



WP 3 – Curriculum Development II

Outcome 3.1 -Structure of the online learning platform

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REVISION SHEET

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1 Executive Summary

In this task, a web portal for adaptive e-learning purpose is developed. It serves as a single access point for all online course materials, self-studying resources (e-books, scientific articles, reports of case studies), quizzes, assignments, and as an interface for discussion/interaction among students as well as between students and lecturers. This web portal will satisfy the following requirements:

- Give students access to learning materials and other useful information as well as student's services
- Allow students to interact with each other and with course's instructor
- Allow students and instructors to share information
- Provide an innovative teaching tool for instructors and an alternative learning tool for students.

The VClass LMS (Learning Management System) developed by AIT intERLab is utilized with appropriate modifications for course management, forum discussion, announcement, grading, etc. The BigBlueButton, an open source conference system, and it expanded version MCONF will be utilized for organizing web conferences. This report will present the structure of Virtual Class and guides on how to use the system for online teaching/learning purpose.

2 Introduction

An online learning platform is a teaching and learning environment located within a computer-mediated communication system. In an online learning platform, all activities and interactions take place through the computer instead of face-to-face. A virtual classroom conducted on an online learning platform may involve three overlapping scopes of interaction technologies; i.e., virtual courses, online meetings and online presentations.

In an online learning platform, education refers to instruction in a learning environment where teachers and students are separated by time or place, or both. It is the place where students and instructors interact, and courses of entire degree programs can be electronically delivered in a whole or in sperate modules via a combination of different teaching and learning methods. Usually, in this type of learning environment, students and teachers interact using internet.

A typical virtual classroom conducted on an online learning platform may contain:

- 1. Class activities
- 2. Group and individual learning activities
- 3. Discussion and chats with a students
- 4. Quizzes and surveys
- 5. Homework activities and assesstment documents
- 6. Full online courses with modules of work
- 7. Forum and synchronous chat session

Conducting courses on an online learning platform can help to fulfil the learners' need in terms of







- Flexible time students may participate at any time using their own agendas
- Location students are not limited to courses offered in their geographic locations

For both teachers and students, courses conducted on an online learning platform provide many advantages:

- 1. Remove the need to travel to a location in which to participate/deliver the course lecture
- 2. The courses can be accessed from any computer/device with internet connection
- 3. The courses are accessible to students with physical disabilities, which is an advantage over the real classroom, as they can access it from home
- 4. Independent time schedule of attendance

The VClass online learning platform developed under MSIE 4.0 project will served the above requirements. This platform was developed at AIT and have been tested with 2 courses, i.e., AT72.03 Statistical Models & Design of Experiments (August Semester, 2018 – completed) and AT72.08 Stochastic Decision Models (January Semester, 2019 – ongoing). The general structure of VClass contains the following modules:

- Home page
- Lectures
- Peer Grading
- Forum
- Access logs
- Grade system
- Grade category
- Grades
- Submission
- Groupings
- About

In the following section, introduction about the above modules together with guidance on how to use the platform will be presented.

3 Structure of VClass online learning platform

3.1 Requirements

In order to use VClass, the users must

- Be a lecturer at partner universities or a student currently enrolled in the corresponding courses offered at partner universities
- Have login credential provided by website administrator (AIT)
- Have laptop/device with internet connection

The users can login to VClass from the address: http://msie.vclass.net/

The login interface is illustrated in Figure 1 below:



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Figure 1. Login Interface of VClass







3.2 Home Page

After login, the teacher will see the list of courses he/she offered (see Figure 2)

Then by clicking on "Open Course" button on the right, the home page of the course will be opened as seen in Figure 3

On the home page of a course, the following information can be seen:

- Recent announcements
- Learning documents/Lectures recently uploaded

New announcement can be posted by use of "Post Announcement"

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	Search		
	AT72.05: Quality Control and Management by. Huynh Trung Course Objective: The objective of this course is to impart knowledge		
	Open Course		
	AT72.03: Statistical Models & Design of Experiments by. Huynh Trung Course Objective: The objective of this course is to impart knowledge on various statis		
	Open Course		
	AT72.08 Stochastic Decision Models by. Huynh Trung 		
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Figure 2. List of opened courses in VClass



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Forum	Home Assignments 1, 2 & 3 are available for download now		 Factorial Design 			
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Figure 3. Home page of a course





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3.3 Lectures Module

In lectures module, the lecturers can upload lectures (e.g., ppt presentation files), live videos & recordings, documents such as pdf and word files. The interface of "lectures" module is showed in Figure 4

