



Government Engineering College
Bartonhill, Tvpm, Kerala - 695035

Phone: +91-471-2300484,

+91-471-2300485

www.gecbh.ac.in

Email: principal@gecbh.ac.in

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Editor & Designer:

Prof. Josna V. R. ,
Assistant Professor,
Information Technology

Email:
josna.chandu@gmail.com

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From the Editor's Desk

Greetings and welcome to the 'freshest' issue of the newsletter! The newsletter will give us a way to recognize others contributions and achievements and to appreciate them. This will enhance the unity among us which we need for the benefit of the institution.

My gratitude to our Principal for giving a free hand in the publication of this newsletter. It was his desire which made this into reality. Finding the resources, compiling them and presenting it to you in this form, the help I got from my colleagues is uncountable.

This newsletter is to be published once in three months. The past year was full of various activities by the students and faculty in academic, co-curricular, as well as research & developments. The inaugural issue covers only the activities from September to November 2013 and the research publications of the current academic year. Readers valuable comments are expected for this new venture. This maiden issue of newsletter should encourage all of us to work hand in hand for the institution.

Josna V R



Vision

We envision ourselves growing into an institute of global stature which nurtures inquisitive young minds, fosters innovative research and reaches out to society at large—all the while incessantly improving upon itself.

Mission

To mould a quality professional with integrity and sense value on each aspiring technocrat by imparting a sound knowledge of Technical fundamentals and the ability to approach complex technical problems with good judgment and objectivity.

Principal's Message



It gives me immense happiness while writing the Principal's message for the first newsletter from Government Engineering College, Barton hill (GECBH) Trivandrum one of the most sought after colleges in Kerala. Since its inception in 1999, GECBH has been progressing exponentially for all aspects. This year's IAS topper Ms. Haritha V. Kumar makes our college proud and widely known. Getting university rank is a routine matter here. Aim of the Newsletter is not only to showcase our merits but also to bridge the gap between our achievements and publicity. TEQIP, MODROBS, other grants lead the college to higher elevation. GECBH is lucky with a dedicated, experienced and hardworking team that can handle any challenge and hardship with confidence. Let me sign off with a quotation " If you want to go fast, walk alone; If you want to go far, walk together. Best Wishes,

Dr. R Sathikumar

Director's Message



I am happy that Govt. Engineering College, Barton hill, Trivandrum is bringing out a College newsletter. The college Newsletter will definitely help to showcase the activities that are

happening in the campus. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the faculty. This enhances the documentation culture of the institute. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the campus. I hope that this culture of releasing Newsletter continue for ever and become a quoted example for other colleges.

Dr. J. Letha

TEQIP BoG Meeting

The Seventh Board of Governance meeting was conducted on 25th October 2013 at college conference hall . Apart from institute nominees, Dr. Idy Chandy , BoG Chairman, Dr. J.Letha ,DTE, Dr. Kurian Issac, Professor, IIST, Mr. Sherif, Additional Secretary, Higher Education , were present. The BoG appreciated the college TEQIP activities and approved the future action plans .



BoG Meeting at College conference hall

SPACE Week

The renowned Scientist, Sri. P. Radhakrishnan visited the college for a function organized by the "Technical Forum" of the College as part of the Space Week Celebration on 10th OCT 2013. He gave away the prizes to winners of various competitions organized as part of the "Space Week".



SPACE WEEK CELEBRATION

Senior Research Advisor

Prof.V.Radhakrishnan, Emeritus Professor, Department of Aerospace Engineering (Former Professor of IIT Madras) was appointed as the Senior Research Advisor of the institution. He has visited the college and interacted with both faculty and students and has shared his R& D experience and enlightened the GECBHians about the importance and opportunities awaiting us in research activities.



Senior Research Advisor's Visit

New Doctorates



Prof. Biji Jacob AP (ECE) has been awarded Doctorate from Kerala University during September 2013. His research topic was " Spread spectrum techniques for voltage source inverter for induction motor drives " .



Prof. Lakshmi A , Associate Professor (EEE) has been awarded Doctorate from Kerala University during June 2013. Her research topic was "Investigation of Performance of Permanent Magnet Brushless Variable Speed Drive Systems with Feedback Controllers" .

Congratulations!

ISTE Student Chapter Inauguration



The ISTE students chapter was inaugurated by Prof. V. Radhakrishnan, Former Professor , IIT Madras. A faculty chapter is also been inaugurated later. During that time Dr. Idy Chandy , Former Deputy Director, IIT Madras and our BoG Chairman released the first newsletter of ISTE student chapter.

SIS2 Results

The University of Kerala announced the SIS2 results of the 2012 admission students. GEC Barton hill students secured remarkable results with an aggregate pass percentage of 83.4 which is one among the highest results when compared with other colleges under the University of Kerala. The department wise pass percentage is as follows. ME : 77.8%
EE : 82.5% EC : 90.5%
IT : 72.6%. CE : 93.7%

Congratulations



Mr. Anandu SB and Mr. Parameswaran B , S5 ME students grabbed first prize in BLUEPRINT (E E E

Dept.) paper presentation conducted during THATVA 2013, the National Level Technical Fest of NIT, Calicut.



New PG course

GEC Barton hill has started the 4th PG course named *M. Tech in Power System and Control* under the Electrical and Electronics Engineering department with an intake of 18 students from the current academic year onwards.

Your attitude decides, the altitude you can reach- Anonymous

Retirement Function



Mr. Joseph George, our Librarian has left the institution after his long years of service at GEC , Barton hill. The staff club has organised a grand send off function on 29th November 2013 , which was presided over by the Principal Dr. R. Sathikumar. Many staff members shared their experience with him.

TEQIP Sponsored STTPs

Following TEQIP sponsored Short Term Training Programmes were conducted in the college for external as well as internal participants.

- ◇ Dr. Vijayakumar S HOD(ECE) and Dr. Biji Jacob AP (ECE) have coordinated an STTP on “Computer Hardware and Cross Platform Networking - Practice” from 2 -10, September 2013
- ◇ Prof. HariPriya AP and Prof. Divya Prasad KH and Prof. Simikrishna KR of IT Dept. have organised an STTP on “Research Directions on Cryptography and network security from 7-11 October 2013.

Time Management

A talk on “Creating and Managing Time – A Tick Tick Talk” by Dr. Achuthsankar S. Nair, Director, Department of Computational Biology & Bioinformatics, University of Kerala, Kariavattom campus was conducted by the staff club of the college on 25th November 2013 . It is coordinated by Dr. Suja R. ,AP (CE).

In House Training Programmes

- ◇ Mr. Chisty J, Sr Supdt . has coordinated a Workshop on DDFS for the administrative staff from 6 – 7, September 2013.
- ◇ Dr. Dorothy A, Associate Prof. (ECE) has coordinated a 3 day workshop on “Personal Empowerment for Women” from 19 -21, November 2013.
- ◇ Dr. Biji Jacob Associate Prof. (ECE) has coordinated an One Day workshop on Accreditation on 5th November 2013

Training programmes for students

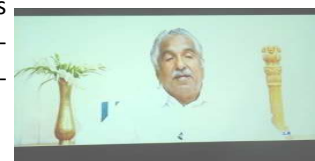
Various workshops and training programmes were conducted for students for their academic excellence.

- ◇ Prof. Rendhir R Prasad, Prof. Anoop SKM, Prof. Sangeetha U of IT Dept have organised a workshop for M.Tech students on “Moodle and LaTeX” from 5-9 November 2013
- ◇ Prof. Sangeetha U and Prof. Anoop SKM of IT Dept. have organised a Two day workshop on “Simulation of wired and wireless networks using NS2 “ during 29-30 November 2013
- ◇ Prof. V. Thulasidharan, Assistant Professor of CE Dept. has organised seminar on “Earthquake Resistant Construction Practices” on 13th September 2013 by the Institute of Land and Disaster Management (ILDm), Kerala.

