

**ACTIVITY REPORT 2014-15**  
**GOVT. ENGINEERING COLLEGE PALAKKAD**



**Sooshinivethy S.S**  
**GATE2015 Topper**



## Table of Contents

S. No	Item	Page
1	INTRODUCTION	4
	DEPARTMENTS AND THEIR ACHIEVEMENTS	
	Dept. of Computer Science & Engineering	5
	Dept. of Electronics & Communication Engineering	6
	Dept. of Information Technology	9
	Dept. of Mechanical Engineering	17
	Center for Engineering Research & Development	22
	Research Publications	24
	IEEE	29
	Industry Institute Interaction Cell	37
	Placement and Training	34
	Visiting Faculty Programs	39
	National Service Scheme	42
	Technology Business Incubator	48
	College Union Activities	52
	Projects Completed/in Progress	55
	Plan Progress	57
	CONCLUSION	58
	APPENDIX: EVENTS	59

## **1 INTRODUCTION**

Government Engineering College, Sreekrishnapuram was established in 1999 at Sreekrishnapuram Village of Palakkad. The serene atmosphere is conducive for academic work and the institution has made its presence felt in the professional landscape of the state within a short span of time. Endowed with brilliant students and dedicated faculty, it is on the path of development. The college presently has three undergraduate courses of study, namely Computer Science & Engineering, Electronics & Communication Engineering, Information technology and Mechanical Engineering and a postgraduate course in Computer Linguistics, Which are approved by AICTE. All the key systems required for a healthy institution, such as advisory system, the career Guidance and Placement unit, student chapters of professional bodies like the IEEE and ISTE, an active parent Teacher Association, Students Co-operative Society, Alumni Association, etc., are already in place, This document summarizes the performance of the institution during 2013-2014, touching upon the academic, developmental and financial aspects.

## **2 DEPARTMENTS AND THEIR ACHIEVEMENTS**

### **2.1 DEPT. OF COMPUTER SCIENCE & ENGINEERING**

Semester	%Pas	Semester	%Pas	
S8	85.5	S3	73.9	
S7	83	S1S2	54	

#### 2 Placement:

- 2014 passout: 21/41 eligible B.Tech and 12/18 M.Tech students placed

(Major Recruiters: NEST, IBS, UST GLOBAL, HCL, COGNICORE, DeCirc, Teaching )

- 2015 batch: 10 B.Tech and 7 M.Tech students placed (Nest, IBM)
- GATE-2014: 8 students qualified, GATE-2015: 11 students qualified

#### 3 Other achievements

- One student project is all set to file a patent application.
- Another project got CERD funding of Rs. 50000/-
- Abhijith Mahipal M and Vishnu G Nath of II year CSE have won II Prize in the Technical Quiz conducted during the National Level Techfest Pulmarious 2014, Sahrdaya College of Engineering Kodakara 13 Oct 2014.
- Nidhin M Mohan, II Yr CSE has won the I Prize in CODE SPRINT event at the Technical Festival GAMAYA conducted by NSS CE Palakkad, Sep 2014.

#### 4 Faculty Contributions

- Four inhouse FDPs were conducted by faculty members (Naseer C., Raseek C, Dileesh ED, Binu R)
- All faculty members are undergoing training under TEQIP
- No. of publications: 22(including those communicated/under review)
- Faculty members actively contribute to institutional development, by way of conceiving and realizing projects such as Innovation Center, Center of Excellence, TBI, Punarjani, Campus Networking, etc)
- Active roles in TEQIP (Finance, EAP, Procurement)
- Extension Lectures delivered by faculty: Five
- Visiting Faculty Programs conducted: Five
- Programs under ASAP: TWO
- Uploaded the eSAR for NBA accreditation
- Implemented Moodle platform in the dept for 4 schemes (B.Tech/M.Tech/GATE coaching/ Aptitude tests for Placement training) (Coordinator: C.. Raseek)

#### 5 Others

- Procured items worth Rs.71.12 lakhs (total of 83.5 lakhs under TEQIP-II for various activities)
- Remedial coaching and GATE coaching programs conducted

## **2.2 DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **1. FSDs conducted (2 Nos.).**

1. Antenna theory and design - from 10<sup>th</sup> to 12<sup>th</sup> November 2014, Co-ordinated by Mrs. Asha Prasad, AP, ECE -30 participants from various Engg. Colleges.

2. Matlab for signal processing – from 1<sup>st</sup> to 3<sup>rd</sup> December 2014, Co-ordinated by Mrs. Bindu P.Palakkal, AP, ECE - 30 Participants

2. Expert talk under VFS on **Solar Photo Voltaic System** by Dr. K.K. Sasi, Professor in EEE, Amritha school of Engineering, Ettimadai, Coimbatore, for S7 ECE students.

### 3. **FSD attended (10 Nos.)**

1. Anwar Hussain M. and Rani L., AP, ECE -Training on Management Capacity Enhancement at IIMK during August 2014.

2. Swapna G., AP, ECE - (a) FCRI - training on “Principles of Data acquisition and SCADA” at FCRI Kanjikode from 17<sup>th</sup> to 20<sup>th</sup> September 2014, (b) IITM - Pedagogy training

3. Asha Prasad , AP, ECE- 1) Workshop on Electromagnetics Education at CUSAT, cochin from 18/12/2014 ti 19/12/2014.

4. Binoj S., Computer Programmer,ECE -

(a) Attended a workshop on “Web Designing using PHP and MySQL” at ESCI, Hyderabad from 14<sup>th</sup> to 20<sup>th</sup> October 2014,

(b) Taining program on “Web application development using JAVA” at C-DAC campus, Technopark, Thiruvananthapuram from 24<sup>th</sup> November 2014 to 19<sup>th</sup> December 2014,

(c) Attended a training program on “Implementation of IPV6” from 17<sup>th</sup> to 19<sup>th</sup> March 2015 at ESCI, Hyderabad.

5. Mr. Satish T.K, Mr. Mohamed Ali , T/I, ECE and Mr.Suresh Babu T.K, T/M, ECE, had attended DTE sponsored training program on Data Communication and Network Security at GEC, Thrissur from 12<sup>th</sup> to 16th January 2015.

6. Mrs. Sachidanandan T.K., T/I, ECE had attended a training program on personality development at GEC Thrissur.

### 4. **Paper Presentations**

- Mrs. Bindu P. Palakkal has presented a paper on international conference (TENCON 2014) “Parity Aided Detection of SM - MIMO Systems” at Bangkok, Thailand during 22/10/2014 to 25/10/2014.
  - Mrs. Asha Prasad has presented a paper “Communication Aid for Verbally Handycapped” in the National conference at NSSCE, Palakkad held on 28<sup>th</sup> and 29<sup>th</sup> June 2014. Abhay Mohan M.V, Jishnu Pavithran, K Lijo Osten, Jinumon A and C. P. Mrinalini. Simulation of Spectral Match and Spatial Non-Uniformity for LED solar simulator. 2014 IEEE Global Humanitarian Technology Conference - South Asia Satellite (GHTC-SAS), 26-27 September 2014.
5. Our alumnus Kum. Sooshinivethy, of 2014 passout batch, bagged 10<sup>th</sup> rank in the GATE 2015 with 100% score, and has been congratulated by the ECE department.
  6. A batch of 50 students of final year ECE went for an Industrial visit at NAL, Bangalore.
  7. Students in final year ECE has done four projects in various organizations like ISRO Bangalore, NPOL Kochi and IRTC Mundur, Palakkad where we have MOU.
  8. ECE association arranged a training on PCB fabrication using the machine procured under TEQIP II for Final and Pre-final year students. Our alumnus Mr. Abhay Mohan demonstrated the fabrication of PCB using this machine. More than 30 students attended the program.
  12. MODROB fund has been utilized for Advanced Communication Engineering Lab in ECE department for the purchase of equipments, accessories and trainer kits of approximately 12 Lakhs.

