

GOVT. ENGINEERING COLLEGE SREEKRISHNAPURAM

ACTIVITY REPORT

2013-2014



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Abstract

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

Introduction

Govt. Engineering College, Sreekrishnapuram, which made a humble beginning in 1999 in an old building of Sreekrishnapuram Grama panchayat, now occupies the largest single building among Govt. Engineering colleges in the state. Over the past decade, it has made steady progress in terms of academic excellence, infrastructure, development of key subsystems, etc. we now enjoy a comfortable position in human resources, computing infrastructure, conduct of curricular and extracurricular programs, attracting external funds, etc. we are in the process of consolidation, and only meticulous planning and diligent working will bring good results .

2. Departments And Their Achievements

2.1 Dept. of Computer Science & Engineering

2.1.1 Result Analysis

B.Tech/ Semester	Pass Percentage	M.Tech/ Semester	Pass Percentage
I&II	85.71	II	100
IV	72.06	IV	100
VI	86.4		
VIII	60.29		

2.1.2 Placements

- No. of Placements: UG-16 & PG -16 (Total: 32)
- Recruiters: Nest, UST Global, HCL, IBS Software, C-DAC, Sigmoid Analytics, London American University UAE

2.1.3 Students Achievements

- No. of GATE 2014 qualifiers: 8
- The PG student's forum SIMPLE has successfully continued the publication of

the online quarterly technical magazine CLEAR during the academic year 2013-14 also, which they had started in Sep 2012.

- A group of S8 CSE led by Arjun, has won the Second prize in the Project competition organized by MEA Engineering College, Perinthalmanna.
- Sajith Surendran, S6 CSE was selected as the Student Ambassador by IC-FOSS.

2.1.4 Faculty Achievements

- **Ajeesh Ramanujan**, Asst. Professor successfully defended his PhD Thesis entitled **Control Languages in P Systems** (Supervisor: Prof. Kamala Krithivasan, CSED) at IIT Madras (Feb 2014).
- **N. Ali Akbar**, Asst. Professor has been commended with Excellence award by the Government for his leadership role in the **Punarjani** project implemented at Taluk Hospital, Mannarkad, as the Co-ordinator of the NSS unit.

2.1.5 Training Programs

The faculty and staff have undergone the following training programs under TEQIP-II:

Title	Period	No. of Participants	Venue
Networks and their Applications to Engg	June 2013	1	NIT Calicut
National Knowledge Networks	Oct 2013	1	IISc Bangalore
Embedded Systems	July 2013	5	NIELIT Calicut
Data Structures and Algorithms	Aug 2013	5	NIT Calicut
Discrete Mathematics	Jan 2014	4	GEC Sreekrishnapuram
Cloud databases	Jan 2014	5	GEC Sreekrishnapuram
Soft Computing	Jan 2014	5	GEC Sreekrishnapuram
Linear Algebra and its Applications to Engg	Oct 2013	5	GEC Sreekrishnapuram
CERD Workshop on Research Methodology and IPR	21-23 Nov 2014	5	GEC Sreekrishnapuram

2.1.6 Faculty Contributions (Extension Lectures):

- **Dr P.C. Reghu Raj** delivered an invited talk on **Data Science: The Emerging Research Area in IT**, at AWH College of Science and Technology, Anakkara, Feb 2014.
- P. Ezudheen delivered an invited lecture on **Compilation Process & Parsing on 13th Jan 2014** at LBS Institute of Technology for Women, Poojappura, Trivandrum.
- Raseek C delivered an extension lecture on **“Office Automation tools”** during the FDP, conducted by IT Department, GEC Sreekrishnapuram, in Oct 2013.
- Dr. P.C. Reghu Raj delivered an extension lecture on **“Language Modeling”** during Faculty Development Programme“, **Intelligent Methods Towards Computational Linguistics**” conducted at College of Engineering Cherthala, in July 2013.

2.1.7 Faculty Contributions (Other duties):

- **Dr P.C. Reghu Raj**, Professor & Head (CSE) also held the additional charge of the Principal from 1 June 2013 to 8 Dec 2013. **He is also serving as the Chairman (BoS) in Electrical & Electronics Engg, Calicut University** from Feb 2014 onwards.
- **Dr P.C. Reghu Raj**, in the capacity of Professor-in-charge of the CERD Satellite Center submitted a proposal for setting up a Center of Excellence in Advance Computing to CERD Trivandrum, which was sanctioned Rs. 20 lakhs funding. The Principal Investigator of this project is **C. Naseer**, Asst. Professor, CSE.
- **Dr P.C. Reghu Raj**, in the capacity of Professor-in-charge of the CERD Satellite Center organized a 3-day workshop on Research Methodology and IPR for the faculty and PG students with the assistance from CERD Trivandrum and KSCSTE Trivandrum during 21-23 Nov 2013.
- **N. Ali Akbar**, Asst. Professor is acting as the NSS Co-ordinator.
- **AV Vipin Vasu**, Asst. Professor is acting as the Procurement Coordinator (TEQIP).
- **AV Vipin Vasu**, Asst. Professor is acting as the Coordinator of FOSS unit.
- **P. Ezudheen**, Asst Professor acted as the R&D Coordinator (TEQIP-II) from June 2013 to Dec 2013 and **Dr. Ajeesh Ramanujan**, Asst. professor is acting as the R&D Coordinator (TEQIP-II) from Jan 2014.

2.1.8 Events:

Dr P.C. Reghu Raj, Professor and Nibeesh K (II yr M. Tech) participated in the Annual National Conference NATCON organized by CERD Trivandrum at GEC Wayanad. Two papers are accepted and presented in the fourth National Technological Congress, Kerala (NATCON) 2014.



