ME 1403 Engineering Practice & Graphics Spring 2018

Lecture 1 (A)

Instructor:

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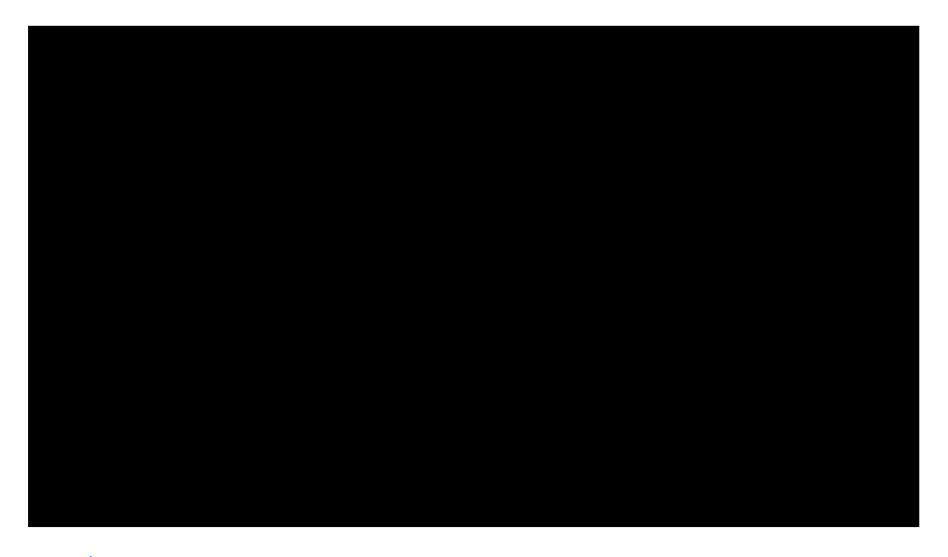
Outline

- Engineering CAD Software's
- What is Solidworks?
- Text Book
- Rules and Regulations
- Environment
 - Opening Solidworks
 - Introduction to Solidworks Environment
- What kind of Document?
 - Part
 - Assembly
 - Drawing
- Setting up Units and Dimension Standard
 - Drawing Standard (ISO/ANSI)
 - Unit System (MKS/MMGS)
- Mouse Gestures
- Sketching
 - Plane

Engineering CAD Software's

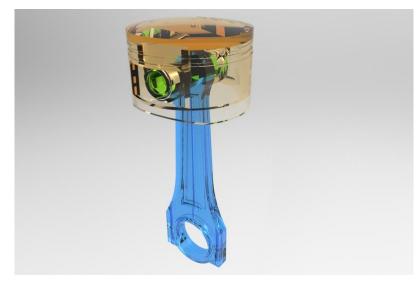
- Top End Market
 - a. CATIA by Dassault Systems
 - b. NX by Siemens PLM
- Mid level Market
 - a. SolidWork by Dassault Systems
 - b. SolidEdge by Siemens PLM
 - c. Inventor by Autodesk
 - d. PTC Creo (Pro-E) by PTC
 - e. Rhino
 - d. IronCAD
- Entry Level Market
 - a. AutoCAD
 - b. Google Sketchup Pro
 - c. DraftSight
 - d. SpaceClaim
 - e. Alibre
 - f. FreeCAD

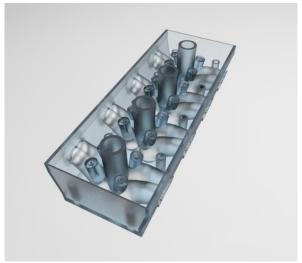
What is Solidworks?



