COLLEGE ANNUAL ASSESSMENT REPORT

Assessed Year: 2018-2019

College: Engineering, Technology, & Computer Science

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Report Date: 2/24/20

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Section 1: Summary of Findings

The following undergraduate programs within the College of ETCS submitted an assessment report: Civil, Electrical, Computer and Mechanical Engineering; Computer Science; Construction Management; Industrial Engineering, Information, Computer Engineering, Electrical Engineering, and Mechanical Engineering Technology; and Organizational Leadership. All of these reports were reviewed by the college committee. The major findings based on these reviews include the following:

1. Most programs within the college are ABET-accredited, so review processes are fairly well established and multiple stakeholders are involved in the assessment process. This is particularly evident in the engineering programs.
2. All of the programs have clearly stated student learning outcomes, most of the ABET accredited programs are using the new student learning outcomes.
3. Some of the reports are well organized and results are clearly presented. Specific suggestions were provided to some programs regarding the organization of the report or the brevity of the reporting of results. These have been noted in the memos sent to the chairs of the respective programs.
4. While some programs reported historical data, others do not. Most could include more information on how curricular and pedagogical changes have influenced student learning.
5. While multiple types of measurements are used by some programs to assess learning, some only appear to use either direct or indirect measures.
6. Most of the programs provide recommendations for improvements based on their assessment results.
7. Many programs do a good job disseminating reports to the faculty and industrial advisory boards. However, some do not explicitly state who was involved in producing the report and to whom it was disseminated.
8. Some recommendations were provided regarding the assessment plans of the programs within the School of Polytechnic since these programs are revamping their plans.

Section 2: Recommendations for Academic Departments

Each program's plans, reports, and committee memos from previous years are on One Drive so all members of the ETCS Assessment Committee had access to this year's and prior year's work. This year each program's report within the college was reviewed by two members of the ETCS Assessment Committee. Each team (comprised of two committee members) after reviewing their assigned reports, drafted a memo that provided a summary of their feedback and recommendations. The Associate Dean, who chairs the committee, edited the memos if needed and occasionally asked a team to clarify or provide more information. All the memos submitted to the chairs and the dean are attached. Specific recommendations for academic departments are provided within the memos.

Section 3: Results of Activities Related to Prior Year Findings

This is still a work in progress. Most programs within the college can improve on their reporting of changes made and how these changes are currently being assessed. However, the following items are occurring:

1. The ETCS Assessment Committee followed the same protocol that was implemented two years ago. This has helped streamline the process immensely. The majority of the college committee membership remained the same this year, resulting in a smooth process. The committee members recognize the importance of the assessment process, however they expect to receive feedback regarding the college level report.
2. Many of the reports could more clearly address how they have used the college committee's feedback in their assessment processes.
3. Most programs need to include more historical data to clearly assess if improvement in student learning is occurring. A few programs (e.g., CE and ME) are doing a better job in this regard. Historical data, for example, suggests students' evaluation of their experiences in the laboratories has improved due to changes and investments made in those programs' labs.

Section 4: Conclusions and Future Directions

Overall, the college level review process went well and hopefully, the committee found reviewing other programs' plans and reports to be helpful. The committee will meet to discuss specific recommendations to improve the college level review/process and how we can further help programs improve their assessment efforts. Last year the School of Polytechnic focused on re-writing their assessment plan(s); this year all programs within the School submitted a report. Hopefully the feedback provided will be used to strengthen both their assessment processes and their report in the future. The college committee did not receive a report from Information Systems. We anticipate changing faculty assignments will result in an IS report in 2020. Some of the feedback the college committee provided indicated that the same feedback had been provided the previous year. We hope programs will carefully consider ways they can improve and address these issues.

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Attachments

1. Provide either letters to colleges describing your evaluation of their annual assessment report or the completed Appendix D Rubrics for all departments/programs in your college.
2. Attach all Departmental/Program Annual Assessment reports so that these can be published at http://www.ipfw.edu/offices/assessment/reports/reports-program.html.

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