Smt. Preethi M, Manager, TBI, NIT Calicut taking a class on Entrepreneurship

Invited Lecture on Entrepreneurship

An Invited Lecture on Entrepreneurship was conducted on 12 Oct 2013, sponsored by TEQIP-II under the Industry-Institute Interaction Cell and was organized by the Dept. of CSE. The event was coordinated by Dr P.C. Reghu Raj. Smt. Preethi M, Manager, Technology-Business Incubator, NIT Calicut gave an inspiring talk on Entrepreneurship, modalities of setting up a TBI and the benefits her organization offers for young entrepreneurs. The PG students and a few UG students of CSE participated along with staff members.

Workshop on Soft-computing

The 3-day workshop on Soft computing, sponsored by TEQIP-II and organized by the Dept. of CSE was coordinated by C. Raseek, Asst. Professor. It was held at GEC

Sreekrishnapuram from 9-11 th January 2014. Experts from IIST Trivandrum. IIT Delhi and M.S.U Baroda gave sessions on topics like Genetic algorithms, Neural networks, Fuzzy logic and Data-mining.

The workshop was inaugurated by Dr.P.C.Reghu Raj, Principal of GEC Sreekrishnapuram. First session was based on Fuzzy logic by Dr.Deepak Mishra, IIST Trivandrum and is followed by another wonderful session on Google Page Ranking algorithm by Dr.Sumitra.S.Nair, IIST Trivandrum. First day of workshop came to an end with a session on Artificial Neural Networks by Prof. Raju K.George, IIST Trivandrum followed by a lab session.

On the second day there was a great session on Genetic algorithms by Prof.V.D Pathak, M.S.U Baroda, followed by a session on 'Theory of Kernel Methods' by Dr. Sumitra.S.Nair, IIST Trivandrum. Second day ended with a lab session on ANN.

Third day session mainly focused on Data Mining and its applications. The session was by Prof.B.Chandra, IIT Delhi. It was an interesting session.

The three day workshop came to an end with the distribution of certificates to all the participants by Prof.B.Chandra and Prof.V.D Pathak. Overall, it was very useful for the faculty participants and the PG students.

Workshop on Multilingual Computing (sponsored by TEQIP-II)

Dept. of Computer Science and Engineering organized a 1-day workshop on "**Multilingual Computing** (sponsored by TEQIP-II) in association with Swathanthra Malayalam Computing (SMC) on October 7 2013 with the active involvement of its PG students. The purpose of the workshop was to get familiarized with various challenges and issues related to language engineering and computing. The workshop was inaugurated by **Dr. P C Reghu Raj**, Head of Department of Computer Science and Engineering. The keynote speech was delivered by **Mr. Santhosh Thottingal**, Senior Software Engineer at Language Engineering team Wikimedia Foundation and the Project Admin of SMC. Mr. Santhosh presented the need for greater emphasis on software localization and need of multilingual computing systems. He also illustrated various tools and projects related to Malayalam Computing. Later Mr. Robert Jesuraj introduced the basics of Natural language processing and Mr. Manu Madhavan took a session on Semantic Web. The workshop was attended by more than 70 participants.

Workshop on Cloud Databases (Sponsored by TEQIP-II)

Coordinated by C. Naseer, Asst. Professor, this 3-day faculty development program was organized during 7-9, Jan 2014, with the aim of introducing the faculty members of CSE and IT to the latest trends in the hot topic of cloud computing and data bases. Experts from the Industry and academia handled the sessions which were highly relevant. The event was sponsored by TEQIP-II.

. *Mr Santhosh Thottingal, SMC at Swathanthra Malayalam Computing W/S*

Mr. Santhosh addressing the Workshop participants

Dr. Deepak Mishra, IIST Trivandrum addressing the participants

2.1.9 Publications by the Faculty and Students (2013-14) (Total: 14 Nos)

International Journals (7 Nos)

1. Indhuja K, Indu M, Sreejith C, and **P.C. Reghu Raj**. Text Based Language Identification System for Indian Languages Following Devanagiri Script. International Journal of Recent Trends in Technology, April 204 (Accepted)
2. **Ajeesh Ramanujan** and Kamala Krithivasan, Control Languages associated with Spiking Neural P Systems, "Romanian Journal of Information Science and Technology" (to appear)
3. Kamala Krithivasan, Gheorghe Pun and **Ajeesh Ramanujan**. On Controlled P systems, " Fundamenta Informaticae" (to appear)
4. Ayisha Noori V. K and **P. C. Reghu Raj**. Extraction of Disease Relationship from Medical Records: Vector Based Approach.Int. Journal of Latest Trends in Engineering and Technology (IJL- TET).Vol. 3 Issue2 November 2013. pp. 24-33.
5. Mujeeb Rehman O and **P. C. Reghu Raj**. Malayalam Word-net: A Relational Database Approach. Int. Journal of Latest Trends in Engineering and Technology (IJLTET).Vol. 3 Issue 2, November 2013. pp. 75-79.
6. Athira P. M., Sreeja M. and **P. C. Reghuraj**. Architecture of an Ontology-Based Domain-Specific Natural Language Question Answering System. International Journal of Web & Semantic Technology (IJWesT). Vol.4, No.4, October 2013. Pp.1-9.
7. Divya Das, C. Santhosh Kumar, **P. C. Reghu Raj**, " Dysarthric Speech Enhancement using Formant Trajectory Refinement" , IJLTET, Volume 2 Issue 4 – July 2013.

International Conferences (3 Nos)

8. **Ajeesh Ramanujan** and Kamala Krithivasan, Control Words of Transition P Systems, Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2013), Advances in Intelligent Systems and Computing, 201, 145-155, 2013.
9. Sreejith C, Indu M, and **P. C. Reghu Raj**, "N-gram based Algorithm for distinguishing between Hindi and Sanskrit texts" , in the Fourth International Conference on Computing, Communications and Networking Technologies (ICCCNT), TamilNadu, 2013.
10. Divya S, **P. C. Reghu Raj**, "News Summarization based on Sentence Clustering and Sentence Ranking", in Proc. of International Conference of Mathematical Modelling in Computer Management and Medical Sciences , Thiruvalla, 13-15, June, 2013.

