Electrical Passion Interactive Cultural Society

EPICS

Newsletter

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DEPARTMENT OF ELECTRICAL ENGINEERING
G.H.RAISONI COLLEGE OF ENGINEERING, NAGPUR 440016
(An Autonomous Institute under UGC Act and affiliated to R.T.M. Nagpur University)

Department Vision

- To achieve excellent standards of quality education by keeping pace with rapidly changing technologies.
- To create technical manpower of global standards in electrical engineering with capabilities of accepting new challenges.

Department Mission

- Our efforts will be dedicated to impart quality and value based education to raise satisfaction level of all stake holders.
- Our strength will be directed to create competent professionals in electrical engineering.
- Our endeavor will be to provide all possible support to promote research & development activities.

Programme Educational Objectives

The educational objectives of the electrical engineering programme are designed to produce competent engineers who are ready to contribute effectively to the advancement of electrical engineering causes and to accommodate the needs of the profession. The graduates shall:

1. Practice electrical engineering in the general discipline of generation, transmission and use of electrical power.
2. Satisfy the needs and requirements of stake holders and society through development of unconventional power sources.
3. Pursue higher education and work for research and development during professional career.

Program Outcomes

The programme is targeted at developing the following competencies, skills and abilities amongst students. They shall be able to:

1. Acquire an ability to apply knowledge of mathematics, basic sciences and develop skills and core electrical engineering skills consistent with the defined and applied engineering procedures, processes, systems or methodologies.

2. Identify, formulate, study literature, and analyse broadly-defined engineering problems in reaching substantiated conclusions using analytical tools appropriate to electrical engineering.

3. Demonstrate to design solutions for broadly defined electrical engineering problems and contribute to the design of systems, components or processes to meet specified needs keeping in view public health, safety, cultural, societal, and environmental considerations.

4. Conduct investigations of broadly defined electrical engineering problems, locate, search and select relevant data from codes, databases and literature; design, conduct experiments, test to provide valid conclusions having appropriate techniques and modern tools.

5. Demonstrate understanding of the health, safety, legal and cultural issues and the consequent responsibilities relevant to electrical engineering / technology practice.

6. Understand the impact of electrical engineering solutions and demonstrate knowledge of and need for sustainable development having norms of electrical engineering practice/electricity code and code of conduct as defined by professional societies like IEEE in ethical ways.

7. Function effectively as an individual and as a member or leader of team in diverse technical teams.

8. Communicate effectively on broadly defined electrical engineering activities with the engineering community, and with society at large, by being able to comprehend and write effective technical reports, design and prepare documentation, make effective presentations and give and receive clear instructions.

9. Demonstrate knowledge and understanding of engineering management principles, finance and project management and apply the same to one’s own work and to manage projects in multidisciplinary environments as a member and leader in a team.

10. Recognise the need for, and to engage in, life-long learning in electrical engineering and allied domains to keep pace with rapidly changing technology.

BOS Meeting 2014, Electrical Engg. Department, GHRCE, Nagpur

The meeting of the **Board of Studies** (Electrical Engineering) for the session 2013-14 was held on Tuesday, 5th Feb 2014 at 10:30 am in the Department of Electrical Engineering. The meeting was presided over by Dr.P.M.Daigawane, the Chairman, BoS (EE).The panel of academic expertsincludeDr.A.R.Abhyankar,IIT,Delhi,Dr.H.M .Suryawanshi,VNIT,Nagpur,Industry expert Mr.S.Shrikhande,GM, Abhijeet group, Nagpur ,Mr.D.N.Gupta, GM, JSW Ispat Industries Ltd.Kalmeshwar.Amongfaculties(Dr.)S.G.Tarnekar, Prof.H.S.Dalvi, ,Prof. K.D. Joshi, ,Prof. J.G. Chaudhari, Prof. P.P. Jagtap, ,Prof. V.P. Rajderkar,Prof. R. H. Adware, ,Prof. A. A. Patil, alumni representative and students members were also present. Professor Diagawane welcomed all the members of the Board and introduced them to each other. The agenda of the meeting was discussed in detail .The agenda includes Confirmation of previous meeting, Approval of PEOs of the undergraduate program, Approval of course objectives and outcomes Review & approval of new Proposed scheme for UG (EE),Embedding one Semester Industrial Internship in VIII Sem , Review &approval of list of paper setters/moderators/valuers/external examiner for practical subjects &dissertation of M.Tech.(IPS)-Autonomy scheme and likewise. Lastly vote of thanks was given by BOS chairman and the meeting was concluded.

