Outcome D. Graduates will have an ability to function on multidisciplinary teams.

Course	Performance indicators
MAE 211, 471	Use of various areas/disciplines in engineering problem formulation and/or solution.
MAE 211, 471	Use of team organizational tools for planning, task distribution, reporting, monitor team effort.
MAE 211, 471	Grade distribution.

Tools used: Course assessment by faculty, Alumni survey, Employer survey.

Data Collection: The data are collected every semester based on the course offerings.

Frequency of data collection:

The data are collected every time courses are taught.

Data Analysis: The data obtained are analyzed every year.

Closing the loop: This outcome is subject to review every year based on performance criteria and metrics and specific action

items are developed, if necessary, to revise the content of the courses. The analyzed data are presented

separately to the following groups in meetings.

a) Feedback to students on all assignments

b) Feedback to faculty, particular from majors.

Out	come and Performance Indictor	Performance In	Performance Indicator Rubric								
6	Assessment Outcome D. "Graduates will have an ability to function on multidisciplinary teams."	Poor	Fair	Good	Very Good	Excellent					
PI1	Use of various areas/disciplines in engineering problem formulation and/or solution	Use of only one discipline	A second discipline mentioned	Two disciplines equally used	Two or more disciplines Used well	Various disciplines used and explained					
PI2	Use of team organizational tools for planning, task distribution, reporting, monitor team effort.	No organizational tools used	Some team organization plans	Task/time charts used	Task/time charts used with team effort	Task/Time/ Effort with follow up					
PI3	Grade distribution	1 (F)	2 (D)	3 (C)	4 (B)	5 (A)					

Explanations:

Performance Indicator 1. (**PI1**). "<u>Use of various areas/disciplines in engineering problem formulation and/or solution</u>" Engineering problems often require the use of methods, concepts and techniques of various disciplines or sub-disciplines in an engineering field. Some exercises are typically offered to students in which they can use the various disciplines with which they are familiar. The following rubrics are used to assess this indicator:

- **Poor.** This rubric is used when only one discipline or area is used on a problem that offers the opportunity to integrate other disciplines or subdisciplines within the field.
- **Fair**. This rubric is used when at least two disciplines or areas are used on a problem that offers the opportunity to integrate other disciplines or sub-disciplines within the field. In this case, the first discipline is emphasized and the second discipline is addressed minimally.
- **Good.** This rubric is used when at least two disciplines or areas are used on a problem that offers the opportunity to integrate other disciplines or sub-disciplines within the field. In this case, both disciplines are given similar importance and the issues are clearly connected.
- **Very Good.** This rubric is used when at least two disciplines or areas are used on a problem that offers the opportunity to integrate other disciplines or sub-disciplines within the field. In this case, both disciplines are given appropriate importance and the issues are clearly connected.
- **Excellent.** This rubric is used when in addition to the previous rubric, the procedures are well described, explained, illustrated and documented.

Performance Indicator 2. (PI2). "Use of team organizational tools for planning, task distribution, reporting, monitor team effort" Engineering problems often require the use of organizational tools and techniques to, plan monitor, review and assess the progress towards reaching the objectives. The following rubrics are used to assess this indicator:

- **Poor.** This rubric is used when an assignment requiring group work and multiple tasks does not provide evidence of simple organizational tools or techniques being used.
- **Fair**. This rubric is used when an assignment requiring group work and multiple tasks provides some evidence of simple organizational tools including at least an activity timeline and task distribution.
- **Good.** This rubric is used when an assignment requiring group work and multiple tasks provides evidence of organizational tools including a timeline charts, task-effort distribution, and means to monitor progress activity.
- **Very Good.** This rubric is used when an assignment requiring group work and multiple tasks provides clear evidence of organizational tools including a Gantt charts, task-effort distribution, means to monitor tasks progress and effort spent on tasks, including progress reports.
- **Excellent.** This rubric is used when in addition to the previous rubric; there is evidence of organizational tools being used to produce follow-up activity.

Performance Indicator 3. (PI3). Grade distribution from class on applicable assignments or exercises. A, B, C, D, F

Assessment Tool:

Course Assessment Rubric by Faculty

Mechanical Engineering Program Course-Outcome Matrix (October 2014)

Required Course K = Key Course F = related Course Standard	ABET Outcome		a	b	c	$\frac{2014}{d}$	e	f	g	h	i	i	k	
K = Key Course				-				J	8		•	J		
MAE 211 Mechatronics 3 A C D 1 2 MAE 242 Natatics 3 A I 1 1 MAE 242 Dynamics 3 A I 1 1 MAE 243 Mech. of Materials 3 B E I 1 MAE 320 Intermodynamics 3 A K 2 MAE 321 Applied Thermodynamics 3 B E H J 3 MAE 321 Applied Thermodynamics 3 B E H J 2 MAE 321 Applied Thermodynamics 3 B B G 2 2 MAE 321 Applied Thermodynamics 3 B B G 2 2 MAE 322 Thermal and Fluids Lab. 3 B B G 2 2 MAE 324 Dynamics of Machines 3 A B G 2 2 MAE 343 Intermed. Mech. Matls. 3 A M J 2 2	K = Key Course	Credit Hours	Apply Math, Science, and Engr	Design Experiments and Analyze and	Design System, Component, or Process	Multi-disciplinary Teams	Identify, Formulate and Solve Engr Problems	Professional and Ethical Responsibility	Communicate Effectively	Broad Education - Global and Societal	Life-long Learning	Contemporary Issues	Techniques, Skills, and Modern Engr Tools	Number of Outcomes per course
MAE 211 Mechatronics 3 A C D 1 2 MAE 242 Natatics 3 A I 1 1 MAE 242 Dynamics 3 A I 1 1 MAE 243 Mech. of Materials 3 B E I 1 MAE 320 Intermodynamics 3 A K 2 MAE 321 Applied Thermodynamics 3 B E H J 3 MAE 321 Applied Thermodynamics 3 B E H J 2 MAE 321 Applied Thermodynamics 3 B B G 2 2 MAE 321 Applied Thermodynamics 3 B B G 2 2 MAE 322 Thermal and Fluids Lab. 3 B B G 2 2 MAE 324 Dynamics of Machines 3 A B G 2 2 MAE 343 Intermed. Mech. Matls. 3 A M J 2 2	ENGR 101 Engr. Problem Solving 1	3						F	G					2
MAE 241 Statics 3 A 1 MAE 242 Dynamics 3 A 1 MAE 243 Mech. of Materials 3 B E MAE 316 Analy. of Engr. Sys. 3 A K 2 MAE 316 Analy. of Engr. Sys. 3 A K 2 MAE 321 Applied Thermodynamics 3 E H J 3 MAE 322 Thermal and Fluids Lab. 3 B G J 2 MAE 331 Fluid Mechanics 3 A J 2 MAE 342 Intermed. Mech. Mails. 3 A J 2 MAE 343 Intermed. Mech. Mails. 3 A K 2 MAE 342 Machine Design and Mfs. 3 C H J 3 MAE 454 Machine Design and Mfs. 3 C E H J 3 MAE 454 Machine Design and Mfs. 3 C E K 2 MAE 471 Prin. of Engr. Design 3 C C E K 2 <td></td> <td></td> <td></td> <td></td> <td>С</td> <td>D</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					С	D		<u> </u>						
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MAE 243 Mech. of Materials	MAE 242 Dynamics													
MAE 244 Dynam. & Strength Lab 1 B K 2 MAE 316 Analy. of Engr. Sys. 3 A K 2 MAE 320 Thermodynamics 3 E H J 3 MAE 321 Applied Thermodynamics 3 B E H J 2 MAE 322 Thermal and Fluids Lab. 3 B G J 2 MAE 331 Fluid Mechanics 3 A J 2 MAE 342 Dynamics of Machines 3 A J 2 MAE 343 Intermed. Mech. Mails. 3 A I 1 2 MAE 432 Heat Transfer 3 C H J 3 K 2 MAE 454 Machine Design and Mfg. 3 C E H J 3 MAE 460 Automatic Controls 3 C E K 2 MAE 471 Prin. of Engr. Design 3 C D F G 4 No. of courses/outcome 55 5 3			11				E							
