
Vol. 11 No. 06 September 2014

Message from Chairman



Dr. N. R. ALAMELU

Esteemed Members,

Greetings,

I am very happy that the meeting of student branch counselors and the other office bearers had an over whelming response from all the student branches. This has provided a platform for exchanging the ideas for planning the activities of the student branches and also the process to get the rebate from the head quarters on time and submission of activity report to the news letter, section office and also to the head quarters. I take this opportunity to thank all the IEEE past chairpersons and other members for their excellent interaction with the branch counselors and the office bearers.

This is the time when the final year students of B.E/B.Tech programmes plan for their projects and look for support. IEEE Madras Section is calling for proposals from IEEE Members of active IEEE Student Branches for project funding. We request the heads of the institutions, professors and the student branch counselors to motivate the student members for submitting the project proposals to IEEE Madras Section for funding.

We look forward for good number of proposals with a high level of quality for consideration of funding.

October/ November being the examinations season, I wish all the students the very best.

ALL THE VERY BEST

Your Affectionate Office Bearer

Message from the Editor



Dr. S.ARUMUGAM

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I am happy to write editorial for the September issue. The Student Branch Councilors meet conducted on 20.09.2014 was a great success. I could not get the minutes of the meeting and I will include that in the next issue. IEEE is doing its best to serve the engineering community and we have to make use of the information available with IEEE. Now, the new year is going to come and we have to renew our membership and induct more new members into our group. I request all the members to renew their membership in time. All the activities received are reported in this issue. I would like to get a feedback about the IEEE MAS LINK for improving the quality of content to be published.

Dr.S.ARUMUGAM

IEEE student project funding 2014-15

GENERAL INSTRUCTIONS:

Applications are invited for the IEEE student funding (2014-15) from the student members.

1. IEEE Student Project (IEEESP) maximum funding amount of Rs. 15,000/- will be granted.
2. IEEE would like to fund maximum of two projects per college, which includes the minimum two and maximum four students in a project-batch.
3. Faculties as a guide are requested to propose only one project for IEEESP funding in a financial year.
4. IEEESP proposals are to be submitted through the IEEE student branch counselor and the principal to the IEEE Madras section through e-mail, ieemas@gmail.com, in the Word format (*.doc) only.
5. All the correspondence to be communicated through email / hard copy by post. The subject should be in the form(College name_guidename_date of correspondence; Kamban Engineering College_G.Elangovan_31st October 2014; Referred as **KEC_GE_311014**).
6. Eighteen IEEE funded projects titled are listed as Appendix-B, which can't be repeated for the funding request.

SCHEDULE

IEEE student funding submission 2014-15 closing date 31.10.2014

IEEE student project funding/certification 2014-15, will be finalized/awarded on 19th April 2015 at IEEE Madras office. Project cost will be estimated by the panel of judges to the maximum amount of Rs. 15,000/-. Funding procedure follows three stages for the evaluation process.

- a. First stage: Preliminary stage of eligibility and feasibility of project proposals submitted on or before 20.11.2014.
- b. Second stage: Reviewers recommendations- The project proposals will be circulated for the validation on 20.12.2014.
- c. Intimation of project registration for funding eligibility to participate validation event – 28.12.2014,
- d. Third stage: Project will be funded during validation/recommendation by the experts/committee during project demo.
- e. Project demo: on 19th April 2015 at 10.00 Hrs., venue: IEEE Madras office, Chennai-25.

Dr.P.A.MANOхаран, Student project funding (Chair) --

Appendix -A

A certificate of the form typed below as Appendix-A, should be enclosed.

This is to certify that Mr/Miss ----- (Include names of all the team members along with their IEEE student membership number) are bonafide final year UG students. It is also certified that final project report along with utilization certificate signed by the project guide & Principal will be sent to the IEEE Madras Section in the *.doc format through e-mail.

