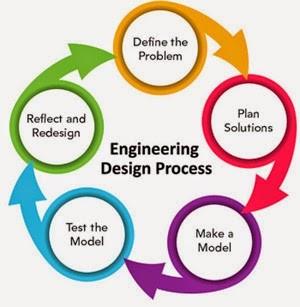
**iCREAT I: Module 8 - Engineering Design and 3D Modeling**



horizontal line

# Objectives

* Apply engineering design concepts to projects and develop parts and assemblies using industry standard 3D modeling software and prototyping tools.
* Learn about documenting engineering projects. Analyze the impact of different product designs

# Activities

* Review project requirements
* Use hand sketches and notes to document design
* Create parts and assemblies to learn SolidWorks 3D modeling software
* Career Planning

# TABLE of CONTENT: Module 8

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| --- | --- | --- | --- |
|  | **Topic** | **Activities** | **Faculty** |
|  | **Module 8** | |  |
| 1 | **Intro to Engineering design concepts, aesthetics, functionality, convenience, environmental impact, model size** | Present: **iCREAT I - Module 8 - Engineering Design and 3D Modeling** |  |
| 2 | **Homework** | HOMEWORK: ***2-iCREAT I - Module 8 - Homework: Final Project Part Engineering Drawing***  Need graph paper? [You can print it.](https://incompetech.com/graphpaper/) |  |
| 3 | **Homework** | HOMEWORK: ***iCREAT I - Module 8 - Homework: Team Final Project Cardboard Prototype***  Need chassis dimensions for section 3 of this document?  Use the appropriate chassis drawing located in the**iCREAT I - Module 8 - Chassis Drawings PDF.zip** file |  |
| 4 | **Prepare for Peer Review** | Document: **iCREAT I - Module 8 - What is a Peer Review** |  |
| 5 | **Career Exploration** | Present: ***5-iCREAT I - Module 8 - Beginning your career search - WebCurriculum EG-4*** |  |