



**OUTLINES OF LEARNING PROGRAM
LEARNING PLAN UNITS
COURSE CONTRACT**

**E-COMMERCE
(PAC155)**

**STUDY PROGRAM OF COMPUTER SCIENCE
DEPARTMENT OF MATHEMATICS - FACULTY OF MIPA
DIPONEGORO UNIVERSITY**

OUTLINES OF LEARNING PROGRAM (GBPP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3

A. Course Description

Electronic Commerce (E-Commerce) is distribution, purchasing, selling, marketing items and services through electronics system such as Internet, television, or other computer networks, involving electronics data transfer, electronics data exchange, automatic inventory management systems, and automatic data collection systems.

B. General Instructional Objectives

Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.

C. Learning Plan Units

No	Specific Instructional Objectives	Topics	Subtopics	Time Estimation
1.	Students know-how to explain reason and development of e-commerce correctly about 90%	Basic Concept of E-commerce	- Business Model - Business Process - Advantages and disadvantages of e-commerce	3 x 50 minutes
2.	Students know-how to explain web technology for e-commerce correctly about 90%	E-commerce Supporting Technology	- Internet and WWW - Markup language - Intranet and extranet - Internet connection option	3 x 50 minutes
3.	Students know-how to explain and classify e-commerce model correctly about 90%	E-commerce Models	- Actor-based Model - Transaction-based Model - E-business	3 x 3 x 50 minutes
4.	Students know-how to present the result of online store exploration	Online Store Exploration	- Online Store Features - Online Store Transaction Models	2 x 3 x 50 minutes
5.	Learning Process Evaluation	Mid Semester Test (UTS)		-
6.	Students know-how to explain marketing models and technics in e-commerce correctly about 90%	E-marketing	- Web marketing strategies - Market segmentation - Customer relationship management	3 x 50 minutes

No	Specific Instructional Objectives	Topics	Subtopics	Time Estimation	
7.	Students know-how to explain payment aspects in e-commerce correctly about 90%	E-payment	- Online payment basics - Payment cards - Electronic cash	3 x 50 minutes	
8.	Students know-how to explain security aspects of e-commerce correctly about 90%	E-Security	- Online security issues - Communication channel security - Security for client and server computers - Organizations that promote computer security	3 x 50 minutes	
9.	Students know-how to explain concepts of e-government correctly about 90%	E-Government	- Public services - Modularization and integration of work units	3 x 50 minutes	
10.	Students know-how to explain aspek Law and Ethical Aspect of e-commerce correctly about 90%	Law and Ethical Aspect of e-commerce	- Legal environment - Ethical issues - Taxation	3 x 50 minutes	
11.	Students are able to develop e-commerce application	E-commerce Application	- Feature and Data Analysis - Process, Data, Layout Design - Application Implementation and testing - Application Presentation	2 x 3 x 50 minutes	
12.	Learning Process Evaluation	Final Test (UAS)		-	
				Total	2300 minutes

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 menit
 Arrangement : I

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to explain reason and development of e-commerce correctly about 90%
- B. Topic : Basic Concept of E-commerce
- C. Subtopic : 1. Business Model
 2. Business Process
 3. Advantages and disadvantages of e-commerce

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement I. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement I.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain Business Model 5. To explain Business Process 6. To explain advantages and disadvantages of e-commerce	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.
Termination	7. Close the arrangement: a. To raise questions to students and conduct discussion b. To review materials that of students have not understood.	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
	c. To conclude materials and bring correlation up to next arrangement.		

E. Evaluation

1. To give assignment to students to explore advantages and disadvantages of e-commerce in Internet.
2. Assignment evaluation in next arrangement.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 minutes
 Arrangement : II

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to explain web technology for e-commerce correctly about 90%
- B. Topic : E-commerce Supporting Technology
- C. Subtopic : 1. Internet and WWW
2. Markup language
3. Intranet and extranet
4. Internet connection option

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement II. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement II.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain Internet dan WWW. 5. To explain Markup language 6. To explain Intranet and extranet 7. To explain Internet connection option	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Termination	8. Close the arrangement: a. To raise questions to students and conduct discussion b. To review materials that of students have not understood. c. To conlude materials and bring correlation up to next arrangement.	<ul style="list-style-type: none"> To review the material, to attend discussion. 	<ul style="list-style-type: none"> OHP, whiteboard.

E. Evaluation

- To give assignment to students to explore advantages and disadvantages of e-commerce in Internet.
- Assignment evaluation in next arangement.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
 [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Gudie to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 minutes
 Arrangement : III,IV,V

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to explain and classify e-commerce model correctly about 90%
- B. Topic : E-commerce Models
- C. Subtopic : 1. Actor-based Model
2. Transaction-based Model
3. E-business

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement III,IV,V. 2. To explain purposes of E-commerce Models. 3. To explain competencies in TIU and TIK arrangement III,IV,V.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain Actor-based Model 5. To explain Transaction-based Model 6. To explain E-business	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.
Termination	7. Close the arrangement: a. To raise questions to students and conduct discussion b. To review materials that of students have not understood.	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
	c. To conclude materials and bring correlation up to next arrangement.		

E. Evaluation

1. To assign students to explore one model of e-commerce.
2. Assignment evaluation in next arrangement.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 minutes
 Arrangement : VI, VII

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to present the result of online store exploration
- B. Topic : Online Store Exploration
- C. Subtopic : 1. Online Store Features
2. Online Store Transaction Models

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement VI, VII. 2. To explain purposes of Online Store Exploration. 3. To explain competencies in TIU and TIK arrangement VI, VII.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain explored items 5. To pay attention and evaluate exploration result	<ul style="list-style-type: none"> • To explore online store • To present result of exploration 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.
Termination	6. Close the arrangement: <ol style="list-style-type: none"> a. To raise questions to students and conduct discussion b. To review materials that of students have not understood. c. To conclude materials and bring correlation up to next arrangement. 	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Termination	7. Close the arrangement: <ol style="list-style-type: none"> a. To raise questions to students and conduct discussion. b. To review materials that of students have not understood. c. To conclude materials and bring correlation up to next arrangement. 	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

E. Evaluation

1. To give assignment to students to explore e-marketing.
2. Assignment evaluation in next arrangement, after students store the assignment .

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 menit
 Arrangement : IX

A. Instructional Object :

1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
2. Specific : Students know-how to explain marketing models and technics in e-commerce.

B. Topic : Basic Concept of E-commerce

C. Subtopic : 1. Web marketing strategies
 2. Market segmentation
 3. Customer relationship management

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement IX. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement I.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain web marketing strategies. 5. To explain market segmentation. 6. To explain Customer relationship management.	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Termination	7. Close the arrangement: <ol style="list-style-type: none"> a. To raise questions to students and conduct discussion. b. To review materials that of students have not understood. c. To conclude materials and bring correlation up to next arrangement. 	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

E. Evaluation

1. To give assignment to students to explore e-marketing.
2. Assignment evaluation in next arrangement, after students store the assignment .

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 menit
 Arrangement : X

A. Instructional Object :

1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
2. Specific : Students know-how to explain payment aspects in e-commerce.

B. Topic : Basic Concept of E-commerce

C. Subtopic : 1. Online payment basics
 2. Payment cards
 3. Electronic cash

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement X. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement I.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain online payment basics. 5. To explain payment cards. 6. To explain electronic cash.	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Termination	7. Close the arrangement: <ol style="list-style-type: none"> a. To raise questions to students and conduct discussion b. To review materials that of students have not understood. c. To conclude materials and bring correlation up to next arrangement. 	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

E. Evaluation

1. To give assignment to students to explore e-payment.
2. Assignment evaluation in next arrangement, after students store the assignment.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 menit
 Arrangement : XI

A. Instructional Object :
 1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to explain security aspects of e-commerce.

B. Topic : Basic Concept of E-commerce

C. Subtopic :
 1. Online security issues
 2. Communication channel security
 3. Security for client and server computers
 4. Organizations that promote computer security

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement X. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement I.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain online security issues. 5. To explain communication channel security aspects. 6. To explain client-server connection security aspects.	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Termination	7. Close the arrangement: <ol style="list-style-type: none"> a. To raise questions to students and conduct discussion b. To review materials that of students have not understood. c. To conlude materials and bring correlation up to next arrangement. 	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

E. Evaluation

1. To give assignment to students to explore e-payment.
2. Assignment evaluation in next arangement, after students store the assignment.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 menit
 Arrangement : XII

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to explain concepts of e-government
- B. Topic : E-Government
- C. Subtopic : 1. Public services
2. Modularization and integration of work units

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement XII. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement XII.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain Public Service Aspect 5. To explain the mechanism of modularisation and work unit integration	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.
Termination	6. Close the arrangement: <ol style="list-style-type: none"> a. To raise questions to students and conduct discussion. b. To review materials that of students have not understood. c. To conclude materials and discuss its relation with the next materials to be given 	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	OHP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
	d. To conclude materials and bring correlation up to next arrangement.		

E. Evaluation

1. To give assignment to students to explore e-government.
2. Assignment evaluation will be done in next week after subscription of the assignment.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

SATUAN ACARA PENGAJARAN (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 menit
 Arrangement : XIII

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development.
 2. Specific : Students know-how to explain aspek Law and Ethical Aspect of e-commerce
- B. Topic : Law and Ethical Aspect of e-commerce
- C. Subtopic : 1. Legal environment
 2. Ethical issues
 3. Taxation

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement XIII. 2. To explain purposes of Basic Concept of E-commerce. 3. To explain competencies in TIU and TIK arrangement XIII.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain Legal environment 5. To explain Ethical issues 6. To explain Taxation	<ul style="list-style-type: none"> • To pay attention, and take a notice. • To pay attention, and take a notice. • To pay attention, and take a notice. 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.
Termination	7. Close the arrangement: a. To raise questions to students and conduct discussion b. To review materials that of students have not understood.	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
	c. To conclude materials and bring correlation up to next arrangement.		

E. Evaluation

1. To give written assignment to students to explore e-commerce law aspect.
2. Assignment evaluation will be done in next week after subscription of the assignment.

F. Reference

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.

LEARNING PLAN UNITS (SAP)

Course Subject : E-Commerce
 Course ID : PAC155
 Credits : 3
 Time Estimation : 3 x 50 minutes
 Arrangement : XIV-XV

- A. Instructional Object :
1. General : Accomplished this course subject, students should have knowledge about E-Commerce to be implemented in a simple web based application development..
 2. Specific : Students are able to develop e-commerce application
- B. Topic : E-commerce Application
- C. Subtopic : 1. Feature and Data Analysis
2. Process, Data, Layout Design
3. Application Implementation and testing
4. Application Presentation

D. Learning Activities and Learning Tools and Media

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
Initiation	1. To explain scope of arrangement XIV-XV. 2. To explain purposes of E-commerce Application. 3. To explain competencies in TIU and TIK arrangement XIV-XV.	<ul style="list-style-type: none"> • To pay attention. • To pay attention. • To pay attention. 	<ul style="list-style-type: none"> • OHP/LCDP • OHP/LCDP • OHP/LCDP
Presentation	4. To explain e-commerce application 5. To evaluate application developed	<ul style="list-style-type: none"> • To develop e-commerce application • To present application 	<ul style="list-style-type: none"> • OHP/LCDP, whiteboard. • OHP/LCDP, whiteboard.
Termination	6. Close the arrangement: a. To raise questions to students and conduct discussion b. To review materials that of students have not understood.	<ul style="list-style-type: none"> • To review the material, to attend discussion. 	<ul style="list-style-type: none"> • OHP, whiteboard.

Phases	Lecturer Activities	Students Activities	Learning Tools and Media
1	2	3	4
	c. To conclude materials and bring correlation up to next arrangement.		

E. Evaluation

1. To assign student to develop e-commerce application.
2. Assignment evaluation in next arrangement.

F. References

- [1] Schneider, G. P. (2004) *Electronic Commerce: The Second Wave*. Canada: Thomson Course Technology.
- [2] Shapiro, C., dan Varian, H. R. (1999) *Information Rules: A Strategic Guide to the Network Economy*. Boston: HBR Press.