Samples







Recommended Textbook

S. Tickoo, *SolidWorks 2016 for Designers*, 14th ed., 2016, CADCIM Technologies, ISBN: 978-1-942689-18-8.

or

S. Tickoo, *SolidWorks 2017 for Designers*, 15th ed., 2017, CADCIM Technologies, ISBN: 978-1-942689-75-1.

Lectures will be available at the following link

http://www.shafnehal.com/ME1403/spring_2018/lecture_notes

Submission Rules

- Homework's are due at the <u>beginning of the first lab</u> of the following week (*More Discussion on next class*).
- Quiz's will be taken (More Discussion on later classes).
- Submit everything via <u>Blackboard</u>.
- Copying your assignments are <u>prohibited</u>. If you do so, you and the individual you copied from will receive a <u>grade zero</u>, plus both of you will be referred for actions as described in the university's policy for academic dishonesty. (<u>Read Section 203 of the Student Code of Conduct 2013-2013 UTSA Information Bulletin.</u>)

Submission Rules

 Any submission after deadline will not be accepted and thus will receive a grade of zero.

Grading Criteria for Late Submission:

• Submission on Time : 100%

• Submission a week late : 75%

• Submission two week late : 0%

Submission Rules

- Naming Convention for your submission files:
 - (section)_(your myUTSA id)_(Number/Name of the HomeWork)
- For Example if your in section, "L1", your myUTSA id is, "abc123" and You are submitting, "HW1". Then your submission file name should be, "L1 abc123 HW1"

Emailing Regarding Problems

- Email either
 - through Blackboard
 - or at <u>shafnehal@gmail.com</u>
- Email between: 8:00 A.M. to 5:00 P.M.
- Subject line should follow the below mentioned convention:

 [ME 1403: Engineering Practice & Graphics Spring 2018] (Your myUTSA ID) (Summery of your Issue)
- For Example if your myUTSA id is "abc123" and You are emailing regarding
- For Example if your myUTSA id is "abc123" and You are emailing regarding problem in "HW1". Then your email subject line should be:

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"[ME 1403: Engineering Practice & Graphics Spring - 2018]_abc123_HW1 problem"
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Any email that doesn't follow the above convention will not be responded.

Most Important Rule of the Class

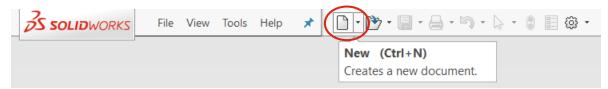
"Ask Questions!"

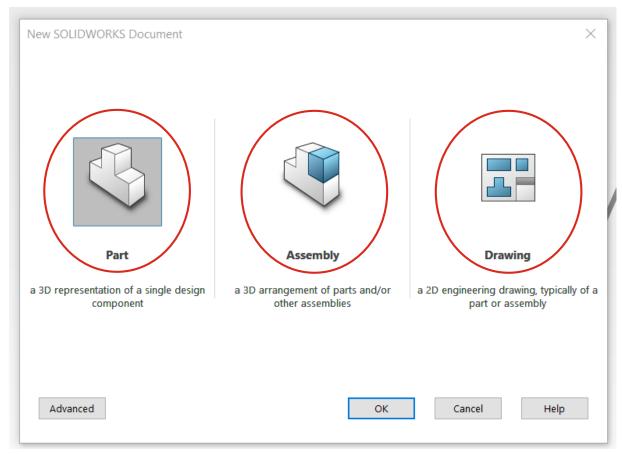
Solidworks

- You can get access to Solidworks via-
 - Lab Computers
 - myUTSA apps
 - Follow this pdf file.