1. The information regarding the financial assistance will be intimated through e-mail
2. The maximum amount that could be sanctioned is Rs.15,000/-. Additional expenditure, if any shall be borne by the institute itself.
3. The Maximum number of projects that could be supported is TEN.
4. The project duration shall be for SIX months
5. The format for the submission of the proposal is as given below
 - a. Name(s) of student (s) with contact details (mobile, e-mail, mailing address)
 - b. IEEE membership details
 - c. Name of the Department
 - d. Name of the College with address
 - e. Name of the Guide with contact details (mobile, e-mail, mailing address)
 - f. Title of the Project
 - g. Brief description of the project (Objective, Methodology, Monthly action plan for 6 months)
 - h. Budget allocation with break-up
 - i. Signature of the students/Project guide/IEEE student branch counselor/Principal

JEPPIAAR ENGINEERING COLLEGE

IEEE Communication Society conducted “SPECTRUM TALK” for second and third year IEEE students on 28th August 2014. The event was conducted to emphasize the importance of spectrum magazine. Dr.J.Venugopalakrishnan, HOD welcomed the gathering. There were presentations on various topics like IBM’S neural chip, IWatch, bomb detection system etc. by the volunteers. Around 100 students participated.



Reported by: J. ChristieAsha, Volunteer , JEC IEEE COMSOC.

IEEE CIS Madras Chapter

NATIONAL ENGINEERING COLLEGE

IMPLEMENTATION OF SOFT COMPUTING TECHNIQUES USING MATLAB

Department of EEE, National Engineering College and IEEE Computational Intelligence Society, Madras chapter have jointly organized the three day workshop from 25th to 27th, August 2014. Dr. L.Kalaivani, Asso. Prof./EEE welcomed the gathering. The function was presided over by Dr.Kn.K.S.K.Chockalingam, Director of the College. Dr. M. Willjuice Iruthayarajan, Prof. & Head/EEE and Secretary, IEEE CIS, Madras Chapter delivered the preamble of the workshop and he explained the scope of IEEE Computational Society and the role of soft computing techniques in the various field of Electrical Engineering. Dr.S.Shanmugavel, Principal of the College delivered the inaugural address. He insisted the importance of computational intelligence techniques in research. Topics covered are : Introduction to MATLAB Programming, ,Introduction and implementation of soft computing techniques using MATLAB toolboxes like Fuzzy Logic, Neural Network, Genetic Algorithm, ANFIS. Implementation of Particle Swam Optimization with MATLAB coding.

Case Studies: PID Controller Tuning for SISO and MIMO systems, Economic Dispatch Problem, Speed Control of Drives, Pattern Recognition on Partial Discharges, etc.

The resource persons are Dr. M. Willjuice Iruthayarajan, Ms. R.V.Maheswari, Dr.L.Kalaivani and N.B.Prakash. Around 50 participants from various institutions participated. The certificates were distributed at the valedictory function. Ms. R. V.Maheswari, Asso. Prof./EEE delivered vote of thanks.



Inaugural Function of ISCT '14

Reported by: Dr. Kumarappan

SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE

The inauguration of IEEE Student Chapter Shree Venkateshwara Hi-Tech Engineering College Gobi, Tamilnadu, India was held on 12/09/2014. The welcome address was given by Selvan. G.Praveen Kumar, Chairman IEEE Student Chapter. Office Bearers were introduced by C.Nallasivam IEEE Student branch Counselor and Assistant Professor, Department of Electrical and Electronics Engineering. The Chief Guest was introduced by Mr.V.Rathinavel Subramaniam Assistant Professor, Department of Electrical and Electronics Engineering. Thiru .K.C.Karupanan, Secretary honored the Chief guest. The Chief guest Dr.N.R.Alamelu, Chairman, IEEE Madras Section and Principal, Sri Ramakrishna Engineering College, Coimbatore delivered the chief guest address she also enlisted the importance and benefits of IEEE student memberships. Vote of Thanks was given by Selvan. K.Satheesh Kumar, Vice chair IEEE chapter.



Reported by: Mr. C.Nallasivam and G.Praveenkumar

Dr. N. G. P. Institute of Technology

The IEEE student branch and the Department of Electrical & Electronics Engineering, organized an Orientation Program on IEEE Membership and its Benefits on 16.09.14 by Mr.

M. S. Damodara, IEEE Product Support and Sales Manager, Bangalore. Dr. Thavamani D Palaniswami, Secretary presided over the function. Dr. V. Kumar Chinnaiyan, Professor and Head of the Department, Electrical and Electronics Engineering, welcomed the gathering. Dr. O. T. Buvaneswaran, CEO, felicitated the gathering. Dr. K. Porkumaran, the Principal, Dr. S. Suresh kumar, Professor and Head of the Department, Electronics and Communication Engineering, joined the occasion. 150 students attended the program. The chief guest elaborated on the exclusive benefits that the students and graduate students could gain on acquiring the IEEE membership. He talked about the valuable opportunities open in the IEEE Student Competitions, Scholarships, Awards, Annual Students Meetings and how the association with IEEE serves as a good social as well as an engineering outlet for tech-enlightenment. He elucidated upon the benefits of gaining access to a variety of resources like the IEEE Digital Library, IEEE Xplore Abstracts, Proceedings of the IEEE, eLearning Library, IEEE Potentials Magazine etc. He also informed the students about the discounts they can reap on the membership fee. A year, Department of R. Muthu Kumar, IV vote of thanks.



Magazine etc. He students about the reap on the R. Muthu Kumar, IV IEEE, proposed the

Reported by: Dr. K. Porkumaran and Dr. V. Kumar Chinnaiyan

Dr.Sivanthi Aditanar College of Engineering IEEE SB-61401-Dr.SACOE-Inauguration

IEEE student branch was inaugurated on 22-07-2014 by Mr. Rose Cyril Xavier, Sub Divisional Engineer, BSNL, Nagercoil in the presence of Dr.J.Maheswaran, Principal and Dr.D.David Neels Ponkumar HOD/ECE. Mr.A.Ramesh, IEEE Student Chairman welcomed the gathering. Mr.R.Manjith,AP/ECE explained student benefits of IEEE and explained the student resources available in the platform of IEEE. Mr. Rose Cyril Xavier, delivered a speech on “SECRET OF SUCCESS”. He caught everyone’s attention with his beautiful real-life quotes and experiences. Mr. V.D.M.Jabez Daniel AP/ECE & IEEE student branch counselor introduced the office bearers for the year 2014 and unveiled the proposed annual activities of IEEE student chapter (2014-2015). Mr.G.Samsingh of final ECE proposed the vote of thanks.

Knowledge realization on social development

The seminar was held on 28-07-2014 for final year students of ECE department. Dr.A.Beno, Associate Prof/ECE, Dr.SACOE was the resource person for the seminar. Dr.D.David Neels Ponkumar HOD/ECE inaugurated the seminar. The welcome address and the chief guest introduction were given by Mr.R.Manjith,AP/ECE, IEEE student branch coordinator. The guest invitee delivered the seminar on the topic “Knowledge realization on social development” which motivated the students to do their projects very effectively. Vote of

thanks was given by Mr. V.D.M.Jabez Daniel AP/ECE & IEEE student branch counselor. About 150 students attended the seminar.

Workshop cum training programme on Cadence Software

Two days workshop cum training program on Cadence software was conducted from 01-08-2014 to 02-08-2014 for ME VLSI students of ECE Department. Engineers from VI Microsystems were invited for the workshop to highlight the cadence software under analog and digital domain. The information imparted by them will be useful for the ME students to progress with the ideas rendered by them in their projects. The workshop focused on the applications and the new tools for developing projects using cadence software.

Technical Quiz

A technical quiz was conducted on 8-8-2014 for the second and third year students of ECE department. About 130 students attended the quiz prelims from which 7 teams (14 students) were shortlisted for the second round. The finalist underwent two levels of quizzing which covered the verbal and technical ability. The final selection was based on the score secured by the individual team. K.Ramkumar & S.Mohammed Sherif of III year ECE won the first the prize. The runners were R.Nirmal Ganesh & C.Ananth Babu from III year ECE.

ARM Processor Architecture and Interfacing

The workshop was organized by IEEE Student chapter of ECE Department on 09/08/2014. Mr.R.Manjith, AP/ECE, IEEE coordinator welcomed the gathering. Dr.J.Maheswaran, Principal, Dr.SACOE delivered the presidential address. The resource persons for the workshop were Mr.N.Arumugam, Associate professor and Mr.T.Devakumar, AP (SG), National Engineering College, Kovilpatti They were introduced by Dr.D.David Neels Ponkumar, HOD/ECE. Prof.M.Kamalraj, Secretary, Dr.SACOE, gave the felicitation address. Prof.T.Devakumar and Prof. N.Arumugam explained the theory behind the processor and given hands training. 70 students from various engineering colleges attended the workshop. Vote of thanks was delivered by our IEEE student branch counselor Mr.VDM.Jabez Daniel, AP/ECE.

Aptitude test

Technical Aptitude Test was conducted on 27-08-2014. 110 students from third year ECE Department attended the test. A second round was conducted for the seven selected students from first round. I.Niranjana Mery, A.Kaniston and C.Mukesh were the winners of the test.



St.Xavier's Catholic College Of Engineering Orphanage visit

IEEE members, on August 15, 2014, went to St. Vincent de Paul home for Children at Chellamkonam to celebrate the Independence Day with the children. Under the guidance of our IEEE SB coordinator Prof. A. Darwin Jose Raju and our WIE faculty advisor Prof. A. Subitha, our WIE student branch chairperson Miss. Geethu Sree organized the whole event. They were greeted with smiling faces of the children with their special and lovely welcome song. A formal meeting with a prayer song by Ms. Agnes Miriam, Ms. Femina, Ms. Nirashmi Amal and Ms. Jothi was conducted. Welcome address was given by Ms. Bincy of final EEE. WIE faculty advisor Prof. A. Subitha addressed the gathering. Miss. Anudharini of final EEE gave a patriotic speech. The director of the home Rev. Sister. Jaenavev, addressed the gathering. IEEE volunteers distributed sweets, gifts and tri-colored flags to the children. The children were split into 5 groups and each group was given different games. The games like 'filling up the bottles' and 'spotting the tail' for the primary kids, 'spotting kumkum', 'musical chair', 'screw game' and 'balloon blasting' for the high school kids and 'word game' and 'finding coin from the heaped flour' for the higher secondary level children were conducted. The prizes to the winners of various events were given. IEEE coordinator Prof. A. Darwin Jose Raju, encouraged and lauded the children with his inspirational speech. The vote of thanks was given by Maria Melbin of final IT. The celebrations were supported by the Correspondent Rev. Father. A. Jesumarian and the Principal Dr. S. Joseph Sekhar. Dr. Ramalatha Marimuthu and Mr. Sampathkumar, Mentors.



Reported by: M.V.Drishya

K.S.RANGASAMY COLLEGE OF TECHNOLOGY

IEEE student chapter of K.S.Rangasamy College of Technology organized a guest lecture on “IMAGE SEGMENTATION AND CLASSIFICATION” on 06.09.14 by Dr.S.Md.Mansoor Roomi, Assistant Professor, Dept. of ECE Thiagarajar College of Engineering, Madurai. Mr.P.Navin Karthi from ME VLSI welcomed the gathering. Mr.C.Rajasekaran, Associate Professor, ECE Department, introduced the office bearers. Dr.K.B.Jayanthi, Professor and

HOD/ECE, in her felicitation, briefed about the importance of IEEE students chapter. Dr.K.Thyagarajah, Principal addressed the importance of IEEE students chapter in an Engineer's career. The guest speaker conducted an interactive and informative session on Image Segmentation and Classification. The Image segmentation and thresholding concepts were discussed. In the classification, k-means clustering algorithm was discussed. The vote of thanks was delivered by Mr.M.Krishna Kumar, from ME, Applied Electronics.



