

MDC Design Contest



The Event

MDC is sponsoring a design contest for the students of the Department of Electronics Engineering at IT-BHU. IT is a hardware design contest with total cash prizes of Rs. 20,000. You can enter with your own ideas or you can choose from ideas proposed by alumni and posted on the MDC website (*open ideas*). Choosing from *open ideas* has many benefits like mentoring from the author alumnus, full MDC support of components and full information support needed to make the project a success!

Before the contest opens up there will be some online presentations and resources presented to the interested students, showing them, for simple examples, the steps to go from the idea to the drawing board to a complete project.

Prizes

Best Project from 4th year: Rs. 10,000

Best Project from 3rd year: Rs. 5,000

Best Project from 2nd/1st year: Rs. 5,000

- *Together with this, the components for your projects will be supplied by MDC for any open design ideas! **
- *If you decide to enter with your own design idea, the components maybe fully supplied by the MDC depending on the estimated cost.**

Important Dates and Deadlines

- Project proposal submission (by alumni): 30th June 2006
- Contest Opening (All *Open Ideas* posted on website): 10th July 2006
- Original idea submission (for component support approval from MDC, will not be posted on the website): 10th August 2006
- Project selection and registration (by participating teams): 30th September 2006
- MDC Design Contest (Project reports, presentations and demonstration): 31st January 2007

* In this case the project will belong to MDC after the contest.

Open Idea Guidelines

1. The *open idea* should be fairly clear, about the problem it addresses, the specifications as detailed as possible at submission time and what are the minimum requirements for the team to successfully complete the project in the contest timeline.
2. The Alumnus whose idea is chosen should be prepared to provide the team all knowledge resources they need, to successfully complete the project. For example if the idea is say a USB flash disk then the alumni should be able to provide the USB specification details to the team who chooses the project, and any flash specific details.
3. The Alumnus should be prepared to mentor the student team through the various stages of the design, although there will be a support group for the contest to help with the general design stages, example PCB design, datasheet interpretation, etc.
4. An estimated cost for the project components should be submitted with the project. If the project is expensive then the earlier the idea is submitted the better chances it has to get funding from MDC.

General Guidelines

1. Software only ideas are not eligible for the contest.
2. Ideas involving hardware design and fully-functional prototype will be given preference.
3. The implementation should be feasible within the contest timeframe.
4. Innovative ideas will be given preference over the conventional ideas of similar complexity.

Rules of the Contest

1. Students from any year may participate in the contest.
2. Each team may not have more that 2 persons for 3rd and 4th year students and not more than 3 people for 1st and 2nd year students.
3. In all there will be 3 design idea categories. 1st category being the easiest, will be only open for 1st and second year students. Categories 2 and 3 will be open to all.\
4. The designs ideas will involve more hardware design and less software design (if applicable). Each team can schedule time to use the MDC equipments for their project design.

Judging Rules

1. The projects will be judged by EcE faculty members and Alumni.
2. The judging criteria will depend on the following aspects of the project:
 - a. Project Idea innovativeness
 - b. Idea applicability, problem it solves
 - c. Implementation, creativity
 - d. Robustness
 - e. Presentation
 - f. Knowledge developed
3. Students from 1st or 2nd year choosing a design from the higher category and doing good at it will be a plus.