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	Home	Edi	t Mode		
	Lectures				
	Forum	1. Basic Concepts			
	Access Logs				
	Grade System	1.2. Statistical Inferences			
	Grade Catego	1.3. Data Representation, Measures of Central Tendency and Despersion			
	Grades	1.4. Sampling Methods and Sampling Distributions			
	Alterna	2. Introduction to Probability Theory			
	About	2.1. Experimentsd, Events, Sample Space			
		2.2. Posterior Probability and Bayes' Theorem			
		2.3. Conditional Probability and Expectation			
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Figure 4. Interface of "Lectures" module in live mode

In order to upload lectures/documents on to the learning platform, click the "edit mode" on the interface of lectures module in "live mode" to enter "edit mode" (see Figure 5), and then click "File Manager". On the pop-up window, click "upload" and then upload files from computer to the learning platform (see Figure 6).

On the interface of "Lectures" module in edit mode, the outline of the course offered can be defined. The procedure is as follows:

- 1. Type the lectures title and click add button
- 2. Use "arrow up" and "arrow down" buttons to arrange the sequence of lectures.
- 3. Use "arrow left" and "arrow right" button to define folder/sub-folder

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Home	Lectures		
Lectures	File Manager		Live Mode
Forum	o up odown of left of right of the second s	Session Title	Add
Access Logs			
Grade Syste	m [1] Basic Concepts		
Grade Cate	[1.1] Descriptive and Inferential Statistics		2
Grades	[1.2] Statistical Inferences		۵
About	[1.3] Data Representation, Measures of Central Tende	ency and Despersion	₽ 🛍
	[1.4] Sampling Methods and Sampling Distributions		2 1
	[2] Introduction to Probability Theory		2
	[2.1] Experimentsd, Events, Sample Space		2
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Figure 5. Interface of "Lectures" module in edit mode



Figure 6. Interface of for uploading lectures/documents on to the learning platform

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To link the content that has been uploaded using File Manager to a session title in the course outline or to revise the session title/linked content, the procedure is as follows:

- 1. In edit mode, click the edit icon that encircle red in Figure 5.
- 2. On the pop-up window (see Figure 7) edit the session title or lecture title.
- 3. On type field there are 2 types
 - Content file for documents, ppt, pdf, etc.. and video recording lectures
 - Live Lecture for live class using video conferencing system (MCONF)
- 4. Click browse if selecting the "content file" from step 3 and select the appropriate document from file manager.
- 5. Available Date Set the time duration for which the lecture is available.
- 6. Content type by default the content type is set to Normal, another option is to select SCORM (Sharable Content Object Reference Model) compliant type so that the document can be easily transfer to other learning management systems (LMSs)
- 7. Score category can also be specified here if the session/lecture title is declared under "Grade Category" module for determining final grade of the students enrolled in the course.

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Figure 7. Interface to define a session/lecture title in the course outline



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3.4 Peer Grading Menu

The Peer Grading Menu will be available only to student Interface. The instructor can see the Peer Grading Result by accessing the Grading Result Category. Please refer to 3.6 under Grades Module.

3.4.1 Create/Add Peer Grading in Grade Category (Instructor Interface)

In these module (see figure 14), In order to use the group assessment function. The instructor must create/add Peer Grading in Grade Category section and assign the desired percentage.

Sample Course by Clifford Gasillos

Grade Category					
Name	Percentage(%)	Action			
Assignment	15%	1			
Final Exam	50%	1			
Midterm Exam	30%	1			
Peer Grading	5%	1			
		Add			
	Grade Category Name Assignment Final Exam Midterm Exam Peer Grading	Grade Category Percentage(%) Name Percentage(%) Assignment 15% Final Exam 50% Midterm Exam 30% Peer Grading 5%			

Figure 8 Create/Add Peer Grading in Grade Category









3.4.2 Adding Peer Grading in Lectures (Instructor Interface)

The instructor must create/add peer grading activities under lectures menu. Once created click edit and change the value of score category into the Peer Grading created from the task 3.10. And follow the corresponding configuration in below figure.

