



# Mec E 468 Numerical Simulation in Mechanical Engineering Design

## AUTOMARK REPORT

**Semester: Win 2022**

**Instructor: Prof. David S. Nobes**

**Student Name:**

**Assignment: Assignment No 1**

**PROCESSING DATE: July 5, 2022**

*AUTOMark Assessment Grade: 290 out of 291*

*AUTOMark Recommended Grade: 100 out of 100*

**NOTE: This grade is preliminary only and needs to be confirmed.**

The following pages include each of the drawings in the following order:

- Your submission
- Your submission marked by AutoMARK
- The solution

**Other important points:**

- Examples are given on eClass of how to interpret the mark-up symbols used by AUTOMark.
- If you have any questions, discuss with you TA in the next lab time.

DRAWING CREATION DATE: 31-Dec-2019 13:57:09

DRAWING LAST SAVE DATE: 29-Jun-2022 10:15:10

MODEL CREATION DATE: 29-Dec-2019 12:49:16

MODEL LAST SAVE DATE: 07-Sep-2021 10:33:58

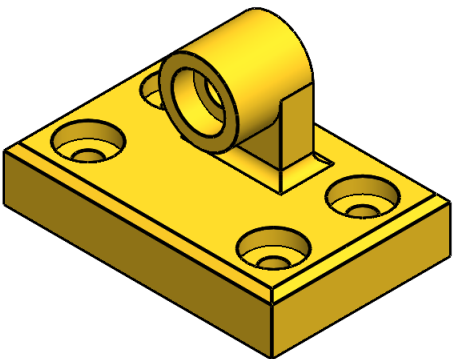
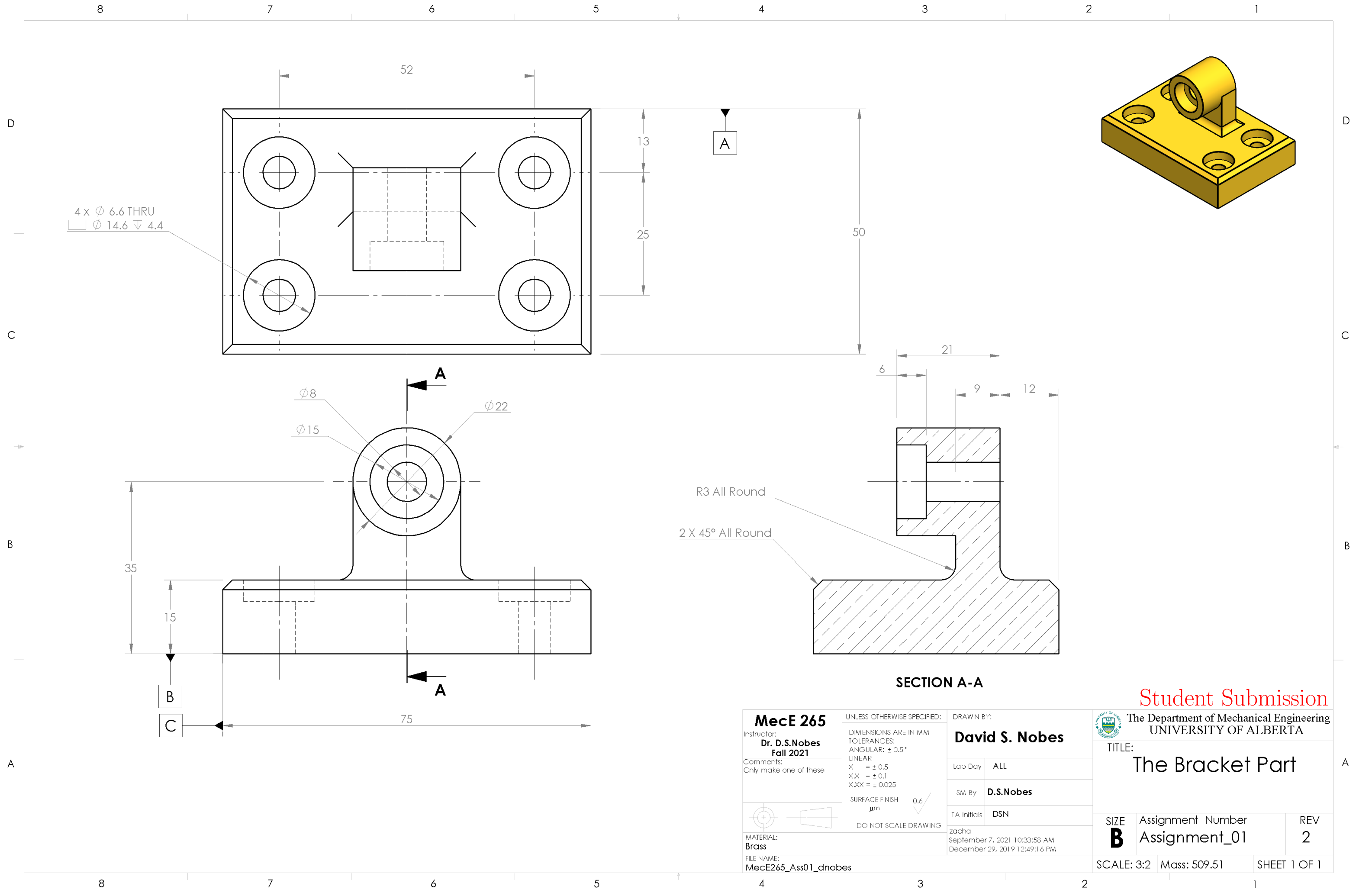
AutoMARK details:

- Sheetnames should contain only alphabetical characters
- Weights of feature properties are set by the marker
- AutoMARK v 4.0 software written and designed by Owen Stadlwieser

AutoMARK Criterion (The weights of these criterion are decided by the marker):

- DRAWING: SheetOrder, ExtraSheets
- SHEET: SheetPaperSize, SheetScale, SheetTemplate, SheetExtraBOMS, SheetExtraViews, SheetViewTypes, SheetIntersectingBallons
- BILLOFMATERIALS: BOMTableType, BOMNumberColumns, BOMNumberRows, BOM-Position, BOMTableHeight, BOMTableWidth, BOMFontType, BOMFontSize
- VIEW: ViewScale, ViewDisplayStyle, ViewExtraDimension, ViewPosition, ViewExtra-CenterMarks, ViewMass, ViewMaterial, ViewExtraDatums, ViewWrongProjection, ViewEx-traCenterlines
- DIMENSION: DimensionDangling, DimensionWrongView, DimensionPosition, Dimen-sionArrowSide, DimensionValue, DimensionBadText
- CENTERLINE: CenterlineDangling, CenterlinePosition
- CENTERMARK: CentermarkDangling, CentermarkPosition, CentermarkShowlines, Cen-termarkAngle, CentermarkConnectionLines, CentermarkExtensions, CentermarkGap, CentermarkSize, CentermarkGroupedCorrectly
- DATUM: DatumDangling, DatumWrongView, DatumPosition, DatumLabel, DatumDis-playStyle, DatumFilledTriangle
- Ballon: BallonDangling, BallonPosition

Symbol/Colour	Meaning
✓	No deductions on feature
Colour	Incorrect value
Colour	Miscellaneous error
Colour	Incorrect Position
Colour	Unrecognized feature
Colour	Missing feature
?	Feature not found on key



Student Submission





The Department of Mechanical Engineering  
UNIVERSITY OF ALBERTA

TITLE:  
The Bracket Part

SIZE <b>B</b>	Assignment Number Assignment_01	REV 2
------------------	------------------------------------	----------

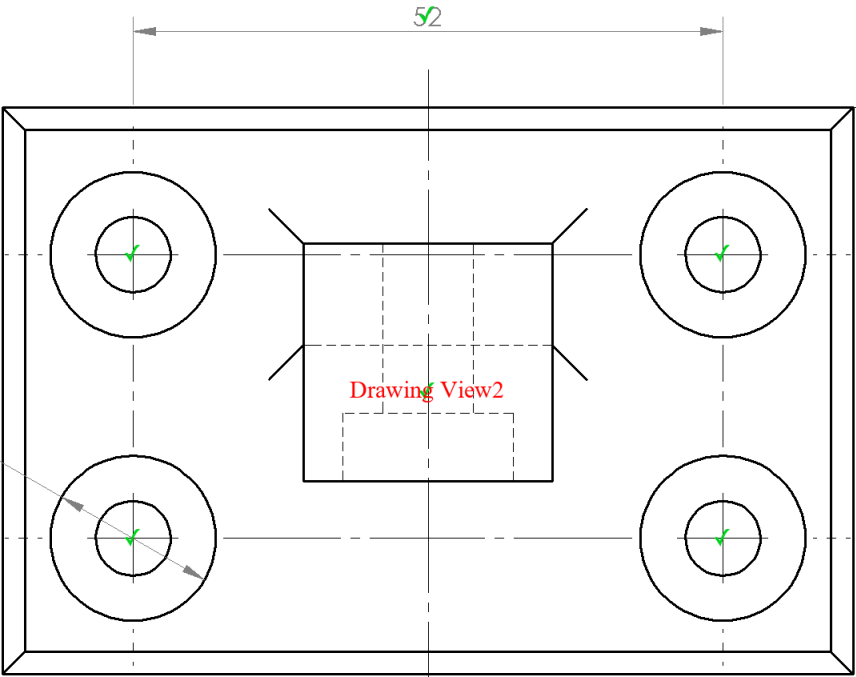
SCALE: 3:2	Mass: 509.51	SHEET 1 OF 1
------------	--------------	--------------

