

## UNIVERSITY OF ARKANSAS PULASKI TECH

### Course-Level Assessment Report Course: PHYS 1107: Earth Science Lab Academic Year: 2020-2021





1. Name of course:	Earth Science Lab
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4. Academic year:	<u>2020-2021</u>

#### **Course-Level Learning Outcomes**

#### 1. What are the Course-Level Outcomes (CLOs)?

- 1. Students will use instruments and techniques correctly and safely.
- 2. Students will communicate measurements and results with correct units, significant figures, and scientific notation as necessary.
- 3. Students will apply Earth Science concepts to various processes in the lab setting.

#### 2. Which CLOs were addressed for the academic year?

CLO-3 was assessed through Lab 9 – Radiometric Dating and Half Life Experiment both in Fall 2020 and Spring 2021.

### 3. Which CLOs are being addressed in your assessment plan in the upcoming academic year?

CLO 3 will be assessed again in the next academic year.

#### 4. Explain the assessment cycle.

Every Fall and spring semester in an academic year, in course PHYS1107, CLO 3 is assessed through Lab 9 – Radiometric Dating and Half Life Experiment. The lab is assessed based on the following scale- Below Expectation (grade less than 70), Meets Expectation (grade between 70 – 89) and Exceeds Expectation (grade between 90- 100) per the instructor.



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### 5. What are the assessment methods? Are they direct or indirect?

The assessment method employed for (CLO 3 is direct assessment. The lab data for the assigned experiment is collected and analyzed for the assessment purpose each semester.

#### 6. What are the assessment goal(s), including benchmarks?

The assessment goals are as follows:

In lab assessment (CLO 3) our goal is 70% and above students meets expectations by achieving the desired threshold (70% of students scoring 70% or above) for CLO 3. Make sure the assessment method is rigorous and identifies the areas where the students are having difficulty with.

Make sure that all instructors are covering the content as agreed upon by the department.

#### 7. What were the findings for the academic year?

In both Fall 2020 semester and Spring 2021 total of 12 students in each semester were assessed. Finding from the data analysis (Please see the attachment) shows that in Fall 2020 out of 12 students 8 of them exceeded expectations (66.7 %) and 4 students met expectations (33.3%). In spring 2021 out of 12 students, 8 out them exceeded expectations (66.7%), 2 of them met expectations (16.7%) and 2 of them did not meet expectations (16.7%).

The lab assessment method for CLO 3 shows that most of the students get the understanding of the concepts well which is evident from the scores achieved. All the students achieved the threshold (70% of students scoring 70% or above) in CLO 3.

#### 8. What is your analysis of the findings?

The lab assessment method for CLO 3 shows that most of the students get the understanding of the concepts well which is evident from the scores achieved. All the students achieved the threshold (70% of students scoring 70% or above) in CLO 3.

This assessment method will be employed for the next academic year to make sure students are understanding concepts well.

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# 9. What is the action plan for the upcoming academic year? Explain.

For the lab experiment assessment method: If the results remain above the desired threshold, the assessment will likely be continued for more semesters.

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