National Conferences (4 Nos)

11. Sreejith C, Nibeesh K, and P. C. Reghu Raj, " **CHODYOTHARI: Question Answering System for Malayalam** ", 4th NATCON, Kerala, 2014. (poster presentation)
12. Nibeesh K, Sreejith C, P. C Reghu Raj, " **Text Classification for Effective News Filtering Using Support Vector Machine**", in proceedings of 4th NATCON, Kerala, 2014.
13. Robert Jesuraj, **P. C. Reghu Raj**, "MBLP approach applied to POS tagging in Malayalam Language", in Proc. of NCILC, pp. 5-8, CUSAT, Cochin, 2013.
14. Manu Madhavan, Mujeeb Rehman O, **P. C. Reghu Raj**, " Computing Prosodic Pattern for Malayalam", in Proc. of NCILC, pp 1-4, CUSAT, Cochin, 2013.

2.2 Department of Electronics and Communication

Various achievements and activities under department of ECE in Faculty development, student training etc. are listed below:

1. An expert talks on “Image Processing Using Matlab and Embedded C Programming” on 05/03/2014 was delivered by Mr. Shoukath Cherukat, Scientist Engineer – D, NIELIT, Kozhikode for S6 and S8 students of ECE. On the same day Mr. Rajesh M., Scientist Engineer, NIELIT, Kozhikode has handled a session on “Image Processing Using Matlab and Embedded C Programming” for students of ECE.
2. Director of C-MET, Thrissur has delivered a talk on ‘Sensors and Actuators’ for S1-S2 ECE students on 25th March 2014.
3. An expert talk on “Super Capacitors and Applications” was given for 4th semester ECE students by Dr.Pramanik, Scientist –D, C-MET, Thrissur on 25th March 2014.
4. A technical workshop on “Embedded Systems” was conducted by Mr. Jayakrishnan, Principal Consultant, ‘Kinnovates’, Bangalore, on 28th March 2014.
5. MODROBS fund has been utilized for Modernizing Microprocessor and Embedded System Lab in the department. Steps are taken for the modernization of Advanced Communication Lab with the modrobs fund sanctioned for this lab.
6. One of our final year student projects “Solar Simulator” guided has got appreciation by IEEE Standards Committee and was awarded a scholarship 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. Another student project “Ultrasonic Hover Input Device” was selected for Malayala manorama Yuva Master Mind project and was awarded an amount of Rs. 8000/- for continuing their project.

7. Many students of ECE department has undergone training in various industries like Keltron, BSNL, Palakkad and Aakashavani Thrissur.
8. Two faculty of this department has undergone training at FCRI Kanjikode, in Data Acquisition Systems.
9. Industrial visits by students of ECE

Sl. No.	Industry visited	No. of students and class	Date
1	C-MET Thrissur	S7 ECE (44 Students)	29/8/2013
2	AIR Thrissur	S1S2 ECE (60)	16/01/2014
3	Kamco Ltd, Kanjikode, Palakkad	S8 ECE (40)	04/4/2014

10. A Memorandum of Understanding has been signed by the ECE department with IRTC, Mundur, Palakkad, on 02/12/2013.
11. Four staff members of ECE department has visited four industries at Kanjikode, Palakkad on 27/11/2013.
 - 1) KAMCO Ltd, Kanjikode, Palakkad. - Manufacturers of Agro Machinery
 - 2) Indian Telephone Industries, Kanjikode, Palakkad. – Manufacturers of Telephone Exchange.
 - 3) Gasha Steels, Kanjikode, Palakkad.- Steel manufacturers
 - 4) Gold flex industries, Kanjikode, Palakkad – Manufacturers of cutting tools for steel and wood.

2.3 Department of Mechanical Engineering

Sl. No	Summary of activities	Remarks
1	Sri. Rajan T (AP) attended the training “Basics of CFD” at FCRI, Palakkad from 18/07/13 to 19/07/13.	
2	Sri Leeju C J (AP) attended the training on “Metrology	

	Pressure Temperature and Electro Technical Measurements and Calibration”. At FCRI, Palakkad.	
3	Dr.Varadarajan gave an Expert talk on “Science of measurement” for Third semester students	
4	Sri.Selvakumar A attended the short term course on “Strategic Human Resource Management” at IIT Roorkee from 03/02/14to07/02/14.	
5	Mr.Jayakrishnan and Mr. Jayasankar C attended the training on “Building Up a student friendly Institute” at NITTR Goa from 17/2/2014 to 21/2/2014.	
6	Third Semester students visited FCRI Palakkad on 25/8/2013.	
7	Bridge courses were conducted for first year students.	
8	Purchased and installed lathe machines required for Production Engineering Lab I	
9	Machineries such as shaper and Cutting machines required for PE Lab II were given purchase order.	