NBA Nodal workshop-Phase-I attended by Faculty of Electrical Engineering Department

Prof.V.P.Rajderkar & Prof.M.S.Singh attended a workshop on "Outcome based Accreditation process & parameters" for stake holders, evaluators & master trainers on 3/2/14 organized by G.H.Raisoni College of Engineering,Nagpur.

Dr.P.R.Bajaj,Director of the institute was the resource person for this worshop. Dr.A.Koteshwara Rao, Dr.A.Abudhair were the main speakers.

The workshop was started with how to frame the vision & mission of the institute, based on which the department's vision & mission was to be designed. This is followed by the stress on why the PEO's & PO's have to be in line with the GA's (Graduate Attributes) which have been taken from Washington Accord. From the PEO's & PO's, CO's are drawn for the curriculum.

The programme was compared by Dr.L.G.Malik.

Guest Lecture on "Smart Grid" organized by Electrical Engineering Department

A Guest Lecture on "Smart Grid " by A.R. Abhyankar was organized on 5/2/14 for 8th Sem BE and 2nd & 4th Sem M.Tech (IPS) students of

Electrical Engineering Department. About 150 students were present.

Dr. A.R. Abhyankar is Assistant Professor in IIT, Delhi. His research areas include: Power System Restructuring Issues, Power System Analysis and Optimization..He elaborated the need for smart grid in recent times. This was followed by and interactive session where the students asked many questions regarding grid restructuring.

Guest Lecture on "Power System Stability" organized by Electrical Engineering Department

A Guest Lecture on "Power System Stability" by Dr.D.Tukaram was organized on 1/2/14 for 2nd & 4th Sem M.Tech (IPS) students and Faculty of the Electrical Engineering Department.

Dr.D.Tukaram is Professor at IISc, Bangalore. He is member of many professional societies like IEEE, IEE, etc. He is Visiting Faculty at Asian Institute of Technology, Bangkok. His research areas include: Artificial Intelligence (AI) techniques in Power Systems, Energy Management Systems (EMS), Reactive Power Control, Distribution Automation, De-regulated Power Systems, Voltage Stability, Transients in EHV system. During this lecture Prof.Tukaram made the audience aware of the restructuring of Power System using FACTS devices.

The programme co-ordinator was Prof.J.G.Chaudhari. Vote of thanks was proposed by Prof.H.S.Dalvi.

Workshop on Applications of PLC & SCADA organized by department of electrical engineering

Two days workshop on Applications of PLC & SCADA is organized by department of Electrical Engineering of GHRCE. This workshop is organized for students of six semesters. This workshop is held on 28-Feb & 1-Mar-14 in GHRCE. Around 95 students of 6th Semester had attended the workshop. This workshop is organized by department of Electrical Engineering of GHRCE, & students from Electronics Telecommunication Engineering Department of, GHRCE also take benefit of this workshop.

Inaugural speech is given by head of the department and then workshop has been started in F-21 hall after 2hrs presentation practical session has been conducted. Each practical session is of 3 Hrs in two days. Practical session and Theory session both ware conducted by senior manager of Er. Nirin Wakde from Orancity Water Co.

In practical session students had performed practical on PLC available in electrical department. All the faculties of department had taken benefit of this workshop.

Department of Electrical Engineering has organized Faculty Development Program on PLC & SCADA

Department of Electrical Engineering has organized Faculty Development Program on PLC & SCADA on 15 Feb 2014 in department. All the faculties of department have taken advantages of this program.

This program has been conducted by Prof P.R.Sawarkar under the Guidance of Head of the department. This session was very fruitful for teaching and nonteaching faculties of the department.

This session was started with presentation on PLC & end with practical session on PLC. Every faculty had make their own project in PLC.