Course Outline	
COMP8074	
Thesis	BINUS UNIVERSITY
(6)	
	Study Program
	Computer Science
Effective Date 01 September 2017	Revision 0

1. Course Description

This course is designed to guide undergraduate students from computer science program through the stages of writing their undergraduate theses. Topics include planning, research and documentation, prose style and editing, document design, ethics, abstracts, and oral presentations. The students will also become acquainted with research topics, ways of framing arguments, and making points outside their fields of study, which will help them develop a more interdisciplinary perspective.

2. Graduate Competency

Each course in the study program contributes to the graduate competencies that are divided into employability and entrepreneurial skills and study program specific outcomes, in which students need to have demonstrated by the time they complete their course.

BINUS University employability and entrepreneurial skills consist of planning and organizing, problem solving and decision making, self management, team work, communication, and initiative and enterprise.

2.1. Employability and Entrepreneurial Skills

0-	Aspect		Key Behaviour							
-					100	10.00		-		

2.2. Study Program Specific Outcomes

Study Program Specific Outcomes

Able to apply knowledge and understanding of mathematical concepts, principles and theories relating to computer science knowledge.

Able to demonstrate knowledge and understanding of algorithm concepts, principles and theories relating to computer science knowledge.

Able to classify problems and to apply design and development principles for specific problems

Able to classify criteria and specifications appropriate to specific problems, plan strategies for their solution and construct appropriate software systems.

Able to construct a solution by applying current technologies especially in Game Application and Technology.

Able to depict trend mobile technologies in the future

3. Topics

- Introduction
- Doing Research
- Experiments
- Ethics
- Giving Presentation

4. Learning Outcomes

On successful completion of this course, student will be able to:

- LO 1: Produce Produce an operational plan of study designed to lead to the successful completion of the thesis.
- LO 2: Perform Perform a comprehensive literature review of the topic under investigation and write a comprehensive and logical evaluation of the significant and relevant aspects.

- LO 3: Design Design and implement an appropriate research methodology taking full account of the range of alternative techniques and approaches.
- LO 4: Write Plan and write a thesis, which demonstrates both a detailed understanding of the selected topic and a logical consistency in approach.

5. Teaching And Learning Strategies

In this course, the lecturers might deploy several teaching learning strategies, including Demonstration, Discussion, Lecture, and Presentation.

6. Textbooks and Other Resources

- 6.1 Textbooks
 - 1. Justin Zobel. (2004). Writing for Computer Science. 02. Springer. London. ISBN: 1852338024.

The book in the first list is a must to have for each student.

6.2 Other Resources

1.

7. Schedule

Theory

	Session/ Mode	Related LO	Topics	References
	1	LO 1	Introduction	- Introduction
	F2F		- Algorithms	
			- Editing	
			 Graph, Figures, and Tables Mathematical Writing 	
			- Structure of Thesis	
			- Style of Thesis Writing	
0-			- Types of Publication	
			- Writing Hints	
	2	LO 1	Introduction	- Introduction
	F2F		- Algorithms	
			- Editing	
			 Graph, Figures, and Tables Mathematical Writing 	
			- Structure of Thesis	
			- Style of Thesis Writing	
			- Types of Publication	
			- Writing Hints	
	3	LO 1	Introduction	- Introduction
	F2F		- Algorithms	
			- Editing	
			- Graph, Figures, and Tables - Mathematical Writing	
			- Structure of Thesis	
			- Style of Thesis Writing	
			- Types of Publication	
			- Writing Hints	
	4	LO 2	Doing Research	- Doing Research
	F2F		- A Research Check List	
			- Beginning	
			- Defending Hypothesis - Evidence	
			- Finding Research Literature	
			- Good or Bad Science	
			- Hypothesis	
			- Proposed Topic Discussion	

		- Reflection on Research	
		 Shaping a research project 	
5 F2F	LO 2	Doing Research - A Research Check List - Beginning	- Doing Research
		 Defending Hypothesis Evidence 	
		 Finding Research Literature Good or Bad Science Hypothesis 	
		 Proposed Topic Discussion Reflection on Research 	
		- Shaping a research project	
6 F2F	LO 2	Doing Research - A Research Check List	- Doing Research
		 Beginning Defending Hypothesis Evidence 	
		 Finding Research Literature Good or Bad Science 	
		HypothesisProposed Topic Discussion	
		Reflection on Research Shaping a research project	
7 F2F	LO 2	Doing Research - A Research Check List - Beginning	- Doing Research
		 Defending Hypothesis Evidence 	
0		 Finding Research Literature Good or Bad Science 	
		HypothesisProposed Topic Discussion	
		Reflection on Research Shaping a research project	Deine Dessent
8 F2F	LO 2	Doing Research - A Research Check List - Beginning	- Doing Research
		 Defending Hypothesis Evidence 	
		Finding Research LiteratureGood or Bad Science	
		 Hypothesis Proposed Topic Discussion Reflection on Research 	
		- Shaping a research project	
9 GSL	C LO 2	Doing Research - A Research Check List	- Doing Research
		 Beginning Defending Hypothesis 	
		 Evidence Finding Research Literature Good or Bad Science 	
		 Hypothesis Proposed Topic Discussion 	
		 Reflection on Research Shaping a research project 	
10 GSL	LO 2 C	Doing Research - A Research Check List	- Doing Research

