Madan Mohan Malaviya University of Technology
Gorakhpur-273 010, India

RULES FOR THE BEST B. TECH. PROJECT AWARD, 2014-15

Objective

In order to provide impetus to the economic growth of the country and its development, it is important to promote leading edge indigenous technologies which are innovative, cost effective and appropriate for our conditions environment. Therefore, there is a need to encourage research and development culture amongst the students during the formative years of their undergraduate studies, so that they begin their professional career well prepared with ideas and innovative skills.

To encourage the students and to stimulate the spirit of inventiveness among the student it is necessary to honour and recognize their creative talent with a mission to harness their performance for the benefit of society and the nation. In view of this, the University has instituted the three nos. of "Best B. Tech. Projects" awards. University encourages inventions, scientific investigations and research, and promotes their application for development of all sectors of the national economy.

Selection Procedure

The selection of the Best Project awardees shall be made by a Project Evaluation Committee consisting of the following members.

S. No.	Faculty Member	Status
1.	Dean, Research & Development	Chairman
2.	Dean, Academics	Member
3.	Two Head of Departments (Nominated by Vice-Chancellor)	Member
4.	Three Faculty Members* (Nominated by Vice-Chancellor)	Member
5.	Two Research Scholars (Nominated by Vice-Chancellor)	Member

*The faculty members nominated by the Vice-Chancellor should preferably have made significant contribution in R&D through research and consultancy projects, guidance of Ph.D. and M. Tech students, publication in SCI journals or made an impact in the technical life of the University through guiding technical activities.

The following procedure will be followed.
1. B. Tech. students who carry out projects individually or in a group of maximum four students working together on same project are eligible for award.
2. The student should have completed the project in a single stretch spanning two semesters only.
3. Preliminary evaluation of projects shall be made by the respective departments and the names of students for each B. Tech branch will be forwarded by the HOD to the Project

Evaluation Committee along with abstract of project of length 5 to 6 pages by each student/group of students, duly forwarded by the supervisor(s) and Head of Department.

4. Single author projects will be given preference. In case of joint projects, the name of the all the students in group shall be forwarded by the HOD. There is no bar against recommending names of selected few students from any project. Multi-author (more than four students) projects will not be eligible for the award, because it will be very difficult to evaluate individual contributions.

5. If any of the committee members happens to be the supervisor of one of the short listed students, he will on his own request the Vice-Chancellor to be excused and the Vice-Chancellor will nominate an alternative member in his place.

6. The members of the Project Evaluation Committee shall evaluate the reports and choose the students for making oral presentation before an open audience.

7. The Project Evaluation Committee shall organize an open presentation and display of any physical device or software by the selected students before the commencement of even semester major examination. It will also receive the completed project report of the potential awardees within the dates to be announced by the Committee.

8. The Project Evaluation Committee will examine the final project report and record books before arriving at a recommendation. The Project Evaluation Committee shall consider the following aspects of the projects before making the final recommendation.

S. No.	Assessment Basis	Maximum Marks
1.	Novelty/Originality of Concept, Scientific Approach, Industrial or Social Utility	40
2.	Prospect of Patent or High Level SCI Journal Publication	10
3.	Experimental, computational or analytical skills learnt during the process	10
4.	Understanding of the topic and clarity of concepts as expressed through presentation	10
5.	Organization and quality of presentation including audiovisual material	10
6.	Record of day-to-day work as given in Project Record Book and documents referred therein	10
7.	Quality of Project Report: Content, Organization and Aesthetics	10

9. The Project Evaluation Committee will submit its recommendation within 15 days of the last date of receipt of nomination, unless restricted to do so due to some academic activities, to the Vice Chancellor for approval. Vice Chancellor may approve the recommendation or revert back for reconsideration or cancel the process for any academic session.

10. The award will be issued in the form of a certificate.

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Gorakhpur-273 010, India

APPLICATION FOR THE BEST B. TECH. PROJECTS FOR THE YEAR 2013-14

1. Applicant Students Details

Name	University Roll No.	e-mail	Mobile No.

2. Branch

3. Name of Supervisor(s)

4. Present address

5. Title of the B. Tech. Project
   (Attach an abstract of 5 to 6 pages)

1. Significance of Project

2. Self Assessment

S. No.	Assessment Basis	Self Assessment along with Details & Documentary Proof
1.	Novelty/Originality of Concept, Scientific Approach, Industrial or Social Utility	
2.	Prospect of Patent or High Level SCI Journal Publication	
3.	Experimental, computational or analytical skills learnt during the process	
4.	Understanding of the topic and clarity of concepts as expressed through presentation	
5.	Organization and quality of presentation including audiovisual material	
6.	Record of day-to-day work as given in Project Record Book and documents referred therein	
7.	Quality of Project Report: Content, Organization and Aesthetics	

Date   Full Signature of the Applicants

Recommendation of the Supervisor(s)

Recommendation of HOD

GUIDELINES FOR ABSTRACT PREPARATION

Project Title
Author(s) Name

1. **Introduction**

    It should contain a brief statement of the problem investigated and outline the aim, general character of the research and the reasons for the student's interest in the problem. Why did you decide to do this study? Why is this research important? Why should someone read your entire essay?