MAE 316 Analy. of Engr. Sys. 3 A B H J 3 MAE 320 Thermodynamics 3 B E H J 3 MAE 321 Applied Thermodynamics 3 B E J 2 MAE 321 Applied Thermodynamics 3 B G 2 2 MAE 321 Applied Thermodynamics 3 A J 2 2 MAE 331 Fluid Mechanics 3 A J 2 2 MAE 342 Dynamics of Machines 3 A B J 2 2 MAE 342 Dynamics of Machines 3 A B F F 2 2 MAE 411 Advanced Mechatronics 3 B B K 2 2 MAE 431 Machine Design and Mfg. 3 C E H J 3 MAE 454 Machine Design and Mfg. 3 C E K 2 MAE 471 Prin. of Engr. Design 3 C D F G <td>· ·</td> <td></td> <td></td> <td>B</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>K</td> <td></td>	· ·			B		X							K	
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MAE 321 Applied Thermodynamics 3 B E J 2 MAE 322 Thermal and Fluids Lab. 3 B G 2 MAE 321 Fluid Mechanics 3 A J 2 MAE 342 Dynamics of Machines 3 E F J 2 MAE 343 Intermed. Mech. Matls. 3 A I I 2 MAE 441 Advanced Mechatronics 3 B K 2 MAE 443 Heat Transfer 3 C H J 3 MAE 454 Machine Design and Mfg. 3 C E H J 3 MAE 456 CAD & Finite Elem. Ana. 3 C E K 2 MAE 450 Automatic Controls 3 C E K 2 MAE 450 CAD & Finite Elem. Ana. 3 C E K 2 MAE 450 CAD & Finite Elem. Ana. 3 C D F G 4 No. of courses/outcome 55 5 3 5 <td< td=""><td></td><td></td><td>11</td><td></td><td></td><td></td><td>E</td><td></td><td></td><td>Н</td><td></td><td>Ī</td><td>17</td><td>3</td></td<>			11				E			Н		Ī	17	3
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IENG 302 Manufacturing Processes 2 r r r r IENG 303 Manufact. Processes Lab 1 r r r r r EE 221 Intro. to Electrical Engr. 3 r r r r EE 222 Intro. to Electrical Engr. Lab 1 r r r r GEC (21 hours) 21 r r r r	MATH 261 Elem. Diff. Equations													
IENG 303 Manufact. Processes Lab 1 r					r	r					_			
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GEC (21 hours) 21 r r r				r										
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Outcome		ABET Assessment Team members To conduct Assessment of Year 2014
a	Ismail Celik, Yu Gu, Mario Perhinschi and Pat Browning	Outcome a "Graduates will have an ability to apply knowledge of mathematics, science and engineering."
b	Marvin Cheng, Alfred Lynam and Marcello Napolitano	Outcome b "Graduates will have an ability to design and conduct experiments, as well as to analyze data."
С	Ken Means, Terry Musho and Greg Thompson	Outcome c "Graduates will have an ability to design a system, component or process to meet desired needs."
d	Kostas Sierros, Jim Smith and Scott Wayne	Outcome d "Graduates will have an ability to function on multidisciplinary teams."
e	Ever Barbero, John Kuhlman, Andrew Nix and Jason Gross	Outcome e "Graduates will have an ability to identify, formulate and solve engineering problems."
f	Wade Huebsch and David Mebane	Outcome f "Graduates will have an understanding of professional and ethical responsibility."
g	Salva Akkerman, Cosmin Dumitrescu and Nithi Sivaneri	Outcome g "Graduates will have an ability to communicate effectively."
h	Victor Mucino and John Christian	Outcome h "Graduates will have the broad education necessary to understand the impact of engineering solutions in a global and societal context".
i	Xingbo Liu, Ed Sabolsky and Samir Shoukry	Outcome i "Graduates will have a recognition of the need for, and an ability to engage in, life-long learning".
j	Bruce Kang, Sam Mukdadi and Nick Wu	Outcome j "Graduates will have knowledge of contemporary issues."
k	Larry Banta, Hailin Li and Xueyan Song	Outcome k "Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice."

