PASCOR

SAMPLE ASSESSMENT TOOLS

- 1. MEEP Industry Survey
- 2. MEEP Student Survey
- 3. ADMI 3100 Teamwork Experiences Assessment Form
- 4. ADMI 3100 Written Report Assessment
- 5. ADMI 3100 Oral Presentation Assessment
- 6. ADMI 3100 Peers Evaluation Form
- 7. ADMI Lecturer Evaluation Form
- 8. MEEP GENERIC Course Evaluation and Assessment of Skills and Knowledge

Manufacturing Engineering Education Partnership MEEP INDUSTRY SURVEY

The Learning Factory is a new practice based curriculum and physical facilities for product realization that has been developed at three institutions: Penn State, the University of Washington, the University of Puerto Rico at Mayagüez in collaboration with Sandia National Labs. Its goal is to provide an improved educational experience that emphasizes the interdependency of manufacturing and design in a business environment. The key element in this approach is active learning - the combination of curriculum revitalization with coordinated opportunities for application and hands on experience.

This questionnaire has been designed to assess the performance and products of this program. Please answer it to the best of your knowledge.

Name:					
Company:					
Partner University:	SU []UW	/ []0	ther		
Your Involvement wi [] Member of Industri [] Other	al Partner Board	[] Expert in t	he classroom[] Inv	volved with students projec	ts
Instructions:					
described. Please fill in	n the numbered circ he experiences you	le which indicate were exposed to	es THE DEGREE T and provided by th	gineering Partnership (MER O WHICH YOU AGREE e program. If you have no	that each
The program allowed s [] Strongly Agree	students to practice [] Agree	engineering scie		the solution of real proble [] Strongly Disagree	ems. [] N/A
Professional communication [] Strongly Agree	cations skills were e	enhanced. [] Neutral	[] Disagree	[] Strongly Disagree	[] N/A
Team work skills were [] Strongly Agree	enhanced. [] Agree	[] Neutral	[] Disagree	[] Strongly Disagree	[] N/A
The partner schools lea [] Strongly Agree	arned from each oth	er's experience. [] Neutral	[] Disagree	[] Strongly Disagree	[] N/A
Resources and ideas w [] Strongly Agree	rere shared, avoiding [] Agree	g redundant effor [] Neutral	rts. [] Disagree	[] Strongly Disagree	[] N/A
Real life problems wer	re provided. [] Agree	[] Neutral	[] Disagree	[] Strongly Disagree	[] N/A
New technologies for ([] Strongly Agree	communication wer	e utilized on cur [] Neutral	riculum content. [] Disagree	[] Strongly Disagree	[] N/A
The local Industrial Act	dvisory Board (IAB)) provided quali [] Neutral		eration guidance to the loca [] Strongly Disagree	l institution.

The local IAB supported ME [] Strongly Agree []		providing financia	al and/or non finar	ncial resources. [] Strongly Disagree	[] N/A
There was good communicat [] Strongly Agree []		lustrial sponsors a [] Neutral	nd the institution. [] Disagree	[] Strongly Disagree	[] N/A
Each institution provided the [] Strongly Agree []		nformation in a tii	mely fashion. [] Disagree	[] Strongly Disagree	[] N/A
The MEEP's Industrial Advis [] Strongly Agree []		B) evaluated the or [] Neutral	verall progress of [] Disagree	the program. [] Strongly Disagree	[] N/A
The partnership reported pro	-	ties related to part [] Neutral	icipation in curric [] Disagree	ulum development. [] Strongly Disagree	[] N/A
The MEEP's IAB provided states [] Strongly Agree []		s/activities that ar [] Neutral	e relevant to the p [] Disagree	rogram. [] Strongly Disagree	[] N/A
The partnership reported pro		ties related to part [] Neutral	icipation in the cl	assroom teaching. [] Strongly Disagree	[] N/A
Students completing the ME [] Strongly Agree []		more useful to ou [] Neutral	r industry. [] Disagree	[] Strongly Disagree	[] N/A
My Industry and company is [] Strongly Agree []		hire a MEEP train [] Neutral	ed student than a	traditionally trained student [] Strongly Disagree	t. [] N/A
Would you encourage other o	companies to pa	rrticipate in the pro	ogram and coalition	on? Why?	
What can be improved with I	MEEP?				
Comments:					

Manufacturing Engineering Education Partnership MEEP STUDENT SURVEY

The Learning Factory is a new practice based curriculum and physical facilities for product realization. Its goal is to provide an improved educational experience that emphasizes the interdependency of Manufacturing and design in a business environment. The key element in this approach is active learning - the combination of curriculum revitalization with coordinated opportunities for application and hands on experience.

