

# Science Project Exhibition and Competition for School Students

29<sup>th</sup> – 31<sup>st</sup> October 2010



## Event Structure, Rules and Guidelines

## About ABV-IIITM Gwalior

Atal Bihari Vajpayee – Indian Institute of Information Technology & Management Gwalior (ABV-IIITM Gwalior), a deemed university, is an apex Institute established by the ministry of HRD, Government of India. ABV-IIITM Gwalior strives to become the world-class institution, thereby contribute towards research and education producing technology and business leaders. It integrates management as a concept with technology as a platform to create a synergic approach for solving emerging industry problems.

The institute has been accorded the statues of autonomous university and conducts its own examinations awards degrees at masters and doctorate levels. The institute is built on a 160-acre campus on the foothills of Gwalior Fort. The networked smart campus is self contained with all basic facilities for all round development of students' personality.

The institute is a dynamic source of intellectual energy with strong connection to the business world, its focus being on collaborative efforts like flexible curriculum design, curriculum delivery, mentoring of students by professionals from the corporate world, summer internship projects and final placements.

The Institute's core faculty consists of well-known, diverse and talented professionals. In addition, adjunct and visiting faculty, from the industry and from other top academic institutions and research organizations, contribute to keep course delivery abreast with the latest developments keeping in view the requirements of the professional world.

## About Infotsav

Infotsav is the annual technology and management festival of IITM Gwalior. This unique confluence of IT and Management aims to put to the test of mental acumen and alacrity of the students, helping them to gear up for future corporate battles. Infotsav provides an excellent opportunity for students to interact with their peers and the best minds from the Indian Business and Technical community. The focus of Infotsav is on providing a competitive atmosphere and bringing out the best in students by giving them an incentive for excellence.

Infotsav intends to provide a conducive platform for students from various technical and management institutes across India to compete among themselves on the myriad of technical as well as management events.

In this event the students become aware of new emerging fields of researches going on in academia and industry, thus encouraging them to find relevant areas of research and to apply their expertise through the medium of various relevant competitions held during Infotsav.

Infotsav will comprise of technical and management events which will be of both competitive and challenging in nature. Infotsav expect increased participation from engineering colleges and B-schools. In addition to having separate events for technical and management fields, there will also be some challenging and noble events that will test both the technical and management prowess of the participants simultaneously.

## About Science Exhibition and Competition:

Young minds are always full of fresh ideas and to ensure a continuous development of the society it's very important to Nurture these ideas. This is what Infotsav'10 with its theme Nurturing Novelty aims to succeed in. A national level SCHOOL science exhibition is going to be organised, for the first time by any IIT in the country, under Infotsav'10 to hunt for talented young minds of the country and to reward their innovativeness.

### General Guide Lines for the Event:

- Event will be organized on 29<sup>th</sup> & 30<sup>th</sup> of October.
- Prize money:
  - First prize: ₹ 4000
  - Second prize: ₹ 2000
  - Third prize: ₹ 1000
- Team size:
  - Only students from 9<sup>th</sup> to 12<sup>th</sup> standard are eligible.
  - A school can send a maximum of 3 teams.
  - Maximum 3 students and 1 faculty mentor per team.
- Last date of confirmation is 15<sup>th</sup> of October, 2010.
- Registration fee for the event is Rs.150/- per team.
- Every team will be provided an Infotsav Kit for free.
- School have to send a confirmation before 15<sup>th</sup> October 2010 so that the proper arrangements can be made.
- Confirmation can be made through email, post, telephone or through our online registration portal.
- The winning projects will become the property of the institute.

