

Gujarat Technological University

Evaluation Scheme for Design Engineering – 2A (2150001) (5th Semester-Regular Students)

BE III – all branches

PROPER CONDUCT of ALL THE PRACTICAL/ VIVA EXAMINATIONS – A.Y. 2015-16

(<http://www.gtu.ac.in/circulars/14May/05052014.pdf>)

To,

The Principals/ Directors of Colleges/ Institutes and the Heads of Departments:

At the ensuing fifth semester examinations, the work of the students in Design Engineering II (a) is to be evaluated and the evaluation is to be out of 80 marks.

PROCESS OF EVALUATION: A Viva-Voce examination will be conducted at the end of the semester by a team of two examiners, one of whom will be an internal Faculty Member, who may have taught the subject. The other will be an external examiner to be appointed by the University.

(Please note that all the other practical and viva voce examinations at the end of the 5th semester will be conducted internally by the College/Institute.)

EVALUATION SCHEME:

Sr. No.	Particular	Sub-Head Weightage
1.	Refinement of Canvases/ frame work	5
2.	Design for Performance, Safety and Reliability ✓ Different aspects of design for performance, safety and reliability introduced/ considered for defined problem	5
3.	Design for Ergonomics and Aesthetics ✓ Consideration of Ergonomics and Aesthetics aspects to raise the value of products	5
4.	Design for Manufacturability & Assembly (DFMA) ✓ Reference, different considerations and guidelines followed for DFMA during the work	5
5.	Design for Cost, Environment ✓ Cost and Environment consideration as they play major role in Product design	5

6.	Design calculation (it may include size & shape specifications, tolerances, material requirement, standards/safety rules/govt. policies, sketches, detail & assembly drawings, list of components with specifications etc.) These all aspects are case sensitive so one can add/remove some aspects from the list. (For CE, IT, other process related branches, one may also use Flow chart/Block Diagrams/Algorithms/Programming etc.)	20
7.	Measuring Instruments/techniques - knowledge and use	5
8.	Comparison of existing materials, methods, tools and equipment for your project	5
9.	Simulation and Analysis (Software modelling), Mathematical model	10
10.	Compilation of work (report), Future action plan, Question and Answer, Communication Skill	15

Note:

- ✓ Total Marks for the subject: 80
- ✓ Minimum passing marks: 40/80
- ✓ Ratio of evaluation by internal/external examiner appointed: 50% in each sub-head
- ✓ For preparation of their report, students shall follow the format provided by GTU. However, depending on the case, the content may be modified as the case may be.
- ✓ Students may refine their canvases after detailed design part if require and need to explain all canvases prepared in hard copy to the panel of examiners (internal and external).
- ✓ Examiner may ask any of the documents (canvases, report etc.) from earlier semester if project is carry forwarded by students and students must be able to show required documents to prove continuous works. (Hence, it is advisable to students/institute to protect their earlier work for the continuous project)
- ✓ Final prototype or working model for the project is not mandatory for 5th semester. But as Design is iterative process, students may prepare the sequential prototypes (better version of prototypes) to validate their detailed design part.
- ✓ Log book for keeping your data of the project work is desirable, but not mandatory for 5th semester this time only (for AY 2015-16). Now onwards every project team will carry one systematic log book.
- ✓ Power point presentation is not mandatory but desirable.

Appendix:

Students deserve a proper practical/ viva/ project examination of the work that they have done over the semester (or over the final year for a 2-semester project.)

It is the responsibility of the University that all its examinations are conducted fairly, sincerely and with due diligence.

So please look into the following:

1. Please make proper arrangements so that all the examinations start in-time. If due to any reason, the exam should not start at the right time, please inform the examiners that they should take extra time. But in no case the viva/ practical exam be conducted in a hurry without giving sufficient time for evaluation of every student. If an exam is scheduled to be held over two days, please make the necessary arrangements.
2. The University expects the Deans (and or special teams headed by the Dean or his/ her nominee) to visit the Colleges during the practical/ viva examinations.
3. Please see that all the necessary help and information is provided. Please receive them so that they can do their job properly without wasting their time in searching for the place and in contacting the concerned examiners and students. If they should want to visit the laboratories/ workshops, please make the necessary arrangements.
4. Please inform the external examiner that he/ she must note down the best 3 Reports of the department and convey the details of such projects by uploading the details of the project or/ and the complete project report on the University's server.
5. In case Internet or the server should not work, please provide the technical help to the external examiner for preparing a CD of the reports of the best three projects of every department and please make arrangements to deliver the CD to the examination department of the University.

References: For AY 2015-16

- Please refer the guideline at following link for more details:

http://gtu.ac.in/circulars/15June/26062015_12.pdf

- The format of the Report is attached.