

## COURSE PORTFOLIO

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Study Program        | : GEOPHYSICS - S1                                                   |
| Semester             | : ODD 2023/2024                                                     |
| Course Code          | : 23H06120303                                                       |
| Course Name          | : Seismic Refraction                                                |
| Coordinator          | : Dr. Muhammad Alimuddin, Eng.                                      |
| Lecturer Team Member | : Ir. Bambang Hari Mei Soeprapto, M.Si., Sabrianto Aswad, S.Si., MT |

### Implementation of Learning

Description of the implementation of the lecture, the suitability of what was planned in the RPS with what was done:

#### Number and percentage of lecturer and student attendance

(data source: monitoring the attendance of lecturers and students)

| Lecturer Attendance       |                                          |         | Student Attendance                        |
|---------------------------|------------------------------------------|---------|-------------------------------------------|
| SEISMIC<br>REFRACTION (A) | Ir. Bambang Hari Mei<br>Soeprapto, M.Si. | : times | Number of students: 41<br>persons         |
|                           | Sabrianto Aswad, S.Si., MT               | : times | Presence $\geq$ 80% :<br>Presence < 80% : |
|                           | Total Meeting : times.                   |         |                                           |
| SEISMIC<br>REFRACTION (B) | Ir. Bambang Hari Mei<br>Soeprapto, M.Si. | : times | Number of students: 38<br>persons         |
|                           | Sabrianto Aswad, S.Si., MT               | : times | Presence $\geq$ 80% :<br>Presence < 80% : |
|                           | Total Meeting : times.                   |         |                                           |

### Materials/practicum provided

#### Learning Materials for Seismic Refraction Courses

1. Theory of Seismic Wave Propagation in an elastic-isotropic medium;
2. The concept of anisotropy-isotropy;
3. Snapshot and Synthetic Seismogram
4. Eikonal Equations :
5. Basic Theory of Seismic Refraction
6. Retrieving Seismic Refraction Data and Processing Data for the 2 Layer case;
7. Interpretation Method;

8. Seismic transmission;

9. Wide angle seismic

### The learning methods implemented

#### Learning Methods for Seismic Refraction Subjects

1. Cooperative learning (Cooperative learning)

2. Group discussion (Small Group Discussion)

### The assessment method implemented

1. Task

### Supplementary information (if available)

None

## 2. Learning Outcomes

### Measurement results of CLO

Assessment and Evaluation of Student Achievement of CLO<sup>a</sup>

| LOs that are charged to the Course | CLO   | Assessment Form | Weight   | Average student score (0-100) |
|------------------------------------|-------|-----------------|----------|-------------------------------|
| KU1                                | CLO-2 | Task            | 100.00 % | 75.57                         |
| P1                                 | CLO-1 | Task            | 100.00 % | 75.57                         |
| P3                                 | CLO-1 | Task            | 100.00 % | 75.57                         |
| KK2                                | CLO-2 | Task            | 100.00 % | 75.57                         |

a: result criteria: very satisfactory if the average score is  $\geq 80$ ; satisfactory if the average score is 70 - 79.9; unsatisfactory if the average score is  $< 70$ .

### Percentage of students who achieved a very satisfactory CLO score<sup>b</sup>

(data source: student scores per assessment according to CLOs)

| CLO   | % of students who achieved a CLO score of at least 80 |
|-------|-------------------------------------------------------|
| CLO-1 | 54.43%                                                |
| CLO-2 | 54.43%                                                |

b: result criteria: very satisfactory if  $\geq 80\%$  of students score  $\geq 80$ ; satisfactory if 70%-79.9% of students score  $\geq 80$ ; less satisfactory if  $< 70\%$  of students score  $\geq 80$ .

### Course Grade

| Course Grade | Number and Percentage of Students |
|--------------|-----------------------------------|
| A            | 5 (6.3%)                          |
| A-           | 38 (48.1%)                        |
| B+           | 18 (22.8%)                        |
| B            | 3 (3.8%)                          |

| Course Grade | Number and Percentage of Students |
|--------------|-----------------------------------|
| B-           | 3 (3.8%)                          |
| C+           | 4 (5.1%)                          |
| C            | 3 (3.8%)                          |
| D            | 3 (3.8%)                          |
| E            | 2 (2.5%)                          |

### 3. Learning evaluation (survey) results

*(data source: items / narratives of the results of the MK evaluation questionnaire by students) -*

### 4. Analysis and Reflection

None

### 5. Follow-up Plan

None

### 6. Follow-up results on the previous semester's evaluation

None

Makassar, 24 Oktober 2025

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