MECHANICAL ENG	INEERIN	NG			D		0	utcome D-20	014				
"Graduates will have a	Assessment Outcome D. "Graduates will have an ability to function on multidisciplinary teams."							Assessment Team: Kostas Sierros, Jim Smith and Scott Wayne					
and/or solution	PI1. Use of various areas/disciplines in engineering problem formulation and/or solution							rformance Indi	cators:				
PI2. Use of team organ reporting, monitor PI3. Grade average for	team effo	ort.	nning, task di	stribution,		Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)			
Performance: P = (PI1 + PI2 + GA) / 3 P = Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA = Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt scale, multiply by 1.25)						Use of only one discipline	A second discipline used but with unbalanced emphasis	A second discipline used with balanced emphasis	Two or more disciplines used with appropriate balance in emphasis	Two or more disciplines used with appropriate balance in emphasis and explained well			
					PI2	No organizational tools used	Some planning tools used but no follow up	Planning tools used with some follow up	Planning tools used with follow up reports	Planning tools used with follow up reports and discussion			
Course/Term Pl	Performance		0	bservations	(Score expla	anation)							
MAE 211	MAE 211												
MAE 244													
MAE 471	MAE 471												
Overall 1	Performa	nce 2014											
A	verage 20)13							-				

Follow-up or Corrective Actions:	Responsible Person/Team/Cmte.
	To: AE CC
	To: Instructor (by Course)
	To: Instructor (by Course)
	To: Instructor (by Course)

MECHANICAL EN	Outcome D-2014									
		nent Outcome						ssment Tean		
"Graduates will h	ave an ability	to function on	multidisciplina	ry teams."	Kostas Sierros, Jim Smith and Scott Wayne					
DI1 Use of verious		ance Indicator				Pubrice for I	Performance In	dicators		
and/or solution	PI1. Use of various areas/disciplines in engineering problem formulation and/or solution							errormance m	uicators.	
PI2. Use of team org			g, task distribut	tion,		Poor	Fair	Good	Very good	Excellent
reporting, moni						(1)	(2)	(3)	(4)	(5)
Performance: P = 0 P = P PI1 = PI2 = GA=	PI3. Grade average for the entire class. Performance: P = (PI1 + PI2 + GA) / 3 P = Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA = Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt scale, multiply by 1.25)						A second discipline used but with unbalanced emphasis	A second discipline used with balanced emphasis	Two or more disciplines used with appropriate balance in emphasis	Two or more disciplines used with appropriate balance in emphasis and explained well
					PI2	No organizatio nal tools used	Some planning tools used but no follow up	Planning tools used with some follow up	Planning tools used with follow up reports	Planning tools used with follow up reports and discussion
Course MAE 211	PI1	PI2	Class Grade Ave.	Average		C	Observation	s (Score exp	lanation)	
Key Asg. 1 (HW)										
Key Asg. 2 (HW)	(ey Asg. 2 (HW)									
Key Asg. 3 (HW)	• 9									
Test 1 (Problem)	` '									
Test 2 (Problem)										
Other (Project)										

Total Average				
Ov	erall Perforn	nance 2014		
Ov	erall Perforn	nance 2013		
Follow-up or Corre	ctive Actions	Responsible Person/Team/Cmte.		
			To: AE CC	
				To: Instructor (by Course)

MECHANICAL EN	MAE 244			Outcom	e D-2014							
//G 1		ent Outcome				**		ssment Tean				
"Graduates will h	"Graduates will have an ability to function on multidisciplinary teams."							Kostas Sierros, Jim Smith and Scott Wayne				
DII II. of and		nance Indicators		1/								
solution	PI1. Use of various areas/disciplines in engineering problem formulation and/or solution							Performance In	dicators:			
PI2. Use of team organ monitor team eff		for planning, ta	sk distribution, re	eporting,		Poor	Fair	Good	Very good	Excellent		
PI3. Grade average for		SS.				(1)	(2)	(3)	(4)	(5)		
Performance: P = (PI1 + PI2 + GA) / 3 P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt scale, multiply by 1.25)						Use of only one discipline	A second discipline used but with unbalanced emphasis	A second discipline used with balanced emphasis	Two or more disciplines used with appropriate balance in emphasis	Two or more disciplines used with appropriate balance in emphasis and explained well		
					PI2	organizatio nal tools used	planning tools used but no follow up	tools used with some follow up	tools used with follow up reports	used with follow up reports and discussion		
Course MAE 244	PI1	PI2	Class Grade Ave.	Average		C	Observation	s (Score exp	olanation)			
Key Asg. 1 (HW)												
Key Asg. 2 (HW)												
Key Asg. 3 (HW)												
Test 1 (Problem)	` '											
` '	Γest 2 (Problem)											
Other (Project)												
Total Average												

Overall Performance 2014		
Overall Performance 2013		
Follow-up or Corrective Actions:		Responsible Person/Team/Cmte.
		To: AE CC
		To: Instructor (by Course)

