

**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 describe it in megascopic.

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain paleontology explanation, classify 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

Phase	Study Activity	Student activity	Medium
Introduction	1. Explaining scope of paleontology 2. Explaining benefit of learning Paleontology 3. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Definition ▪ Paleontology scope ▪ classification and taxonomy ▪ Abbreviation, latin terminology and explanation 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	1. Resuming lecture material 2. post test 3. giving general next lecture	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White

			board
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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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

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

A. PURPOSE

1. GENERAL INSTUCTIONAL 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

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. Brief explanation of organism life and its influence factors 2. Explaining competence GIP and PIP 	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Organism life manner ▪ Sexual organism ▪ Water environment ▪ Ecological factors 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. Post test 3. Giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 3

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 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

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanations Fossil and its process 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Determination of fossil ▪ Fossil formed requirement ▪ Basic fossil formed ▪ Kind and fossil process ▪ Fossil Usage 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	1. Resuming lecture material 2. post test 3. giving general next lecture	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 4

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 describe protozoa phylum and its classification

B. BASIC STUDY : Protozoa Phylum

C. SUB BASIC STUDY :

- Protozoa classification

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation of Protozoa Phylum 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : ▪ Protozoa classification	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board

Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board
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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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

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 descript 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

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. brief explanation of Systematic description of big foraminifera 2. Explaining competence GIP and PIP 	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Systematic description of big foraminifera 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 6

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 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

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation of porifera Phylum and its classification 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ General characteristic of organism ▪ Porifera phylum classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	1. Resuming lecture material 2. post test 3. giving general next lecture	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK / PRACTICE : 1 SKS
 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 7

A. PURPOSE

1. GENERAL INSTUCTIONAL 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 clasification of porifera Phylum

B. BASIC STUDY : Porifera Phylum

C. SUB BASIC STUDY :

- Porifera phylum classification

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation clasification of porifera Phylum 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : ▪ Porifera phylum classification	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • 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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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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
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5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 8

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 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

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. brief explanation Coelenterate Phylum and classification 2. Explaining competence GIP and PIP 	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ General characteristic of Coelenterate phylum ▪ Robert R. Shrock classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
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LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 9

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 describe Coelenterate phylum and its classification

B. BASIC STUDY : Coelenterate Phylum

C. SUB BASIC STUDY :

- Robert R. Shrock classification
- Moore & Lalicker classification

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation Coelenterate Phylum and classification 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Robert R. Shrock classification ▪ Moore & Lalicker classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	1. Resuming lecture material 2. post test 3. giving general next lecture	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK / PRACTICE : 1 SKS
 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 describe it in megascopic.

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

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation Brachiopod Phylum 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ General characteristic of Brachiopod phylum ▪ Robert R. Shrock classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board

Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board
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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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
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LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 11

A. PURPOSE

1. GENERAL INSTUCTIONAL 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 Brachiopod Phylum and its classification

B. BASIC STUDY : Brachiopod Phylum

C. SUB BASIC STUDY :

- Robert R. Shrock classification
- Moore & Lalicker classification

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. brief explanation Brachiopod Phylum classification 2. Explaining competence GIP and PIP 	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Robert R. Shrock classification ▪ Moore & Lalicker classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, *International Code of Zoological Nomenclature*, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, *Principles of Invertebrate Paleontology*, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, *Diktat Kuliah Paleontologi*, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, *Paleontologi Umum*, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

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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

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation Mollusc Phylum and its classification 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ General characteristic of Mollusc phylum ▪ Mollusc Phylum class and its classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	1. Resuming lecture material 2. post test 3. giving general next lecture	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

E. EVALUATION

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F. REFERENCES

1. Clarkson, E.N.K., 1979, Invertebrate Paleontology and Evolution, George Allen & Unwin, Boston.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, Principles of Invertebrate Paleontology, 2nd Edition, Mc.Graw Hill, New York
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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 megascopic.

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

Phase	Study Activity	Student activity	Medium
Introduction	1. brief explanation Mollusc Phylum and its classification 2. Explaining competence GIP and PIP	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> • Mollusc Phylum class and its classification 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board

Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board
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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.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, *International Code of Zoological Nomenclature*, Univ. of California Press, Los Angeles.
3. Shrock, R.R., 1953, *Principles of Invertebrate Paleontology*, 2nd Edition, Mc.Graw Hill, New York
4. Sukandarrumidi, 1999, *Diktat Kuliah Paleontologi*, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
5. Premonowati, Murwanto, H., 1991, *Paleontologi Umum*, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta

LECTURE : PALEONTOLOGY
 CODE NUMBER/SKS : TKG 116P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 14

A. PURPOSE

1. GENERAL INSTUCTIONAL 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

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. brief explanation stratigraphic and fauna in Sangiran 2. Explaining competence GIP and PIP 	<ul style="list-style-type: none"> • Observing • Giving questions 	<ul style="list-style-type: none"> • OHP • LCD • White board
Presentation	Explaining about : <ul style="list-style-type: none"> ▪ Introduction ▪ Geologic overview ▪ Fauna in Sangiran 	<ul style="list-style-type: none"> • Observing • Asking and answering / discussion 	<ul style="list-style-type: none"> • OHP • LCD • White board
Closing	<ol style="list-style-type: none"> 1. Resuming lecture material 2. post test 3. giving general next lecture 	<ul style="list-style-type: none"> • Observing • Asking and answering 	<ul style="list-style-type: none"> • OHP • LCD • White board

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Giving question directly to individual or in post test format

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1. Clarkson, E.N.K., 1979, Invertebrate Paleontology and Evolution, George Allen & Unwin, Boston.
2. Corliss, J.o., Forest, J., Key, K.H.L, and Wright, C.W., 1985, International Code of Zoological Nomenclature, Univ. of California Press, Los Angeles.
3. Sukandarrumidi, 1999, Diktat Kuliah Paleontologi, Jurusan Teknik Geologi Fakultas Teknik UGM, Yogyakarta
4. Premonowati, Murwanto, H., 1991, Paleontologi Umum, Fakultas Teknik Geologi, UPN Veteran, Yogyakarta