

الساعات الأسبوعية			السنة الدراسيه	لغة التدريس	اسم المادة
المجموع	العملي	النظري			
5	3	2	الأولى	الإنكليزيه	معمارية الحاسوب

تفاصيل المفردات	الأسبوع
<p>Essential of information technical.</p> <p>Introduction, computer and software system, computer types.</p>	الأول
<p>Numeric methods, include:</p> <p>Decimal method.</p> <p>Binary method.</p> <p>Convert decimal to binary.</p> <p>Four arithmetic operations in this method.</p> <p>Interest this method in computer.</p> <p>Octal method.</p> <p>Convert from octal to decimal.</p> <p>Convert from decimal to octal.</p> <p>Convert from binary to octal.</p> <p>Hexadecimal method.</p> <p>Convert from binary to hexadecimal.</p> <p>Using complement's1 , complement's2 in subtraction.</p>	الثاني والثالث
<p>Numeric representation in computer:</p> <p>BCD codes, 4bit BCD codes</p> <p>Check level.</p> <p>Integer numeric representation, real numeric representation.</p> <p>Excess-3 code , 1-2-4-2 codes.</p>	الرابع
<p>Gates:</p> <p>Or gate, and gate, nor gate, nand gate, xor gate, xand gat, external edge diagram for integrated circuit of gates</p>	الخامس والسادس
<p>Boolean algebra</p> <p>Boolean algebra and de morgan theory.</p> <p>Used Boolean algebra rules for simplified logical expression.</p> <p>Using Sop and pos .</p>	السابع والثامن
<p>Formula rules and karnuf map.</p> <p>Formula rules:</p>	التاسع والعاشر

<p>Summation of multiply limits, multiply of sum limit</p> <p>Karnuf map for simplified functions:</p> <p>Of two variable, of three variable.</p> <p>Simplifying the logical circuit using K- map.</p>	
<p>Digital circuit: arithmetic circuit.</p> <p>Add circuit/ half adder – complete adder</p> <p>Subtract circuit/ half subtractive - complete subtracted.</p> <p>Digital comparative.</p>	<p>الحادي عشر</p> <p>والثاني عشر</p>
<p>Multiplexer , Multiplexer 1*4</p> <p>Multiplexer 1*8 ,Encoding</p>	<p>الثالث عشر</p>
<p>Decoders</p> <p>Decoders from binary to octal system</p> <p>Decoders from binary to Decimal system</p>	<p>الرابع عشر</p>
<p>Flip Flop</p> <p>Type of S – R .</p> <p>Type of J-K, type of D, type of T.</p>	<p>الخامس عشر</p>
<p>Counting and shifting recorder.</p> <p>Shifting recorder</p>	<p>السادس عشر</p>
<p>Counter ascending asynchronous.</p> <p>Counter descending asynchronous.</p> <p>Stretcher of seven parts</p>	<p>السابع عشر</p>
<p>Hardware, study hardware parts.</p> <p>Characters and functions of box and power supply</p>	<p>الثامن عشر</p>
<p>Study characters, functions and parts of motherboard.</p>	<p>التاسع عشر</p>
<p>Study functions and types memory: ROM AND ROM</p> <p>Study bios setup, and update</p> <p>Study technical of secondary storage units :H.D , F.D , C.D ,DVD</p>	<p>العشرون والحادي</p> <p>والعشرون</p>
<p>Microprocessor 8085, block diagram, components and function of processor</p>	<p>الثاني والعشرون</p>
<p>Microprocessor 8086</p> <p>Assembly language, statement form.</p>	<p>الثالث والعشرون</p>
<p>Logical & Branching Instructions</p>	<p>الخامس والعشرون</p>
<p>Machine Control Instructions</p>	<p>السادس والعشرون</p>
<p>Immediate , Register , Direct ,indirect ADDRESSING</p>	<p>السابع والعشرون</p>
<p>Instruction cycle & Machine cycle</p>	<p>الثامن والعشرون</p>
<p>Pentium processor, block diagram, processor component and function</p>	<p>التاسع والعشرون</p>
<p>Processor Development comparative</p>	<p>الثلاثون</p>