SATUAN ACARA PERKULIAHAAN (SAP)
PROGRAM STUDI TEKNIK GEOLOGI
FAKULTAS TEKNIK

PALEONTOLOGI

UNIVERSITAS DIPONEGORO
SEMARANG
LECTURE PROGRAM UNIT (LPU)

LECTURE : PALEONTOLOGY
CODE NUMBER/SKS : TKG 116P/2 SKS, TASK / PRACTICE: 1 SKS
TIME SCHEDULE : 2 X 50 MINUTES
COURSE : 1

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to descript it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain paleontology explanation, clasify and given name method

B. BASIC STUDY : Introduction

C. SUB BASIC STUDY :

- Definition
- Paleontology scope
- Classification and taxonomy
- Abbreviation, latin terminology and explanation
- Given name method

D. CLASS ACTIVITIES

<table>
<thead>
<tr>
<th>Phase</th>
<th>Study Activity</th>
<th>Student activity</th>
<th>Medium</th>
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<tbody>
<tr>
<td>Introduction</td>
<td>1. Explaining scope of paleontology</td>
<td>• Observing</td>
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<td>2. Explaining benefit of learning Paleontology</td>
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<td>3. Explaining competence GIP and PIP</td>
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<td>Presentation</td>
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<td>• Paleontology scope</td>
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<td>• Abbreviation, latin terminology and explanation</td>
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</table>
E. EVALUATION

Giving question directly to individual or in post test format

F. REFERENCES

1. Clarkson, E.N.K., 1979, Invertebrate Paleontology and Evolution, George Allen & Unwin, Boston.

LECTURE
CODE NUMBER/SKS : PALEONTOLOGY
TIME SCEDULE : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
COURSE : 2

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to descript it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain organism life and its influence factors

B. BASIC STUDY : Life of organism

C. SUB BASIC STUDY :

- Organism life manner
- Sexual organism
- Water environment
- Ecological factors
**D. CLASS ACTIVITIES**

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<th>Phase</th>
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<th>Student activity</th>
<th>Medium</th>
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</table>
| Introduction  | 1. Brief explanation of organism life and its influence factors  
                  2. Explaining competence GIP and PIP | • Observing  
                  • Giving questions | • OHP  
                  • LCD  
                  • White board | |
| Presentation  | Explaining about:  
                  • Organism life manner  
                  • Sexual organism  
                  • Water environment  
                  • Ecological factors | • Observing  
                  • Asking and answering / discussion | • OHP  
                  • LCD  
                  • White board | |
| Closing       | 1. Resuming lecture material  
                  2. Post test  
                  3. Giving general next lecture | • Observing  
                  • Asking and answering | • OHP  
                  • LCD  
                  • White board | |

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A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplishing this lecture, students could explain about paleontology fossil and how to describe it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to excuse fossil from formed requirement until its usage

B. BASIC STUDY : Fossil and its process

C. SUB BASIC STUDY :

- Determination of fossil
- Fossil formed requirement
- Basic fossil formed
- Kind and fossil process
- Fossil Usage

D. CLASS ACTIVITIES

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LECTURE

CODE NUMBER/SKS : PALEONTOLOGY
TIME SCHEDULE : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
COURSE : 2 X 50 MINUTES

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to describe it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to excuse protozoa phylum and its classification

B. BASIC STUDY : Protozoa Phylum

C. SUB BASIC STUDY :

- Protozoa classification

D. CLASS ACTIVITIES

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<tr>
<td>Introduction</td>
<td>1. brief explanation of Protozoa Phylum</td>
<td>• Observing</td>
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Closing
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2. post test
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LECTURE : PALEONTOLOGY
CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/ PRACTICE : 1 SKS
TIME SCEDULE : 2 X 50 MINUTES
COURSE : 5

A. PURPOSE
1. GENERAL INSTUCTIONAL PURPOSE (GIP)
After accomplish this lecture, students could explain about paleontology fossil and how to describe it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)
Students are able to excuse protozoan phylum and its clasification

B. BASIC STUDY : Protozoa Phylum

C. SUB BASIC STUDY :
- Systematic description of big foraminifera
D. CLASS ACTIVITIES

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<th>Phase</th>
<th>Study Activity</th>
<th>Student activity</th>
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              2. Explaining competence GIP and PIP | • Observing  
              • Giving questions | • OHP  
              • LCD  
              • White board |
| Presentation| Explaining about:  
              • Systematic description of big foraminifera | • Observing  
              • Asking and answering / discussion | • OHP  
              • LCD  
              • White board |
| Closing     | 1. Resuming lecture material  
              2. post test  
              3. giving general next lecture | • Observing  
              • Asking and answering | • OHP  
              • LCD  
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A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

   After accomplishment this lecture, students could explain about paleontology fossil and how to describe it in macroscopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

   Students could explain porifera Phylum and its classification

B. BASIC STUDY: Porifera Phylum

C. SUB BASIC STUDY:
   - General characteristic of organism
   - Porifera phylum classification

D. CLASS ACTIVITIES

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TIME SCHEDULE : 2 X 50 MINUTES
COURSE : 7

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to decript it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain classification of Porifera Phylum