## 2.3 DEPARTMENT OF INFORMATION TECHNOLOGY

### R&D Programs

Sl. No.	Details of Activity	Date & Duration	Participants	Title of Journal/Project
1	Ongoing Project	01/01/2014 - 30/05/2015	1) Fahima M.S. 2) Nishma Parvin 3) Reshma G. 4) Sreelakshmi (S8 Students)  Guided By Prof.Showkath ali.V	Automatic LPG booking, Leakage Detection and Real Time Gas Measurement Monitoring System
2	Conference Paper Registration in IRAJ Research forum named ICEES	30/08/2014	Mr. Vinayachandran K.K,AP	Performance Evaluation on TCP over Wireless Sensor Network Using NS-3
3	Paper Presentation in First International Conference on Computational Systems and Communication at LBS Institute of Technology, Trivandrum	17/12/2014 - 18/12/2014	Ms.Indhuja K,AP(Adhoc)	Fuzzy Logic Based Sentiment Analysis of Product Review Documents
4	Paper Publication(4) in the National	26/02/2015 - 27/02/2015	1)GovindMurali 2)Kiran K.A	1) Analysing efficiency of various sensors in crash impact



	Conference On Advanced Technology in Comp. Science and Communication in association with ISTE at MET's School of Engineering, Mala, Thrissur	5	3)Jayadev	2) Power Management in MANET-in a Train Route an Analysis
			4)Kishore (S8 Students)	
			Guided By	
			Mr.Vinayachandran K.K,AP	

### **FSD In-House Programs**

<b>Sl . No.</b>	<b>Program Title</b>	<b>Date &amp; Duration</b>	<b>Coordinators</b>	<b>Resource Personnels' Organisation/Institution</b>
1	Role of Engineers in Society	16/10/2014-18/10/2014	Mrs. Dhanya K.M,AP & Mrs. Sasinas Alias Haritha Z.A, AP	Cochin University of Science & Technology
2	Language Technology	17/11/2014 - 21/11/2014		IIITMK,CDAC,AmrithaVishwaVidyapeetham, CUSAT
3	Digital TV & Video Technologies in Information Age	24/11/2014 - 26/11/2014		Reliance Big TV Ltd.,Mumbai
4	Communication Skills through Software Tools	07/01/2015 - 08/01/2015		Mr. Safer Babu T, AP & Mrs. Silpa Sangeeth L.R, AP

### **FSD External Programs**

<b>Sl. No.</b>	<b>Program Title</b>	<b>Date &amp; Duration</b>	<b>Participants</b>	<b>Organising Institution</b>
1	Machine Learning Algorithms & Data Analytics	03/06/2014 - 13/06/2014	Silpa Sangeeth L.R, AP SafeerBabu T, AP	Thapar University, Patiala
2	Research Directions towards Wired & Wireless Networking Technologies	04/08/14 - 09/08/14	Mrs.Ambili Chandran R.S, AP	GEC BartonHill, Tvm
3	Workshop on Research Practices on Topics in Mathematics & Computer Science	07/08/2014 - 08/08/2014	Mrs. Silpa Sangeeth L.R,AP	Madras Christian College
4	Software Testing	27/10/2014 - 31/10/2014	Mrs. Sasinas Alias Haritha Z.A, AP	GEC,BartonHill , Trivandrum
5	2 days workshop on CCNA Routing and switching	27/10/14 - 28/10/14	Mr. SabuK.Kurian & Mr.Abdul Raheem, TI	GEC, Wayanad
6	Management Development Program	27/10/2014 - 01/11/2014	Mrs. Dhanya K.M,AP	IIMK,Kozhikod e
7	Recent Trends in Applied Mathematics	27/10/14 - 28/10/14	Mr.SafeerBabu T, AP	TKM College of Engineering, Kollam
8	STTP on Network covering CCNA Syllabus	24/11/14 - 10/12/14	Mr. Showkathli E, TI	Keltron, Calicut
9	4 weeks training program on Web Application Development	24/11/2014 - 22/12/2014	Mr.SumeshE, .Co.Prgr.	C-DAC, Technopark, Trivandrum
10	One Day work shop on Aneka	28/11/14	Ms. Geethu Mary George	Anna University

	Tool		& Mr. Ranjith K, AP(Adhoc)	Regional centre ,Coimbatore.
11	Computer Network and Management	1/12/2014 - 512/2014	Mr.Abdul Raheem TI	GEC, Calicut
12	3 days NKN workshop	15/12/2014 - 17/12/2014	Mr.Safeer Babu T, AP	IIT- Guwhatti
13	SDP on Linux System Administration	28/01/2015 - 30/01/2015	Mr. Showkathal E, TI	Govt. Eng.College, Thrissur
14	5 days FSD on Image & Video Processing using MATLAB	10/02/2015 - 14/02/2015	Mrs. Saritha R.S, TI	IIITM-K, Technopark Trivandrum
15	Pedagogical Training to Faculty	23/02/2015 - 28/02/2015	Mrs. SilpaSangeeth L.R, AP	IIT Madras
16	Pedagogical Training to Faculty	19/03/2015 - 21/03/2015	Mr.Vinayachan dran K.K.AP	IIT Madras

### **III Cell Programs**

<b>Sl. No.</b>	<b>Program Title</b>	<b>Date &amp; Duration</b>	<b>Participants</b>	<b>Resource Personnel</b>
1	Cyber Security & Forensics	27/11/2014	IT Students ( 70)	Dr.VargheesePaul,CU SAT
2	Arduino& Raspberry PI	13/03/2014	IT Students (66)	Dr.SajithVariyath,CE N,Amritha

### **Industrial Visits**

<b>Sl. No.</b>	<b>Industry Visited</b>	<b>Date &amp; Duration</b>	<b>Students</b>
1	ACE Components,Mysore	16/10/2014- 18/10/2014	S7
2	Keltron Lighting Division,Kozhikode	16/10/2014- 18/10/2014	S7 &

			S5
3	Mpower, Bangalore	16/10/2014-18/10/2014	S3

### **EAP Programs**

<b>Sl. No.</b>	<b>Program Title</b>	<b>Date &amp; Duration</b>	<b>Participant</b>	<b>Resource Personnel</b>
<b>Remedial Classes</b>				
1	Electronic Circuits	October 2014	S3	Ms. Geethu Mary George
2	Data structures & Algorithms	November 2014	S3	Mr.Safeer Babu T.
3	C Programming	October 2014	S3	Safeer Babu T & Vinaya Chandran K.K.
4	System Programming	October 2014	S5	Mrs.Silpa Sangeeth L.R.
5	Network Programming	October 2014	S7	Ms. Geethu Mary George
6	Computer Graphics Programming	October 2014	S7	Mr.Vinaya Chandran K.K.
6	Computer Graphics	October 2014	S7	Mr.Anil R.
7	Engineering Graphics	April 2015	S1&2,S4	Faculty of ME Department
8	Engineering Mechanics	April 2015	S1&2,S4	Faculty of ME Department
<b>Technical Skills</b>				
1	Web Development (Java, PHP, My SQL)	July-Dec 2014	S7	Mr.Vinaya Chandran K.K.
2	Core Java Programming	Dec - Jan 2015	S4	Mr.Vinaya Chandran K.K.
3	Basics of C programming	Feb - March 2015	S1 & S2	Mr.Vinaya Chandran K.K.
<b>Non Technical Skills</b>				

1	Orientation & Personality Development Trainings Development Trainings	Feb -Mar 2015	S1&2,S4,S6 & S8	Mrs.Sandhya K.P,AP-Economics
---	--	---------------	-----------------	------------------------------

### **Additional Skill Acquisition Programs**

<b>Sl. No.</b>	<b>Program</b>	<b>Name of the Student</b>	<b>Semes ter</b>	<b>No. of Students</b>	<b>Organisers</b>
1	Introduction to Robotics	1) Abhishek 2) Abitha C.A. 3) AdheepaThahsin E.K 4) Akhila U. 5) AnithaDas B. 6) AneenSuhail K.M. 7) Ashin M 8) Bijaydev K.M. 9) Binu Francis 10) HarishmaChandran 11) Haritha P 12) Merlin Mary 13) Mohammed SaleekShaz K. 14) ParvathyRamakrishnan 15) Remya Krishnan N. 16) Rinsha C.P. 17) Sabikha V.M. 18) SarathKumar K 19) Sreechitra P	S6	19	FOSS
2	Cup of Java	1) Anoop Joy 2) Gayathri P 3) Nithin P	S8	4	FOSS

		4) Sabareesh			
		1) BijayDev K.M. 2) FebinFathima P 3) HarishmaChandran 4) Mohammed SaleekShaz K. 5) Nivya M. 6) Rinsha C.P. 7) Sabhikha V.M. 8) Smitha G.	S6	8	
		1) Aneesh K.	S4	1	
3	Elixir Programming		S6	1	
		1) Aneesh K. 2) Sreejith V. 3) Vishnu Gopal P.G.	S4	3	FOSS
4	Ruby	1) Lathesh 2) Nithin P 3) Ranjana V 4) Sabareesh Krishnan	S8	4	
		1) Aneesh K. 2) Arjun V 3) Ashmyk.Jose 4) Sreejith V 5) Sreerag V 6) Vishnu Gopal P.G.	S4	6	FOSS
5	Python	1) Lathesh 2) Nithin P 3) Reshma A 4) Reshma G 5) Sabareesh Krishnan 6) Shaniba 7) SinanFathimath	S8	7	
		1) AnjanaMeghnath	S6		

		2) Manjusha			
		1) Aneesh K. 2) Preethika 3) Vijayasree	S4	3	

### **Placements**

<b>Sl. No.</b>	<b>Name of the Student</b>	<b>Company</b>
1	Nishma Parvin	IBM
2	Chitra	IBM
3	Gayathri	IBM
4	Sruthi S.	IBS
5	Jishma C.G.	Poornam InfoTech, Kakkanad
6	KavithaS.Krishnan	Poornam InfoTech, Kakkanad

### **B-Tech in IT -Rank Holders (2013 Passed out Batch)**

<b>S.No.</b>	<b>Name of the Student</b>	<b>Rank</b>	<b>CGPA</b>
1	Bindhya V.P	2	8.53
2	Anisha N.K.	5	8.3
3	Alice C.A.	9	8.17
4	Divya S	13	7.94
5	RenilRaphy P.	16	7.91