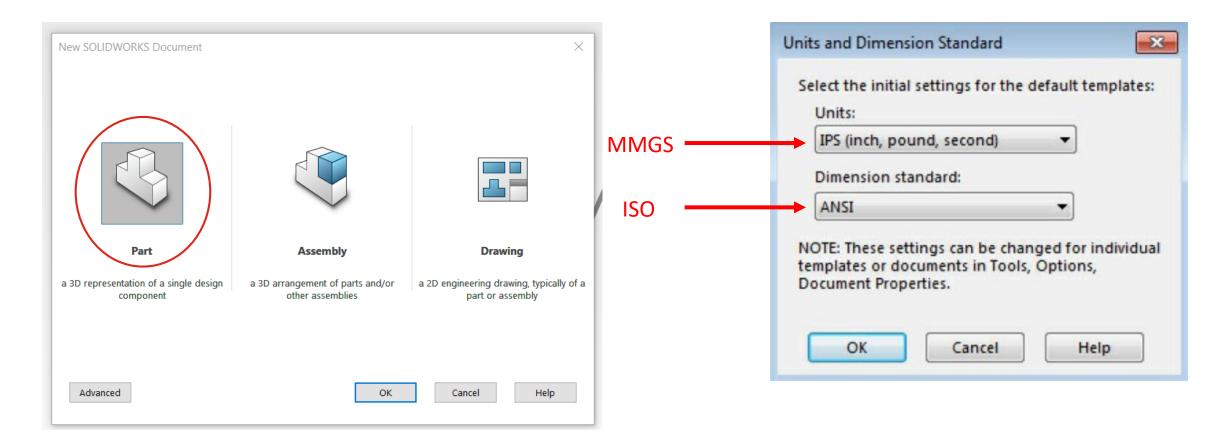
Creating New Documents



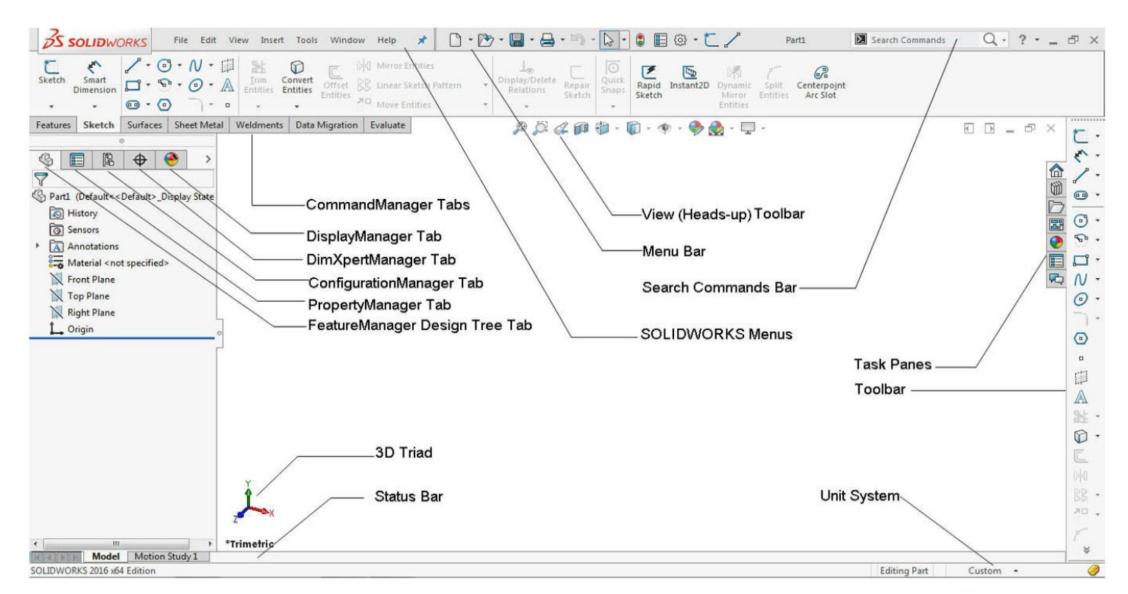


Setting up Units and Dimension Standard

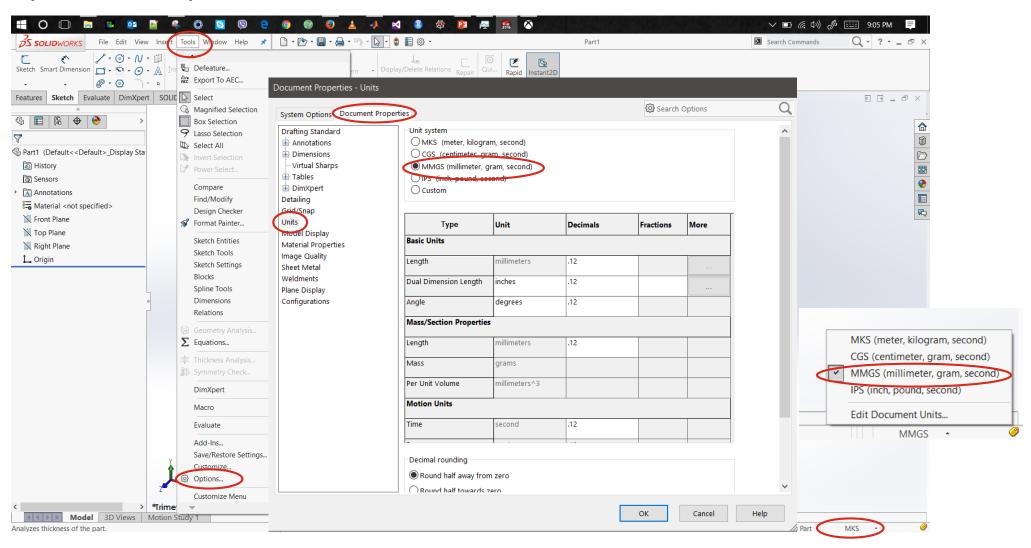