MECHANICAL EN	GINEERIN	$\overline{\mathbf{G}}$		MAE 471			Outcom	e D-2014			
"Graduates will ha		ent Outcome I to function on r		ry teams."		Kost		ssment Tear im Smith an		ne	
	Performance Indicators: PI1. Use of various areas/disciplines in engineering problem formulation and/or solution						Rubrics for Performance Indicators:				
PI2. Use of team org reporting, monit PI3. Grade average f	tion,		Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)				
Performance: P = (PI1 + PI2+PI3 + GA) / 4 P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 PI3 = Performance Indicator 3 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt scale, multiply by 1.25)						Use of only one discipline	A second discipline used but with unbalanced emphasis	A second discipline used with balanced emphasis	Two or more disciplines used with appropriate balance in emphasis	Two or more disciplines used with appropriate balance in emphasis and explained well	
					PI2	No organization al tools used	Some planning tools used but no follow up	Planning tools used with some follow up	Planning tools used with follow up reports	Planning tools used with follow up reports and discussion	
Course MAE 471	PI1	PI2	Class Grade Ave.	Average			Observation	ns (Score ex	planation)		
Key Asg. 1 (HW)											
Key Asg. 2 (HW)											
Key Asg. 3 (HW)											
Test 1 (Problem)	,										
Test 2 (Problem)	` '										
Other (Project) Total Average											
	erall Perforn	nance 2014									

Overall Performance 2013	
Follow-up or Corrective Actions:	Responsible Person/Team/Cmte.
	To: AE CC
	To: Instructor (by Course)

Assessment Tool:

Alumni Survey

MAE Alumni Survey of Educational Success

Dear Alum, in an effort to improve the quality of our Educational Programs in Mechanical and Aerospace Engineering, we would like to request few minutes of your time to help us assess the level of attainment of our Educational Objectives and Learning Outcomes that our graduates exhibit in the development of their professional activity. This survey will serve as a tool for the assessment of our Program and is not intended to be used to evaluate you individually.

Please tell us your year of graduation and the degree that you earned.

TL:	:-		المصندة	~~~~4:~~
THIS	IS	a reg	luirea	question

In my work, I am able to apply knowledge of math, science and engineering effectively.

- Strongly Agree
- o O Agree
- Neutral
- o O Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to design and conduct experiments, and analyze data.

- Strongly Agree
- Agree
- Neutral
- o O Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to design a system, component or process to meet desired needs and constraints.

- Strongly Agree
- Agree
- o Neutral
- o O Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to function productively on multidisciplinary teams.

- Strongly Agree
- o O Agree
- Neutral

0	O Di	sagree
0	O Str	rongly Disagree
0		ot Applicable
This is		uired question
n my	worl	k, I am able to identify, formulate and solve engineering problems.
0	O Str	rongly Agree
0	O Ag	gree
0	O Ne	eutral
0	O Di	sagree
0	O Str	rongly Disagree
0	\circ No	ot Applicable
This is	a requ	uired question
n my	work	k, I have a good understanding of professional and ethical responsibility.
0	O Str	rongly Agree
0	○ Ag	gree
0	O Ne	eutral
0	O Di	isagree
0	O Str	rongly Disagree
0	\circ No	ot Applicable
This is	a requ	uired question
n my	work	k, I am able to communicate effectively, both verbally and in writing.
0	O Str	rongly Agree
0	O Ag	gree
0	O Ne	eutral
0	O Di	isagree
0	O Stı	rongly Disagree
0		ot Applicable
		uired question
n my	work	k, I understand the impact of engineering solutions in a global and societal
conte	xt.	
0	O Str	rongly Agree
0	○ Ag	gree
0	O Ne	eutral
0	O Di	sagree
0	O Str	rongly Disagree
0		ot Applicable
	_	uired question
n my	work	k, I recognize the need for, and engage in, life-long learning.
0	O Stı	rongly Agree
0	_	gree
0	O Ne	
0		sagree
0		rongly Disagree
0		ot Applicable
This is	s a regi	uired question

In my work, I am aware of and appreciate contemporary engineering issues.