B. BASIC STUDY : Porifera Phylum

C. SUB BASIC STUDY :

- Porifera phylum classification

D. CLASS ACTIVITIES

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<tr>
<th>Phase</th>
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<tr>
<td>Introduction</td>
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LECTURE
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\[ \text{TIME SCEDULE} \]
\[ \text{COURSE} \]

\[ \text{PALEONTOLOGY} \]
\[ \text{TKG 116P/2 SKS,TASK/PRACTICE : 1 SKS} \]
\[ \text{2 X 50 MINUTES} \]
\[ \text{8} \]

A. PURPOSE

1. GENERAL INSTUTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to descript it in megascopic.

2. PARTICULAR INSTUTIONAL PURPOSE (PIP)

Students are able to excuse Coelenterate phylum and its classification

B. BASIC STUDY : Coelenterate Phylum

C. SUB BASIC STUDY :

- General characteristic of Coelenterate phylum
- Robert R. Shrock classification
D. CLASS ACTIVITIES

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<th>Phase</th>
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<th>Student Activity</th>
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| Introduction | 1. brief explanation Coelenterate Phylum and classification  
              2. Explaining competence GIP and PIP | • Observing  
                                 • Giving questions | • OHP  
                                 • LCD  
                                 • White board |
| Presentation | Explaining about:  
                       • General characteristic of Coelenterate phylum  
                       • Robert R. Shrock classification | • Observing  
                                 • Asking and answering / discussion | • OHP  
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| Closing | 1. Resuming lecture material  
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            3. giving general next lecture | • Observing  
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A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to describe it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to excuse Coelenterate phylum and its classification

B. BASIC STUDY: Coelenterate Phylum

C. SUB BASIC STUDY:
   - Robert R. Shrock classification
   - Moore & Lalicker classification

D. CLASS ACTIVITIES

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TIME SCHEDULE : 2 X 50 MINUTES
COURSE : 10

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

   After accomplish this lecture, students could explain about paleontology fossil and how to descript it in magascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

   Students could explain Brachiopod Phylum and its classification

B. BASIC STUDY : Brachiopod Phylum

C. SUB BASIC STUDY :

   • General characteristic of Brachiopod phylum
   • Robert R. Shrock classification

D. CLASS ACTIVITIES

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<td>• Robert R. Shrock classification</td>
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A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

   After accomplish this lecture, students could explain about paleontology fossil and how to descript it in megascopical.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

   Students could explain Brachiopod Phylum and its classification

B. BASIC STUDY : Brachiopod Phylum

C. SUB BASIC STUDY :

- Robert R. Shrock classification
- Moore & Lalicker classification
### D. CLASS ACTIVITIES

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|          | 2. Explaining competence GiP and PiP | • Giving questions | • LCD  
|          |                |                  | • White board |
| Presentation | Explaining about:  
|          | • Robert R. Shrock classification  
|          | • Moore & Lalicker classification | • Observing | • OHP  
|          |                | • Asking and answering / discussion | • LCD  
|          |                |                  | • White board |
| Closing | 1. Resuming lecture material  
|          | 2. post test  
|          | 3. giving general next lecture | • Observing | • OHP  
|          |                | • Asking and answering | • LCD  
|          |                |                  | • White board |

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TIME SCHEDULE : 2 X 50 MINUTES
COURSE : 12

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to describe it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explicate Mollusc Phylum and its classification

B. BASIC STUDY : Mollusc Phylum

C. SUB BASIC STUDY :

- General characteristic of Mollusc phylum
- Mollusc Phylum class and its classification

D. CLASS ACTIVITIES

<table>
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<tr>
<th>Phase</th>
<th>Study Activity</th>
<th>Student activity</th>
<th>Medium</th>
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</table>
| Introduction | 1. brief explanation Mollusc Phylum and its classification  
              2. Explaining competence GIP and PIP | • Observing  
                        • Giving questions | • OHP  
                        • LCD  
                        • White board |
| Presentation | Explaining about :  
                • General characteristic of Mollusc phylum  
                • Mollusc Phylum class and its classification | • Observing  
                                    • Asking and answering / discussion | • OHP  
                                    • LCD  
                                    • White board |
| Closing     | 1. Resuming lecture material  
              2. post test  
              3. giving general next lecture | • Observing  
                                • Asking and answering | • OHP  
                                • LCD  
                                • White board |

E. EVALUATION

Giving question directly to individual or in post test format
F. REFERENCES


LECTURE : PALEONTOLOGY
CODE NUMBER/SKS : TKG 116P/2 SKS,TASK/PRACTICE : 1 SKS
TIME SCHEDULE : 2 X 50 MINUTES
COURSE : 13

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

   After accomplish this lecture, students could explain about paleontology fossil and how to descript it in megascoptic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

   Students could explicate Mollusc Phylum and its classification

B. BASIC STUDY : Mollusc Phylum

C. SUB BASIC STUDY :

   • Mollusc Phylum class and its classification

D. CLASS ACTIVITIES

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LECTURE

CODE NUMBER/SKS : PALEONTOLOGY
TIME SCHEDULE : TKG 116P/2 SKS,TASK/PRACTICE : 1 SKS
COURSE : 2 X 50 MINUTES

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about paleontology fossil and how to descript it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explicate relation between stratigraphic and fauna in Sangiran

B. BASIC STUDY : Case Study : Sangiran Jawa Tengah

C. SUB BASIC STUDY :

- Introduction
- Geologic overview
- Fauna in Sangiran
### D. CLASS ACTIVITIES

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