Reported by: Mr.C.Rajasekaran, Associative professor/ ECE

INTRA LEVEL TECHNICAL SYMPOSIUM

IEEE student chapter organized a one day intra level technical symposium on 04.09.14. Mr.C.Rajasekaran, Associate Professor welcomed the gathering. Dr.K.B.Jayanthi, Professor and HOD/ECE, briefed about the importance of technical symposium and the responsibility of the students in paper presentation. Dr. K.Thyagarajah, Principal of KSRCT, delivered the presidential address. Out of the received 30 papers 10 papers were selected for the presentation. Mr.S.Saravanan, Assistant Professor of ECE served as jury for the paper presentation. The vote of thanks was delivered by Mr.M.Krishnakumar, ME, Applied Electronics.



Reported by: Mr.C.Rajasekaran, Associative professor/ ECE

ASSISTIVE TECHNOLOGY FOR OUT OF SYNCHRONOUS SOCIETY

IEEE-WIE students chapter organized a one day guest lecture on 23.08.14 by Dr.Ramlatha Marimuthu, Professor & Head, Department of Information Technology, Kumaraguru College of Technology, Coimbatore. Ms. K.G.Lavanya, ME VLSI welcomed the gathering. Ms.M.Nirmala, Assistant Professor, ECE department, introduced the office bearers. Dr.K.B.Jayanthi, Professor and HOD/ECE, explained the importance of IEEE-WIE and also the importance of women's in engineering world. Dr. K.Thyagarajah, Principal of KSRCT, addressed. The guest speaker, Dr.Ramlatha Marimuthu, conducted an interactive and very informative session on Assistive Technology for out of synchronous society. The seminar covered the following aspects: how women can be included in designing field, since many of the assistive technologies are used by women. The vote of thanks was delivered by Ms.B.Sowmiya Preethi, ME, Applied Electronics.



Reported by: Mr.C.Rajasekaran, Associative professor/ ECE

INTRA LEVEL TECHNICAL SYMPOSIUM

IEEE students chapter organized a one day intra level technical symposium on 04.09.14. Mr.C.Rajasekaran, Associate Professor welcomed the gathering. Dr.K.B.Jayanthi, Professor and HOD/ECE, briefed us about the importance of technical symposium and the responsibility of the students in paper presentation. Dr. K.Thyagarajah, Principal of KSRCT, addressed. 30 papers were and short listed 10 papers for the presentation. The jury of this session was Mr.S.Saravanan, Assistant Professor of ECE. The vote of thanks was delivered by Mr.M.Krishnakumar, ME, Applied Electronics.

Reported by: Mr.C.Rajasekaran, Associative professor/ ECE

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KONGU ENGINEERING COLLEGE SPAve 2K14

SPAve 2K14 an inter- department technical function was organized by IEEE/WIE student branch on 20th September 2014. Welcome address was given by P.Veija Krishna, Additional Treasurer. Prof. V.R.Saraswathy, Staff Co-coordinator presided over the function. Paper presentation and Project presentation was conducted in the morning session. Find the bug program was conducted to test the programming knowledge. Scratch your mind program was conducted to evaluate the technical knowledge in the core field. In the event Connectronics participants had to identify the technical word imparted in the picture. Robo Soccer and Line Follower events were conducted. Prof. K.Narayanan, Branch Coordinator distributed the prizes to the winners. Ms Vinodha, Additional Treasurer proposed the vote of thanks.