2.3.1FSD INHOUSE

SI No.	Course Title	Course Duration	Course Objective	Target Audience	No. of Participants
10	Innovative Research Methods	20-22 Jan’14	To motivate the research aspirants and to introduce them the	Faculties from all branches	30

			latest research avenues.		
11	Techniques for Technical Report Writing	23-25 Jan'14	To bring out the methods such as Latex in report writing and to provide the techniques how to improve the quality of technical papers.	Faculties from all branches	30

2.4 Department of Information Technology

Performance statistics of The Dept. of Information Technology during the academic year 2013-14 is given below:

2.4.1 Result Analysis

B.Tech/Semester	Pass Percentage
I & II	60.65
IV	58.82
VI	52.5
VIII	88.06

2.4.2 Placements

- No. of Placements: UG-04
- Recruiters : UST Global ,IBS Software technologies

2.4.3 Students Achievements

- No. of GATE 2014 qualifiers : 6

2.4.4 Faculty Achievements

Training Programs

The faculty and staff have undergone the following training programs under TEQIP – II:

Title	Period	No. of Participants	Venue
Tele communication	08-13	2	IIT, Kharagpur
Network with State of the art Hands-on Experiments	July-2013		
Embedded Systems	15-19 July 2013	5	NIELIT Calicut
Data Structures and Algorithms	19-23 Aug 2013	3	NIT Calicut
Integrated Library Management System (KOHA)	21-22 Aug 2013	1	TKM College Kollam
Design and Analysis of Algorithms	6-10 Sept 2103	1	IIITMK Trivandrum
Application on Development Testing & Deployment using Java based Network	2-7 Sept 2013	1	GEC, Kannur

Image Processing	2-7 Sept 2013	1	GEC Wayanad
Two Days workshop on LATEX	9-10 Sept 2013	1	GEC Wayanad
Management Development Program on Acad.Leadership	11-16 Nov-2013	1	IIM Kozhikode
Training Workshop on MIS	7-9 Oct 2013	1	Institute of Chemical Technology, Mumbai
Web Based Designing	7-11 Oct 2013	1	NITTR, Chandigarh
3 days workshop on Big Data Technologies	10-12 Jan 2014	1	IIITMK, Trivandrum
Linux Server Administration Phase II	25-29 Nov 2013	3	GEC Wayanad

Strategic Human Resource Management	3-7 Feb 2014	1	IIT Roorke
NS2 for MANET & Sensor Network	8-9 Feb 2014	1	IIITMK Trivandrum
DSpace (Digital Library)	7-8 Feb 2014	1	TKM College Kollam
PC Maintenance	3-14	1	NITTR, Bhopal
Trouble shooting	Mar 2014		
Discrete Mathematics	Jan 2014	4	GEC Sreekrishnapura m
Cloud databases	Jan 2014	4	GEC Sreekrishnapura m
Soft Computing	Jan 2014	4	GEC Sreekrishnapura m
Linear Algebra and its Applications to Engg.	Oct 2013	4	GEC Sreekrishnapura m
CERD Workshop on Research Methodology and IPR	21-23 Nov 2014	4	GEC Sreekrishnapura m

2.4.5 Faculty Contributions (Extension Lectures):

Faculty Contributions (Other duties):

Showkathali V., Associate Professor & Head (IT) held the additional charge of the principal from 15/05/2012 to 28/05/13 .**He is also serving as the Chairman (BoE) in IT, Calicut University.** He is also a Member of the Faculty of Engineering and a member of the Board of studies in CSE & IT.

2.4.6 Events**Workshop on “A Step Info InfoTech” (sponsored by TEQIP-II)**

The 3-day workshop on “A step InfoTech”, sponsored by TEQIP-II and Organized by the Dept. of Information Technology was coordinated, by Shri. Safeer Babu T, Asst. Professor and Smt. Minu R Nath. Asst. Proffessor. It was held at GEC Sreekrishnapuram from 28-30th October 2013.

The workshop expected the audience from any stream who wants to improve the working knowledge on office tools (MS OFFICE SUITE), basics of Internet, Linux and computer hardware.

This provided an introductions of basics of Linux and enhance the potential of the Staff/Faculty members to handle the office tools.

Workshop on Discrete Computational Structures with Applications (27-31 Jan ‘14)

(Sponsored by TEQIP-II)

This was the second FSDP Program organized by the Dept. of Information Technology sponsored by TEQIP-II co-ordinate by Smt.Shilpa Sangeeth L.R, AP in IT and Shri.Safeer Babu. T,AP in IT.

The program was scheduled for five days (27-31 Jan'14) and opened for faculties from the departments of IT, CSE And ECE (max:30).Experts from the IITS and Nits handled the sessions which were highly relevant.

This introductory course provided an opportunity to the participants for getting exposed to the field of graph theory, combinatorics and optimization of algorithms which may help them in future in solving graph problems and designing optimized algorithms.

2.4.7 Publications by the Faculty and Students (2013-14) (Total: 3Nos)

International Journals (2 Nos)

1. 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 (Accepted)
2. 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 (Accepted)

International Conferences (1 Nos)

3. Krishnaprasad.P and Vinayanchandran K.K ‘Automatic Headline Generation Using Context free Grammar’ International Conference on Information Engineering (ICIE ,2014),ICIE 2014-2005 (published)

3.0 Activity of Center for Engineering Research and Development

Center for Engineering Research and Development

The Center, which was established in 2010, is extending support to the ongoing R&D and allied activities in the institution. The center is coordinated by Dr P.C. Reghu Raj, Proffessor (CSE). The activities of the center are in collaboration with IEEE, PG Students Forum, FOSS Cell, and various

departments. A faculty team identifies innovative and useful projects and recommend for partial funding/logistic support. Under this provision, three student projects were funded /supported partially, on finding that to be useful.

The project of setting up an Innovation Center, named **PRAGATI**, under CERD is nearing completion at a cost of Rs. 10.0 Lakhs (Principal Investigator: Dr P.C. Reghu Raj)

A Center of Excellence in Advanced Computing is being set up in the institution with the assistance from CERd, Trivandrum. Rs.20.0 Lakhs has been received for this project, and C. Naseer, Asst. Professor (CSE) is the Principal Investigator of this project.

One research publication was supported by CERD

A 3-day faculty development program was organized shortly on Research methodology and IPR with the help of CERD headquarters and KSCSTE Trivandrum during 21-23 Nov 2013.

An Innovators meet is also planned at the beginning of the next academic year.

Details of the Faculty Training Program on Research Methodology and IPR

The three day faculty training program-cum-workshop on Research Methodologies and Intellectual Property Rights was held at GEC Sreekrishnapuram during 21st - 23rd November, 2013. The program was organized by CERD Head Office, Trivandrum and KSCSTE (Kerala State Council for Science, Technology and Environment) Trivandrum. Eminent personalities from CERD, KSCSTE, academicians from reputed institutions gave sessions on various aspects of research. More than 30 faculties and PG students attended the workshop.



Dr K Balan, Director (CERD) inaugurating the workshop

The first day of the workshop started off with an welcome address by Dr.P.C.Reghu Raj, Principal of GEC Sreekrishnapuram. After that the workshop was inaugurated by Dr. K. Balan, Director, CERD Trivandrum followed by his inaugural speech.

The session was resumed after a break with an introductory note on CERD and its various funding schemes available for promoting research activities among faculties and students in engineering colleges in Kerala by Dr. K.Balan. The post lunch session started with yet another session by Dr. K.Balan on various other funding agencies in Kerala and their funding schemes for conducting research activities. The first day of the workshop came to an end with a motivational talk by Dr. K.K.Sasi, Professor Dept of E.E.E., Amrita Viswa Vidyapeetham, Coimbatore. The session was mainly based on various myths and realities related to research, and how to build research-based career, using a case study of Wind Energy research.

On the second day of the workshop (22nd November, 2013), the chief speakers were from KSCSTE (Kerala State Council for Science, Technology and Environment) Trivandrum. The session commenced with a talk on various funding

schemes available from KSCSTE, for promoting technical education and research activities by Dr. V.Ajith Prabhu. He is the Joint Director and Nodal Officer of Patent Information Center, Kerala, KSCSTE. Later he also gave an introductory note on IPR, Intellectual Property Rights.

The session resumed after a break with a talk by Shri.S.Shafikh, Technical Officer KSCSTE. The talk was about patenting system in India and the procedure involved in filing patents. The afternoon session was handled by Dr. Ajith Prabhu with a talk on writing sound research proposal for the purpose of getting funds.

The final day of the workshop was handled by two eminent academicians par excellence, Dr. K.P.Mohandas Dean-Academic, MES College of Engg., Kuttipuram and Dr. K.B.M. Nambudiripad, Former Professor of Mechanical Dept., NIT Calicut.

Dr. K.P.Mohandas talked about the literature survey techniques and the basics of technical writing. Dr. K.B.M. Nambudiripad gave an eye opening session on various formal methods of research.

NATCON-2014

The Principal Proff. K. Vidyasagar, the CERD Coordinator Dr P.C. Reghu Raj, Nibeesh K (M.Tech student) and 3 B.Tech students of ECE (Abhay Mohan, Jishnu Pavithran and Lijo) attended the 3-day National Conference NATCON 2014 and the Techfest at GEC Wayanad (20-22 Feb 2014). The project LED-based solar simulator from the UG students won a consolation prize in the Project Competition section. One research paper and one poster were presented by the PG student K. Nibeesh.

4. Activity Report of IEEE

4.1 Farewell 2013(19/06/2013)

"Here is the time when flowers lose petal and others have to bloom Here comes the time when the grass must be cut, and the mist lifts soon" Its customary for our SB to appreciate the efforts of our seniors and give them a warm hearted good bye. The new executive committee couldn't stop to follow this tradition. The farewell was conducted on 19th June 2013 with our IEEE Counselor Mrs. Asha Prasad

proceeding over the function Mr.Vinayachandran, of IT department was present at the meeting to extend his wishes and guidance for our seniors. All the outgoing IEEE members were given a chance to express their views and experiences. Their experiences and knowledge were really a good rapport for the new Executive committee.

Expense: 400 Rs

Amount collected: Nil

Event	Farewell 2013
Date	2013-06-19
Event Category	College level
No: of participants	40
Chief Guest	Prof. Asha Prasad (IEEE SB Counselor,ECE Dept) and Prof. Vinayanchandran (IT Dept)

4.2 Student Branch Web site Launch (15/07/2013) C

We proudly announce the inauguration of the official website of our Student Branch. The site was launched by the SB Counselor Prof. Asha Prasad on July 15th at 12.45 pm. The student populace of the college and various teaching and non-teaching staff witnessed the event along with IEEE members. The site will be updated regularly with the latest news, notifications, events etc. Credits for the site creation go to EXECOM member Mr.Ananthakrishnan.U.S and credits for extreme supports goes to Mr. Mahesh Mohan and Mr. Reghunath. G. Nair. Extreme support from former SB members helps much to make it a success.

Expense: 1800 Rs

Amount collected: Nil

Event	Student Branch Web site Launch
Date	2013-07-15
Event Category	College level
No: of participants	50
Chief Guest	Prof. Asha Prasad (IEEE SB Counselor, ECE Dept ECE Dept.)



Student Branch Web site Launch

4.3 Workshop on Raspberry Pi(03/08/2013)

A One day workshop on Raspberry Pi Mr. Nikhil Varghese, an L&T employee. The workshop got immense response due to which the entire participants were divided

in to two groups and one group got the class on 3rd and the others got it on 4th. More than 80 people participated in the event. Students got an idea on how to use Linux and RPi and they got a chance to see the coding and working of RPi.

Expense: 20,200 Rs

Amount Collected: 22,000 Rs

Event	Workshop on Raspberry Pi
Date	2013-08-03
Event Category	College level
No: of participants	80
Chief Guest	Mr. Nikhil Varghese(L&T COMPANY)



Workshop on Raspberry Pi

4.4 Best Blogger of GEC - Blogging Competition (15/07/2013)

"The Best Blogger of GEC" was a Blogging competition conducted with an aim of encouraging the students to blog. The event started on 15th July 2013 along with the SB site launch, with 30 participants. Then in three rounds, each round lasting

two weeks (3 weeks for the final round) participants were given a topic to blog on. The event ended on 10th October 2013.

Ashna Y of S5 ECE was announced the **best** blogger of GEC.

<http://ashnayousaf.blogspot.in/>

2nd place

Preethu S7 CSE <http://greatdreams4alifetime.blogspot.com/>

3rd Place

Balagopal S5 CSE <http://vinravun.blogspot.in/>

Expense: 450 Rs

Amount Collected: 400 Rs

Event	Best Blogger of GEC - Blogging Competition
Date	2013-09-15
Event Category	College level
No: of participants	30
Chief Guest	N/A

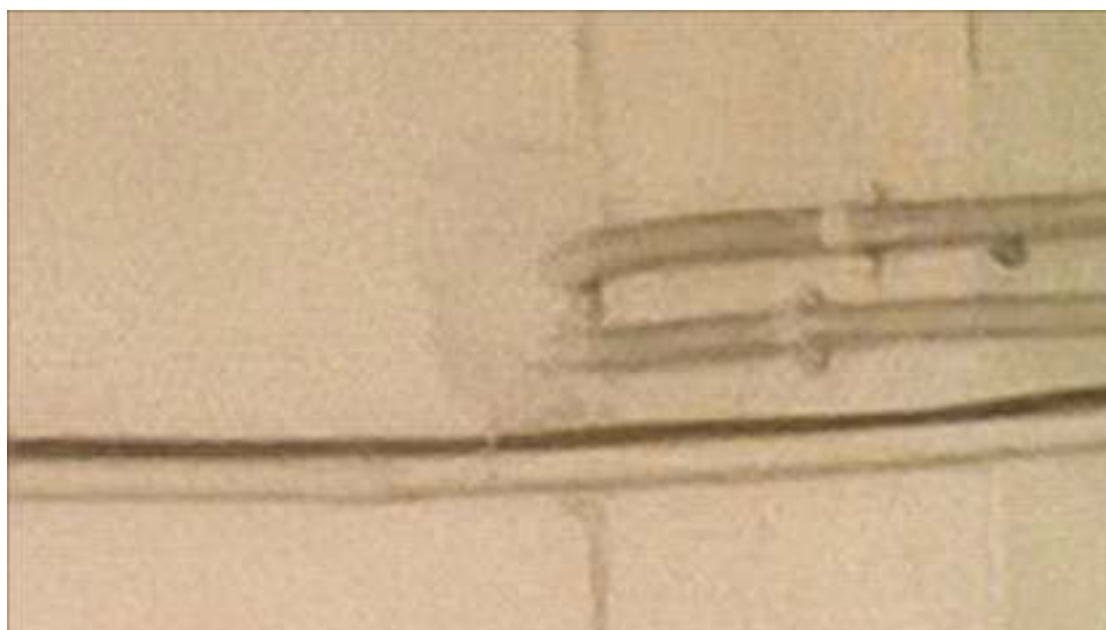
4.5 IEEE day Celebrations (03/10/2014)

The IEEE SB of GEC Sreekrishnapuram also took part in the world wide IEEE day celebrations. The prize distribution to the winners of the “Best Blogger of GEC” was done during the celebrations followed by a technical Quiz competition. The day was made sweeter with sweets distributed to all the members.

Expense: 920 Rs

Amount Collected: nil.

Event	IEEE day Celebrations
Date	2013-10-03
Event Category	College level
No: of participants	50
Chief Guest	Mrs.Asha Prasad (IEEE SB Counselor ECE Dept.)



IEEE day Celebrations

NEW EXECOM (06/02/2014)

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

New EXECOM for the year 2014-2015

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 basics topics was handled by Computer Science and Engineering HOD, Dr.P C Reghuraj and advanced topics by Mr.Ajeesh, Assistant Professor, Computer Science and Engineering .The workshop was very informative, students 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.

Registration Fee for non IEEE students: Rs 50

Registration Fee for IEEE students: Rs 40

Expense: 1385 Rs

Amount collected: 2000 Rs

Event	LATEX workshop
Date	24/02/2014
Event category	college level
No: of	40

participants	
Chief Guest	Dr.P C Reghuraj(HOD CSE Dept.) and Dr.Ajeesh(Asst Prof.CSE Dept)

4.6 Women's Day celebration (10/03/2014)

The IEEE Student Branch GEC Sreekrishnapuram celebrated the Women's day on 10th March 2014. The program was well success owing to the support of the students of the college. The quiz, presentation and the documentary presentation were received well.

The main programs included:

Inauguration by:

Mrs.Rani L, Assistant Professor, Electronics and Communication Engineering

Women's Day quiz- the program was a big success with over a dozen teams coming for the preliminary

and it was a difficult task for us to select the final five and a final round was conducted. The winners are

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 on programmes. Presentation on

following five women personalities were done:

Mother Theresa by Annet, S4 ECE

Dr. Tessy Mathew by Shabna,S4 ECE

Kalpana Chawla by Reshma Mohan, S6 ECE

Madam Curie by Aishwarya Mohan, S6 ECE

Sunitha Krishnan by Amritha, S6 ECE

Documentaries on Women's Day Awareness were shown to give proper orientation to girls of the college.

Two open competitions for entre students of the college was organized and both of them received wide response. It was difficult job for the Exe-Com to find the winners. On the whole the program began well and concluded wonderfully.

Expense: 706

Event	Women's day celebration
Date	10/03/2014
Event category	college level
No: of participants	150
Chief Guest	Prof Rani L (ECE Dept.)