<b>MecE 265</b>		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 The Department of Mechanical Engineering UNIVERSITY OF ALBERTA	
Instructor: <b>Dr. D.S.Nobes</b> <b>Fall 2021</b>		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: $\pm 0.5^\circ$ LINEAR X = $\pm 0.5$ X.X = $\pm 0.1$ X.XX = $\pm 0.025$		<b>David S. Nobes</b>		TITLE: <b>The Bracket Part</b>	
Comments: Only make one of these		SURFACE FINISH $\mu\text{m}$ 0.6 ✓		Lab Day	ALL	Assignment Number <b>Assignment_01</b>	
		DO NOT SCALE DRAWING		SM By	<b>D.S.Nobes</b>		
		zacha September 7, 2021 10:33:58 AM December 29, 2019 12:49:16 PM		TA Initials	DSN		
MATERIAL: <b>Brass</b>				SIZE <b>B</b>		REV <b>2</b>	
FILE NAME: <b>MecE265_Ass01_dnobes</b>				SCALE: 3:2		Mass: 509.51	SHEET 1 OF 1

MATERIAL:  
Brass  
FILE NAME:  
MecE265\_Ass01\_dnobes

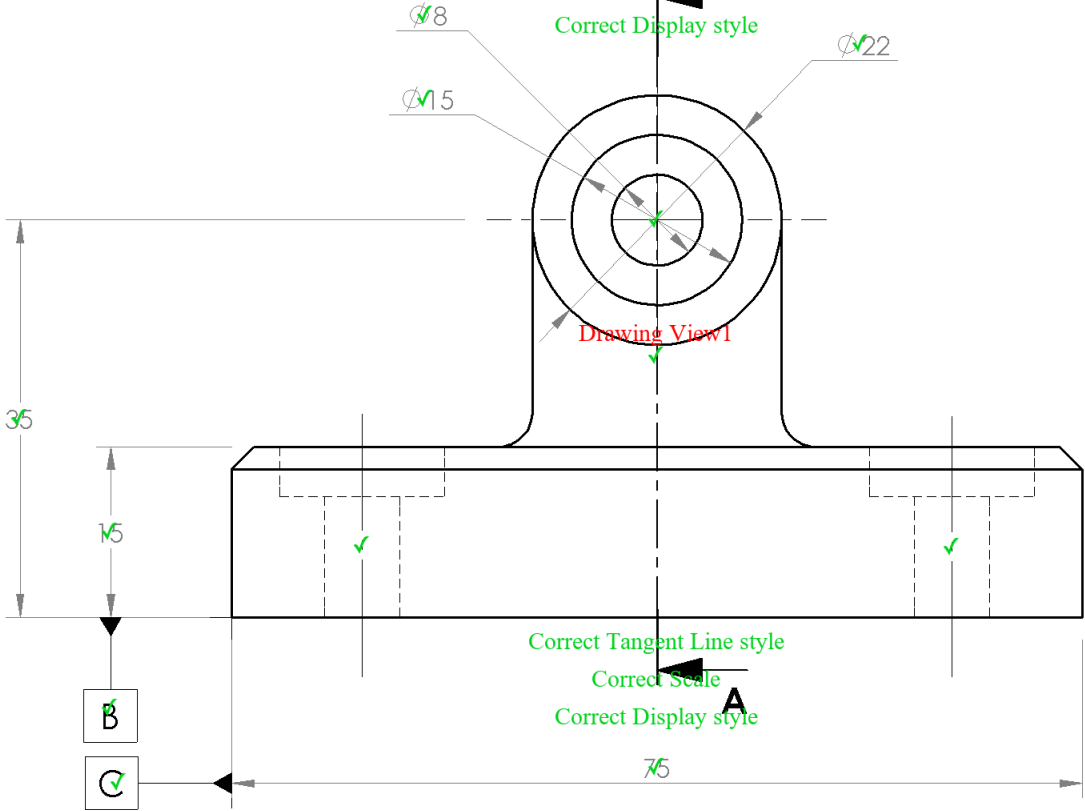
Drawing View1: 73/73  
Drawing View2: 74/75  
Drawing View3: 22/22  
Section View A-A: 55/55  
SHEET TOTAL: 273/274