• Strongly A	gree					
Agree						
 Neutral 						
 O Disagree 						
 Strongly D: 						
 Not Applic 	able					
This is a required que	estion					
In my work, I am j	proficient in the	e use of techniq	ques, skills and	modern tools	necessary for	
engineering practi	ce.					
 Strongly A 	gree					
 Agree 						
 Neutral 						
 O Disagree 						
O Strongly Da	isagree					
 Not Applic 	•					
This is a required que						
In my work, I am j		et the varying	demands of the	workforce in	the	
technological aren	_	·				
 Strongly A 						
o O Agree	6					
• Neutral						
 O Disagree 						
Strongly D:	isagree					
Not Applic	_					
This is a required que						
Please add comme		rify or add to	anv of vour ans	swers above, or	r to provide	
general comments		•	•	· ·	-	
the MAE departm			•	one way journ		
		jour jour				
This is a required que	estion					
In general, How w		ourself in the f	ollowing catego	ories		
3	Poor	Fair	Good	Very Good	Excellent	
Your proficiency in your field	0		0	0		
Your drive to learn on your own.	0	0	\circ	0	0	
Your preparedness						
to meet the demands of the job-market	0	0			0	
Please enter one respo	onse per row					
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Assessment Tool:

Employer Survey

Employer Survey of MAE Graduates

Dear Employer, in an effort to improve the quality of our Educational Programs in Mechanical and Aerospace Engineering, we would like to request few minutes of your time to help us assess the level of attainment of our Educational Objectives and Learning Outcomes that our graduates exhibit in the development of their professional activity in your company. This survey will serve as a tool for the assessment of our Program and is not intended to be used to evaluate the graduate's work for you or in your company.

Please tell us how many WVU MAE graduates you employ, and for how long.

This is a required question

WVU MAE graduates in my employ are able to apply knowledge of math, science and engineering effectively.

- Strongly Agree
- o O Agree
- Neutral
- o O Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to design and conduct experiments, and analyze data.

- Strongly Agree
- o O Agree
- Neutral
- o O Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to design a system, component or process to meet desired needs and constraints.

- Strongly Agree
- o O Agree
- Neutral
- o O Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to function productively on multidisciplinary teams.

- Strongly Agree
- o O Agree

○ ○ Neutral	
D:	
 Strongly Disagree Not Applicable 	
his is a required question	
VVU MAE graduates in my employ are able to identify, formulate and solve enginee	ring
roblems.	img
Strongly Agree	
O Agree	
Neutral	
o O Disagree	
 Strongly Disagree 	
 Strongry Disagree Not Applicable 	
his is a required question	
VVU MAE graduates in my employ have a good understanding of professional and ϵ	thical
esponsibility.	, ciii cui
Strongly Agree	
• O Agree	
Neutral	
o O Disagree	
 O Strongly Disagree 	
 O Not Applicable 	
his is a required question	
VVU MAE graduates in my employ are able to communicate effectively, both verbal	lv and
writing.	ly tillu
Strongly Agree	
• Agree	
 Neutral 	
o O Disagree	
 Strongly Disagree 	
 Not Applicable 	
his is a required question	
VU MAE graduates in my employ understand the impact of engineering solutions i	in a
obal and societal context.	
Strongly Agree	
○ ○ Agree	
o O Neutral	
o O Disagree	
Strongly Disagree	
Not Applicable	
his is a required question	
VVU MAE graduates in my employ recognize the need for, and engage in, life-long	
arning.	
○ Strongly Agree	
○ ○ Agree	
∘ ○ Neutral	

0 0	Disagree					
0						
0						
	This is a required question					
WVU M	AE graduates in n	ny employ are awa	re of and app	reciate contempo	rary	
engineeri	ng issues.					
0	Strongly Agree					
_	Agree					
	Neutral					
0	Disagree					
	Strongly Disagree					
	Not Applicable					
	equired question					
		ny employ are pro	ficient in the	use of techniques.	skills and	
	_	engineering prac		1)		
	Strongly Agree	ong				
	Agree					
	Neutral					
	Disagree					
	Strongly Disagree					
	Not Applicable					
	equired question					
		ny employ are pre	nared to meet	the varying dema	ands of the	
	e in the technolog			, j - g		
	Strongly Agree	icai ai ciia.				
	o O Agree					
	Neutral P:					
	Disagree					
	Strongly Disagree					
	Not Applicable					
	equired question	v to alanify an add	to any of you	u angruang ahaya	an ta muavida	
		w to clarify or add				
_		ne level of satisfact	ion you nave	with graduates of	the MAE	
aepartmo	ent at WVU.	1				
	equired question					
In genera	l, How would you	rate WVU MAE	graduates in	the following cate	gories	
	Poor	Fair	Good	Very Good	Excellent	
Proficienc	ev in					
his/her fie		0		0	0	
Drive to 1	earn on	0				
his/her ov	7n					
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meet the of the job		O	0	O	O	

Please enter one response per row

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