Mechanical Engineering DEME

Program Mission Statement

Program Mission Statement (Full Description):
To empower engineering and technology professionals to apply the evolving engineering skills required for achieving and maintaining a competitive advantage in a fast-paced global economy.

Does your program offer courses at an off-campus instructional site (not at SMU Dallas campus)?: No

Does your program offer courses through distance education technology (e.g., asynchronous, synchronous, or both)?: Yes

During which academic year were students first enrolled in this program?: Prior to AY2020-2021

Progress: Complete

1 Business enterprise

Step 1C: PLO Statement (Full Description):
Student demonstrates an understanding of how the engineering function supports and interacts with the business enterprise.

Step 2A: Measure :
The outcome is assessed by a qualifier exam administered by the director of the Master of Science in Management program.

Step 2B: Type of Measure (check all that apply): Qualifying exam

Step 2C: Is Measure direct or indirect?: Direct

Step 3A: Target for Measure:
The score on the qualifier exam will be 85% or higher.

Step 4A: Was the target met for this Measure?: No Students Enrolled

Step 4B: Results and Findings for this Measure:
Step 4C: Interpretation of Results :
NA

Step 5A: Use of Results for Seeking Improvement (Action Plan) :
NA

Step 5B: Type of Action: No action - New/low-enrolled program

Step 5C: Dialogue Participants (check all that apply): Administrator

Step 5D: Evidence of Dialogue :
NA

Step 5E: Type of other Improvements (check all that apply): Other

Step 5F: Other Improvements (Full Description):
NA

Step 6A: Status Update on Action(s) Identified in the Previous Assessment Cycle (Full Description):
Only one student has participated in this program and has graduated. There is not enough data on this program to justify an action plan to make changes.

Step 6B: Status Update on Previously Identified Action Plan(s): Not started

Progress: Complete

2 Research directions

Step 1C: PLO Statement (Full Description):
Student demonstrates the ability to identify research directions independently.

Step 2A: Measure :
The praxis defense examination committee members evaluate the student performance.

Attached Files
📄 DE-ME_praxis_defense_rubric.pdf

Step 2B: Type of Measure (check all that apply): Dissertation defense

Step 2C: Is Measure direct or indirect?: Direct

Step 3A: Target for Measure:
The total of the unweighted averaged satisfactory and exemplary rubric levels will be 85% or higher.

Step 4A: Was the target met for this Measure?: No Students Enrolled

Step 4B: Results and Findings for this Measure:
NA

Step 4C: Interpretation of Results :
NA

Step 5A: Use of Results for Seeking Improvement (Action Plan) :
NA

Step 5B: Type of Action: No action - New/low-enrolled program

Step 5C: Dialogue Participants (check all that apply): Administrator

Step 5D: Evidence of Dialogue :
NA

Step 5E: Type of other Improvements (check all that apply): Other

Step 5F: Other Improvements (Full Description):

NA

Step 6A: Status Update on Action(s) Identified in the Previous Assessment Cycle (Full Description):
Only one student has participated in this program and has graduated. There is not enough data on this program to justify an action plan to make changes.

Step 6B: Status Update on Previously Identified Action Plan(s): Not started
Progress: Complete

3 Literature

Step 1C: PLO Statement (Full Description):
Student demonstrates expert knowledge of the literature in a sub area of mechanical engineering.

Step 2A: Measure :
The praxis defense examination committee members evaluate the student performance.

Attached Files
📄 DE-ME_praxis_defense_rubric.pdf
Step 2B: Type of Measure (check all that apply): Dissertation defense
Step 2C: Is Measure direct or indirect?: Direct
Step 3A: Target for Measure:
The total of the unweighted averaged satisfactory and exemplary rubric levels will be 85% or higher.

Step 4A: Was the target met for this Measure?: No Students Enrolled
Step 4B: Results and Findings for this Measure:
NA

Step 4C: Interpretation of Results :
NA

Step 5A: Use of Results for Seeking Improvement (Action Plan) :
NA

Step 5B: Type of Action: No action - New/low-enrolled program
Step 5C: Dialogue Participants (check all that apply): Administrator
Step 5D: Evidence of Dialogue :
NA

Step 5E: Type of other Improvements (check all that apply): Other
Step 5F: Other Improvements (Full Description):
NA

Step 6A: Status Update on Action(s) Identified in the Previous Assessment Cycle (Full Description):
Only one student has participated in this program and has graduated. There is not enough data on this program to justify an action plan to make changes.

Step 6B: Status Update on Previously Identified Action Plan(s): Not started
Progress: Complete

4 Explain and document research

Step 1C: PLO Statement (Full Description):
Student demonstrates the ability to clearly explain and document his/her research.

Step 2A: Measure :
The praxis defense examination committee members evaluate the student performance.

Attached Files
📄 DE-ME_praxis_defense_rubric.pdf
Step 2B: Type of Measure (check all that apply): Dissertation defense
Step 2C: Is Measure direct or indirect?: Direct
Step 3A: Target for Measure:
The total of the unweighted averaged satisfactory and exemplary rubric levels will be 85% or higher.

Step 4A: Was the target met for this Measure?: No Students Enrolled
Step 4B: Results and Findings for this Measure:
NA

Step 4C: Interpretation of Results :
NA

Step 5A: Use of Results for Seeking Improvement (Action Plan) :
NA

Step 5B: Type of Action: No action - New/low-enrolled program
Step 5C: Dialogue Participants (check all that apply): Administrator
Step 5D: Evidence of Dialogue :
NA

Step 5E: Type of other Improvements (check all that apply): Other
Step 5F: Other Improvements (Full Description):

NA

Step 6A: Status Update on Action(s) Identified in the Previous Assessment Cycle (Full Description):
Only one student has participated in this program and has graduated. There is not enough data on this program to justify an action plan to make changes.

Step 6B: Status Update on Previously Identified Action Plan(s): Not started

Progress: Complete

1 Best practices

Step 1C: PO Statement (Full Description):
The program will have impact on industry best practices through knowledge and results produced as part of the praxis research.

Step 2A: Measure :
Evaluated at the praxis defense by the industrial member of the examination committee.

Step 2B: Is Measure direct or indirect?: Direct

Step 3A: Target for Measure:
The target core for students is 85% or higher.

Step 4A: Was the target met for this Measure?: No data collected/reported this cycle (provided explanation)

Step 4B: Results and Findings for this Measure:
No students are currently enrolled in the Doctor of Engineering program.

Attached Files
📄 DE-ME_praxis_defense_rubric.pdf

Step 4C: Interpretation of Results :
NA

Step 5A: Use of Results for Seeking Improvement (Action Plan) :
NA

Step 5B: Dialogue Participants (check all that apply): Administrator

Step 5C: Evidence of Dialogue :
NA

Step 5D: Type of other Improvements (check all that apply):

Step 5E: Other Improvements (Full Description):

Step 6A: Status Update on Action(s) Identified in the Previous Assessment Cycle (Full Description):
Only one student has participated in this program and has graduated. There is not enough data on this program to justify an action plan to make changes.

Step 6B: Status Update on Previously Identified Action Plan(s): Not started

Progress: Complete