### **Scholar Support Programs**

GATE coaching was given to S7 students(47) and the following students were qualified in GATE-2015

<b>Sl. No.</b>	<b>Name of the Student</b>
1	Sivakumar P
2	Raveena P V
3	Jidhesh R

4	Anoop Joy
5	Nishma Parvin
6	Gayathri P
7	Ranjana V
8	Nithin P
9	Reshma G
10	Fahima M S
11	Anju T V

### **Achievements in Extra-Curricular Programs**

<b>Sl. No.</b>	<b>Name of the Student</b>	<b>Semester</b>	<b>Program / Organizers</b>	<b>Competition</b>	<b>Prizes</b>
1	Jaidev	S6	Prime Engg. College	ROBOZEST	2
2	Jaidev	S6	IIT Delhi	SPORTECH 2015	3 <sup>rd</sup> Level
3	SurajRajakrishnan	S4	IEEE	QUIZ	2
4	Ajith M	S4			
5	Sooraj K.	S6	NSS	-	Anti-Narcotic Campaign Award
6	FebinFathima	S6	Calicut University A-Zone Arts Fest, Palakkad	English Story writing	1
7	Veena M	S6		Hindi Drama	3
8	SurajRajakrishnan	S4		Hindi Drama	2
9	Aswathy R	S1&2		Sanskrit Essay writing	2
10	Sivaprasad	S1&2		Sanskrit Elocution	3



The students have also won several prizes in the different competitions conducted as part of the following events organized in the College:

- Arts Festival
- Sports Day
- Women's Day
- Association -Tech Day
- Short Film Festival

### **Other Activities**

<b>Sl. No.</b>	<b>Faculty/ Students</b>	<b>Activities</b>
1	Faculty	Setting up of <b>Digital Library</b> in the College.
		<b>Language Lab</b> Installation in the College
		Uploaded the <b>eSAR</b> for NBA accreditation
		Availability of <b>NPTEL</b> courses of CS and IT subjects in the department
2	Students	<b>IEEE Activities</b>
		<b>NSS Activities</b> <ul style="list-style-type: none"> <li>• Yuvajyothi State Camp</li> <li>• 7 day Special Camp</li> <li>• Blood Donation Camp</li> <li>• Palliative Care State Camp</li> <li>• Campus Leaders Camp</li> </ul>

## 2.4 DEPARTMENT OF MECHANICAL ENGINEERING

### Faculty and Staff Development Programs: In-house

SI No.	Course Title	Course Duration (Coordinator)	Course Objective	Funding agency
1	Interpersonal relationship and Emotional Intelligence	15-19 Dec'14 (Selvakumar)	To motivate the faculties and staff members in the workplace	TEQIP II
2	Recent trends in automobile Engg	14-17, Jan'15 (Leeju C J)	To bring out the latest trends in automobile Engg.	TEQIP II

### Training Courses attended

SI No.	Course Title	Course Duration /Place	Faculty/Staff attended	Funding agency
1	Basics of AutoCAD (2D & 3D)	June, 2014, at Keltron Palakkad	Rajan T/ Leeju C J	TEQIP II
2		June 2014, IIM Kozhikkode	A. Selvakumar	TEQIP II
3	Skill development in workshop and laboratory	Jan, 2015 at NITTTR Goa	Jayakrishnan and Jayasankar	TEQIP II
4	Improving teaching and interpersonal skills	Feb., 2015	Shailesh, Sudheer and Rishikesh	TEQIP II
5	Leadership empowerment program	Mar.2015 by DTE	A.Selvakumar	DTE

### Paper communicated for publication in International Journal

SI No.	Faculty name	Paper/Conference Title	Journal	Remarks
--------	--------------	------------------------	---------	---------

1	Selvakumar.A	Studies on wear characteristics of mineral cast structures	Material research	First review completed
---	--------------	--	-------------------	------------------------

Paper presented in international/national Conferences

SI No.	Faculty name	Conference Title	Conference date /Place	Type of presentation	Organisers	Paper Title	Funding Agency
1	Selvakumar.A	International Conference on Materials and Processing 2014	June 9-13, 2014, Michigan University, Detroit, USA	Oral	ASME/JSME	Studies on The Characteristics of Epoxy Granite With Varying Resin Content	TEQIP-II
2	Naveen M P Dheeraj R	National conference on Innovative Engineering (NCIE)	March 19, 2015	Oral	Holy Grace Academy of Engineering, Mala, Thrissur	Performance analysis of turbulence models of supersonic jets through a convergent divergent nozzle.	TEQIP-II

Visiting faculty programme

SI No.	Programme Title	Name of the Expert	Date	Course Objective	Funding agency
1	Latest trends in Mechanical Engg.	Dr. R Kalyanakrishnan, IIT Madras	Aug.2014	To bring out the latest trends to third semester mechanical engineering students	TEQIP II
2	Robotics in under water mining	Dr.T. Asok, IIT Madras	Sep.2014	To impart latest technology to third semester students	TEQIP II
3	Autonomous underground vehicles	Dr. T.Asok, IIT Madras	Jan 2015	To impart latest technology to sixth semester students	Govt. fund

### Purchase activities

SI No.	Lab		Remarks	Funding agency/scheme
1	Machine shop	Machines purchased and installed	PWD wiring is to be done	Govt.
2	Thermal Lab	Lowest bidder selected	Waiting for the supply of items	Govt.
3	CAD Lab	Systems and CATIA software purchased	Installation work in progress with PWD wiring	Govt/TEQIP
		3D Printer	Installed in CAD Lab and a demonstration on the system was carried out for students	NMEICT
4		NASTRAN	For students to learn and do research using FEM	NMEICT

### Student projects

SI No.	Faculty name	Project Title	Funding Agency	Remarks
1	Selvakumar. A	Studies on characteristics of Porous machine tool structures	CERD	Students from third semester



Expert talk by Dr.T.Asokan



A session handled by Prof. T. Poulse

### **3 CENTRE FOR ENGINEERING RESEARCH & DEVELOPMENT (CERD): ACTIVITIES**

#### **(Coordinator: Dr P.C Reghu Raj)**

The Center provides facilities for students and faculty for realizing their innovative ideas by way of funding, liasoning with CERD headquarters, hands-on workshops, equipments, etc. During 2014-15, three student projects were submitted to CERD headquarters for review, from which two were selected for funding by CERD (One each from CSE and ME departments, for Rs. 50000 each). Both projects are nearing completion. Two projects were provided equipments/partial funding. The college website was redesigned by conducting a competition among students, financed by CERD. A project to set up a Center of Excellence in Advanced Computing is in the final stages of implementation under CERD (Coordinator: Mr C. Naseer, AP CSE, Est. Rs. 20 lakhs). The main objective of the project is to provide the state of the art computational framework for all faculty and students, by meeting specific departmental computing requirements over the campus network. Thus, software such as IBM Rational Rose (for CSE

& IT), ANSYS HFSS, MentorGraphics (ECE) and NASTRAN (ME) have been procured and installed. This is in addition to the Innovation Center Project completed under CERD which provides Xilinx, embedded system boards, etc. (Coordinator: Dr PC Reghu Raj, Est: Rs. 10 lakhs).

Major events supported:

1. Redesign of the College Website through a competition among the students
2. Two student projects, one each from CSE and ME are actively pursued, and are nearing completion.
3. Two more projects were supported by providing components. Both have potential to become marketable technologies. One has already applied for patent.
4. Supported the participation of students and faculty in the CERD Conference NATCON 2014 held at GEC Wayanad and the associated project competition. One of our final year student projects "Solar Simulator" got appreciation from IEEE Standards Society and was awarded an assistance of \$500 for continuing their project. This project has been awarded 2nd prize in the national level project competition held at GEC Wayanad during February 2014.
5. A hands-on workshop on Embedded systems, IOT and Concurrent Programming was held during 15-17 Dec 2014 for the benefit of MTech and Final yr CSE students. The faculty was Mr Jayakrishnan Divakaran, Technical Consultant, Kinnovates Bangalore.
6. There was considerable increase in the number of research publications by the faculty and students. A total of 42 papers

(including the communicated ones) consisting of 9 International Journal papers, 1 National Journal paper, 22 International conference papers and 10 National Conference papers were published during the period. There were 4 IEEE papers and one best paper award among these. Two faculty members presented papers in International conferences abroad with TEQIP funding.

#### **4 Research Publications:**

##### **I. Refereed International Journals (9 Nos)**

1. Indhuja K, Indhu M, Sreejith C and P.C. Reghu Raj. Text-Based Language Identification System for Indian Languages Following Devanagiri Script. Int. Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 4, April-2014.
2. Sreejith C, Sruthimol M P, and P C Reghuraj. Box Item Generation from News Articles Based Paragraph Ranking using Vector Space Model, Int.Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS), Volume 3, Issue 2, March 2014, ISSN 2319 - 1953.
3. Divya S, Reghuraj P C. Eigenvector Based Approach for Sentence Ranking in News Summarization. IJCLNLP, April-2014.
4. Pragisha K and P C Reghu Raj. A Natural Language Question Answering System in Malayalam Using Domain Dependent Document Collection as Repository. IJCLNLP, April-2014.
5. Gopalakrishnan G, Raseek C and P.C. Reghu Raj. LegalOnto: An Ontology based Information Retrieval system populated autonomously from Indian law journals. Communicated to the Int. Journal of Artificial Intelligence and Law (Springer)-July 2014.

6. KC. Sindhu Thampatty and P.C. Reghu Raj, Adaptive RTRL Based Hybrid controller for Series Connected FACTS Devices for Damping Power System Oscillations. Communicated to Int. Journal of Electric Power Systems Research (June 2014)
7. Nibeesh Kodembattle and PC Reghu Raj.. Ontology Generation from Unstructured Text using Machine Learning. Communicated to. IJISA1.
8. Sonu Varghese. K, Faisal K.K and Vinayachandran.K.K “Image security Using AES and f5 Algorithm. Institute of Research and Journal, IRAJ Research Forum(IRF), April 13,2014.
9. Krishnaprasad. P, Vibin PV and Vinayanchandran K.K ‘Performance Evaluation of TCP over wireless Sensor Networks using NS-3. IRAJ Research Forum(IRF), April 13, 2014.

## **II. Refereed National Journals (1 No)**

1. Nibeesh K, Indhuja K, and P.C. Reghu Raj. Text Based Language Identification using SVM. National Journal Carmelite, Volume 11(1) JULY 2014, published by Carmel College, Bangalore.

## **III. International Conferences (13 Nos)**

1. Ancy Antony and P.C. Reghu Raj. Pronominal Anaphora Resolution in English using a Statistical Approach. In Proc. Int. Conf. ICIS 2014, 4-5 July 2014, College of Engineering, Cherthala.
2. Sruthimol and P.C. Reghu Raj. Automatic Text Summarization Based on Eigen Analysis. In Proc. Int. Conf. ICIS-2014, 4-5 July 2014, College of Engineering, Cherthala.
3. Prajitha Urath and P.C. Reghu Raj. Domain Specific Information Extraction: A Statistical Approach. In Proc.Int. Conf. ICIS 2014, 4-5 July 2014, College of Engineering, Cherthala.



4. Bindu P. Palakkal. Parity Aided Detection of SM - MIMO Systems. In Proc. International conference (IEEE TENCON 2014) at Bangkok, Thailand during 22-25 Oct 2014.
5. KC. Sindhu Thampatty and PC Reghu Raj. Adaptive RTRL Based Hybrid controller for series connected FACTS Devices to damp power system oscillations. Accepted for Poster presentation, ACDC 2015 (UK).
6. Sreetha S, Raveena R Kumar, Anagha M, and PC Reghu Raj. Fuzzy Logic Based Hybrid Approach for Sentiment Analysis of Malayalam Movie Reviews. Accepted for presentation in the IEEE SPICES 2015 to be held during 19-21 February 2015 at National Institute of Technology Calicut.
7. Alen Jacob, Amal Babu, and PC Reghu Raj. TnT Tagger with Fuzzy Rule Based Learning. Accepted for presentation in the IEEE SPICES 2015 to be held during 19-21 February 2015 at National Institute of Technology Calicut,
8. Sreerekha TV, Vidya PV, Kavitha Raju, Rajeev RR, and PC Reghu Raj. Tamil to Malayalam Transliteration. Accepted for presentation (poster) in the IEEE SPICES 2015 to be held during 19-21 February 2015 at National Institute of Technology Calicut.
9. Sreetha S, Raveena R Kumar, Anagha M, and PC Reghu Raj. Fuzzy Logic Based Hybrid Approach for Sentiment Analysis of Malayalam Movie Reviews. IEEE SPICES 2015, 19-21 February 2015 at National Institute of Technology Calicut.
10. Alen Jacob, Amal Babu, and PC Reghu Raj. TnT Tagger with Fuzzy Rule Based Learning. IEEE SPICES 2015, 19-21 February 2015 at National Institute of Technology (NIT Calicut).

11. Sreerekha TV, Vidya PV, Kavitha Raju, Rajeev RR, and PC Reghu Raj. Tamil to Malayalam Transliteration. IEEE SPICES 2015, accepted for poster presentation, 19-21 February 2015 at National Institute of Technology (NIT) Calicut.
12. Abhay Mohan M.V, Jishnu Pavithran, K Lijo Osten, Jinumon A and C. P. Mrinalini. Simulation of Spectral Match and Spatial Non-Uniformity for LED solar simulator. 2014 IEEE Global Humanitarian Technology Conference-South Asia Satellite (GHTC-SAS), 26-27 September 2014.
13. Selvakumar A. Studies on The Characteristics of Epoxy Granite With Varying Resin Content. In Proc. of the International Conference on Materials and Processing 2014, June 9-13, 2014, Michigan University, Detroit, USA (sponsored by TEQIP-II)

#### **IV. National Conferences (12 Nos)**

1. Naveen M P and Dheeraj R. Performance analysis of turbulence models of supersonic jets through a convergent divergent nozzle. In Proc. of the National conference on Innovative Engineering (NCIE), March 19, 2015, Holy Grace Academy of Engineering, Mala, Thrissur
2. Amal Babu, Manu.V.Nair, Sarath K S, Naseer C. TnT-CRF based Approach for POS Tagging". In Proc. National Conference on Advances in Engineering Techniques (NCAIET 2K15), at Sri Vellappally Natesan College of Engineering, Feb 20, 2015 **(also won the Best Paper Award)**
3. Sruthi Sankar K P, Rajitha K, Naseer C. Classifying News Articles' Headline Using Machine Learning Approach. In Proc. National Conference on Advances in Engineering Techniques

- (NCAIET 2K15), at Sri Vellappally Natesan College of Engineering, Feb 20, 2015.
4. Sreerekha T V, Vidya P V, Dr. P C Reghuraj. Semantic Role Labeling Using Machine Learning Approach. In Proc. National Conference on Advances in Engineering Techniques (NCAIET 2K15), at Sri Vellappally Natesan College of Engineering, Feb 20, 2015.
  5. Rekha Raj C.T. Sruthi Sankar K.P., and Raseek C. A Simple Approach for Monolingual Event Tracking System in Malayalam. In Proc. of the Nat. Conf. on Computational Linguistics and Information Retrieval (NC CLAIR-2014), GEC Sreekrishnapuram, 29-31 Dec 2014.
  6. Amal Babu, Alen Jacob, and C. Naseer. CRF-based Unknown Word Tag Prediction for Malayalam. In Proc. of the Nat. Conf. on Computational Linguistics and Information Retrieval (NC CLAIR-2014), GEC Sreekrishnapuram, 29-31 Dec 2014.
  7. Nisha M, Reji Rahmath K, and P. C. Reghu Raj. A Machine Learning Approach for Malayalam Root Word Identification. In Proc. of the Nat. Conf. on Computational Linguistics and Information Retrieval (NC CLAIR-2014), GEC Sreekrishnapuram, 29-31 Dec 2014.
  8. Manu. V.Nair, Sarath K.S. and P.C. Reghu Raj. Malayalam Dialect Resolution using CRF. In Proc. of the Nat. Conf. on Computational Linguistics and Information Retrieval (NC CLAIR-2014), GEC Sreekrishnapuram, 29-31 Dec 2014.
  9. Alen Jacob, Amal Babu, and P. C. Reghu Raj. Fuzzy Rule based POS Tagging of Unknown Words. Presented in the National Conference on Recent Advances In Engineering and Technology

- (nCoreTech 2015), 20-21 Jan 2015, LBS Engineering College Kasargod.
10. Rajitha. K, Sruthi Sankar K P, and P C Reghu Raj. Word Sense Disambiguation in Malayalam Using Memory Based Approach. Presented in the National Conference on Recent Advances In Engineering and Technology (nCoreTech 2015), 20-21 Jan 2015, LBS Engineering College Kasargod.
  11. Anagha M, Raveena R Kumar, Sreetha K, and P C Reghu Raj. Statistical Approach for Automatic Domain Based Partitioning of News Articles in Malayalam. Presented in the National Conference on Recent Advances In Engineering and Technology (nCoreTech 2015), 20-21 Jan 2015, LBS Engineering College Kasargod.
  12. Asha Prasad. Communication Aid for Verbally Handicapped. In Proc. National conference at NSSCE, Palakkad. 28-29<sup>h</sup> June 2014.
- 

## **5 IEEE Student Branch Activities**

New EXECOM for the year 2014-2015 was elected on February 6, 2014:

- Chairman - John Mathew S6 ECE
- Vice Chairperson - Shyama M S6 ECE
- Secretary - Vinay Vinod Marar S6 CSE
- Treasurer - Neeraj K R S6 CSE
- WIE Chairperson - Kavitha S6 CSE
- WIE Vice Chairperson - Deepa S6 ECE
- WIE Secretary - Hafnan S6 CSE

- PRO - Shyam M S4 EC
- Link Rep - Abhijith S6 ECE

### **LATEX WORKSHOP(24/02/2014)**

A one day workshop on LATEX was conducted on 24/02/2014. The basic topics was handled by Computer Science and Engineering HoD, Dr. P C Reghu Raj and advanced topics were introduced by Dr Ajeesh Ramanujan, Asst. Professor, Computer Science and Engineering. The workshop was very informative, and the participants learned the basics of LATEX document preparation. Students were provided with tutorials, both soft copy and hard copy. The response was overwhelming, that registration link was closed within an hour.

### **Women's Day celebration (10/03/2014)**

The IEEE Student Branch GEC Sreekrishnapuram celebrated the Women's day on 10<sup>th</sup> March. The program was a success owing to the support of the students of the college. The quiz, presentation and the documentary presentation were received well.

After the inauguration by Mrs. Rani, Assistant Professor, Electronics and Communication Engineering, Women's Day quiz in which over a dozen teams coming for the prelims. The winners were:

- First Prize: Merlin, Sabikha S4,IT
- Second Prize: Anupama, Aparna Sivaprasad, S4 CSE
- Third Prize: Aswathy, Jyothi S6 CSE

Presentation on 5 famous women personalities was another attraction of the program. Documentaries on Women's Day Awareness were shown to give proper orientation to girls of the college. Two open competitions for entire students of the college was organized and both of them received wide response.

### **PCB DESIGNING AND FABRICATION WORKSHOP(23/03/2014)**

IEEE SB conducted a one-day workshop on march 23rd 2013 about PCB designing and fabrication The workshop included sessions like Software familiarization, PCB mask developing processes, etching training and Drilling & assembling. About 30 students from Electronics and Communication participated.

### **IEEE SENIORS FAREWELL ( 07/07/2014)**

IEEE SB conducted a sent off for passing out seniors on 7 July. A total number of 10 seniors and 40 IEEE members participated. Certificates was presented to members by IEEE SB counselor Smt. Asha Prasad. Special Awards were presented to students for Academic excellence. Awards were presented to Jishnu Pavitran, Sooshnivethy S S and Abhay Mohan.

### **WORKSHOP ON MODERN TRENDS IN ROBOTICS AND AUTOMATION (06/08/2014)**

IEEE SB conducted a one day workshop on modern trends in robotics and automation. The workshop was conducted by Dr. Prahlad Vadakkepatt., Professor, NUS Singapore. A total number of 50 students were participated. The workshop gave a new insight to the modern techniques in robotics. Students were very excited by the class and they got lot information as a beginner level.

### **IEEE DAY CELEBRATION (07/10/2014)**

IEEE SB conducted IEEE day celebration on 7 Oct 2014. The conducted programs are:

- Interactive speech by Principal Dr. S.Radhakrishnan

- General quiz for college students
- Treasure hunt for college students

Principal Dr. S. Radhakrishnan gave a half hour motivational speech for students. He spoke about the role of IEEE ,the responsibility of students to society, etc. A general quiz was conducted for college students and prize were distributed for winners.

**INSPIRE: INDUSTRY AWARENESS PROGRAM FOR ENGINEERING STUDENTS(10/10/2014)**

The program was conducted on 10/10/2014.The program was organized by industry relations, IEEE Malabar Subsection and IEEE R10 Professional Activities Committee in association with TechnologyBusiness Incubator-NIT Calicut. The aim of the program is to enhance the industry awareness of engineering students across the engineering colleges in Malabar region.

The speakers at this event were:

- 1) Mr.Lepeesh Parat -Founder and CEO,ZestyBeanz Technologies (2005 Alumnus, GEC Palakkad)
- 2) Mr. Vijesh P-Hardware Engineer, Intel
- 3) Mrs. M. Preethi- Manager,Technology Business Incubator, NIT Calicut
- 4) Mr,Vinod, Faculty Member, CREST

The officials participated in the program are::

- 1)Dr. P.C. Reghu Raj, Principal in charge, Govt. Engineering College, Palakkad
- 2)Mr.Anwar Hussain, HOD Electronics and Communication Engineering, Govt. Engineering College, Palakkad
- 3) Dr. Selvakumar-HOD Mechanical Engineering, Govt. Engineering College, Palakkad

4)Mrs.Dhanya- HOD Information and Technology Engineering, Govt. Engineering College, Palakkad

5)Mrs. Asha Prasad-IEEE counselor, Govt. Engineering College, Palakkad

External Participants were:

6) Mr. Sandeep Vattappara,Founder, Etiq Technologies

7)Mr.Shone Jose,Market Research Consultant, Leadcap Ventures

8)Mr.Fawad Rasheed HUB Student Representative, IEEE Malabar Subsection

About 75 students from different colleges,NSS Engineering College, Palakkad, MEA Engineering College, Perinthalmanna and Govt. Engineering College, Palakkad participated in the program.

### **IEEE PES QUIZ FOR HIGHER SECONDARY STUDENTS(17/10/2014)**

IEEE SB conducted PES quiz for plus two students at Sreekrishnapuram higher secondary school. A total number of 30 students participated and prizes were distributed for the winners.

### **6 FOSS CELL Activities (Coordinator: Vipin Vasu A.V., AP CSE)**

The new EXECOM took over the charge of the FOSS CELL on 3rd April, 2014. Four workshops were conducted during the tenure, under the scheme ASAP.

The opening program of the new EXECOM was a workshop on "Introduction to Robotics". The program was held on 31July, 2014 from 10am to 4pm in EDUSAT room. The resource person was Dr Prahlad Vadakkepat, Associate professor National University Of Singapore. The students were able gain knowledge on the degrees of freedom, Basic kinematic equations related to Robotics and humanoid robots.



The second program was a two-day workshop on Java programming, "Cup Of Java". The workshop was held during 23<sup>rd</sup> and 24<sup>th</sup> October, 2014 in Project Lab, CSE. Almost 30 students, mostly FOSS members attended the workshop. The workshop was conducted by Mr Razeer Marikar, Application Software Engineer at Akamai Technologies, Bangalore. He is also an alumnus of Govt Engineering College, Sreekrishnapuram.

The next was a three-day workshop on Robotics, "Robo Recipe" held during 7-9, Nov 2014 in Project Lab, CSE. The resource persons were Mr Anu Raj and Mr Aby Raj. Aby Raj is a Senior project officer at Women Scientist Division, Shasthra Bhavan, Pattam. Anu Raj is Asst. Professor, CSE, Govt Engineering College, Sreekrishnapuram. About 60 students from all departments attended the course.

The terminal program of the EXECOM was a workshop on "ELIXIR programming" by Mr Pramode C., an Independent Computer Software Professional and consultant on Free and Open Source Software based technologies. The class was held on 17<sup>th</sup> February, 2015 in Project Lab, CSE. About 30 students attended the class. From the workshop, the students could gain knowledge on Erlang VM and Elixir both of which are emerging programming techniques.

The charge of the FOSS CELL was handed over to the new EXECOM on 10 April, 2015. Athira Unni S6, CSE was elected as the new Chairperson of the Cell.

## **7 Placement Cell Activities (Coordinator: Leeju C.J., AP ME)**

### **Placement Training:**

- Placement Training program is conducted at GEC Sreekrishnapuram by Insight Job GURU as per the details given below. Total number of classes = 4 days x 3 batches = 12 days.

Training Program arranged simultaneously for three branches at a time:

1. Day 1 (23/08/2014, Saturday) -for ECE, CSE and IT
2. Day 2 (24/08/2014, Sunday) -for ECE, CSE and IT
3. Day 3 (29/08/2014, Friday) -for ECE, CSE and IT
4. Day 4 (30/08/2014, Saturday) -for ECE, CSE and IT

### **Employability Test**

- Placement Cell is conducted an Online Employability test (NAC-Tech.3) on 20.09.2014(Saturday) for the final year B.Tech Students of all the departments in connection with the Centralized Placement Process under TEQIP-II. Sixty students scored more than the benchmark score of 50.

### **Placement drives**

- M/s NeST Softwares, campus recruitment drive conducted at NSS Engineering College Palakkad on 24 Sep 2014. 15 students (8 students in ECE and 7 students in CSE) got placed.
- M/s Pathpartner placement process conducted at GEC Thrissur on 01.11.2014. Nobody selected in the placement drive.
- M/s GBS Campus recruitment drive for IBM conducted at Rajagiri School of Engineering and Technology, Ernakulam on 11 Dec 2014. 12 students (4 students from M-Tech and 8 students from B-Tech) got selected/short listed.
- M/s Poornam Infovision conducted campus recruitment drive for the B.Tech - CS, IT, and Electronics branches - 2015 pass out batch, on 19th and 20th March 2015 at Jawaharlal College of Engg. & Technology, Lakkidi, Managalam, Ottapalam, Palakkad. 2 students from IT got selected.
- M/s IBS Software Services Campus Recruitment- 2015 Batch conducted on 8th January 2015 at NSS Engineering College. 3 students (2 students from ECE and one from CSE) got selected.
- M/s Vee Technologies conducted Campus Recruitment at Ammini College of engineering Palakkad on 22 January 2015. 7

students (6 students from IT and 1 from CSE) got selected/short listed.

- M/s Sutherland Global Services is conducted a pooled campus drive at Ammini College of Engineering for 2015 pass out students on April 7<sup>th</sup>. Nobody selected in the placement drive.

