

Report: Summary of the Assessment Cycle Results in : 2020-2021 Assessment Cycle: Assessment Plan and Assessment Findings

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Workspace: Academic Program Assessment and Planning Workspace

Assessment Plan Template : IU Kokomo Academic Assessment Template [

Report Generated : Tuesday, July 20, 2021

Organizational Area	Summary Results		
<p>Indiana University System AMS » Indiana University: Kokomo » Academic Affairs » School of Sciences</p> <p>Informatics</p>	<p>Overall Statistics</p> <ul style="list-style-type: none"> • 17% (2/12) outcomes were included • 100% (2/2) of outcomes included have at least one measure specified • 100% (2/2) of outcomes included have measures with findings specified 		
	<p>2 Total Measures (Includes measures that do not have findings)</p>		<p>2 Total Measures with Findings</p>
	<p>Measure Type/Method</p>	<p>Measure Level</p>	<p>Acceptable Target Achievement</p>
	<p>Student Artifact 0 (0%)</p> <p>Exam 0 (0%)</p> <p>Portfolio 0 (0%)</p> <p>Other 2 (100%)</p> <hr/> <p>Total Direct 2 (100%)</p> <p>Survey 0 (0%)</p> <p>Focus Group 0 (0%)</p> <p>Interview 0 (0%)</p> <p>Other 0 (0%)</p> <hr/> <p>Total Indirect 0 (0%)</p> <p>Unspecified 0 (0%)</p>	<p>Course 2 (100%)</p> <p>Program 0 (0%)</p> <p>Institution 0 (0%)</p> <p>Other 0 (0%)</p> <p>Unspecified 0 (0%)</p>	<p>Not Met 0 (0%)</p> <p>Met 1 (50%)</p> <p>Exceeded 1 (50%)</p> <p>Unspecified 0 (0%)</p>

Report : Assessment Cycle Details for : Informatics

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Workspace : Academic Program Assessment and Planning Workspace

Assessment Plan: 2020-2021 Assessment Cycle: Assessment Plan and Assessment Findings

Assessment Plan Template : IU Kokomo Academic Assessment Template

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Measures and Findings

Informatics Learning Outcomes

Outcome

SLO 1 for Social/Organizational/Ethical Issue Integration

Students will analyze the social/organizational/ethical issues with the application of technology.

Mapped to:

No Mapping

Measure

Capstone project in INFO I450 (Design and Development of an Information System)

COURSE LEVEL; DIRECT - OTHER

Details/Description:

In the Informatics program, the capstone project is conducted in two separate courses. I450 and I451.

In I450, students analyze and design a solution for a real-world problem. In I451, students design the database and implement the solution.

In evaluating this measure, the final report submitted by each team of students in I450 will be used for this evaluation.

It is worth mentioning that this measure is better evaluated in other courses in the Informatics program. Namely, INFO I202 (Social Informatics) and INFO I303 (Organizational Informatics). However, the instructor who taught these courses left the university, which makes it harder to interpret the data and make sense of it. For that reason, I450 was chosen to evaluate this measure.

Acceptable Target:

The level of performance where students analyze the social, organizational, and ethical issues while designing a technology solution for a real-world problem will be considered acceptable. We expect that Sixty Percent (60%) or higher of students will provide partial to complete descriptions, analysis, and conclusions regarding these issues.

Implementation Plan (timeline):

The original plan for evaluating the Informatics students enrolled in the fall 2019 offering of INFO-I 450 (Design and Development of an Information System) will be evaluated. In INFO I450, there were 16 students enrolled in the course. These students are seniors enrolled in their first course of a 2-course sequence capstone project.

In INFO I450, four teams with three to five students in each team were established. These teams were assigned to four different real-life projects working with real clients (local businesses in the Kokomo area). These projects require students to meet with their clients

in order to gather the requirements about client's needs. Most of the requirements gathering process was established in INFO I450, but in reality, this process may last for the entire life cycle of the project, as the requirements' continue to change/evolve.

Project documents submitted by teams are chosen for assessing this learning outcome because they were graded based on what extent the solutions are complete and detailed in terms of assessing the social, organizational, and ethical issues of designing an information system.

Key/Responsible Personnel:

Course instructor evaluates the performance of the students on their capstone project.

Supporting Attachments:

Findings

for Capstone project in INFO I450 (Design and Development of an Information System)

Summary of Findings:

Overall, in INFO I450, students produced excellent reports for their capstone projects. In this course, there were four different group projects created and submitted at the end of the semester. The course project was divided into four phases (problem definition, prototyping, data flow diagrams, and data dictionary). In each phase, there is a substantial written document that needs to be submitted for grading. At the end of the semester, students are expected to combine all phases in one large report and submit that for grading. All four teams have completed and submitted their final reports.

