Software Engineering BS

Ethical Principles And Management Skills

Goal Description:

To develop students' knowledge of ethical principles, technical skills, and management skills relevant to the field of computer software Engineering Technology.

Providing Department: Software Engineering BS

Progress: Completed

RELATED ITEMS/ELEMENTS -

RELATED ITEM LEVEL 1

Ethical Principles And Management Skills

Learning Objective Description:

Students will develop and demonstrate an understanding of the ethic considerations and management principles relevant to the field of Computer Software Engineering Technology.

RELATED ITEM LEVEL 2

SOs PEOs Assessments

Indicator Description:

Students performance were assessed based on the following:

- Software engineering's term project assessment, which include, project presentation, project functionality, faculty evaluation, and peer reviews.
- Student exit survey conducted in COSC 4319. It was implemented to evaluate students learning outcomes and PEOs

Rubrics for peer evaluation, project presentation, and project functionality were developed. For more information refer to the attached documents

Attached Files

📄 Handout 2-Student-Exit-Survey.docx
📄 Project evaluation.docx

Criterion Description:

Students must achieve above 60% on project functionality, peer evaluation, and project presentation to pass.

Findings Description:

Students scores were collected for each measurement tool (Peer, Faculty, and project presentation) during fall and spring 2021.

Attached Files

📄 COSC 4319.xlsx
📄 Peer Evaluation.xlsx
📄 Presentation Evaluation.xlsx
📄 Project Evaluation.xlsx
📄 Peer Evaluation.xlsx
📄 Project Presentation.xlsx
📄 Project Evaluation.xlsx
📄 COSC 4319.xlsx

Technical Competence

Goal Description:

Students will have a strong technical foundation, i.e., students will develop and demonstrate knowledge of theoretical materials, and computational and technical skills in the areas of Computer Software Engineering Technology.

Providing Department: Software Engineering BS

Progress: Completed

RELATED ITEMS/ELEMENTS -

RELATED ITEM LEVEL 1

Technical Competence

Learning Objective Description:

Students will develop and demonstrate knowledge of technical skills, relevant to the field of computer software engineering technology.

RELATED ITEM LEVEL 2

SOs PEOs Assessments

Indicator Description:

Students performance were assessed based on the following:

- Software engineering's term project assessment, which include, project presentation, project functionality, faculty evaluation, and peer reviews.
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Update to Previous Cycle's Plan for Continuous Improvement Item

Previous Cycle's Plan For Continuous Improvement (Do Not Modify):

Closing Summary

Update COSC 1436/1437/2347/3319 sequence.

Add 2347 as a core for the program, remove one elective.

Discontinue TASO exam, develop a new tool (named Course-Based Evaluations)

Analyze the performance improvements of Software Engineering's Project Evaluations/Presentations.

Get prepared for ABET accreditation.

Update of Progress to the Previous Cycle's PCI:

- TASO exam has been removed and replaced with course based evaluation
- Data collected from COSC 4319 Software engineering course, including final project's presentation, demo, faculty evaluation, and peer evaluation to be used as assessment data when applying for ABET accreditation

New Plan for Continuous Improvement Item

Closing Summary:

The department has formed a new committee to assess the software engineering program. The committee will develop a plan to make B.SC in software engineering ABET accredited. Meetings will be held during the fall 2022 and spring 2023 to discus possible courses used for ABET assessment. Other measurement tools will also be deployed, this include software engineering project report, project presentation, and student's exist survey.