<b>CGPU, Placement Report (2014-2015)</b>					
<b>SL NO</b>	<b>NAME</b>	<b>BRANCH</b>	<b>Degree</b>	<b>COMPANY</b>	
1	Neethu A Ramadas	ECE	B.Tech	IBM	
2	Reshma Mohan	ECE	B.Tech		
3	Chithra P	IT	B.Tech		
4	Jisna Joseph.K	CSE	B.Tech		
5	Nishma Parvin A	IT	B.Tech		
6	Amritha A K	ECE	B.Tech		
7	Juby M Joy	CSE	B.Tech	Sporting Portal, Chennai	
8	Sibila M	ECE	B.Tech		
9	Kavitha Raju	Computational Linguistics	M.Tech		
10	Rekha Raj CT	Computational Linguistics	M.Tech		
11	Sreerekha T.V.	Computational Linguistics	M.Tech		
12	Vidya P.V.	Computational Linguistics	M.Tech		
13	Alen Jacob	Computational Linguistics	M.Tech		
14	Ashna.Y	ECE	B.Tech		QuEST Global
15	Assainar Hafnan P P	CSE	B.Tech		
16	Aswathy C	CSE	B.Tech		
17	John Mathew	ECE	B.Tech		
18	Kiran I K	CSE	B.Tech		
19	Kishore.G.Nair	CSE	B.Tech		
20	Kritty Varghese	ECE	B.Tech		
21	Mohammed Anees P S	ECE	B.Tech		

22	Mohammed Dilshad P.T	CSE	B.Tech	
23	Saleela C H	ECE	B.Tech	
24	Santhikrishna.O	ECE	B.Tech	
25	Shahana.P.P	ECE	B.Tech	
26	Shalini M	CSE	B.Tech	
27	Sruthy K	ECE	B.Tech	
28	Vidya P	CSE	B.Tech	
29	Kavitha Krishnan	IT	B.Tech	Poornam
30	Jishma C J	IT	B.Tech	infovision
31	Harishma.K	ECE	B.Tech	IBS
32	Chris John	ECE	B.Tech	
33	Sruthy C	CSE	B.Tech	
34	P GAYATHRI	IT	B.Tech	VEE
35	RESHMA A	IT	B.Tech	Technologies
36	ANEESH M	IT	B.Tech	
37	PANJAMI RAJ B	IT	B.Tech	
38	NEETHU CM	IT	B.Tech	
39	ATHIRA K	CSE	B.Tech	
40	HARISH B	IT	B.Tech	
41	Lekshmi T	Computational Linguistics	M.Tech	IBM Bangalore
42	Neethu Johnson	Computational Linguistics	M.Tech	Cognicor, Kochi, IBM Bangalore
43	Alen Jacob	Computational Linguistics	M.Tech	Sporting Portal, Chennai

### **8 Industry Institute Interaction Cell Activities (Coordinator: V. Madhu, AP EEE)**

- As part of industrial collaboration the III cell coordinator, TBI coordinator became life members of Palghat Management Association (PMA). Incorporated in 1984 under Societies Registration Act of 1860, PMA is one of the 68 Local Management Association in India affiliated to All India Management Association, the apex body of professional

managers in the country. PMA possess Industrial experts especially from Kanjikode industrial belt and hence we are planning to explore industrial mapping with the same in the near future.

- We have carried out consultancy work for MES Kalladi College, Mannarkkad regarding certification of purchased computers and civil related works for Veterinary Farm at Thiruvizhamkunnu.
- The students of the college are doing projects in various industries. Two projects on Solar grid feeding and Induction lamp were carried in IRTC, Mundur by final year ECE students. Shared technical expertise with IRTC, Mundoor in connection with design and Implementation of LED lamp and solar grid feeding. Similarly MTech (CSE) students carried out their thesis on National Language Processing at CDAC, Thiruvananthapuram and E & Y, Thiruvananthapuram. Also some MTech (CSE) students are doing thesis work in Social Networking Analysis in CAIR which is a DRDO undertaking.
- Similarly, Industrial Training /visits were conducted for S7ECE in NAL, Bangalore, S4ME in HAL, Bangalore, S7IT in Keltron, Kozhikode as well as in ACE Component, Mysore and S3IT students in M- Power, Bangalore as well as in Keltron Kozhikode.
- Other programs coming under III Cell activities during 2014-15 are as follows:

Sl No.	Name of the program	Industry/Institution Name	From	To	Semes ter/Cla ss	No. of student particip

						ants
1	NASSCOM Employability test	NASSCO M	FN of 20-09- 2014	AN of 20-09- 2014	ECE/I T/CSE	155
2	Expert Talk on topic“Robotics and its applications	IIT Madras	FN of 22-09- 2014	AN of 22-09- 2014	S4 ME	68
3	Students Training program titled “Inspire for Industrial Awareness to Engineering Student”	TBI- NIT Calicut	FN of 10/10/20 14	AN of 10/10/20 14	All semest ers	60
4	Expert talk on Cyber Security & Forensics	CUSAT	FN of 27/11/20 14	AN of 27/11/20 14	S4IT/S 6IT	70
5	Students Training Program on topic Arduino & Raspberry PI	Amrita Viswa Vidhyape etham, Coimbato re	FN of 13/03/20 15	AN of 13/03/20 15	S6IT	66

## **9 Visiting Faculty Programs**

---

The Visiting Faculty Program at Govt. Engineering College, Sreekrishnapuram during 2014-15 started on 2-5-2012. Fifteen

invited talks were held for different semesters with the faculty from reputed academic institutions and industry. The programs were received well by the students in general. Moreover, the faculty members had fruitful interactions with the invited speakers. The programs were organized by all the departments. These are in addition to the invited lectures conducted as part of TEQIP-II FDP activities.

The following list gives the details:

1. Mr. Vijay Krishna Menon, Asst. Professor, CEN, Amrita Viswavidyapeetham delivered a lecture-cum-demonstration on **Big Data Analytics with Hadoop and Scala** for S8 CSE and MTech CSE students during 12-13 Mar 2015.
2. Mr. Satish Babu, Director (IC-FOSS), Technopark, Trivandrum delivered an invited lecture on **FOSS Philosophy and IOT** to CSE and IT students on 3 Feb 2015.
3. Dr T Asokan, Professor, Department of Engineering Design, IIT Madras gave a lecture on **Automation** for the benefit of the faculty and S6 students of Mechanical Engineering on 16 Jan 2015.
4. Mr. Samaj George, Technical Head, EY Trivandrum gave a lecture on **Introduction to Big Data Analytics** to M. Tech CSE and S8 CSE students on 29 Dec 2014.
5. Dr M.S. Rajasree. Director, IIITM-K, Trivandrum delivered a lecture on **Research Perspectives in Computing** to M. Tech CSE and S8 CSE students on 30 Dec 2014.
6. Dr KA Abdul Nazeer, HoD CSE, NIT Calicut delivered a lecture on **Introduction to Bio-Informatics: Clustering Algorithms** to M. Tech CSE and S8 CSE students on 31 Dec 2014.

7. Dr Mohammed Shahid Abdulla, Asst. Professor (Information Systems area, IIM Kozhikode) delivered a lecture on **Reinforcement learning** to MTech CSE and S8 CSE students on 30 Dec 2014.
8. Dr D Govind, Asst. Professor, Amrita Viswavidyapeetham, Coimbatore delivered a lecture on **Speech Processing: Speaker Identification** to M. Tech CSE and S8 CSE students on 29 Dec 2014.
9. Mr. Jayakrishnan Divakaran, Technical Consultant, Kinnovates, Bangalore gave a hands-on introduction to **Embedded Systems Programming and Concurrent Programming** to CSE students on 17 Dec 2014.
10. Mr. John Kurian, Sr. Development Manager in IBM India Software Labs, Bangalore delivered a lecture on **Websphere platform** on 7th Nov 2014 in CSE Dept for the benefit of M. Tech and Final year CSE students.
11. Dr. T. Asok, Professor, IIT Madras took a class on **Autonomous underground vehicles** for III Yr Mechanical Engineering students in Jan 2015.
12. Dr R. Kalyanakrishnan, Professor (Rtd), IIT Madras delivered an inspirational lecture on **System Design** for the benefit of the Third year CSE students on 16th Sep 2014.
13. Dr R. Kalyanakrishnan, Professor (Rtd), IIT Madras delivered a thought provoking lecture on **Indian Language Computing** for the benefit of M.Tech CSE students on 16th Sep 2014.
14. Dr R. Kalyanakrishnan, Professor (Rtd), IIT Madras delivered an informative lecture on **System Design for Mechanical Engineers** for the benefit of second year ME students on 16th Sep 2014.



15. Dr P.P. Deepthi, Assoc. Professor (ECE ), NIT Calicut delivered an invited lecture on **Essential Information Theory for Language Processing** for the benefit of M. Tech students, Dept. of CSE on 2 May 2014.

