

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

METODA GEOLOGI LAPANGAN

**UNIVERSITAS DIPONEGORO
SEMARANG**

LECTURE PROGRAM UNIT

LECTURE : FIELD GEOLOGY METHOD
 CODE NUMBER/SKS : TKG 122P/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 observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain geology in the field in general, geology map and mapping geology, reconnaissance and geology occupation in the field

B. BASIC STUDY : Introduction

C. SUB BASIC STUDY :

- Scope of geology in the field
- mapping geology
- reconnaissance
- geology occupation in the field

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Explaining scope of Field Geology method regard with geology tasks 2. Explaining benefit of learning field geology method 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"> ▪ Scope of geology in the field ▪ mapping geology ▪ reconnaissance ▪ geology occupation in the field 	<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	<ul style="list-style-type: none"> • Observing • Asking and 	<ul style="list-style-type: none"> • OHP • LCD

	3. giving general next lecture	answering	• White board
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E. EVALUATION

Giving question directly to individual or in post test format

F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 2

A. PURPOSE

1. GENERAL INSTUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain used the tool in sampling and recording, loup usage, hammer and compass of geology

B. BASIC STUDY : Introducing tools and how use it

C. SUB BASIC STUDY :

Using tool in sampling and recording
 loup usage, hammer and compass of geology

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medlum
Introduction.	1. Explaining field geology tools and use it 2. Explaining competence GIP and PIP	• Observing • Giving questions	• OHP • LCD • White board
Presentation	Explaining about :	• Observing	• OHP

	<ul style="list-style-type: none"> ▪ Using tool in sampling and recording ▪ loup usage, hammer and compass of geology 	<ul style="list-style-type: none"> • Asking and answering / discussion 	<ul style="list-style-type: none"> • 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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 3

A. PURPOSE

1. GENERAL INSTUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to excuse observation in the field, interpretation, field note, drawing and photograph in the field, Dip and strike measurement, lineament measurement, Finding fossil and how to take it, taking hand spacement as well

B. BASIC STUDY : Field Procedure

C. SUB BASIC STUDY :

- observation in the field
- interpretation
- field note
- drawing and photograph in the field
- dip and strike measurement
- lineament measurement

- finding fossil and how to take it
- taking hand spacement as well

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Explaining general procedure in the field 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"> • observation in the field • interpretation • field note • drawing and photograph in the field • dip and strike measurement • lineament measurement • finding fossil and how to take it • taking hand spacement as well 	<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. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 4

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to excuse texture of sedimentary rock, igneous rock and metamorf rock, given name of it

B. BASIC STUDY : Rock identification in the field

C. SUB BASIC STUDY :

- texture of sedimentary rock, igneous rock and metamorf rock
- How to given name of it

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medlum
Introduction	1. Brief explaining rock identification in the field 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"> • texture of sedimentary rock, igneous rock and metamorf rock • How to given name of it 	<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. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.
3. Tucker, M.E., 1982, *The Field Description of Sedimentary Rocks*, Halsted Press, a division of John Willey & Sons, New York
4. Thorpe, R.S.,Brown, G.C., *The Field Description of Igneous Rocks*, Halsted Press, a division of John Willey & Sons, New York.

LECTURE : FIELD GEOLOGY METHOD
 CODE NUMBER/SKS : TKG 122P/2 SKS,TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 5

A. PURPOSE

1. GENERAL INSTUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain pass and compass, rocks contact, rock correlation, Mapping of stuctural geology and mapping of outcrop

B. BASIC STUDY : Mapping of rock unit and structure

C. SUB BASIC STUDY :

- pass and compass
- rocks contact
- rock correlation
- mapping of stuctural geology and mapping of outcrop

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Brief explanation about	• Observing	• OHP

	mapping rock unit and structure 2. Explaining competence GIP and PIP	• Giving questions	• LCD • White board
Presentation	Explaining about : • pass and compass • rocks contact • rock correlation • mapping of structural geology and mapping of outcrop	• 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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 6

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to explicate topography map and usage in field interpretation

B. BASIC STUDY : Geology mapping base on topography map

C. SUB BASIC STUDY :

- Mapping preparation
- Determining stations in the field
- Outcrop corelation

- Making vertical section

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Brief explanation about Geology mapping base on topography map 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"> • Mapping preparation • Determining stations in the field • Outcrop corelation • Making vertical section 	<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. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 CODE NUMBER/SKS : TKG 122P/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 observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to explain topography form towards geology symptoms

B. BASIC STUDY : Topography and relation with geology symptoms

C. SUB BASIC STUDY :

- Topography expresses fold structure
- Topography forms relate fault structure
- Topography forms relate horst, graben and basin structure

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. Brief explaining topography and geology symptoms 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	<p>Explaining about :</p> <ul style="list-style-type: none"> • Topography expresses fold structure • Topography forms relate fault structure • Topography forms relate horst, graben and basin structure 	<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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 CODE NUMBER/SKS : TKG 122P/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 observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to explain topography form towards geology symptoms

B. BASIC STUDY : Topography and relation with geology symptoms

C. SUB BASIC STUDY :

- Inlier and outlier outcome of fault erosion
- Topography as evident of fault present
- Relation between fault with erosion and topography

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Brief explaining topography and geology symptoms 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"> • Inlier and outlier outcome of fault erosion • Topography as evident of fault present • Relation between fault with erosion and topography 	<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. Compton, R.R., 1985, *Geology In The Field*,, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 CODE NUMBER/SKS : TKG 122P/2 SKS,TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 9

A. PURPOSE

1. GENERAL INSTUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to explain preparness making of stratigraphy section, devide and section description, measurement with jacob stick, measurement with compass and eyes, method compass and clinometer

B. BASIC STUDY : Stratigraphic section

C. SUB BASIC STUDY :

- preparness making of stratigraphy section
- devide and section description
- measurement with jacob stuff

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Brief explaining about stratigraphic and measure it 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 : • preparness making of	<ul style="list-style-type: none"> • Observing • Asking and 	<ul style="list-style-type: none"> • OHP • LCD

	stratigraphy section <ul style="list-style-type: none"> • deive and section description • measurement with jacob stuff 	answering / discussion	<ul style="list-style-type: none"> • 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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

LECTURE : FIELD GEOLOGY METHOD
 CODE NUMBER/SKS : TKG 122P/2 SKS, TASK/PRACTICE : 1 SKS
 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 10

A. PURPOSE

1. GENERAL INSTUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to explain preparness making of stratigraphy section, deive and section description, measurement with jacob stick, measurement with compass and eyes, method compass and clinometer

B. BASIC STUDY : Stratigraphic section

C. SUB BASIC STUDY :

- measurement with compass and eyes
- method compass and clinometer

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> Brief explaining about stratigraphic and measure it 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"> measurement with compass and eyes method compass and clinometer 	<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"> Resuming lecture material post test 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

- Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
- Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 11

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students are able to explicate map of geology

B. BASIC STUDY : Map of Geology

C. SUB BASIC STUDY :

- Definition
- Pattern, line and symbol
- Rock boundaries
- Relation between topography and map of geology
- Rock categorizing in geology map
- Profil section usage in making of map geology
- Map geology explanation
- Data needed in map geology

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. Brief explaining about Map of Geology 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	<p>Explaining about :</p> <ul style="list-style-type: none"> • Definition • Pattern, line and symbol • Rock boundaries • Relation between topography and map of geology • Rock categorizing in geology map • Profil section usage in making of map geology • Map geology explanation • Data needed in map geology 	<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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*,, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

LECTURE : FIELD GEOLOGY METHOD
 CODE NUMBER/SKS : TKG 122P/2 SKS,TASK/PRACTICE : 1 SKS
 TIME SCHEDULE : 2 X 50 MINUTES
 COURSE : 12

A. PURPOSE

1. GENERAL INSTRUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain structural geology symptoms in the field

B. BASIC STUDY : Determination of rock deformation

C. SUB BASIC STUDY :

- Early form of deformation
- Determining direction and stress

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Brief explaining about Determination of rock deformation 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"> • Observing 	<ul style="list-style-type: none"> • OHP

	<ul style="list-style-type: none"> • Early form of deformation • Determining direction and stress 	<ul style="list-style-type: none"> • Asking and answering / discussion 	<ul style="list-style-type: none"> • 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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 CODE NUMBER/SKS : TKG 122P/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 observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain structural geology symptoms in the field

B. BASIC STUDY : Determination of rock deformation

C. SUB BASIC STUDY :

- Acquainting structure in the field

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	1. Brief explaining about Determination of rock	<ul style="list-style-type: none"> • Observing • Giving 	<ul style="list-style-type: none"> • OHP • LCD

	deformation 2. Explaining competence GIP and PIP	questions	• White board
Presentation	Explaining about : • Acquainting structure in the field	• 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

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F. REFERENCES

1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.

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 TIME SCEDULE : 2 X 50 MINUTES
 COURSE : 14

A. PURPOSE

1. GENERAL INSTUCTIONAL PURPOSE (GIP)

After accomplish this lecture, students could explain about observation method in the field

2. PARTICULAR INSTRUCTIONAL PURPOSE (PIP)

Students could explain the field outcome in report, picture, diagram, report design and format of final report

B. BASIC STUDY : Making final report

C. SUB BASIC STUDY :

- Making the field outcome in report, picture, diagram
- report design and format of final report

D. CLASS ACTIVITIES

Phase	Study Activity	Student activity	Medium
Introduction	<ol style="list-style-type: none"> 1. Brief explaining about making final report 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"> • Making the field outcome in report, picture, diagram • report design and format of final report 	<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

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1. Compton, R.R., 1985, *Geology In The Field*, John Wiley & Sons, New York.
2. Lahee, P.H.j, 1996, *Field Geology*, 6th Edition, Mc. Graw Hill Book Company, New York.