Entrepreneurship Day



The GEC Barton hill celebrated 12th September as State Entrepreneurship day. The program started at 10.00 with a Prayer and Dr. R. Sathikumar, Principal, Dr. Ramachandran, Dean (UG&PG studies), all HOD's were present on the dais. The Principal gave the inaugural address. This was followed by a seminar on “Technology outreach Program” by the staffs of T-TBI. The different topics include Introduction about entrepreneurship, Technology outreach program, Trends in different emerging technologies like embedded systems, Image processing, Robotics ,PIC programming etc. and about Technopark-TBI. The speakers were Mr. Vishnu C. S. Nair and Mr. Saran Balakrishnan from Academy of Innovative studies, academy training partner of TBI. The program was followed by an interactive session with Mr. Binu Jacob, CEO of Expiron Technologies, Techno park, Thiruvananthapuram. The next session was the projecting of online message from Chief Minister Mr. Ooman Chandy and Mr. Kunhalikutty, minister for Industries and Information Technology. The technical Seminar on Technology Outreach program was continued after the telecast.



Onam Celebrations @ GECBH

Onam was celebrated with a spirit of unity and happiness among college community. Principal, Dr. R. Sathikumar gave Onam message. On September 12th, as part of the celebration the staff members and students prepared beautiful Pookalam. The celebration ended with a feast.



Onam Celebration 2013

Research Publications

- ◇ Chacko Vivek, Bindu Kumar Karthikeyan(ME), "Analysis of grease lubricated isoviscous-elastic point contacts", International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 4, Issue 5, July – August 2013, pp. 207-217.
- ◇ Bindu Kumar Karthikeyan(ME), "Numerical Modelling and Experimental validation of a vertical Spindle Model", International Journal of Engineering and Advanced Technology (IJEAT), Volume-2, Issue-6, August 2013, pp 202-207
- ◇ Biji Jacob (ECE) and M. R. Baiju, "Vector Quantized Space Vector based Spread Spectrum Modulation Scheme for Multilevel Inverters using the principle of Oversampling ADC" *IEEE Transactions on Industrial Electronics*, (Impact Factor 5.2), Volume: 60, Issue: 8, Aug. 2013, Page: 2969-2977.
- ◇ V.Thulaseedharan (CE) ."Impact of coefficient of sub grade reaction on raft foundation design" International Journal of Applied Engineering Research, Vol.8,Issue 2,pp.187-201 Research India
- ◇ V.Thulaseedharan (CE), "Comparison of raft and folded Plate foundations". International Journal of Civil Engineering & Technology (IJCIET) Volume 4, Issue 2, ISSN Print:0976-6308, ISSN Online: 0976-6316
- ◇ Suja.R.(CE) Education of urban growth and expansion using Remote Sensing and GIS International Journal of Engineering Research & Technology, Vol.2, Issue 10 Oct-2013
- ◇ Suja.R (CE), Implementation of Revised Universal soil loss Equation (RUSLE) model for soil erosion assessment-A case study International Journal of Innovative Research & Studies, Nov-2013
- ◇ Sreedevi P and Vijayakumar Narayanan (ECE) "A Low Complex Real Photonic OFDM for Radio-Over-Fiber Systems" International Conference on Advanced Nanomaterials and Emerging Technologies-2013, Chennai, India
- ◇ N Vidya M S, Joseph Zacharias and Vijayakumar Narayanan(ECE) Suppression of Four-Wave Mixing by Combining Phase Modulation and Dispersion Varying Fiber of Length up to 50 km. NCSEE, India 2013
- ◇ Nithyamol V R, Joseph Zacharias and Vijayakumar Narayanan (ECE) "Short-Range In-Door Experiment for transmitting DPSK Signal via Photonic Millimeter Wave Link System" in NCSEE, India, 2013