Reported by: S.Bhudusha.

AMIRITA SCHOOL OF ENGINEERING
Emerging Perspectives in Nanoelectronics R &D.

The seminar was conducted on 19th September 2014. Dr. B. Bala Tripura Sundari, coordinator of the seminar welcomed the gathering. Dr. M. Jayakumar, Chair and Chairman ECE, Dr. Shantanu Bhowmik, Head Research, Prof. Gangadharan K., and Prof. Dr. P.N. Kumar, Professors, Department of CSE, addressed the gathering. 65 participants attended the program. G. Anand Kumar, Systems Engineer, Texas Instruments gave a talk on Ferroelectric RAM Technology and Microcontrollers. Dr. T. Rajagopalan gave a talk on Electronic Materials: Science and Technology. Sidda Reddy Kurakula, Technical Manager, Applied Materials (P) Ltd. Bangaluru, delivered a talk on Manufacturing at Nanoscale. Dr. Sanjay Deb, Bannariamman Institute of Technology, delivered a talk on Overview of Nanoscale Transistors: Past, Present and Future. Dr. Ram Subramaniam Komaragiri, NIT, Calicut, delivered a talk on Multigate MOSFETs. Dr. T. Rajagopalan gave vote of thanks.

Dr. N.G.P. INSTITUTE OF TECHNOLOGY

Off Grid Solar PV System Design and Installation

The Department of Electrical and Electronics Engineering the workshop on 22.9.14. Dr. Thavamani D Palaniswami, Secretary presided over the function. Dr. V. Kumar Chinnaiyan, Professor and Head welcomed to the gathering. Dr. O. T. Buvaneswaran, CEO, felicitated the gathering. Dr. K. Porkumaran, Principal, motivated the students. The workshop was designed for better understanding of the Solar energy as a clean alternative energy source and to know about the Cleantech Industry as well as associated design and installation challenges.



The workshop threw light on the possibilities of off-grid homes by harvesting the solar power and handling of multiple inputs like wind energy and diesel generators for true off-grid living. An elaborate insight about the Off-grid PV system design and installation -Determination of Power Consumption per day, Types of Solar Modules, Manufacturing of a Solar Module, Key Performance Indicators, Sizing the charge controller, Types of Inverters and their Manufacturing, Sizing the Batteries, **Mounting** Sequences which includes connecting batteries to the charge controller, PV panel to the charge controller and loads to the charge controller was given.

Report by: Dr. K. Porkumaran, and Kumar Chinnaiyan

KONGU ENGINEERING COLLEGE

FEITEN

A technical symposium FEITEN was organized by IEEE/WIE student branch on 06th September 2014. V.Vettrivel, Treasurer welcomed the gathering. The first event AMAZONICO in which the students were asked with various questions related to amazing scientific facts in day to day life. Six teams participated in the 3D LOGO QUIZ. The participants were asked identify the logos of various companies. The next event SPIEL FAKTEN in which the participants were asked questions relating current sports facts. The winners were awarded with prizes.



Reported by: S. Bhatiusa

SRI RAMAKRISHNA ENGINEERING COLLEGE

AWARENESS PROGRAMME ON ENGINEERING EDUCATION FOR SCHOOL STUDENTS

The IEEE Student Branch and WIE student Affinity Group of Sri Ramakrishna Engineering College jointly organized an awareness programme on 26th August 2014. Student Branch Chairperson C.S.Ajai Kumar welcomed the students, Dr.N.R.Alamelu, Principal, SREC and Chairman, IEEE Madras Section delivered the presidential address, Dr.B.Mathivanan, Associate Professor, Department of CSE gave a talk about "Pleasure in Engineering" and Dr.M.RM.Krishnappa, Associate Professor, Department of Physics, gave a talk about "Engineering for You" and Miss R.Brindha, Assistant Professor, Department of English, gave a talk about "SREC – A Bridge, A Ladder and Everything". The students from various schools in Coimbatore were participated. The main objective of the awareness program was to make the students to

get introduced with the Engineering and its future. The Vote of Thanks by A.Vijayalakshmi, Chairperson-IEEE WIE.