For this SLO, there were three components as detailed below:

Component#1 for this Learning Outcome: Description

Performance Criteria:

- Superficial
- Complete
- Detailed

Component#2 for this Learning Outcome: Analysis

Performance Criteria:

- None
- Partial
- Complete

Component#3 for this Learning Outcome: Conclusion

Performance Criteria:

- Not based on argument
- Partially supported
- Fully supported

Based on the provided components, students' performance was very good and met the 60% benchmark in terms of description, analysis, and conclusion. In particular, there were three groups who were found to be complete in terms of acknowledging and addressing the social/organizational and ethical issues of the design of the information systems. In terms of analysis of these issues, three groups were graded as partial and one group as complete. All four groups were able to provide sufficient evidence to fully support their conclusions.

As stated in the measure of this learning outcome, this course is not the optimal course to evaluate this learning outcome, but it was chosen due to the departure of the faculty member who taught the target courses. Regardless, there was enough evidence in the capstone projects to support the findings as described above.

Acceptable Target Achievement:

Met

Reflections/Notes:

Based on the data we collected in this assessment cycle, Informatics students who are enrolled in the capstone project course demonstrate good overall knowledge regarding the analysis of social, organizational, and ethical issues with the application of technology.

Substantiating Evidence:

**SLO 2 for
Social/Organizational/Ethical
Issue Integration**

Students will apply social/organizational issues while designing/developing an information system.

Mapped to:

No Mapping

Measure

Capstone project in INFO I451 (Design and Development of an Information System)

COURSE LEVEL; DIRECT - OTHER

Details/Description:

In the Informatics program, the capstone project is conducted in two separate courses. I450 and I451. In I450, students analyze and design a solution for a real-world problem. In I451, students design the database and implement the solution. In evaluating this measure, the design and development of the database that the students have completed for their capstone projects in I451 will be used for this evaluation.

Acceptable Target:

We expect that Seventy Five Percent (75%) of students will develop solutions for organizations that partially or fully reflect the social and organizational issues.

Implementation Plan (timeline):

Informatics students enrolled in the spring 2020 offering of INFO-I 451 (Design and Development of an Information System) will be evaluated. In INFO I451, there were 16 students enrolled in the course. These students are seniors enrolled in their second course of a 2-course sequence capstone project.

Four teams with 3 to 5 students in each team were established in INFO I451 (Same teams in I450). These teams continue to work on their projects from the previous semester. These projects are real-life projects, where students work with real clients in the Kokomo area.

These projects are chosen for assessing this learning outcome because they were graded based on what extent the design and development of the information system required by the clients reflect the social and organizational issues of the system.

Key/Responsible Personnel:

The instructor who teaches INFO I451 will evaluate the performance of the students.

Supporting Attachments:

Findings

for Capstone project in INFO I451 (Design and Development of an Information System)

Summary of Findings:

In INFO I451 (the second course of the capstone project), four teams were created. Two teams with four students, one team with three students, and one team with five students. This course focuses on designing and developing an enterprise database for the capstone project. Students in this course learn the process of designing, normalizing, and then implementing databases and then apply that knowledge to their projects. The course also involves developing an information system per the client's requirements and integrating the database as part of the system. Delivery and training of the system to the client are required before the end of the semester.

The course project involves four different phases. In the first phase, students are expected to develop a conceptual model planning and analysis; in the second and third phases, students were expected to provide a logical and physical database design, respectively. In the final phase of the project, students were expected to implement and test the database they created and then integrate the database in the final product before delivering the final solution to the client.

For this SLO, there is one component:

Component#1: Application of Social and organizational issues

Performance Criteria:

- Design/implementation does not reflect issues
- Design/implementation partially reflect issues
- Design/implementation fully reflect issues

A close inspection of the four phases of the report shows that one team provided a design and implementation of the information system that fully applied the issues of social and organizational Informatics. The other three teams fall in the second category (i.e., partially reflect the issues). This is evident from the ability of the teams to address issues related to the functional areas, business processes, and the products and services provided by the business they developed the information system for. Additionally, all teams demonstrated a good understanding/reflection of the use of information and communication technologies and the social implications of utilization technology during the design and evaluation of the system.

Acceptable Target Achievement:

Exceeded

Reflections/Notes:

Based on the data we collected in this assessment cycle, students in INFO-I451 demonstrated a good overall applying social/organizational issues while designing and developing an information system for a local business.

Substantiating Evidence: