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| Technical college\Mosul | 30 Weeks | No. of week hours | | |
| Department: Medical Instrumentation Engineering | | Th. | App. | Unit |
| | | 2 | 3 | 7 |
| Second Year | Subject: Electronic Devices & circuits. | | | |

أهداف المادة:- تعريف الطالب على الدوائر الالكترونية الأساسية وطرق تصميمها واستخدامها وطرق تصميم بعض الدوائر.

| Week | Syllabus |
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| 1 st | Semiconductors materials and PN junction. |
| 2 nd , 3 rd | Diode applications. |
| 4 th , 5 th | Special diodes. |
| 6 th , 7 th , 8 th , 9 th | Bipolar transistor (characteristics and biasing). |
| 10 th , 11 th | Field effect transistor (characteristic and biasing). |
| 12 th , 13 th | Small signal amplifier. |
| 14 th , 15 th | Power amplifier. |
| 16 th , 17 th | Thirstier. |
| 18 th , 19 th , 20 th | Other semi conductor devices (Diac, Triac, SCR). |
| 21 st , 22 nd | SCR applications. |
| 23 rd , 24 th | Sampling theorems. |
| 25 th , 26 th | PAM, PWM, PPM, PCM. |
| 27 th , 28 th , 29 th , 30 th | Digital modulation (ASK, FSK, PSK). |