

AAPP007-4-2 SYSTEMS ANALYSIS AND DESIGN



Introduction

Lecturer Information



Lecturer: Justin Gilbert

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Email/Teams Chat: Mondays – Fridays, 09:00AM – 17:00PM

Pre-requisites for this module

- No pre-requisites

Aims of this module

This module is to provide knowledge of basic techniques of system analysis and design. Furthermore, the module will also require the student to apply the knowledge to the analysis and design of a given case study and present the design to stakeholders.

Course Learning Outcomes (CLOs)

At the end of this course, you should be able to:

1. Describe the fundamentals of analysis and design in systems development.
2. Apply to appropriate standard, the key techniques of analysis and design for a given case study.
3. Describe how the techniques and framework of activities, including key user interface issues, are used together to develop a system.

Mapping of CLOs with MOEs Domain

Course Learning Outcomes (CLO)	Programme Learning Outcomes (PLO)									Teaching Methods	Assessment
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9		
CLO 1	✓									Lecture	Exam
CLO 2			✓							Tutorials	Assignment
CLO 3				✓						Tutorials, Case Study	Presentation
CLO 4											

- ☐ PLO1 – Knowledge
- ☐ PLO3 – Problem Solving and Scientific Skills
- ☐ PLO4 – Communication Skills

Teaching Strategies

- ☐ Lecture
- ☐ Tutorial
- ☐ Case Study



Assessment Methods

❑ Final Exam (40%) : CLO1

❑ Continuous Assessment (60%):

- Group Assignment (50%) : CLO2
 - Group of FOUR (4) students (from the same tutorial class)
 - Analysis and design for a given case study
- Presentation (10%) : CLO3



Student Learning Time (SLT)

- ❑ Course Credit Value: 4
- ❑ Total Learning Hours:
 - ❑ Lecture: 28 hours per semester
 - ❑ Tutorial / Case Study : 28 hours per semester
 - ❑ Independent Learning Time: 58 hours



Outcomes Based Education (OBE)

- ❑ OBE is education based on producing educational outcomes that:
 - ❑ Focus on what students can do after they are taught
 - ❑ Expect all students to successfully achieve (sometimes minimum) level of knowledge and abilities.



So...What is OBE?

It's

NOT

What we want to teach,

It's

What You should learn



Course Content Outline

CLO1 : Final Exam (40%)

□ Lecture

- Introduction to Information System
- System Analyst and Project Manager
- Systems Development Life Cycle (SDLC)
- Planning
- Analysis
- Design
- Implementation
- Deployment and Maintenance



Course Content Outline

CLO2 : Group Assignment (50%)

CLO3: Presentation (10%)

☐ Tutorial / Case Study

- ☐ Tutorials on Planning and Analysis stages of SDLC
- ☐ Tutorials on Design Logical design - Creating DFD from Case Studies
- ☐ Tutorials on Prototyping Generating wireframe and prototype screens for case studies
- ☐ Presenting logical designs and prototype screens for case studies



Terms and Conditions

You should abide to all the rules & regulations of APU

- Proper attire
- Attendance is compulsory and valid medical certificates or letters from parents /guardians must support any absence from class.
- Three lateness will be equal to one absence
- All handphones should be turned off during lectures.



Resources



Essential Reading

- Satzinger, J.W., Jackson, R.B., Burd, S.D. (2016). Systems Analysis and Design in a Changing World. 7th ed. Cengage Learning. ISBN: 1305117204
- Valacich, J.A., George, J. (2016). Modern Systems Analysis and Design. 8th ed. Pearson. ISBN: 0134204921

Suggested Reading

- Schwalbe, K. (2016). Information technology project management. 8th ed. Course Technology. ISBN: 9781285452340

Achievement Requirements

Undergraduate:

Marks	Alphabetical Grade	Grading Point	Classification
80-100	A+	4.0	Distinction
75-79	A	3.7	
70-74	B+	3.3	Credit
65-69	B	3.0	
60-64	C+	2.7	Pass
55-59	C	2.3	
50-54	C-	2.0	
40-49	D	1.7	Fail (marginal)
30-39	F+	1.3	Fail
20-29	F	1.0	Fail
0-19	F-	0	Fail



Next Session

- **Introduction to Information System**