Sample Course by Cliffo	rd Gasillos				
Home	Lectur				
	File Ma	Title	Peer Graded Work 2	Live	e Mode
Lectures		Туре	Content file		
Peer Grading	🗢 up	51.0			Add
Forum		File/Source	%course_url%/Clifford/7874_3546_CatalogHe		
Access Logs	[1] Ses:	Available	All the time		D 🗊
Grade System	[2] Ses:	Date			D 🗊
Grade Category	[2.1]	Content Type	Normal	Assignment	1
Grades	[3] Ses	Score	Peer Grading(5%)		1
Submission	[4] Mid	Category		Midterm Exam	D 🖻
Groupings	[5] Ses	Max Score	10		D 🗊
About	[6] Ses	Submit	No		1
	[6.1]	File		Peer Grading	2
	[6.2]		Save Cancel	Peer Grading	2
	[7] Fina			Final Exam	2

Figure 9 Assigning score category



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3.4.3 Accessing Peer Grading Module (Student Interface)

The student may evaluate their co-member-co-group member in the Peer Grading Menu. They can see in the drop-down menu the available lecture that has scored by peer grading in grading category.

M	4.0		My Courses	Logout
v-	Class Tutorial by Cliffe	ord Gasillos		
	Home	Peer grading		
	Lectures	Select		•
	Peer Grading	Select Peer Grading		
	Forum			
	About			

Figure 10 Accessing Peer Grading Module

3.4.4 Assess your co-member/co-group (Student Interface)

The student may evaluate themselves and co-member. In this case, In the grading score category I set was maximum of 10 points. The student must click twice the submit button and wait the notification "You have already submitted."

Í .0			My Courses Lo	ogout			
Class Tutorial by Cl	ifford Gasillos						
Home	Peer grad	g					
Lectures	Peer Gradi	Peer Grading					
	Please grade ye	rself and peers. Maximum is 10					
Peer Grading	Name	Grade					
_	ait user	10					
Forum	cmu user	10					
About	cut user	10					
	Huynh Trung L	ng					
	You already sul	itted.					

Figure 11 Student Assessment in Peer Grading



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3.5 Forum Module

On the interface of the forum module (see Figure 8), the teacher can create different rooms for communication with students and among students (e.g., Discussion, Asking for Help, etc.). Activities happened in this forum module can be observed and monitored in real time.

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Home	Forum				
Lectures			Create Catego	iry	
Forum	Sub Category		Latest Activity		
Access Lo	Discussion The students can post any question related to discussion bare	the subjects discussed in this course for	No post yet		
Grade Sys	tem				
Grade Cat	egory Asking for Help The students can raise the question to the lea	turer here	Statistics Assignmen (6 months ago)		
Grades					
About					

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Figure 12. Interface of the Forum module

3.6 Access Logs Module

In this module (see Figure 13), the number of times a student accessed a specific session of the course is recorded. By clicking on the name of a student, the duration of time he/she spent in each access is also presented.

3.7 Grade System Module

In this module (see Figure 14), the grading system (i.e., A, B+, B,...) used for the course will be defined based on the cumulative percentage a student received at the end of the course. The tentative grade of a student will be automatically determined following the grading system defined in this module based on their performance in different grading criteria of the course (e.g., home assignment, individual/group projects, presentation, exams, ...).



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	Home	Access Logs					
	Lectures	Name		Total Views			
	Forum	Yasiru Shikshitha Benaragama		3			
	Access Logs	clifford gasillos		5			
	Grade System	Sidharath Joshi		19			
	Grade Category	Suchera Putthakosa		4			
	Grades	Pasan Ranwala		4			
	About	Mudiyanselage Arunika Sandani Wijekoon		13			
		Zay Yar Min		17			

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Figure 13.	Interface of the Access Logs Module
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A	T72.03: Statistical M	lodels & Design of Experiments by Huynh Trung Luong			
	Home	Grade System			
	Lectures	Grade	Percentage(%)		
	Forum	А	90		
	Access Logs	B+	80		
	Grade System	В	65		
	Grade Category	C+	50		
	Grades	С	40		
	About	D	20		
		F	0		
		Submit			
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		Figure 14. Interface of th	e Grade System Module		

QF-DTM (v3) - Deliverable Template (to be replaced with Abbreviation (version no.)- Deliverable Title)





3.8 Grade Category Module

In this module (see Figure 15), the performance criteria used for calculating the tentative grades of students are defined.

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	™ 1 .0			My Course	s Logout
	AT72.03: Statis	ical Models & Design of Experiments by Huynh Trung Luong			
	Home	Grade Category			
	Lectures	Name	Percentag	e(%) Action	
	Forum	Final exam		40%	ŵ
	Access Logs	Home Assignment 1		10%	ŵ
	Grade System	Home Assignment 2		10%	ŵ
	Grade Categ	Home Assignment 3		10%	ŵ
	Grades	Midsemester exam		30%	Ê
	About			A	dd
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Figure 15. Interface of the Grade Category Module

3.9 Grades Module

In this module (see Figure 16), the tentative grade of the student will be defined based on the weighted cumulative percentage of all performance criteria. But, the final grade can be adjusted.

