

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI**  
**INSTRUCTION DIVISION**  
**SECOND SEMESTER 2015-2016**  
**Course Handout Part – II**

Date: 13/01/2016

In addition to Part -I (General Handout for all courses appended to the time table) this portion gives further specific details regarding the course.

**Course No. : DE G522**  
**Course Title : Design Projects**  
**Instructor-in-Charge: B K ROUT**

**Scope & Objective:**

This course is intended at providing experience of end-to-end handling of a small open ended design exercise, under supervision of instructor. Fabrication and testing facility at BITS workshop is used for developing a model or prototype. Students will also gain experience of working in a team.

**Working Methodology:**

A team of students comprising of two or three will undertake a project. Students have to explicitly specify the area of design project and Faculty members of the he/she wants to work with. Students will submit their plan in the First week and thereafter weekly progress report to the instructor in prescribed format. There will be a mid semester and an end semester presentation. Credit will be awarded through continuous evaluation process. It is also planned to arrange a half-day “Design Show” to showcase the works of all the groups, towards the end of the semester. A panel of adjudicators will evaluate the projects and grade them finally.

**Course Plan:**

<i>S. No.</i>	<i>Design project landmarks</i>	<i>Duration (Weeks)</i>
1	Selection of project – Scope; technical & business concerns	3
2	Establishment of product functions	1
	<b>Finalization of project</b>	
3	Concept Generation and Selection	1
4	Design of product / component	1
5	Computer Aided Drafting	1
	<b>Verification and approval of drawing</b>	
6	Material and parts requirements planning	1
7	Verification of material requirements with Workshop	
8	Design modification, if any	1
9	Opening of work order	
10	Fabrication and Testing	4
11	Preparation of Final report	1
12	<i>Design Show</i> and evaluation	
	<b>Total</b>	<b>14</b>

**Evaluation Scheme:**

<i>Component</i>	<i>Weightage</i>	<i>Date &amp; Time</i>	<i>Remarks</i>
Weekly progress report	30	At an interval of 7 days from first day of commencement of session.	Students are required to interact with the Instructor and submit progress report in the prescribed proforma.
Mid semester presentation	20	To be announced	
End semester presentation	30	do	
Design Show evaluation	20	do	

**Note:** Final grade of a student will depend on both individual and design team performance. This means your grade depends not only on how well you are doing individually in a team, but also on how well your team members do. It is advised, therefore, to conduct periodic internal reviews of the team's performance and to help any members that for any reason are lagging behind. Your instructor will also help you in this process.

**Chamber consultation hour:** To be announced.

**Notices:** Notices if any will be displayed in ME Notice board only.

**Makeup Policy:** Students are expected to be regular and punctual for this course. Failing which student will be awarded NC. The course will operated in the project mode, thus student team is instructed to fix the meeting hours and meet the Instructors with regular time interval.