University: [] UPR-M	[]PSU	[]UW		[] Other				
Major: [] Mechanical I [] Other	Eng.	[] Chemical Eng	j.	[] Industrial Eng.				
[] Graduate stud	dent	[] Undergraduat	e student					
Involvement with MEEP: [] Taken 1 course [] Taken more than 1 course [] Research Assistant [] Other								
The program courses at your institution were offered as: (Check all that apply) [] as part of a minor [] as electives [] as part of a degree option [] required for the major [] Other								
The courses we		[] engineering s	tudents on	ly [] students from	n only one department			
Instructions:								
The following items reflect some of the ways in which the Manufacturing Engineering Partnership (MEEP) can be described. Please fill in the checkbox which indicates THE DEGREE TO WHICH YOU AGREE that each item is descriptive of the experiences you were exposed to and provided by the program. If you have no information or feel an item does not apply, please fill in the N/A checkbox.								
The program all [] Strongly Agr		to practice engine [] Agree	eering scie		solution of real problems. [] Strongly Disagree	[] N/A		
Professional cor [] Strongly Agr		ons skills were er [] Agree	nphasized [] Neutr		[] Strongly Disagree	[] N/A		
Team work skill [] Strongly Agr		phasized. [] Agree	[] Neutr	al [] Disagree	[] Strongly Disagree	[] N/A		
Case studies we [] Strongly Agr		vely used in the co	ourses. [] Neutr	al [] Disagree	[] Strongly Disagree	[] N/A		
Active learning [] Strongly Agr		were extensively [] Agree	used in the		[] Strongly Disagree	[] N/A		
Computer techn [] Strongly Agr		ere extensively us [] Agree	ed in the c		[] Strongly Disagree	[] N/A		
Hands-on engin [] Strongly Agr		eriences were ext	ensively u [] Neutr	ised in the classroom.	[] Strongly Disagree	[] N/A		
The courses wer		industrial like se [] Agree	tting.	al [] Disagree	[] Strongly Disagree	[] N/A		

The MEEP courses you to	ook had more designation [] Agree	gn/manufacturing [] Neutral	content than other [] Disagree	similar courses at your ins [] Strongly Disagree	titution. [] N/A	
The Learning Factory (LF of products and processes		ith a fully integrate	ed activity center f	for the creation and implem	entation	
[] Strongly Agree	[] Agree	[] Neutral	[] Disagree	[] Strongly Disagree	[] N/A	
The LF facility was well ([] Strongly Agree	equipped to give n [] Agree	ne real life experie [] Neutral	nce in "state of the	e art" processes. [] Strongly Disagree	[] N/A	
The LF facility was profe [] Strongly Agree	ssionally staffed to	o allow me to expe [] Neutral	riences the production [] Disagree	ct/process realizations. [] Strongly Disagree	[] N/A	
I feel that my participation [] Strongly Agree	n in the MEEP Pro	ogram has improve [] Neutral	ed my career oppo [] Disagree	rtunities. [] Strongly Disagree	[] N/A	
I learn better from classro [] Strongly Agree	om lecture then ha	ands-on laboratory [] Neutral	experience. [] Disagree	[] Strongly Disagree	[] N/A	
The MEEP courses provid	ded more to my pr	ofessional develop	oment than typical [] Disagree	courses. [] Strongly Disagree	[] N/A	
My MEEP course(s) were	more fun than my	y typical engineeri [] Neutral	ng courses. [] Disagree	[] Strongly Disagree	[] N/A	
Because of the MEEP cou	irses, I have a mud	ch better understan [] Neutral	ding of what enging [] Disagree	neering is. [] Strongly Disagree	[] N/A	
As a result of this course, [] Strongly Agree	I am more confide	ent in my ability to [] Neutral	solve real-life pro	oblems. [] Strongly Disagree	[] N/A	
As a result of this course, I feel more confident in my abilities to process information, and teach myself new things, without the aid of an instructor.						
[] Strongly Agree	[] Agree	[] Neutral	[] Disagree	[] Strongly Disagree	[] N/A	
The MEEP instructors we [] Strongly Agree	re superior to my	typical university	instructors. [] Disagree	[] Strongly Disagree	[] N/A	
COMMENTS:						

University of Puerto Rico Mayagüez Campus ADMI 3100 - TECHNOLOGY BASED ENTREPRENEURSHIP

TEAMWORK EXPERIENCES ASSESSMENT FORM

Please answer the following questions regarding your work as a team for the completion of the required task.

1.	In chronological order, list what your team did during the design phase. Explain how tasks were distributed, how decisions were made.
2.	What facilitated the decision-making process?
3.	What was your contribution to the team when decisions had to be taken?
4.	What do you think you would like to do differently the next time when working in a team?
NT A	ME TEAM
NA	AMETEAM

University of Puerto Rico Mayagüez Campus ADMI 3100 - TECHNOLOGY BASED ENTREPRENEURSHIP

WRITTEN REPORT ASSESSMENT

Name	
Team	date
Evaluator	
Report Title	

CATEGORY	ASSESSMENT
Cover, title page, table of contents, list of figures, etc.	/10
Abstract	/15
Introduction*	/10
Body*	/20
Conclusions/recommendations*	/15
Language/grammar/clarity	/05
Figures/tables	/05
Bibliography/references	/05
GENERAL	/15
TOTAL	/100

