

Report: Summary of the Assessment Cycle Results in : 2021-2022 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 : Wednesday, October 26, 2022

Organizational Area	Summary Results																																			
Indiana University System AMS » Indiana University: Kokomo » Academic Affairs » School of Sciences Informatics	Overall Statistics <ul style="list-style-type: none"> ● 10% (1/10) outcomes were included ● 100% (1/1) of outcomes included have at least one measure specified ● 100% (1/1) of outcomes included have measures with findings specified 																																			
	1 Total Measure (Includes measures that do not have findings)	1 Total Measure with Findings																																		
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Report : Assessment Cycle Details for : Informatics

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Assessment Plan: 2021-2022 Assessment Cycle: Assessment Plan and Assessment Findings

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Measures and Findings

Informatics Outcome Set 2020-2025

❖ Goal A: Apply Problem-Solving Skills to Solve Programming Problems

A1. Students will design solutions to programming problems and utilize basic programming logic structures for the solution's implementation

Mapped to:

No Mapping

Measure

Programming Assignments in INFO I210 (Information Infrastructure I)

COURSE LEVEL; DIRECT - OTHER

Details/Description:

In the Informatics program at IUK, INFO I 210 (Information Infrastructure I), is the first programming course students take. This course is preceded by INFO I101, which introduces some programming concepts, but students are not expected to produce programs. As such, INFO I210 is the first solid computer programming course our students take.

To evaluate this measure, one of the significant programming assignments (Credit Card Number Validation using the Java Programming Language) is used to assess outcome A1. This is a comprehensive assignment that requires students to analyze, design, code, and test the programs they produce. In particular, the students use Java to implement the Luhn check algorithm to determine whether a given credit card number is entered correctly by the user of the program.

The performance criteria that were used are based on functionality and following best coding standards as follows:

Functionality:

- Programs developed do not run
- Programs developed run, but does not implement all requirements
- Programs run and implements all requirements
- Programs run and implements more than required

Coding standards:

- Does not comply
- Complies
- Exceeds compliance

Acceptable Target:

The level of performance where students create programs that follow coding standards, run and implement all of the requirements as specified in the problem specifications document will be considered acceptable.

We expect that 70% of students will provide programs that are correctly coded, function properly, and implements the requirements or implement more than required.

Implementation Plan (timeline):

Informatics students enrolled in the spring 2021 offering of INFO I210 were examined. This course was cross-listed with another Computer Science course (CSCI C101). In INFO I210, there were 5 Informatics students enrolled in the course. These students are freshman level Informatics students. I210 was offered in the face-to-face format.

The instructor teaches the course has devised grading criteria that are aligned properly with the components of the learning outcomes in question.

Key/Responsible Personnel:

The course's instructor, Dr. Hong Liu, has evaluated the performance of the students in the chosen programming assignment

Supporting Attachments:

Findings

for Programming Assignments in INFO I210 (Information Infrastructure I)

Summary of Findings:

Overall, in INFO I210, students produced excellent programs. The performance criteria that were used are based on functionality and following best programming/coding standards as follows:

For this SLO, there were two components, Functionality and Coding Standards. These are detailed below:

Component #1: Functionality with the following Performance Criteria:

- Programs developed do not run
- Programs developed run, but does not implement all requirements
- Programs run and implements all requirements
- Programs run and implements more than required

Component #2: Coding Standards with the following Performance Criteria:

- Does not comply
- Complies
- Exceeds compliance

Based on the provided components, student's performance was excellent overall and met the 70% benchmark in terms of coding functionality and following the coding standards. Specifically, all five students enrolled in the course submitted programs for the credit card validation assignment; four of these students were exceptional (met all the requirements) and one students submitted a satisfactory program. The total score for this assignment is 50 and the average score was 47.

Acceptable Target Achievement:

Exceeded

Reflections/Notes:

Based on the data we collected in this assessment cycle, students in INFO-I210 demonstrated a good overall knowledge in designing and developing solutions to programming problems that follow good programming styles and practices.



Substantiating Evidence: