

Teaching method	Teaching method	Unit name/topic	Required learning outcomes	Watches	The week
Oral questions	Theoretical and practical approach	Search and sort algorithms	Search and sort algorithms	4	1
Oral questions	Theoretical and practical approach	Analysis of run time	Analysis of run time	4	2

Oral questions	Theoretical and practical approach	Inheritance and polymorphism sorting and searching	Inheritance and polymorphism sorting and searching	4	2
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Oral questions	Theoretical and practical approach	• Graphs	Graphs	4	2
Oral questions	Theoretical and practical approach	Tree, binary Tree, balanced tree	Tree, binary Tree, balanced tree	8	2
Oral questions	Theoretical and practical approach	heap, priority queue, heap sort	heap, priority queue, heap sort	8	2
Oral questions	Theoretical and practical approach	Hashing, linear hash table, and chaind hash table	Hashing, linear hash table, and chaind hash	8	2

			table		
. 11Infrastructure					
Data structure and algorithms in java, fourth edition, michael T. Goodnch, Roberto Tamassia			Required textbooks -1		
			Main references -2 (sources)		