- * Considerations for the FINAL REPORT ONLY:
 - Market definition/product need
 - Goals & objectives of design
 - Work/action Plan
 - Knowledge & application of concepts
 - Engineering method
 - Other

COMMENTS:

University of Puerto Rico Mayagüez Campus ADMI 3100 – TECHNOLOGY BASED ENTREPRENEURSHIP

ORAL PRESENTATION ASSESSMENT

Name of the Company:								
Team	Date	Evaluator						
							-	
Part 1 - PRESENTATION								
CATEGORY			0	1	2	3	4	5
Organization								
Level								
Knowledge of Material								
Time								
Delivery/Transmission of N	/Iaterial							
Quality of Language								
Order								
Management of Questions								
Ability to Discuss Project and								
Personal Appearance/Manne	ers							
TOTAL								
DADE A GOVERNIE								
PART 2 - CONTENTS						_		
CATEGORY			0	1	2	3	4	5
Introduction/Background								
Body								
Conclusion								
TOTAL								
D 1 0 11								
Part 3 – Overall					_	_		
CATEGORY			0	1	2	3	4	5
Overall Quality of the Prese								
Perception of Potential Succ		ive Forum						
Perception of Potential in A	chieving Results							
TOTAL								
CD AND TOTAL			I	I	I	1		
GRAND TOTAL								

COMMENTS:

University of Puerto Rico Mayagüez Campus ADMI 3100 – TECHNOLOGY BASED ENTREPRENEURSHIP

PEER EVALUATION FORM

Name of the Company:		
Team Date		
Evaluator (VOLUNTARY)		
Please describe the effort of your peers so far.		
Use the following code for evaluation:		
3 Excellent job	2 Did his/her share	
1 We had to force him/her to work	0 Did not work at a	
Write the name of your team members in the table below	ow and evaluate then	n.
Student Name	Evaluation	Evaluation
	(From 0 to 3)	(From 0 to 100%)

Comments:

University of Puerto Rico Mayagüez Campus ADMI 3100 – TECHNOLOGY BASED ENTREPRENEURSHIP

PROFESSOR/LECTURER EVALUATION FORM

Lecture Title:	Speaker:	Da	ate:			
Please evaluate the organization high.	on, contents and effec	ctiveness of the le	cture, using t	he following s	cale: 1 = low	, 5 =
CATEGORY/ITEM		LOW 1	2	3	4	HIGH 5
Organization						
Overall Quality						
Clarity in Exposure						
Comprehension of Material Pr						
Adequacy of Materials, Illustra	ations, Examples					
Teaching Methodology						
Knowledge of Subject						
Ability to Transmit Knowledg	e					
Explanations and Illustrations	/					
My ability to use this New Info						
My Overall Understanding of	the Subject					
Evaluator (voluntary):						
Please answer briefly the follo	wing questions and p	olease feel free to	add any com	ments on the b	ack.	
1. What did you like about the	ne lecture?					
2. What did you dislike?						
2 Suggestions to impress th	a lastura?					
3. Suggestions to improve the	ie iecture?					

MANUFACTURING ENGINEERING EDUCATION PARTNERSHIP

MEEP University of Puerto Rico

University of Puerto Rico Mayagüez Campus

COURSE EVALUATION And ASSESSMENT OF SKILLS and KNOWLEDGE

Course:			
Instructo	r:		

The purpose of this assessment is:

- to determine your perception of mastery/level of knowledge and skills developed by the students in this course, and
- to establish the effectiveness of lectures and experiences, as well as of the logistics used.

The results of this assessment will help the instructor in charge of the course to better plan and adjust the course's agenda in the future.

PART I: GENERAL OBJECTIVES AND SKILLS

Directions:

Using the scale below, please evaluate (*) your perception of the mastery of skills and experience the students developed in this course in the areas specified.

N: no skills/no experience

R: rudimentary skills/very little experience

F: functionally adequate skills/some experience

A: advance skill/extensive experience

area	*
skill 1	
skill 2	
objective 1	
objective 2	

PART II: CONTENT, LECTURES AND EXPERIENCES

Directions:

In this part, please indicate (*) your perception of the lectures and activities' effectiveness, using the following scale:

0: not effective; would eliminate

1: moderately effective; significant changes (specify)

2: effective; minor changes (specify)

3: very effective; would not change

module/lectures	*	comments
Module 1: TITLE		
Module 2: TITLE		
Module n: TITLE		

PART III: COURSE LOGISTICS

Directions:

Please indicate (*) how you feel regarding the various aspects designed for the course, using the following scale:

0: inadequate; disliked, needs re-engineering!1: somewhat adequate; needs enhancement

2: adequate; minor changes3: adequate; no change

area	*	comments
Number of meetings		
Kinds of assessment techniques		
Requirements		
Number of lectures		
Number of plant trips		
Topics covered		
Course coordination		
Other:		

Would you recommend this course to other students? Explain.
Do you think your expectations were met? YES/NO. Explain.
1E3/NO. Explain.
Suggestions:
Suggestions.
Your overall rating of the course:/10.