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Home	Grad	des								
Lectures	Down	load CSV								
Forum										
Access Logs	ID	Name	Home Assignment	Home Assignment	Midsemester exam	Final exam	Home Assignment	Calculated Grade	Final Grade	
Grade Syste	m		1 100 Points /	3 100 Points /	100 Points / 30%	100 Points /	2 100 Points /			
Grade Categ	jory		10% ?	10% ?	?	40% ?	10% ?			
Grades	0	Yasiru	100	90	100	95	95	96.5%	~	
About		Shikshitha Benaragama						A		
	0	clifford gasillos	100	80	20	55	88	54.8% C+	~	
	0	Sidharath Joshi	20	0	10	30	20	19% F	~	
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Figure 16. Interface of the Grades Module

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3.9.1 Viewing Peer Grading Result

To view the assessment result of each student you can accessed it under grades menu. Then below of the page you will see "Peer Grading and a drop-down menu" and select the peer graded category as per figure 16

	Select
	Peer Graded Work (Peer Grading - 5%)
	Peer Graded Work 2 (Peer Grading - 5%)
	Assignment (Assignment - 15%)
Pe	Mid-Term Exam (Midterm Exam - 30%)
re	Final Exam (Final Exam - 50%)
	Select

Figure 17

Once the appropriate category has been selected the grades for each group will appear. See below figure

Peer Grading

Peer Grading (Peer Grading - 10%)					•
Group: Group 1					
Name	ait user	cmu user	cut user	Huynh Trung Luong	Score
ait user	10	10	10		7.5
cmu user	9	10	9		7
cut user					0
Huynh Trung Luong					0





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3.9.2 Manual Grading Input for Peer Grading (Instructor Interface)

The instructor must manually put the final score result of Peer Grading (Figure 18) for "ait user" which is 7.5 points to the grading system (figure 18) then click save button to save the changes.

Home	Grades					
Lectures	Download CSV					
Peer Grading						
Forum	Name	Final 50 Points / 50%	Assignment 10 Points / 10%	Peer Grading 10 Points / 10%	Calculated Grade	Final Grade
Access Logs		?	?	?		
Grade System	Huynh Trung Luong	0	0	0	0% F	
Grade Category	tomasz nitkiewicz	0	0	0	0% F	
Grades						
Submission	ait user	30	8	7.5	45.5% C	
Groupings	cmu user	0	0	0	0% F	
About	cut user	0	0	0	0% F	

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3.10 Submission Module

In these Module, The instructor can create/assigned a submission function like home assignment under his lecture session. The instructor can view the submitted files by the student's in the submission menu tab.

Home	Submissions	
Lectures	Assignment	v
	Name	Submitted
Peer Grading	Huynh Trung Luong	No
Forum		
Access Logs	tomasz nitkiewicz	No
Grade System	ait user	Yes
Grade Category	 Developemnt_of_a_Helicopter_Flightsimulator_115634.pdf 	
Grades	cmu user	Yes
Submission	cut user	Yes

Figure 20

3.10.1 Create Submission in Lectures Module (Instructor Interface)

To create a submission session in your lecture. Go to Lecture Menu > Edit Mode. In this case I have Assignment in lecture's session and wanted to be my submission link. From that session click edit icon as shown in figure 21 with a red arrow.

[6] Assignment

Assignment 📄 💼





Setting the parameters will vary depending on the instructor settings (e.g Score Category, Max Score, Available Date and Deadline submission.)

- 1. Type Content file
- 2. File Source- Choose any file source in your file manager
- 3. Available Date means the availability of submission session.
- 4. Content Type Normal
- 5. Score Category Assignment
- 6. Max Score Depend on the Score Category
- 7. Submit File Yes
- 8. Deadline You can set a deadline before your next class session.

Title	Assignment
Туре	Content file
File/Source	%course_url%/vclass_tutorial/Session2/Devel
Available Date	All the time
Content Type	Normal
Score Category	Assignment(10%)
Max Score	10
Submit File	Yes
Deadline	2019-11-06 00:00
	Save





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3.10.2 Viewing the Submitted files (Instructor Interface)

To view the submitted file by the student the instructor can accessed in Submission Menu. Then from the drop-down menu select the appropriate session title that has a submission link. In this case, ait user only has submitted the assignment. The instructor can download the submitted file to verify if the submitted file is correct.