Reported by: K. Balamurugan, AP/EEE.

STUDENT MENTAL HEALTH: ISSUES AND SOLUTIONS

The IEEE Student Branch the program on 1st of September 2014. The chief guest was *Dr.S.Ananth, Consultant Psychiatrist, Sri Ramakrishna Hospital, Coimbatore*. About 150 students attended. The Welcome address was given by Dr.S.Allirani, Associate Professor, Department of EEE and introduced the chief guest. The felicitation was given by Prof.S.P.Rajkumar, Professor and Head, Department of EEE. The Chief guest discussed about the mental health. Both physical and mental health change throughout our lives. Like our bodies, our minds can become unwell. Mental health problems are more common. **One in four of us are** affected by mental illness. Learning about mental health issues can lead to an improved recognition of early signs of mental health problems, earlier treatment, greater understanding and compassion. The vote of thanks by Dr.C.Kathirvel, Associate Professor, Department of EEE.

Reported by: K. Balamurugan, AP/EEE.

TECHNOLOGY AND ENGINEERS

The IEEE Student Branch organized a three day Workshop on “TECHNOLOGY AND ENGINEERS” (BRIDGING THE GAP) in association with Sunshiv Electronics, Coimbatore 4th to 6th September 2014. The Workshop was inaugurated by the Chief Guest Mr.S.Sundaramoorthy, Managing Director, Sunshiv Electronics, Coimbatore. Dr.N.R.Alamelu, Principal of Sri Ramakrishna Engineering College, delivered the presidential address and Prof.S.P.Rajkumar, Head of the department, welcomed the gathering. Around 152 participants registered for the Workshop and the whole program was co-ordinated by Prof.

K.Balamurugan, IEEE Student Branch Counselor and Assistant Professor (SG), Department of EEE. The objective of the program is students have to explore in PCB Design, CAD, Circuit Analysis and Microcontroller.



Reported by: K. Balamurugan, AP/EEE.

Dr. N. G. P. Institute of Technology

Grid Synchronization of Distributed Generation Systems

The IEEE student branch and the Department of Electrical & Electronics Engineering, organized a guest lecture on 23rd of August, 2014. Dr. Thavamani D Palaniswami, Secretary presided over the function. Dr. V. Kumar Chinnaiyan, Head of the Department, Electrical and Electronics Engineering welcomed the gathering. The CEO, Dr. O. T. Buvaneshwaran felicitated the gathering. Dr. K. Porkumaran, the Principal, also spoke. The chief guest of the day was Dr. Chitti Babu Baladhandautham, Post Doctoral Research Fellow, Institute of Electrical Power Engineering, Wroclaw University of Technology, Poland. He has over ten years of experience in this field. His primary research interests are in control and grid integration, grid synchronization algorithm for distributed generation of renewable energy systems. He explained about the wind power and its potential that can be harnessed to meet the current energy demands, while emphasizing on the importance of the renewable electricity to displace fossil fuel powered electricity from the grid. He gave an elaborate lecture on the basic concepts of wind power generation, converter topologies for wind power generation, power electronics control for wind power generation and grid synchronization algorithms. With detailed description of the wind generator he laid focus on the interconnection of the generators with the grid and the problems associated with it. He highlighted the use of power electronics in the circuitry and their applications. He also presented about the challenges that are largely related to the variable nature of the wind energy like wind speed, direction which change by season, day, hour and minute, and various ways of limiting the power when the wind speed exceeds the rated value. Finally, R. Santhya, Assistant Professor, Department of EEE, delivered the vote of thanks.



Newsletter of the IEEE Madras Section
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