

الساعات الأسبوعية			لغة التدريس	السنة الدراسية	أسم المادة
المجموع	العملي	النظري			
5	3	2	الانكليزية	الثانية	هياكل البيانات

تفاصيل المفردات	الأسبوع
definition of data structures basic concept of data structures data structure types data structures selecting	<b>1</b>
Primitive data structures representation. <ul style="list-style-type: none"> <li>• Integer.</li> <li>• Real .</li> <li>• Characters .</li> <li>• Strings .</li> <li>• Pointers .</li> <li>• Logical Data</li> </ul>	<b>2-3</b>
Compound Data Structures . <ul style="list-style-type: none"> <li>• Arrays.</li> <li>• Array represent.</li> <li>• represent One dimensional array in memory</li> <li>• represent two dimensional array in memory.</li> <li>• Rows method.</li> <li>• Column method.</li> </ul>	<b>4-5</b>
Pointers. <ul style="list-style-type: none"> <li>• Pointer definitions.</li> <li>• Memory/ allocate memory to pointer and editing</li> <li>• Pointers advantages and characteristic.</li> <li>• Pointers and array/ arrays of pointers and pointer to array</li> </ul>	<b>6</b>
<ul style="list-style-type: none"> <li>• Pointer as address</li> <li>• Pointer comparison</li> <li>• Pointers of pointers</li> <li>• Function pointers</li> </ul>	<b>7</b>

<p>Linked list:</p> <ul style="list-style-type: none"> <li>• Linked list definitions</li> <li>• Linked list types, and represent ways.</li> <li>• Simple list/ reading items – print list- insert item in (front, determine locations, back) of list</li> </ul>	<b>8-9</b>
<ol style="list-style-type: none"> <li>1. Binary list/reading items- print list</li> <li>2. Circle list/ reading items- print list</li> </ol>	<b>10-11</b>
<p>Stack.</p> <p>Array representation of stack</p> <p>linked stack.</p> <p>Stack operations algorithms, Stack application</p>	<b>12-13</b>
<p>Queue</p> <p>Represent queue using matrix</p> <p>linked queue</p> <p>queue applications</p> <p>circle queue</p>	<b>14-15</b>
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