### **10 National Service Scheme (Technical Cell): Unit Level**

#### **Activities (Coordinator: N. Ali Akbar, AP CSE)**

NSS Technical Cell (Unit Number: 185) , under the leadership of Sri. Ali Akbar N, Program Officer conducted several activities during 2014-15 as detailed below:

Sl. No	Particulars	SC		ST		OBC		General / Others	
		M	F	M	F	M	F	M	F
1.	No of Volunteers Enrolled in 1 <sup>st</sup> Year	4	3	0	1	20	11	15	6
2.	No of Volunteers Continued in NSS in 2 <sup>nd</sup> Year	3	1	0	1	11	10	18	16
<b>Total</b>		7	4	0	2	31	21	33	22

#### **1. Details of Adopted Village**

- Activities Conducted

Vrikshamithra (Tree plantation), Water resource cleaning, General cleaning, Helen Keller Memorial Blind School Cleaning (Teacher's day), Independence day celebration at YatheemGhana, Blind school and A.U.P school Mannampetta. Blood donation camp, Cancer day awareness rally, Women's day

celebration at Kerala Khadigrama Cooperative Board and Khadivipananakendra - Sreekrishnapuram, Home Energy auditing

## **2. Details of Saplings Planted**

- 500 Saplings were planted.
- 83 volunteers participated in planting saplings.
- 372 saplings survived.

## **3. Details of Volunteers Participated in National Integration Camps (if any)**

Name	Gender	Enrollment Number	Venue
Athira P.A	Female	KL-11-185-2012-34	Ludhiyana, Panjab

## **4. Details of Volunteers Participated in State Level/Inter University Camps (if any)**

Eight volunteers participated in various events held at Jaibharath College, Eranakulam, NSS Poly technic, Pandalam (Palliative care), Nehru College, Thiruvilwamala (Volunteer secretary meet), SCET, Thiruvananthapuram, YIT, Kollam (NACT), SNGIST,N.Paravoor(Annual meet), Nehru College, Thiruvilwamala (NACT), ASAP Thrissur, JCET Lakkidi Volunteer secretary workshop), SCET, Triruvananthapuram (Organ Donation), and GEC Sreekrishnapuram (Oorjjakendra)

## **5. Details of Volunteers Participated in District Level Programs**

Twelve volunteers participated in the District Level Programs conducted at Aryanet Institute of Technology, Palakkad.

## 6. Details of Regular Activities

Date	Program	Details	Participants
23-26 Jan 2014		Conducted a state (north) zone camp on the topic 'Oorjja Kendra Home Energy Auditors Workshop from 23-26 January 2014.	80
4-2- 2014		The NSS Unit of GEC Sreekrishnauram has conducted a rally for the World Cancer day The rally Started from the campus and ends in Mannampatta jn.	40
10-2- 2014		There was an awareness class for new NSS members give a genera awareness about NSS. The class was conducted by Sreenath and Athira.	70
		Oorjjakendr auditors workshop started in GEC Sreekrishnapuram. The	25

04-02-2014		<p>oorjjakendra unit of NSS GEC unit,comprising of 12 NSS Volunteers was officially inaugurated by HoD Electrical dept. Prof. Sayed Jahangir.</p> <p>There was a survey conducted in nearby houses of college to give a general awareness about water-born diseases and cleanliness. 45 NSS volunteers were divided into 8 groups and each group covered about 10 houses. The wells were chlorinated, and awareness about diseases like dengue was given to the people.</p>	80
15-08-2014		<p>Celebrated The Independence day on 15th August 2014. The volunteers visited the Yatheemghana, Kadambazhipuram and celebrated the</p>	25

		independence day with them by giving sweets to them. The volunteers visited The Helen Keller Blind School, Thottara and gave sweets to them and conducted some cultural programs. As a part of this volunteers visited A.U.P school Mannampatta and we participated in their activities. Some of the volunteers delivered speech about our Freedom struggle and the Freedom fighters	25
		The auditorium Surroundings of GEC PKD were cleaned by NSS volunteers.	8
07-04-14 to 08-04-14		The NSS Unit (Unit no:185) has celebrated Women's day along with Kerala Khadigrama Co-operative Board. NSS volunteers of our college	8

05-03-2014		<p>went to Khadivipananakhendra - Sreekrishnapuram</p> <p>A survey has been conducted at our college on by NSS TECHNICAL CELL UNIT NO 185 against drugs .</p>	8
14-06-2014	State camp	<p>The NSS TECHNICAL CELL UNIT NO 185 had cleaned up a near by pond which was being neglected. This pond was a public one and left unused because of dirt.</p>	20
7-4-2014		<p>World Environment Day has been celebrated by NSS TECHNICAL CELL UNIT NO 185 planting 250 tree saplings all over the GEC campus</p>	
5-6-2014		<p>Energy auditing has been conducted in about 15 houses in GEC locality on 14<sup>th</sup> June. It was one among the remarkable</p>	40

<p>Aug 2013 to May 2014</p>	<p>orjakendr a</p>	<p>programme of NSS TECHNICAL CELL UNIT NO 185. A remarkable programme was conducted by NSS TECHNICAL CELL UNIT NO 185 named TANAL. NSS has taken the burden of a brain tumor victim named MANIKANDAN for repaying a bank loan and has successfully completed the task. About 60000 Rs has to be refunded to close the loan with the help of Hon. High Court &amp; SBT Sreekrishnapuram. This was one among the major programs done by our unit.</p>	<p>30</p>
---	------------------------	--	-----------

**11 Technology Business Incubator (TBI) at GEC, Sreekrishnapuram: Status as on 31-3-2015 (Coordinator: C. Naseer, AP CSE)**

---

An amount of Rs. 5.5 Lakhs was sanctioned for the project on establishing a Technology Business Incubator (TBI) at GEC, Sreekrishnapuram during 2014-15. The work done so far regarding this project is detailed below:

1. Constituted a committee to monitor the implementation of the project, which consists of the following members:

(i) Dr.S. Radhakrishnan(Principal)

(ii) Dr. P.C Reghuraj (HoD,CSE)

(iii) Smt. Dhanya K.M(HoD, IT)

(iv) Sri. Anwar Hussain(HoD, ECE)

(v) Sri. V.Madhu (IIIC-Co-ordinator)

(vi) Sri. Leeju (CGPU Co-ordinator)

(vii) Sri. Naseer.C (TBI Co-ordinator)

2. The committee met on 17/06/2014 and decided to set up the TBI office in Room No. 317. The proposal to set up an office for TBI submitted by the Co-ordinator was discussed and the purchase of minimum furniture for TBI Office estimated at Rs.62700/- from M/s. SIDCO was approved. The committee also decided to seek an estimate for setting up cubicles for the firms in TBI from the PWD (Buildings Division), Shoranur.

3. Contacted the Manager, TBI, NIT, Calicut to know more details of setting up such a facility in our campus, and obtained some valuable inputs from her. (Smt.Preethi.M)



4. Contacted 5 alumni groups who have set up their own start ups at various locations and informed them about our TBI.
5. The furniture as per decision No.2 above was procured and placed in Room No.317.(Rs.62700/-)
6. Obtained the estimate from PWD worth Rs.3.96 Lakhs for setting up the cubicles to house five firms in the TBI (Room No.316). The construction of cubicles are now completed.(Rs.3.96 Lakhs)
7. Completed the electrical wiring for these cubicles.
8. The modalities of selecting the firms have been worked out.
9. A screening committee is also constituted to shortlist and approve the proposals from potential incubatees.

Total expenditure for purchasing furniture and to set up cubicles --  
Rs.4,58700/-

### **Work to be done**

1. Inorder to start the working of the TBI, a UPS of at least 5KVA is required. The balance amount in the allotted fund after purchasing furniture and construction of cubicles is not sufficient to purchase the UPS. So for the smooth running of TBI, an amount of Rs.3.5Lakhs Shall be granted to TBI during 2015-16.
2. It is essential to train the incubatees to successfully marketize thier products. To give good training to incubatees, financial assistance is essential. (Rs.1 Lakhs )
3. An Officer with an MBA qualification is to be posted to look after the TBI office, with an honorarium of Rs. 25000/-. (Total: Rs. 3.0 lakhs)

4. An amount of Rs. 50000/- is needed to meet the recurring expenditure and consumables for the TBI.

### **Plan of action**

1. The application form required to join the TBI has been prepared(sample copy attached). This will be uploaded in the College Website by May end this year.
2. Guidelines from NSTEDB may seek for further improvements of TBI.

### **12 GUIDANCE AND COUNSELING CELL (Coordinator: K.P. Sandhya, AP Economics)**

During the academic year the Guidance and Counseling Cell has organized three programs. When the first year classes commenced, the new comers found it difficult to cope up with the new environment. To overcome this Cell has arranged a two day session on “personality development and orientation class” to the first year students from 28/08/2014 to 29/08/2014. The expert to the session was Dr R Rajkumar, Psychologist, a film director and an actor

Some of the first year students were facing certain difficulties, whether personal or learning difficulties. This was clear from the first series exam result also. To reduce the difficulties faced by the students a one day session to the selected students ,25 students from each first year ,altogether 100 students were identified .A team of five ,Mr Gireesh P ,Mr Nandajan,Mr Unnikannan,Mrs Vijitha and Mrs Jayasree experts in different areas of difficulties visited college and were given motivational talk and provided individual counseling session to the needed students on 25/02/2015.

