

Course Title	Data Structures & File Processing
Course code	MIS 223
Pre-required courses	MIS 231
Course Level	Eighth
Credit Hours	3 hours
Teaching Language	Arabic
Course Description	
<p>This course introduces different ways of data storage on different storage medias as arrays, linked lists, stack, tree, queue and record. It also introduces the file concept as a secondary storage device. A discussion of different storage media types is introduced. Examples of such medias such as Disk drives and magnetic tapes are given. The different strategies of dealing with files such as sequential file organization, relative file organization, and indexed sequential file organization are introduced as well. All the concepts are to be applied using common programming language.</p>	
Course Aims:	
<p>This course aims to:</p> <ul style="list-style-type: none"> • Define Data storage concept. • Recognize different forms of data on different Medias. • Apply different operations on files and data structures. • Recognize the file access algorithms. • Recognize file organization strategies. • Implement file based programs. • Recognize the characteristics of different strategies 	
Course Contents:	
<ul style="list-style-type: none"> • Ways of storing data on different media • Types of data storage structures in main memory • Different secondary storage devices • File access strategies • File update algorithms • Different operations on files using a programming language. 	