Placements by CGPU

The Career Guidance and Placement Unit (CGPU) of the college is actively organizing many events for the students to get placements in reputed organizations. As per the latest information from CGPU (as on 30 th November 2013), from the 2014 pass out students (Current final years) 107 students (93 UG and 14 PG) got placed in various IT companies with a total of 118 job offers. The company wise list is as follows :

Infosys - 54 ; Nest - 26 ; Capgemini - 25; Suntec - 5; IBS - 2 ; Airwatch -1; FlyText - 1 and TCS - 4.

External Training Programmes/ Seminars attended by Faculty/Staff

- ◇ Mr. Nithianandan, (AO) has attended a Training Programme on "E-Procurement" at Coirfed from 5 – 6, September 2013
- ◇ Prof. Balu John, Associate Prof., IT has attended "Design and Analysis of Algorithms" at IIITMK, Tvpm from 6 -10 September 2013
- ◇ Dr. R. Sathikumar. Principal, Dr. Jayaprakash. P, TEQIP Coordinator and Dr. Shinelal, AP(Maths) have attended the TEQIP project review meeting at Bangalore on 23rd September 2013
- ◇ Prof. Santhosh Kumar. S.V, AP (ME) and Prof. Gopakumar. S, AP (ME) have attended Training Programme on "PLC and DCS for Industrial Applications" at ESCI, Hyderabad from 3 -5, October 2013.
- ◇ Ms Jiji Mol M. ,IT has attended an STTP on Web designing using PHP and MYSQL, at ESCI, Hyderabad from 29th OCT -2nd November 2013
- ◇ Prof. Deepthi Sasidharan, AP (IT) , Sangeetha. U, AP(IT) and Prof. Haripriya. A. P, AP (IT) have attended a workshop on "Cyber Security" at IIITMK, Tvpm from 2 -5, September 2013
- ◇ Mr. J. Christy, Senior Supdt, Mr. A. Mansoor, Jr Supdt and Mr. Nithianandan, AO have attended an STTP on "Modern Office Management", NITTR Calcutta from 4-8 November 2013.
- ◇ Prof. Sheela. S, HoD, EEE, Prof. Sathi Bhai, HoD, IT, Dr. Dorothy A., Associate Professor, ECE and Dr. Lekshmy. A, Assistant Professor, EEE have attended Managing Creativity and Innovation, ASCI Hyderabad from 11 – 13, November 2013
- ◇ Prof. Vinod. V, AP, EEE has presented a technical paper in IEEE-PES Conference in Bangalore during 10 -13, November 2013
- ◇ Prof. Jajith MB , AP (EEE) and Prof. Sibi KS AP (Maths) have attended FLIAD Induction training at Water Authority center ,TVM from 7-11 October 2013.
- ◇ Prof. Lini R. Chandran AP (CE) has attended a 5 day course on Research Methodologies at CET from 21-25 October 2013
- ◇ Prof. Mathew John AP (ME) has attended STTP on Introduction to smart systems at IIT Madras from 23-27 November 2013.
- ◇ Prof. Monish M AP (EEE) has attended an STTP on State of Art Industrial Automation and Instrumentation at College of Engineering ,Adoor from 25-29 November 2013.
- ◇ Mr. NS Vijayan 1st Grade Instructor has attended a course on Advanced Project Management at CET from 18-22 November 2013
- ◇ Prof. Divya Prasad KH AP (IT) and Prof. Simikrishna KR AP (IT) have attended an STTP on Cyber Security at IITMK during 19-23 November 2013.

Innovation Center under CERD

Center for Engineering Research and Development (CERD) has sanctioned rupees 20 lakhs for starting an Innovation Center at Government Engineering College, Barton hill. Prof. Sindhu N. AP (ECE) is the Officer in charge of the center.