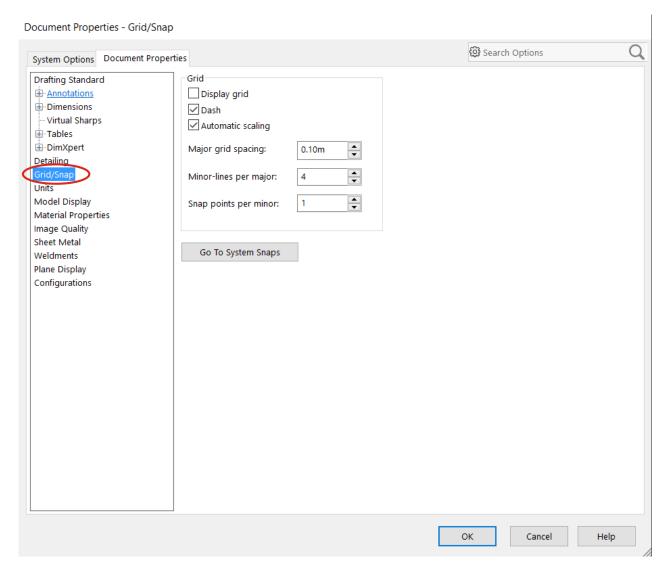
Introduction to Solidworks Environment



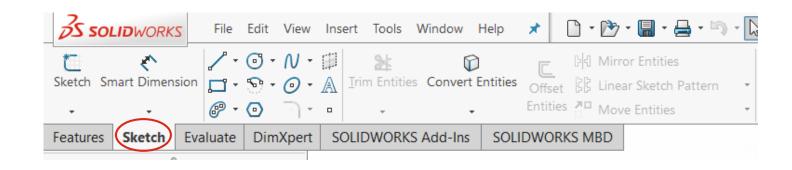
Setting up Units and Dimension Standard (cont'd)

