



IEEE – India AES / Com / LEO Societies Chapters
IEEE – Hyderabad PE/IA Societies Chapter
IEEE – Hyderabad Computer Society Chapter
IEEE – Hyderabad MTT/AP/EMC Societies Chapter
&
IEEE Hyderabad Section

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ALL INDIA STUDENT PROJECT CONTEST – 2009

Eligibility : The contest is open to all IEEE Student Members in India.

Scope : Technical area of the project must be within the IEEE-AES Soc or IEEE-Communications Soc or IEEE Computer Soc or IEEE PE/IA Soc or IEEE MTT/AP/EMC Soc fields of interest. Within the framework of IEEE, fields of interest of Aerospace and Electronic Systems Society (IEEE AESS Soc) cover the organization, design, development, integration and operation of complex systems for space, air, ocean or ground environments. These systems include, but are not limited to, navigation, avionics, spacecraft, aerospace, power, radar, sonar, telemetry, defense, transportation, automated testing, and command and control.

The field of interest of IEEE Communications Society (IEEE COMM Soc) span of all aspects of telecommunications including the theory and use of systems involving all types of terminals, computers, and information processors; all pertinent systems and operations that facilitate transfer; all transmission media; switched and unswitched networks; and network layouts, protocols, architectures, and implementations.

The Field of Interest of IEEE Lasers Electro-Optics Society (IEEE LEOS) include all aspects of lasers, optical devices, optical fibers, and associated light-wave technology and their applications in systems and subsystems in which quantum electronic devices are key elements.

The fields of interest of IEEE Computer Society (IEEE COMP Soc) include all aspects of computer science, computer engineering, technology and applications.

The fields of interest of IEEE Power and Energy Society (IEEE PE Soc) include advanced concepts, technologies, applications and practices associated with all aspects of electric power.

The fields of interest of IEEE Industry Application Society (IEEE IA Soc) include the advancement of the theory and practice of electrical and electronic engineering in the development, design, manufacture and application of electrical systems, apparatus, devices and controls to the processes and equipment of industry and commerce; the promotion of safe, reliable and economical installations; industry leadership in energy conservation and environmental health and safety issues.

The fields of interest of IEEE Microwave Theory and Techniques Society (IEEE MTT Soc) include all aspects theory and applications of RF, microwave, millimeter-wave, and terahertz technologies.

The fields of interest of IEEE Antennas and Propagation Society (IEEE AP Soc) include all aspects experimental and theoretical advances in antennas including design and development, and in the propagation of electromagnetic waves including scattering, diffraction and interaction with continuous media; and applications pertinent to antennas and propagation, such as remote sensing, applied optics, and millimeter and sub-millimeter wave techniques.

The fields of interest of Electromagnetic Compatibility Society (IEEE EMC Soc) is on engineering related to the electromagnetic environmental effects of systems to be compatible with themselves and their intended operating environment including standards, measurement techniques and test procedures, instrumentation, equipment and systems characteristics, interference control techniques and components, education, computational analysis, and spectrum management, along with scientific, technical, industrial, professional or other activities that contribute to this field.

Project : The student project may typically be an under-graduate project, or post-graduate thesis or project in any one or more of the above fields. For purpose of the present contest, the project must result in a product, either hardware or software such as a simulation package / tool. The work must be that of a single student or a group not exceeding four students.

Submission: A technical paper containing a description of the project/product and the results obtained along with photographs, if any, should be submitted to the Project Contest Coordinator on or before 28th May 2009. The style and format of the paper may broadly follow the pattern of an IEEE publications paper, and about 8-pages long. Electronic submission in pdf format is required to facilitate publication of selected entries in a CD-ROM.

Evaluation : A panel of judges will evaluate the entries on the basis of concept, creativity, technical content and presentation. Contest entries will be separately judged in the under-graduate and post-graduate categories in each of the specified fields. Authors of the best four entries in each field and in each category (viz., under-graduate and post-graduate including research scholars) will be invited to demonstrate their product and make a technical presentation at a special function to be arranged in Hyderabad by the IEEE during July 2009. Travel expenses for all selected authors will be borne by the IEEE. Following this presentation, projects in will be selected for first and second prizes in each category and in each field.

Awards : First prize in each field and in each category is a cash award of Rs.20,000 and a Certificate. The second prize in each field and in each category is a cash award of Rs.10,000 and a Certificate. The faculty supervisor /adviser of each award winning projects will be presented a Certificate of Recognition and his/her IEEE membership dues, including membership in the appropriate IEEE Society, paid for the year 2010.

Project Contest Coordinators:

Dr. M.B. Srinivas,
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AES Student Project Contest – 2006 results

First Prize:

'Autopilot Development for Mini UAV: Hardware-Software Co-Design', by Mohit Mangal, Mohit Mundhra, Gaurav Gupta & Shobhit Niranjana,
Indian Institute of Technology, Kanpur.

Second Prize:

None qualified.

Certificate of Merit:

'Design and Fabrication of Automatic Tyre Inflating System' by J Guru Prasad, D Harikrishna, S Rajesh & D Saravana Sunder,
Sona college of Technology, Salem, Tamilnadu.

Certificate of Merit:

'Advanced Step in Mars Exploration', by TV Abdul Anas Monsha, CS Anooob & CA Ameersiraj,
Sri Natayana Gurukulam College of Engineering,
Kolenchery, Kerala.

AES Student Project Contest – 2007 results

Second Prize:

'Voice Controlled Car' by Roshan Roy & Sachin Mathew Tharakan,
Model Engineering College
Kochi, Kerala.

Student Project Contest – 2008 results

First Prize (AES area):

'Vehicle Positioning and Navigation System Using GPS and GSM', by V Vamsi Krishna,
Sri Ram Sarma, Lava Kumar Y & Srihari,
Vignana Bharathi Institute of Technology, Hyderabad

Certificate of Merit (CS area):

'Design, Simulation And Hardware Implementation Of UPFC' by J.Veeramani,
B.Vijay Anand, Sri Muthukumaran Institute of Technology, Chennai