Expense: 706 Rs

Amount collected: nil

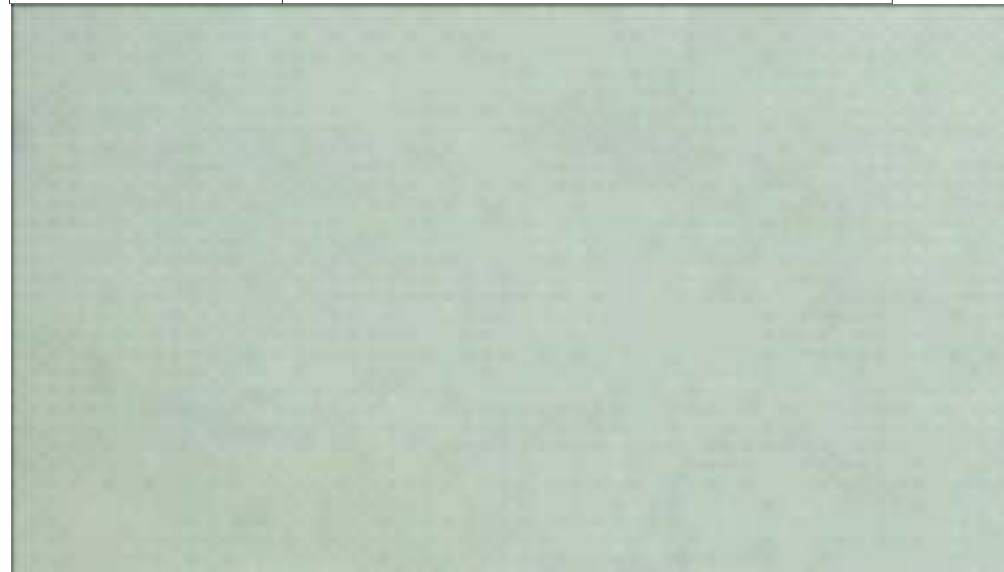
PCB DESIGNING AND FABRICATION WORKSHOP (23/03/2013)

IEEE SB conducted a one-day workshop on March 23rd 2014 about PCB designing and fabrication. A 50%discount was given to all the IEEE members for participating in this workshop. The workshop included sessions like Software familiarization, PCB mask developing processes, etching training and Drilling & assembling. About 30 students from Electronics and Communication participated in the .The participation and active support of students was highly appreciable.

Expense: 846 Rs

Amount Collected: 3200 Rs

Event	PCB Designing And Fabrication Workshop
Date	2013-03-23
Event Category	College level
No: of participants	18
Chief Guest	Mahesh Mohan and Sateesh N. P(GEC PALAKKAD students)



PCB Designing And Fabrication Workshop

5. Activity Report of III Cell

Signed MoU with IRTC, Palakkad on 2-12-2013. Discussed and identified about the areas both can associate.

During the year 2013-14, III-cell have conducted the following activities.

Sl. No	Name of Program	Industry Name / Instn Name	From	To	Semester	No. of Student Participants
1	Industrial Visit	CMET	29/08/2013	29/8/2013	S7,ECE	44
2	Expert Talk Entrepreneurship	NIIT - TBI, TiE	12/9/2013	12/9/2013	all Branches	120
3	Expert Talk on , Industrial Measurements	NSS/Industry	30/08/2013	30/08/2013	S3,Mech	60
4	Expert Talk on water resource management	CWRDM	3/10/2013	3/10/2013	S5,CS	80
5	Expert Talk on Malayalam computing	Malayalam Computing	7/10/2013	7/10/2013	CS.M.Tech 2&3	36
6	Industrial Visit	BSNL, palakkad	26/09/2013	26/09/2013	s5 IT	63
7	Spoken Tutorial Workshop on Java	Spoken Tutorial Project, IIT Bombay	1/8/2013	1/8/2013	CS7	69
8	Spoken Tutorial Workshop on Java	Spoken Tutorial Project, IIT Bombay	19/8/2013	19/8/2013	CS 5	31
9	Spoken Tutorial Workshop on Java	Spoken Tutorial Project, IIT Bombay	21/8/2013	21/8/2013	CS 5	38

10	Spoken Tutorial Workshop on Python	Spoken Tutorial Project, IIT Bombay	24/10/2013	24/10/2013	CS 3	18
11	Industrial Visit	AIR, Thrissur	16/01/2014	16/01/2014	ECE s1&s2	60
12	Focus into Industrial Practices	CTS, Chennai, HP Chennai, SISCO Chennai	4/1/2014	5/1/2014	CS, EC, IT 5,7	200
13	Clouding	SISCO, Chennai	6/1/2014	8/1/2014	CS, EC, IT 5,7	200
14	Work shop on Entrepreneurship	Entrepreneurship Development Institute of India	31/03/2014	31/3/2014	ECES8	60
15	Expert Talk on New developments in Sensors and Actuators	Dr. Dayas , Director ,CMET	25/3/2014	25/3/2014	ECE S1&S2	60
16	Tech. Workshop on Embedded System Design	Mr. Jayakrishna, from Kinnovates, Bangaluru	28/3/2014	28/3/2014	S6 &S8 ECE	80
17	Expert Talk on Super Capacitors and Applications	Dr. Pramanik, Scientist D, CMET	25/3/2014	25/3/2014	S1&S2,EC E	60
18	Industrial visit	KAMCO Ltd., Kanjikode.	4/4/2014	4/4/2014	S8 ECE	50

6. Report of Placement Details

Sl. No	Name	Branch	company
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1	AMRITHA U	CSE	NeST
2	ANJU BABY	CSE	UST
3	ARJUN R	CSE	IBS
4	ARJUN V	CSE	NeST
5	DEEPTHI P	CSE	NeST
6	GEETHU BABU	CSE	NeST
7	KEERTHI E V	CSE	UST
8	NEETHU V G	CSE	UST
9	NIDHEESH M R	CSE	VEE TECHNOLOGIES
10	PREETHU P	CSE	IBS
11	SREEJA P S	CSE	UST
12	RESHMA P N	CSE	NeST
13	ROSNI K V	CSE	NeST
14	SARATH K B	CSE	VEE TECHNOLOGIES
15	SEEMA U	CSE	VEE TECHNOLOGIES
16	SRUTHI A	CSE	UST
17	T M NAMITHA	CSE	UST
18	AKHIL K R	CSE	IBS
19	AMBILI K	CSE	VEE TECHNOLOGIES
20	GOKUL G	ECE	UST
21	NOORAMOL KARIMPANAKKAL	ECE	UST
22	AASHNA UNNIKRISHNAN N	ECE	UST
23	MAHESH M	ECE	UST
24	JIJO.J	ECE	UST

