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Aavishkaar is the annual technical fest conducted by IEEE MSRIT Student Branch. It was started in the year 2004 by the first IEEE MSRIT executive committee. It was considered to be one of the best and most competitive events that year.

Ever Since, Aavishkaar has been a popular event at MSRIT drawing a large number of students from many colleges in Bangalore and other cities including the NIT's and IIT's

This year, with Aavishkaar 2010, IEEE MSRIT Student Branch again aims to provide a platform for Students from technical backgrounds to compete in a number of exciting events to earn prizes and most importantly gain recognition among their peers.

ALL the tickets for events and workshops have to be blocked online and the payment has to be made at MSRIT AAVISHKAAR's Registration Desk

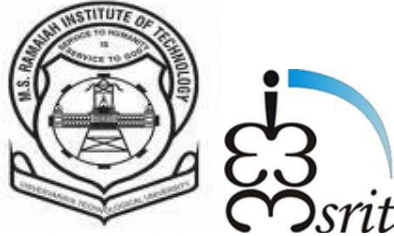
Block tickets: <http://aavishkaar2010.eventbrite.com/>

Events:

- ALGOMACH(On spot Programming)
- Design & Debugging
- Robotica(robotics)
- *Cyber Treasure Hunt*
- *Gaming*
- *8051 Programming*
- Paper Presentation
- Tech Quiz
- Product Design

Entry Fee for Event: Rs 30/-

Gaming and CTH: Rs. 50/-



Workshops: (fees mentioned below)

- Ethical Hacking an information security
- Photoshop and Designing
- Robotics (IP controlled robot)

For more details Check follow us on facebook :

<http://tinyurl.com/aavishkaarfb>

Algomach (On spot Programming): Commonly known as OSP, this event is the staple event of technical fests all over the world. Programmers must design programs to solve problems within a short time span. The preliminary round will be a written round which will test the basic programming skills. In final round the teams must code hands on. The code will be automatically Judged by an electronic evaluators. Practice round started at www.algomach.co.nr/onj

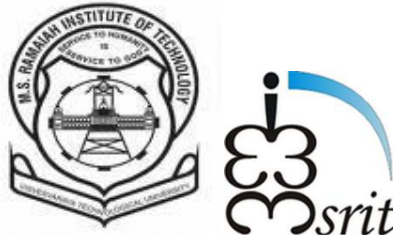
Design and Debugging: Contestant will be given a set of problems and they will have to solve it by designing a new circuit or debug existing hardware. This event will be conducted in two rounds, one written and another the live round with Hardware provided.

Robotica: This event challenges building robotics engineers and their ability to implement their ideas. This event will host a set of challenges to test the participant's robot. The participants are required to build and bring their own robots to the competition. The description of the event and the specifications of the robot will be uploaded on fest website one week prior to event.

8051 Programming: The event requires the participants to do code on 8051 μ c. Consists of two rounds.(prelims and finals)

Cyber Treasure Hunt: This event tests the participants' ability to solve problems and puzzles while they make their way through a sequence of web pages that provides the next challenge. Participants can take part individually or in teams of 2. Team/individual who is able to complete the entire set of obstacles in the fastest(or one who is fastest along 90 mins) wins the event.

Gaming: Aavishkaar 2010 will feature three games Counter Strike (team game) FIFA 2009(solo event) and Need for Speed Most Wanted(Solo event). As a less formal event, it draws interested gamers from all walks to showcase their skills against other gamers. The event is run in an elimination system, until the top two teams/players battle it out for the ultimate glory. Inauguration



Paper Presentation: Technical Papers describing original research contributions are solicited. Submissions must not be concurrently under review by a conference, journal or any other venue that has proceedings. The paper should be intelligible and self-contained within 10 pages including references and appendices. The submissions will be judged on originality, simplicity, clarity of objectives, review of existing literature, methodology, findings and analysis, conclusions, applications and limitations.

Tech Quiz: Aavishkaar's Tech Quiz has 5 rounds of intense quizzing, a challenge to your knowledge of the tech world. Tech quiz is one of the favourite events of all engineering students and is a crowd puller. It regularly requires some passionate quizzing. This event is guaranteed to be very interesting, very competitive and lots of fun for participants and audience alike.

Product Design: The participants will be given an imaginary situation/scenario, for which they are expected to come up with an innovative product. They will have to submit their idea in writing, explain in detail, the innovativeness and the importance of the idea with relevance to the given scenario. The scenario may require them to either develop a product completely from scratch or may involve only innovative improvisation on an already existing idea

Workshop:

Workshop duration/date

9am to 6pm - Saturday, 24th of April, 2010

Workshop fee:

INR 450/Person (All inclusive) – students (I-card required)

INR 550/person (All inclusive) - Professionals

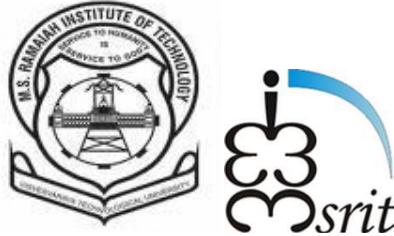
Certificate:

Certificate of participation will be provided by organizers at the end of the workshop.