	11 F2F 12 F2F	LO 2 LO 3 LO 2 LO 3	 Beginning Defending Hypothesis Evidence Finding Research Literature Good or Bad Science Hypothesis Proposed Topic Discussion Reflection on Research Shaping a research project Experiments An Experiment Check List Describing Experiment Design Experiments Intuition Measurement and Coding Statistic Variables Experiments An Experiments An Experiment and Coding Statistic Variables 	- Experiments - Experiments
			 Describing Experiment Design Experiments Intuition Measurement and Coding Statistic Variables 	
0	13 F2F	LO 2 LO 3	Experiments - An Experiment Check List - Describing Experiment - Design Experiments - Intuition - Measurement and Coding - Statistic - Variables	- Experiments
	14 F2F	LO 2 LO 3	Experiments - An Experiment Check List - Describing Experiment - Design Experiments - Intuition - Measurement and Coding - Statistic - Variables	- Experiments
	15 F2F	LO 2 LO 3	Experiments - An Experiment Check List - Describing Experiment - Design Experiments - Intuition - Measurement and Coding - Statistic - Variables	- Experiments
	16 F2F	LO 2 LO 3	Experiments - An Experiment Check List - Describing Experiment - Design Experiments - Intuition - Measurement and Coding - Statistic - Variables	- Experiments
	17 F2F		Ethics - An Ethic Check List	- Ethics

			- Authorship	
			- Confidentiality and conflict of interest	
			- Misrepresentation	
			- Plagiarism	
			- Self-Plagiarism	
	18		Ethics	- Ethics
	F2F		- An Ethic Check List	
			- Authorship	
			 Confidentiality and conflict of interest 	
			- Misrepresentation	
			- Plagiarism	
			- Self-Plagiarism	
	19	LO 4	Giving Presentation	 Giving Presentation
	F2F		- Content	, i i i i i i i i i i i i i i i i i i i
			- Delivery	
			- Figures	
			- Organization	
			- Pre-defense Thesis Presentation	
			- Preparation	
			- Presentation Check List	
			- Question Time	
			- Slide	
			- Slide Tools	
			- Text Slides	
			- The Conclusion	
			- The Introduction	
	20	LO 4	Giving Presentation	- Giving Presentation
	F2F	LO 4	- Content	- Giving r resentation
	1 21		- Delivery	
			- Figures	
0-			- Organization	
			- Pre-defense Thesis Presentation	
			- Preparation	
			- Presentation Check List	
			- Question Time - Slide	
			- Slide Tools	
			- Text Slides	
			- The Conclusion	
	0.1		- The Introduction	
	21	LO 4	Giving Presentation	- Giving Presentation
	F2F		- Content	
			- Delivery	
			- Figures	
			- Organization	
			- Pre-defense Thesis Presentation	
			- Preparation	
			- Presentation Check List	
			- Question Time	
			- Slide	
			- Slide Tools	
			- Text Slides	
			- The Conclusion	
			- The Introduction	
	22	LO 4	Giving Presentation	 Giving Presentation
	F2F		- Content	
			- Delivery	
			- Figures	
			- Organization	

1			Dro defense Thesis Dresentation	
			- Pre-defense Thesis Presentation	
			- Preparation	
			- Presentation Check List	
			- Question Time	
			- Slide	
			- Slide Tools	
			- Text Slides	
			- The Conclusion	
			- The Introduction	
	23	LO 4	Giving Presentation	 Giving Presentation
	F2F		- Content	-
			- Delivery	
			- Figures	
			- Organization	
			- Pre-defense Thesis Presentation	
			- Preparation	
			- Presentation Check List	
			- Question Time	
			- Slide	
			- Slide Tools	
			- Text Slides	
			- The Conclusion	
	0.1	101	- The Introduction	Oixing Dress station
	24	LO 4	Giving Presentation	- Giving Presentation
	F2F		- Content	
			- Delivery	
			- Figures	
			- Organization	
			 Pre-defense Thesis Presentation 	
-0-			- Preparation	
			 Presentation Check List 	
			- Question Time	
			- Slide	
			- Slide Tools	
			- Text Slides	
_			- The Conclusion	
			- The Introduction	
	25	LO 4	Giving Presentation	- Giving Presentation
	F2F		- Content	č
			- Delivery	
			- Figures	
			- Organization	
			- Pre-defense Thesis Presentation	
			- Preparation	
			- Presentation Check List	
			- Question Time	
			- Slide	
			- Slide Tools - Text Slides	
			- The Conclusion	
			- The Introduction	
	26	LO 4	Giving Presentation	- Giving Presentation
	F2F		- Content	
			- Delivery	
			- Figures	
			- Organization	
			 Pre-defense Thesis Presentation 	
			- Preparation	
			- Presentation Check List	

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Course Outline

- Question Time	
- Slide	
- Slide Tools	
- Text Slides	
- The Conclusion	
- The Introduction	

8. Evaluation

Theory

A an a second and builder	Malaka	Learning Outcomes				
Assessment Activity	Weight	1	2	3	4	
Final Exam	100%	V	V	V	V	

Practicum

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Final Evaluation Score

Aspects	Weight
Theory	100%
Practicum	0%

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