- In case of any misleading finding or the use of unfair means related to your project, if found, will lead to immediate disqualification of the concerned team.
- Your stay at ABV-IIITM Gwalior will be free of cost. Food (breakfast, lunch and dinner) will also be provided by Team Infotsav.
- Lodging & food will be provided from the 28<sup>th</sup> night to the 30<sup>th</sup> night.
- Separate hostels will be provided to boys and girls.
- No travel allowances will be provided.
- The decisions of the judges will be final and binding.
- Various workshops/seminars, quizzes, events and interactive sessions with eminent personalities from academics/industry related to technologies as well as management will be organized for nurturing the young minds of the school students. The students can participate in these and learn a lot of new things.
- National level participation certificates will be provided to all the team members.
- A lot of other Infotsav'10 goodies and gifts are also up for grabs for the students who show a lot of enthusiasm in the different events.
- For any queries feel free to the contact us. Contact numbers are given on the back page.

## **Guidelines Related to the Project:**

- Model can be working as well as non-working.
- The model should be accompanied by project report which may comprise of the following:
  - Description about the theory, concept or principle.
  - A chart on the project.
  - List of the components used.
  - Instructions on working of the project (if applicable).
  - Application of the project in real world.
- Language of the instructions can either be in English or Hindi.
- Marking Scheme:
  - Model/Setup (Working or Non-Working) 30%
  - Creativity and innovation 25%
  - Scientific thought/principle/approach 25%
  - Charts and Project Report 10%
  - Presentation-Explanation and demonstration 10%

## **Main Theme: Science and Society**

### **Sub-Themes:**

- Science in Everyday Life
- Harnessing and Conserving Energy

**Note:** The importance of every sub-theme in the context of main theme and a number of suggestions for designing the exhibits/projects are given below. However, these ideas are only suggestive. **Participants are free to develop exhibits based on other related ideas of their choice.** New ideas and innovative projects will be appreciated.

## Sub-Theme 1:

# **Science in Everyday Life**

Science has become a part of our Day to Day life. We can't imagine a day without having Science based equipments helping us in our activities. Some examples for the project development are given below. Students are appreciated to think new and innovative ideas.

- Construct and explain the working of Burglar Alarm systems
- Make models on Rain Alarms, Photocopy Machines, Vacuum Cleaners and other equipments used in our day to day activities.
- Construct and explain the working of Rain Water Harvester and other such devices which conserve water etc.
- Water Purification systems and other pollution control systems.
- Use of eco-friendly and innovative devices that may help in combating climate change.

## Sub-Theme 2:

# **Harnessing and Conservation of Energy**

Everything we do today requires some form of energy to function be it Petrol to run your cars or Cells and Batteries to run your Mobile Phones, Laptops etc. Finding new sources of energy whilst conserving and developing those which we already have are very important. Some examples for the project development are given below. Students are appreciated to think new and innovative ideas.

- Demonstrate how to harness energy from different raw materials like Flowers, Potatoes and Lemons etc.
- Make models and explain the working of Energy conservation utilities like Auto Switch Off of Lights and Fans when someone leaves the room etc.
- Harness renewable sources of energy using Wind Mills, Solar Cells etc.
- Construct and explain working of DC/AC motors etc.
- Energy from biomass, Improved designs of biogas/biomass plant
- Solar thermal electricity/community solar project
- Innovative designs of solar cooker/solar distiller/solar dryer for food processing/solar heated houses.



# Contact Us:

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## Website:

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ABV-IIITM Gwalior  
presents  
its annual techno-management fest

# Infotsav 2010

presenting...

October 29 - 31

nurturing novelty...

a science project exhibition cum competition



ONLY FOR SCHOOL STUDENTS

Last date of sending  
confirmation



October 15, 2010

1<sup>st</sup> Prize - ₹ 4000/-  
2<sup>nd</sup> Prize - ₹ 2000/-  
3<sup>rd</sup> Prize - ₹ 1000/-



THEMES  
• SCIENCE IN EVERYDAY LIFE  
• HARNESSING AND CONSERVING ENERGY

- NATIONAL LEVEL QUIZ competition
- First time in the history of IIITs
- A lot of Infotsav goodies and gifts to be won
- Participation certificates to all



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