Workshop topics and content

Introduction

- Interface and workspace overview -Important toolbar and basic menu
- Document basics (creating, saving, opening, resizing etc)
- Manipulating and navigating in the workspace
- Setting up keyboard shortcuts
- Different windows and how to open and stack them
- Overview of toolbars



- Overview of menus
- Introduction to composition and layers
- All about filters

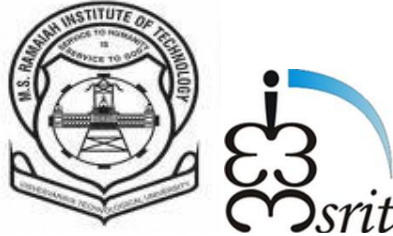
Working with images

- What is image resolution? and DPI basics
- Vector and raster images and their differences
- Transforming images – scaling, skewing, warping etc.
- Selection basics – different selection methods (marquee, magic wand, polygonal lasso etc)
- Working with selection – manipulating and saving them
- Understanding colour – hue, saturation and value
- Correcting images – brightness and contrast
- Correcting images – tones and exposures
- Correcting images – curves and levels
- Erasing portion of images
- Converting images into various type – sepia, black and white etc.
- All about clone tool
- Using clone tool to restore old photograph
- Fun with various filters and effects
- All about brush tool
- Different type of brush and its settings
- Fill tools

Advance Photoshop techniques

- All about path tool
- Saving and naming path tools
- Selecting and manipulating path tool
- Using paths – stroking and converting into selection
- All about layers and blending modes
- Layer based composition and its advantages
- Text tool & Using layer style for 3d effects
- Various layer styles and its usage
- Creating custom brushes
- Layer properties
- A practical example of layer based composition
- Colouring a b/w photograph
- Q and A
- conclusion

Distributions



Adobe cs4 trial version (30 days) and exercises will be made available in DVD/CD/Copy to all the participants prior to workshop.
Personal laptops are recommended to take full advantage of the workshop; not mandatory though.

Ethical Hacking workshop

Entry Fee: Rs. 1200/- per student

IEEE IITRoorkee presents you I-Fest, a platform for engineering geniuses across the globe to showcase their intellectual might. The fest aims at bringing together the engineering virtuoso and the industrial wizards for the upsurge of science and technology. Now distances can't hold you back from competing with the best of technical geeks as we are planning to conduct series of **workshop** for school and college students in collaboration with **Kyrion Technologies Pvt. Ltd our training partner on Ethical Hacking & Information Security** so sharpen your skills and get ready to be a part of this battle of ignited minds. We are looking forward to your college for conducting the workshop on the same.

Here are the details (in short) for the same for your consideration.

Training Partner: Kyrion Technologies Pvt. Ltd.

Course Offered: Ethical Hacking & Information Security Workshop

Benefits for students:

- Free – Ethical Hacking & Information Security Software Tool Kit with Manual for each student (Worth Rs. 750/-)

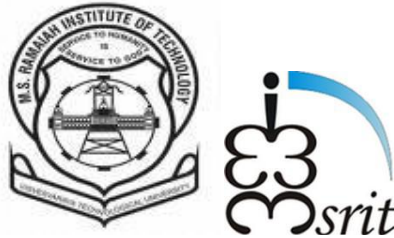
Training Material (E-book) for each student

Authorized Certificate from **I-Fest IEEE IIT Roorkee**

Robotics Workshop by ARK Technosystems:

Details on: <http://sunil.novahost.org/ieee/imacbotz.pdf>

IP Controlled Robotic Workshop



Entry Fee: Rs.5500/- (Team of 5 i.e. Rs.1100/- for each member)

A training kit will be provided during workshop

The iMACBOT Training kit content:

DC geared motors

ABS polished wheels with metal couplings

Castor Wheel

General Purpose robotic vehicle chassis

4 in 1 Transmitter Remote Box

RF encoder & decoder ICs

RF Modules of 434 MHz/315MHz

The Multi-controlled Receiver circuit board

6V, 4.5ah Rechargeable Lead Acid Battery external battery for wireless robotics

Computer Isolators

Computer's Parallel Port interfacing circuit board

DB 25 connector and cable

Microphone for Speech Controlled Applications

Tools, switches and much more

Charges & Participation

Participation Charges: Rs. 5500/- per team

The charges include:

Training fee of the 2 day workshop

Takeaway iMACBOTZ Training kit

Information cd (Fully loaded with notes, related software required for iMACBOTZ)



& videos of various competitions like ROBOCON, ROBOWARS, Innovative Robots etc)

Individual participation certificate

Highlights: After the workshop there would be demonstrations of Autonomous Robots,

Swarm Robots, Autonomous without using uc & much more....

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