushan Shri.E.Sreedharan was the chief guest. Two members of our college, IEEE student chapter was recognized as outstanding student volunteer award. The student are Jiby Krishna(S8 BM) & Midhun.C(S8 EE).

#### **14.0 OTHER IMPORTANT PROGRAMMES:**

- Youth Dynamics was organised for the students of first year, third year and fourth year during the month of August 2017 , for the second year students in September 2017
- Prof. Deepak Phatak from IIT Bombay visited our campus 7<sup>th</sup> Nov, 2017.
- "Anti-Drug" awareness talk was arranged for all the students in the auditorium on 10<sup>th</sup> August, 2017. Circle Inspector from Excise Department addressed the students.
- Rotary Club of Thrissur awarded Sahridaya for the "Outstanding Contribution in Engineering Education in Kerala (2017).
- We had the NBA expert committee visit during 6<sup>th</sup> to 8<sup>th</sup> October, 2017 for the academic assessment of programmes offered by Biomedical Engineering, Biotechnology, Computer Science & Engineering & Electronics & Communication Engineering.
- Our college has been selected as the venue to conduct TECHFEST & KETCON 2018 during 23<sup>rd</sup> to 25<sup>th</sup> February, 2018 by KTU.

#### **15.0 TOWARDS SOCIAL COMMITMENT**

- The inauguration of 'Duroflex Energise - Disease Awareness Eco Drive' a CSR-Corporate Community Education partnership was on 18<sup>th</sup> Sept, 2017. The partners in this programme are Sahridaya, AVARD & Lions club, Thrissur.

- A group of S6 CE students under the guidance of head of the department Prof.Sunny C.P and faculty members prepared a master plan of the school complex & stadium for govt. school Kodakara as per the request by Grama Panchayath & school authorities. The master plan was handed over to minister of Education for Kerala Prof.C. Raveendranath during a function held at the school. The student members are Angel Rose, Anjanet Anto, Chethana Unni, Agnes Paul of S6 CE.

#### **16.0 SCHOLARSHIPS AND AWARDS:**

- Our Principal Dr. Nixon Kuruvila received the JCI Academic Excellence Award 2017.
- The meritorious faculty members were awarded with incentives for producing 100% results.
- Seventh semester student of CE Mr. Sreevishnu V U won a scholarship amount of Rs. 26,750 from CADPOINT Thrissur.
- Seventh semester students of CE Ms.P F Aleena, Ms. Rose Mary Johny and Ms. Celin Rose Joshy won a scholarship amount of Rs. 13,375 each from CADPOINT Thrissur.
- Fifth semester students of CE Mr. Sudhan A, Mr. Adas K P won a scholarship amount worth Rs. 13,000/- from CADPOINT Thrissur.
- Scholarships and Awards from Bishop Mar James Pazhayattil Silver Jubilee Welfare Fund were given to deserving students based on the recommendations of the Committee constituted for the same.
- Dr. George Thottappilly memorial all Kerala essay writing competition was arranged by the department of Biotechnology.
- During the academic year 2016-17 Management had given more than Rs.3.2 crore to 725 students as various scholarship and free ships.
- Deepika the daily newspaper has honoured our college for the outstanding creative performance during the past years on 24<sup>th</sup> Feb at Lulu Convention Centre.

#### **17.0 IMPORTANT ACADEMIC ACHIEVEMENTS:**

- Sahrdaya is approved as a research centre for Ph.D program by APJ Abdul Kalam Technological University
- The course of Red Hat was conducted at Sahrdaya in co-operation with IPSR.20 of our S7 CS students passed in the international certification as the "Red Hat certificated system Administration".
- College is approved as a Training center by Food Safety and Standards Authority of India.
- Annual surveillance of ISO Audit was conducted on 30<sup>th</sup> of October 2017 by TUV SUD. It was successful and was recommended for the extension of certificate to another year.
- Our college has been selected as one of the NPTEL (National Programme on Technology Enhanced Learning) Local Chapters. Dr. Arun Thomas, Associate

Professor, ECE Department has been appointed as the SPOC (Single Point of Contact) of our College for the conduct of NPTEL courses.

- 41 students and 7 of our faculty members successfully completed the NPTEL Certificate course.
- Ms. Jiby Krishna K G of S8 BME won the prestigious 'Diamond Ring Award' for the year 2017-18.
- Civil Service Exam Coaching and foundation course for engineering students are being conducted in association with Sahrdaya – Tech..
- Conducted Budding Engineer Scholarship Test.

### **18.0: INFRASTRUCTURAL FACILITIES**

- The inauguration of GE Sahrdaya Industry academic collaboration and the blessing of the new GE Sahrdaya Centre of Excellence in Health Care Technologies Lab were on 21<sup>st</sup> June, 2017.
- On 16th February, 2018 we started a new venture, Sahrdaya Technology Business Incubator (STBI). This STBI is a joint venture of Kerala State Industrial Development Corporation (KSIDC). Dr. Christy Fernandez, chairman KSIDC inaugurated the function.
- Furnishing of the new room for Digital and Community Radio is in progress.
- Renewed room for training & placement department.
- New Toilet block constructed.
- Renovated the entrance to main block and stage in the auditorium.

### **19.0 Conclusion:**

I thank our Chairman, Board of Trustees, Members of Advisory Board and Academic Council, Faculty members, Staff and Students for their cooperation help and Support for the development of Sahrdaya.

**Dr. Nixon Kuruvila**  
**Principal**