4 x  $\varnothing$  6.6 THRU  
 $\varnothing$  14.6  $\nabla$  4.4

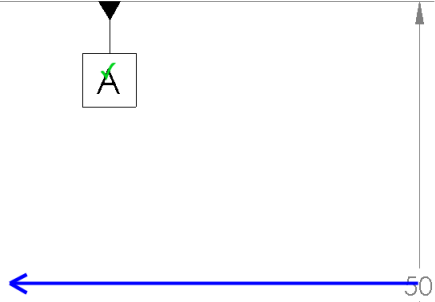


Drawing View2

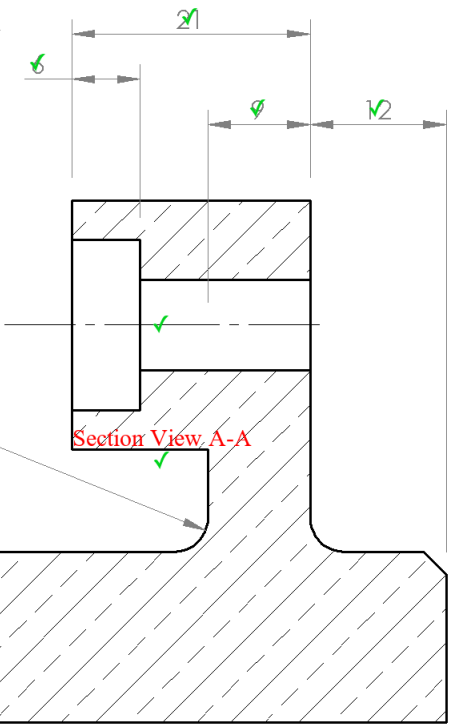
Correct Tangent Line style  
Correct Scale  
Correct Display style



Correct Tangent Line style  
Correct Scale  
Correct Display style



Correct Tangent Line style  
Correct Scale  
Correct Display style



R3 All Round

2 X 45° All Round

Section View A-A

Correct Tangent Line style  
Correct Scale  
Correct Display style

### MecE 265

Instructor:  
**Dr. D.S.Nobes**  
Fall 2021

Comments:  
Only make one of these



MATERIAL:

Brass

FILE NAME:

MecE265\_Ass01\_dnobes

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM  
TOLERANCES:  
ANGULAR:  $\pm 0.5^\circ$   
LINEAR  
X =  $\pm 0.5$   
X.X =  $\pm 0.1$   
X.XX =  $\pm 0.025$

SURFACE FINISH  
 $\mu\text{m}$

DO NOT SCALE DRAWING

DRAWN BY:

**David S. Nobes**

Lab Day

ALL

SM By

**D.S.Nobes**

TA Initials

DSN

zacha  
September 7, 2021 10:33:58 AM  
December 29, 2019 12:49:16 PM



The Department of Mechanical Engineering  
UNIVERSITY OF ALBERTA

TITLE:

**The Bracket Part**

SIZE

**B**

Assignment Number

**Assignment\_01**

REV

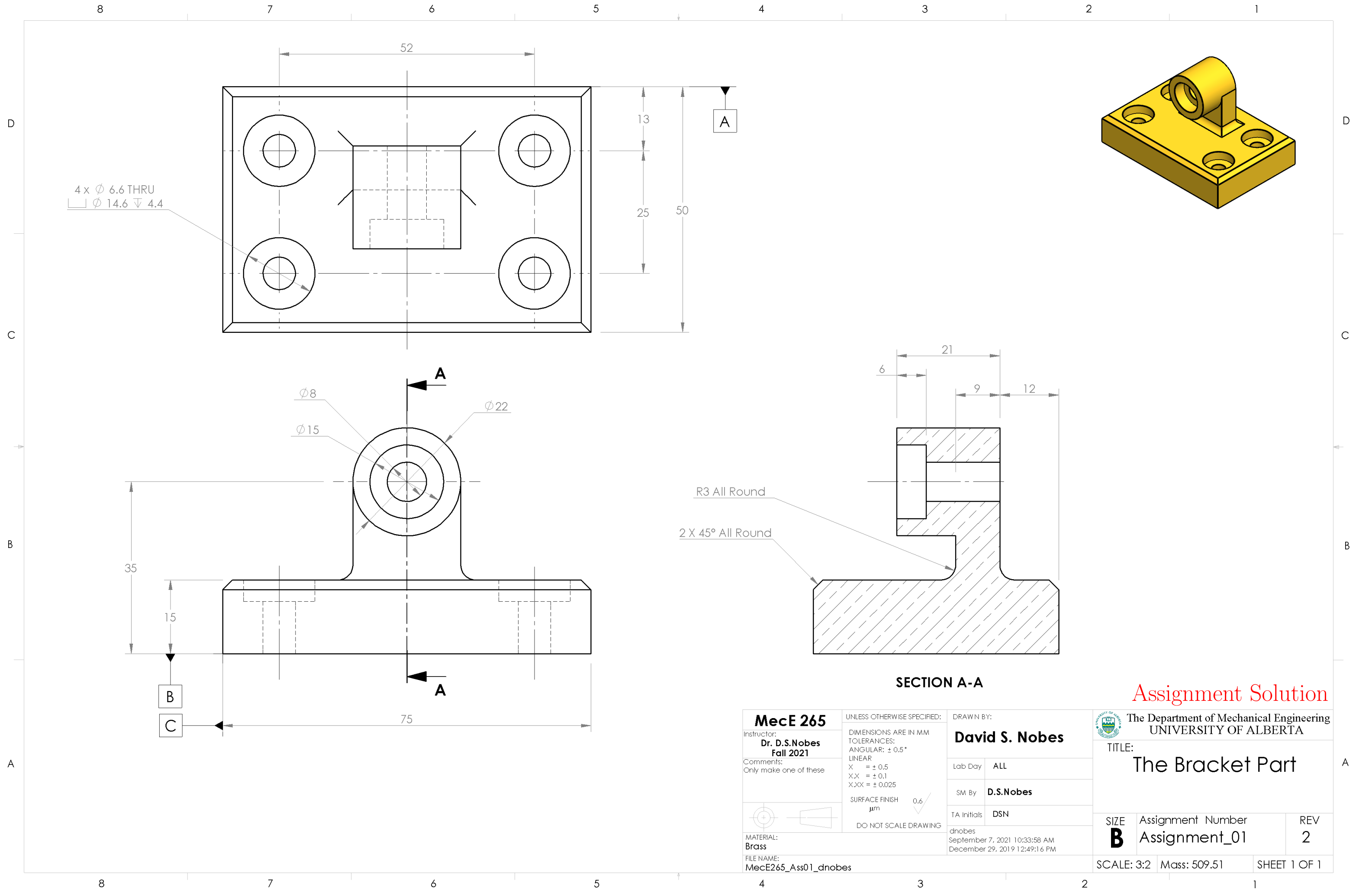
**2**

SCALE: 3:2



Mass: 509.51

SHEET 1 OF 1

Automark of Student Submission



# Assignment Solution

<div>MecE 265</div> <div>Instructor: Dr. D.S.Nobes Fall 2021</div> <div>Comments: Only make one of these</div> <div></div> <div>MATERIAL: Brass</div> <div>FILE NAME: MecE265_Ass01_dnobes</div>		<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.025</div> <div>SURFACE FINISH μm 0.6 ✓</div> <div>DO NOT SCALE DRAWING</div>		<div>DRAWN BY:</div> <div>David S. Nobes</div> <table><tr><td>Lab Day</td><td>ALL</td></tr><tr><td>SM By</td><td>D.S.Nobes</td></tr><tr><td>TA Initials</td><td>DSN</td></tr></table> <div>dnobes September 7, 2021 10:33:58 AM December 29, 2019 12:49:16 PM</div>		Lab Day	ALL	SM By	D.S.Nobes	TA Initials	DSN	<div>The Department of Mechanical Engineering UNIVERSITY OF ALBERTA</div> <div>TITLE: The Bracket Part</div> <table><tr><td>SIZE B</td><td>Assignment Number Assignment_01</td><td>REV 2</td></tr><tr><td>SCALE: 3:2</td><td>Mass: 509.51</td><td>SHEET 1 OF 1</td></tr></table>		SIZE B	Assignment Number Assignment_01	REV 2	SCALE: 3:2	Mass: 509.51	SHEET 1 OF 1
Lab Day	ALL																		
SM By	D.S.Nobes																		
TA Initials	DSN																		
SIZE B	Assignment Number Assignment_01	REV 2																	
SCALE: 3:2	Mass: 509.51	SHEET 1 OF 1																	