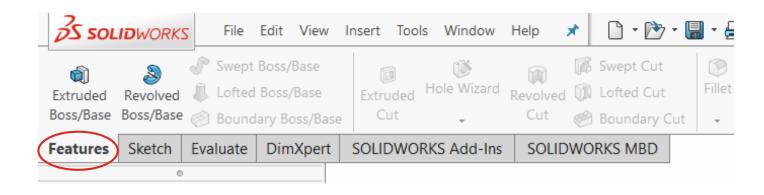


Snap & Grid Setting



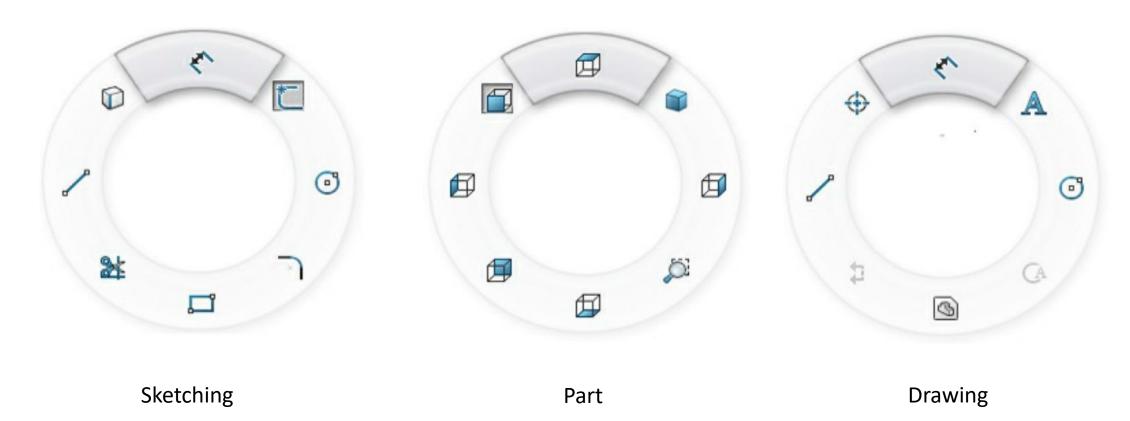
User Tabs/Pans



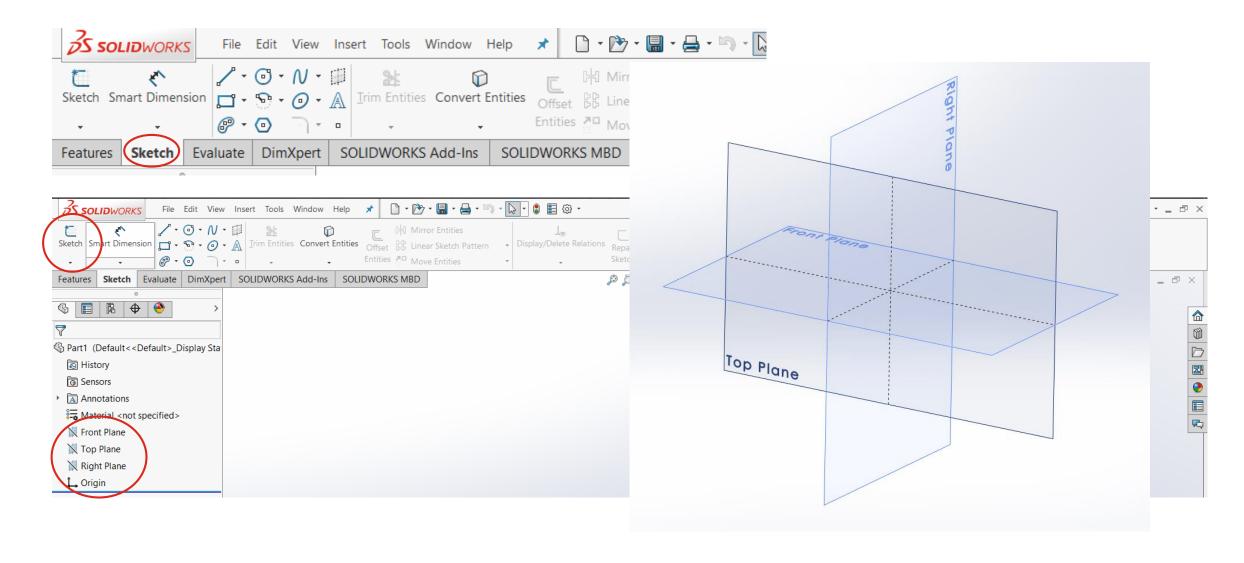


Mouse Gestures

- > Press the Right Mouse Button
- > Drag the Cursor in any Direction



Sketching



Practice

• We will do some practices on Next Lecture!