25	RAVISHANKAR P S	ECE	UST
26	AKASH T K	ECE	UST
27	K LIJO OSTEN	ECE	NEST
28	SOOSHINIVETHY S. S.	ECE	NEST
29	SATHEESH N. P	ECE	NEST
30	ABHAY MOHAN M. V	ECE	NEST
31	JISHNU PAVITHRAN	ECE	NEST
32	SWATHI C S	ECE	NEST
33	RESHMA NATH A	ECE	IBS
34	PRASANTH NANDAKUMAR	IT	IBS
35	CHINNU VISWANATHAN	IT	IT
1	SARANYA P B	CSE	Students shortlisted for interview (M/s Poornam Infovision)
2	SUNEESHA A	IT	
3	SHYNA P	IT	
4	SWATHI PRATHISH	CSE	
5	AMITHA V P	CSE	
6	GAYATHRI T R	CSE	
7	REKHA R	IT	
8	SHAFNA S	IT	
9	ATHIRA M	IT	
10	SONU VARGHESE K	IT	
11	RESHMI JOSSY	IT	
12	KRISHNAPRIYA A M	CSE	
13	NEETHU SEBASTIN	CSE	
14	THASREES T K	CSE	

7. REPORT OF STEP4U AND CE CELL DURING 2013-14

odd semester							
OPES							
Sem & Branch	Subjects	Hou rs	TA/DA .students	rem. To staff	study mat	total	othe rs
S3-CSE	Data structures	12	3300	7200	2030	12530	9400
S3-CSE	Discrete Computational Structures	7		4200	2065	6265	
S5 CSE	Operating System	7		4200		4200	
S5 CSE	Theory of Computation	12	1740	7200	3510	12450	
S7 CSE	Design and Analysis of Algorithms	18		10800		10800	
S7 CSE	Computer Network Security	15	4830	9000	4102	17932	
S1-S2-CSE	Basic Electronics	3	250	1800		2050	
S3-ECE	Network Analysis & Synthesis	2	280	1200		1480	
S7 ECE	Microwave Engineering	6		1800		1800	
S7 ECE	Information Theory & Coding	6	350	1800		2150	
S3-ME	Computer Assisted Machine Drawing	6		3600		3600	
S3-ME	Fluid Mechanics	6		3600		3600	
S3-ME	Production Engg. LAB	6	1770	5600		7370	
S3-IT	Programming in C	2	300	1200		1500	
S7-IT	Natural Lan.Processing	2	400	1200		1600	

		Total		13220	64400	11707	89327	9400
GATE COACHING								
CSE				12600	6860			
IT				1800				
even semester								
OPES								
S1-S2CSE	Engg. Graphics	6	not available since all have not submitted attendance	3600				
S4		15		9000				
S6		21		12600				
S8		12		7200	12000			
S1-S2ECE	Engg. Graphics	12	do	7200				
S7 ECE	Cryptography	30		18000				
S1-S2ME	Engg. Graphics	6	do	3600				
S1-S2ME	BME	2	do	1200				
S4-ME	Mechanics of Solids	6	do	3600				
	Fluid Mechanics	6	do	3600				
	Thermodynamics	10	do	6000				
S1-S2IT	Engg. Graphics	12	do	3600				

GATE COACHING							
CSE			6000	9000			
IT			6000	7200			
ECE			18000				
TOTAL			30000	95400	12000		
EVEN SEMESTER DETAILS ARE NOT COMPLETE SINCE ALL HAVE NOT SUBMITTED DETAILS							

7.1 Revenue and Expenditure of CE Cell- GEC- Sreekrishnapuram

Date	program	Income	Expenditure							Remarks
			purchase of items	rem. To coordinator	rem. To faculty	rem Principal	rem. Manager	Rem HO D	TOTAL	revenue
13-03-2013	Introductory Course on Computer Aided Engg. Drawing	4000			2800				2800	1200
13-03-2013	Testing of LED based head lamp -of Microsystem Electronics-Kongad	1389			1000	14	14	14	1042	347
13-03-2013	Inspection of X-ray machine at Taluk Hospital,	1389			1000	14	14	14	1042	347

	Ottapalam									
27-07-2013	Estimation and approval of civil works Livestock research station, Thiruvazhamkunnu	27661			19914	277	554		20745	6916
03-09-2013	Consultancy work at Kalladikode Service Co-Op Bank	9000			6480	90	90	90	6750	2250
20-02-2014	Consultancy work at MES Kalladi College	1695			1220	17	17	17	1271	424

8. Ladies Hostel Inauguration



The ladies hostel was constructed with the help of NABARD's plan RIDF XVI at a project cost of Rs. 3.90 Crores.

The ladies hostel of the institution was inaugurated on 16/11/13 by Hon'ble Education Minister Shri.P.K.Abdureb.116 inmates admitted to the hostel w.e.f 01/12/13 with limited facilities. Administrative Sanction for an amount of Rs.1600000/- (Rupees Sixteen Lakhs only) for providing water supply from Karimpuzha River to the ladies hostel of this institution is accorded.

Administrative sanction is accorded to meet the expenditure for the purchase of items required for the newly constructed Ladies Hostel from the head of account 2203-00-112-59 (Plan) for an amount of Rs.19, 02,000/- vide order No. D3/41500/13/DTE dated 6-2-14.

CONCLUSION

At the end of financial year 2013-2014, 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.