The senior students of the college also have their own problems. Many students who were meritorious at the beginning were not able to match their potential. Many of them have back papers .Some have serious problems which act as an obstacle to their studies. The Heads of different branches identified students who needed individual counseling. The counseling Cell had provided a three day individual counseling session under the expertise of Mr Uthaman, the Counseling Psychologist to the needy students of second, third and final year from 11/03/2015 to 13/03/2015 before students were going to their lab exams and study holidays. It is hoped that all these programs more or less helped the students to understand their potential and also gave an inspiration which would act as a positive energy not only in their studies but also in their future.

### **13 COLLEGE UNION ACTIVITIES (Staff Advisor: Safeer Babu, AP IT)**

The College Union Oath Taking Ceremony was held on 10<sup>th</sup> October, 2014. The ceremony was presided over by the Chief Electoral Officer Sri.V. Madhu, AP EEE.

The following students were elected as the Union Members:

Chairman	: Muhammad Muhsin
LVC	: Anusha J Krishna
General secretary	: Arun A S
Joint Secretary	: Rithupriya S R
UUC	: Nidheesh k
UUC	: Roshkumar P N
Secretary-Fine Arts	: Anand Sujay
General Captain	: Anandhu Saseendran
Chief Student Editor	: Harry Martin

Even though the union was formed quite late, this union was strict in assuring that all the programs scheduled were completed within the 6 months period.

### **Union Inauguration**

The college union inauguration was conducted on 13<sup>th</sup> October 2014, by M.B.Rajesh M.P with Prof. P.C. Reghu Raj presiding the meeting.

### **Arts Fest**

The college Arts fest-DAKSHA'14 was inaugurated by Sri. M.B.Rajesh M.P. on the same day of college union inauguration, 13<sup>th</sup> October 2014. The events were held from 13<sup>th</sup> to 16<sup>th</sup> October. For the first time in the history of the college, an A Zone model Arts Fest was done with active participation from all the students, whose talents were presented with the spirit of competition.

### **Association Inaugurations**

For the first time, the association inaugurations were done on different days with entirely different events. The inaugurations and other events were conducted for a full day for each association.

The ME Association-ARMS inauguration was held on 16<sup>th</sup> January 2015. The CSE&IT Association Inauguration- SPECTRA was held as a grand event on 3<sup>rd</sup> February, 2015. The event consisted of interesting games and competitions for the students. The ECE Association Inauguration was done on the name 'THARANG' on 10<sup>th</sup> February, 2015. The program was very innovative and consisted of many competitions for students.

### **Run Kerala Run**

In order to host and support National Games conducted in Kerala, the 'Run Kerala Run' event was done by the college union.

### **A-Zone Arts Festival**

The Sub-University Arts Fest of Palakkad District, A-Zone Arts Fest was held in IHRD College, Kottayi from 4<sup>th</sup> to 8<sup>th</sup> February 2015, which witnessed active participation from the selected talented students of our college, which offered a great competition for other colleges.

### **Sports Meet**

The sports meet of this year was the best of the all. The complete participation from students was ensured. GEC has never witnessed such a thrilling & exciting sports meet.

Athletics events were held on 11<sup>th</sup> February, 2015. The events were well-volunteered by the union and the students. The event was a great success and was enjoyed by everyone.

The games final were held on 17<sup>th</sup>&18<sup>th</sup> of March 2015. The preliminary events before the finals were held on earlier days.

### **Women's Day**

The women's day celebration was held on 9<sup>th</sup> march 2015. This was organized by the union to create awareness about women empowerment among everyone.

### **Short Film Fest**

The short film fest was done on 17<sup>th</sup> March, 2015 in order to encourage the artistically talented students of GEC and give a platform for the students interested in the film field. The event was a success and many good short films were presented.

### **College Day**

College Day-'15 was held on 31<sup>st</sup> March, 2015 as a grand 12-hour event with a DJ night. The inauguration ceremony was presided over by the Principal-in-charge Prof. P.C. Reghu Raj and was inaugurated by the renowned Film Music Director Afsal Yusuf. The event had many entertaining programs, including the grand DJ night.

### **Other Achievements**

The college union was keen in fighting for the rights of students and vigilant in solving their problems. The other achievements include the arrival of Digital Library, a TV in Ladies Hostel and an ATM in Mannampatta for the convenience of students.

### **14 Projects Completed/in Progress**

1. Technical Education Quality Improvement Program (TEQIP) Phase II (Coordinator: V. Showkathali, Assoc. Professor, ECE).

Under this program, a direct central assistance of Rs. 10 crores has been received. Various activities that help to improve the teaching learning process, employability of the graduates, infrastructure, faculty and staff development, R &D, Industry relations, etc have been designed and are being implemented since Feb 2013. The project has been extended till Oct 2016. The improvements have started showing up. Six BoG meetings, two mentoring visits, two performance audits, one statutory audit and 4 SRA visits have been completed so far.

2. Providing Computer Facility in the Ladies Hostel: A LAN consisting of a Server and 10 nodes with provision for broadband Internet Connectivity and backup power has been set up in the Ladies Hostel at a cost of Rs. 10 Lakhs. M/s Keltron was the implementation agency.
3. The office and workspace for prospective incubatees for the TBI have been setup. The network and electrical cabling have been completed and office furniture procured. (Total cost: Rs.4.587 lakhs)

4. A biogas plant is being set up for the Ladies Hostel at a cost of Rs. 1.25 lakhs). The implementation agency is M/s IRTC Mundur.
5. A Center of Excellence in Advanced Computing is being set up with assistance from CERD (Rs. 20.0 lakhs) and NMEICT Scheme. Computers and advanced software have been procured, and training programs are being conducted.
6. PRAGATI, the CERD Innovation Center has been established at a cost of Rs. 10.0 lakhs to assist the students in realizing their innovative ideas into products.

### **15 New Schemes Implemented**

The following new plan schemes have been implemented during 2014-15:

- Additional Skill Acquisition Program (ASAP)
- National Mission on Education through Information-Communication Technology (NME-ICT)
- Strengthening of Library
- Digital Library and Language Laboratory

## 16. Plan Progress

Government Engineering College, Sreekrishnapuram, Mannampatta (PO) - Palakkad  
Plan Review Report for March 2015

Head of Account	Budget Allocation	Reported Expenditure	Expenditure	Total Expenditure	Physical Achievements/ Remarks
		As on 28-02-2015	For the month	As on 31-03-2015	
17 MW	19,90,000	13,14,766	1,99,816	15,14,582	Cabling work of Lathe Workshop
19 M&E	54,40,816	31,86,751	22,540,65	54,40,816	Computers & Accessories
24 M&S	2,17,799	2,17,799		2,17,799	
34 OC	19,31,840	17,82,496	91162	18,73,658	Payment of furniture, Printer & AC Repair
Sub Total	95,80,455	65,01,812	25,45,043	90,46,855	94%
VFS					Salary of Adjunct Faculty & Industrial Interaction, Conduct of Visiting Faculty programmes
(2203-00-003-93 III C)	5,00,000	1,31,551	93,906	2,25,457	
Scholar Support (2203-00-112-64).	4,23,600	0	41040	41040	GATE coaching Provided.
(2203-00-112-66) - E books	4,34,159	4,30,484	0	4,30,484	
QIP Centre					
(2203-00-112-65)					
FSD					
2203-00-003-91-ASAP	4,00,000	45,137	8525	53,662	Workshops
PPP					
(2203-00-112-56)					
Strengthening Library					
(2203-00-001-95)	8,44,545	92,933	747085	8,40,018	E-journals, Library automation Software
Physical Education					
(2203-00-112-70) ICT	14,82,153	14,82,153		14,82,153	
(2203-00-112-63) NMEICT	20,02,131	14,02,681	599450	20,02,131	3 D Printer
(2203-00-99-34 STTP)					
2203-00-112-78 -(Computer Centre at L.H)	10,00,000	0	9,82,210	9,82,210	Computer Centre at ladies Hostel
(2203-00-112-53 TBI)	4,50,198	3,95,994	54204	4,50,198	Payment of cost of furniture
Sub Total	75,36,786	39,80,933	25,26,420	65,07,353	
<b>Grand Total</b>	<b>1,71,17,241</b>	<b>1,04,82,745</b>	<b>50,71,463</b>	<b>1,55,54,208</b>	<b>91%</b>



## **17 CONCLUSION**

At the end of financial year 2014-15, we have reasons to be satisfied on many counts: First the institution is on a sound footing on its journey towards excellence in terms of human and infrastructural resources. Secondly, it has started to get noticed in the professional arena, as exemplified by the improved interaction with institutions of repute, number of extension lectures by the faculty, publications by the staff and students, and sponsored research projects. Thirdly, we were able to maintain a peaceful atmosphere conducive for meaningful academic work. When new programs begin in the near future, there are further chances to improve our position in the academic field. We will strive hard to realize our vision of excellence through the wings of science and technology, in the service of humanity.

## UNION OATH TAKING AND ANNUAL SPORTS 2014-15





FOSS Workshop on Elixir Programming



Prof. Prahlad Vadakeppat, NUS Singapore handling a Robotics Workshop organized by IEEE Students Chapter