<u>ها</u> .0		My Courses Logout
V-Class Tutorial by Cli	fford Gasillos	
Home	Submissions	
Lectures	Assignment	*
De en Creadia a	Name	Submitted
Peer Grading	Huynh Trung Luong	No
Forum		
Access Logs	tomasz nitkiewicz	No
Grade System	ait user	Yes
Grade Category	 Developemnt_of_a_Helicopter_Flightsimulator_115634.pdf 	
Grades	cmu user	Yes
Submission	Cut user	Yes





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3.10.3 File submission (Student Interface)

To submit a file go to lectures module > Select the session that has submission link. Once the student clicked the following session. The upload box will appear

- 1. Upload your file in File Manager by accessing lectures module > File Manager
- 2. Go to lectures > Select the session that has submission link (e.g Home Assignment)
- 3. Choose the file that was uploaded from step 1
- 4. In the Comment box type the student id, message or etc.
- 5. Clicked Upload button 2 times or until you see the message you file has been submitted.

The Deadline is on 2019-12-20
Submit File Choose File Nettinghosen
Comments
Maximum of 100 Characters.
Upload
You have submitted the formula files
Submitted Files





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Once the submission link has ended in the student interface. They will see the following notification or message. See in figure 25 below

- 4		
- 2	Б.	

Submission has already ended on 2019-11-06. You have submitted the following files

Submitted Files







3.10 Groupings Module

In these module (see figure 26), The instructor can create group and assign each student as per desired group. The grouping menu will appear only into instructor account.

<u>™</u> .0	My Courses Logo	out
AT72.05: Quality Con	trol and Management by Huynh Trung Luong	
Home	Groupings for Peer Grading	
Lectures	Peer Grading (Final Examination - 50%)	•
Peer Grading	Create Grou	ъ
Forum	No Group Group: Group 1	
Access Logs	 msie auditor [*] Suchera Putthakosa [*] Sidharath Joshi [*] 	
Grade System	Yasiru Shikshitha Benaragama	
Grade Category	Group: Group 2 clifford Test user 2 [*] 	
Grades	 Zay Yar Min Pasan Ranwala 	
Submission	• Mudiyanselage Arunika Sandani Wijekoon 🧃	
Groupings		
About		

Figure 26



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3.10.1 Create Peer Grading Session (Instructor Interface)

- 1. Lecture Module > Edit Mode > In Session Title type Peer Grading then click add button
- 2. Locate for the Peer Grading Session then click edit icon
- 3. Then Follow The parameters in figure 27 and save.

Please note that if you could not find in the Score Category the Peer Grading. Kindly check your Grade Category module if you created the Peer Grading. Otherwise you need to create and adjust accordingly the percentage.

Title	Peer Grading
Туре	Content file •
File/Source	Browse
Available Date	All the time
Content Type	Normal
Score Category	Peer Grading(10%)
Max Score	10
Submit File	No
	Save Cancel



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3.10.2 Create Group in Peer Grading Session (Instructor Interface)

 Groupings Module > In Drop-down menu select "Peer Grading) > Create Group Groupings for Peer Grading

	Peer Grading (Peer Grading - 10%)		Create Group
2.	Enter the Group Name	-	
	Enter Group Name		
	Group Name		
	SUBMIT CANCEL		
3.	You can assign the student by navigating the drop-down r	nenu then click Assign button.	



- 🔹 cut user 🧃
- Huynh Trung Luong
- 4. The instructor can re-assign the following student to the different group by clicking delete button

The Instructor account can only do the following in this module;

- 1. Create Group
- 2. Delete Student from the Group
- 3. Re-assign Student in another group



3.11 About Module

In this module (see Figure 13), basic information about the course (e.g., course objective, course learning outcomes, etc.) are presented.

Asian Institute of Technology / ISE $$ $$ $$	🕅 Sharable Content Object Refere X + - 🗇 X				
← → ♂ ଢ	🛈 msie.vdass.net//instructor/course_info.php 🚥 🐨 🔂 🔍 Search 💷 🗄	=			
<u>ه</u>	My Courses Logout				
AT72.03: Sta	tistical Models & Design of Experiments by Huynh Trung Luong				
Home	About				
Lectures	Course Objective: The objective of this course is to impart knowledge on various statistical methods with a special emphasis on design of				
	experiments.				
Access Lo	Learning Outcomes:				
Grade Sys	tem • Determine basic descriptive statistics of ungrouped and grouped data sets that are needed for statistical inferential				
Grade Cat	egory • Estimate and test of hypotheses on population parameters for decision making purpose				
Grades	Apply analysis of variance design problems in industries				
About	I [™] Modify				



x^R ^ 恒 닫 예 2/22/2019 다

Figure 28



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