

OUR LADY OF FATIMA UNIVERSITY COLLEGE OF COMPUTER STUDIES

ALGO 211

Algorithms and Complexity

Study Guide

Instructions:

In order to maximize the Algorithms and Complexity course, please follow the prescribed procedures.

- ✓ Go to the Homepage. It shows the course description.
- ✓ Click the Syllabus to view the weekly topics.
- ✓ Then go to the Modules in the navigation bar.
- ✓ Download your PDF copy of the syllabus by clicking the

ALGO211-Student Syllabus_2020-2021.pdf

✓ Follow the assigned weekly tasks per module in the below table

Week	Topic	Tasks	
1	Course Orientation	✓	Click Week 1. It will expand to
			show the module's contents.
		✓	Click the OLFU! Rise to the Top!,
			and Course Outline
		✓	Read and memorize the
			University and College mission
			and vision, program educational
			objectives, program outcomes
		✓	Click and answer "Student
			Profiling"
		✓	Click and answer "Week 1:
			Discussion 1"
2	Analysis of Algorithms	✓	Click Week 2. It will expand to
			show the module's contents.

		✓ View or Download the ALGO211_Week2 Analysis of
		Algorithm.pptx ✓ Click and watch the video "The
		Big-Oh!"
3	Graph Algorithms	✓ Click Week 3. It will expand to
		show the module's contents. ✓ Download the PowerPoint file
		for this module
		ALGO211_Week3 Graph
		Algorithms.pptx
		✓ Click and answer Quiz: Graph
		Quiz
4	Minimum Spanning Tree	✓ Click Week 4. It will expand to
		show the module's contents.
		✓ Download the PowerPoint file
		for this module
		ALGO211_Week4 Minimum
		Spanning Tree.pptx
		✓ View the Minimum Spanning
		Tree
		✓ View the Kruskal's Algorithm
		✓ View the Prim's Algorithm
5	Croady Algarithms	✓ View the Boruvka's Algorithm ✓ Click Week 5. It will expand to
5	Greedy Algorithms	✓ Click Week 5. It will expand to show the module's contents.
		✓ Download the PowerPoint file
		for this module
		ALGO211_Week5 Greedy
		Algorithm.pptx
		✓ View the Greedy Algorithm
		Definition
		✓ View your assignment to this
		module: Group Assignment:
		Greedy Algorithms
		✓ Do the assignment.
6	Preliminary Examination	
7	Computational Complexity	✓ Click Week 7. It will expand to
		show the module's contents.
		✓ Download the ALGO211_Week7
		Computational Complexity.ppt
		✓ View your assignment to this
		module: Computational
		Complexity ✓ Do the assignment.
8	Approximation Algorithm	✓ Click Week 8. It will expand to
٦	Approximation Aigorithm	show the module's contents.
		show the module's contents.

		✓ Download the ALGO211_Week8
		Approximation.ppt
		✓ View your assignment to this
		module: Approximation
		Algorithm
		_
_		✓ Do the assignment.
9	Computational Geometry	✓ Click Week 9. It will expand to
		show the module's contents.
		✓ Download the ALGO211_Week9
		Computational Geometry.pptx
		✓ View your assignment to this
		module: Computational
		Geometry
		· · · · · · · · · · · · · · · · · · ·
10		✓ Do the assignment.
10	Computational Learning Theory	✓ Click Week 10. It will expand to
		show the module's contents.
		✓ Download the
		ALGO211_Week10
		Computational Learning
		Theory.pptx
		✓ View your assignment to this
		, ,
		module: Computational
		Learning Theory
		✓ Do the assignment.
11	Cryptography	✓ Click Week 11. It will expand to
		show the module's contents.
		✓ Download the
		ALGO211_Week11
		Cryptography.pptx
		., • , , . ,
		✓ View your assignment to this
		module: Cryptography
		✓ Do the assignment.
12	Midterm Examination	
13	Computational Economics	✓ Click Week 13. It will expand to
		show the module's contents.
		✓ Download the
		ALGO211_Week13
		<u> </u>
		Computational Economics.pptx
		✓ View your assignment to this
		module: Computational
		Economics
		✓ Do the assignment.
14	Mathematical Programming	✓ Click Week 14. It will expand to
		show the module's contents.
		✓ Download the
		ALGO211_Week14
		Mathematical Programming.pdf

		T ,
		✓ View your assignment to this
		module: Mathematical
		Programming
		✓ Do the assignment.
15	Optimization	✓ Click Week 15. It will expand to
		show the module's contents.
		✓ View Introduction to
		Optimization
		✓ View your assignment to this
		module: Optimization
		✓ Do the assignment.
16	Parallel and Distributed Algorithm	✓ Click Week 16. It will expand to
		show the module's contents.
		✓ Download the
		ALGO211 Week16 Parallel and
		Distributed Algorithm.pptx
		✓ View your assignment to this
		module: Parallel and Distributed
		Algorithm
		✓ Do the assignment.
17	Quantum	✓ Click Week 17. It will expand to
		show the module's contents.
		✓ Download the
		ALGO211_Week17 Quantum
		Computing.pdf
		✓ View your assignment to this
		module: Quantum
		•
10	Final Evansination	✓ Do the assignment.
18	Final Examination	

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