2. **Problem Investigated**

    What problem does this work attempt to solve? What is the scope of the project? What is the main argument/report/claim? What problem is your research trying to better understand or solve? What is the scope of your study-a general problem, or something specific? What is your main claim or argument?

3. **Methodology**

    An abstract of a scientific work may include specific models or approaches used in the larger study. Other abstracts may describe the types of evidence used in the research. Clearly state the techniques or approaches used in your study.

4. **Results/Findings**

    Again, an abstract of a scientific work may include specific data that indicates the results of the project. Other abstracts may discuss the findings in a more general way. Discuss your own project including the variables and your approach. Describe the evidence you have to support your claim. What answer did you reach from your research or study? Was your hypothesis or argument supported? What are the general findings?

5. **Implications**

    What changes should be implemented as a result of the findings of the work? How does this work add to the body of knowledge on the topic?

6. **Summary and Conclusions**

    What are the implications of your work? Are your results general or very specific? New information or conclusions not supported by data in the results section should be avoided.

7. **Reference Material**

8. **Author's Technical Publications**

SPECIFICATIONS FOR PROJECT ABSTRACT FORMAT

Preparation of Manuscript

1. The Project Abstract needs to be prepared using a standard text processing software and must be printed in black text (color for images, if necessary) using a laser printer or letter quality printer in standard typeface (Times New Roman or Sans Serif font).
2. The Project Abstract must be printed or photocopied on both sides of white paper. All copies of Project Abstract pages must be clear, sharp and even, with uniform size and uniformly spaced characters, lines and margins on every page of good quality white paper of 75 gsm or more.
3. Project Abstract should be free from typographical errors.

Size and Margins

1. A4 is the recommended Project Abstract size.
2. The top, bottom and right side margins should be 25mm, whereas the left side margin should be 35 mm for both textual and non-textual (e.g., figures, tables) pages.
3. Content should not extend beyond the bottom margin except for completing a footnote, last line of chapter/subdivision, or figure/table caption.
4. A sub-head at the bottom of the page should have at least two full lines of content below it. If the sub-head is too short to allow this, it should begin on the next page.
5. All tables and figures should conform to the same requirements as text. Color may be used for figures. If tables and figures are large, they may be reduced to the standard size (provided the reduced area is not less than 50% of the original) and /or folded just once to flush with the Project Abstract margin (if the page size does not exceed 250x360 mm).
6. Students may choose to submit printed Project Abstract copies either in the standard size or in a book format that is roughly half of A4. If the book format is adopted for submission, it should be ensured that all textual and illustrative material is distinct and legible. Students should also submit the Project Abstract in soft form (PDF) for storage and archival.

Page Numbering

1. Beginning with the first page of the text in the Project Abstract, all pages should be numbered consecutively and consistently in Arabic numerals through the appendices.
2. Page numbers prior to page 1 should be in lower case Roman numerals. The title page is considered to be page (1) but the number is not printed.
3. All page numbers should be placed without punctuation in the upper right hand corner, 12 mm from the top edge and with the last digit even with the right hand margin.

Tables, Figures and Equations

1. All tables (tabulated data) and figures (charts, graphs, maps, images, diagrams, etc.) should be prepared, wherever possible, on the same paper used to type the text and

conform to the specifications outlined earlier. They should be inserted as close to the textual reference as possible.

2. Tables, figures and equations should be numbered sequentially throughout the Project Abstract. They are referred to in the body of the text capitalizing the first letter of the word and number, as for instance, Table 17, Figure 24, Equation (33), or Table 5.3, Figure 3.11, Equation (4.16), etc.

3. If tables and figures are of only half a page or less, they may appear on the same page as text but separated above and below by triple line spacing. Font size for text should be the same as for the general text.

4. Good quality Line Drawings/figures must be drawn using standard software that provides vector rather than bit-map graphics. Figures must be scalable.

5. Images, Photographs, etc. must be scanned in resolution exceeding 200dpi with 256 grayscales for the monochrome images and 24 bit per pixel for the color images.

Binding

The student should submit the copies of the Project Abstract in fully bound form (soft cover). Once the Project Abstract is accepted, it is the student's responsibility to get it properly bound before depositing the required number of copies in the Department concerned. The front cover of the bound copy should be the same as the title page of the Project Abstract. The front cover should have printing on the side to include the name of student(s), name of supervisor(s), abbreviated Project Abstract title (optional), degree, department, and the year.