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**اسم الجامعة:ديالى**

**اسم الكلية:الهندسة**

**اسم القسم:الالكترونيك**

**المرحلة:الثالثة**

**اسم المحاضر الثلاثي:خالد عواد حمود**

**اللقب العلمي: مدرس**

**المؤهل العلمي: دكتوراة**

**مكان العمل: كلية الهندسة**

**(( استمارة الخطة التدريسية السنوية ))**

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| **د. خالد عواد** | | | | **اسم التدريسي:** |
| [**humoodkhalid@yah00.com**](mailto:humoodkhalid@yah00.com) | | | | **البريد الالكتروني:** |
| Analogue Electronic II | | | | **اسم المادة:** |
| **The aim of this subject is to make the students ready to undestand and comprehend the scientific theories and their applications related to their field of the study.** | | | | **أهداف المادة:** |
| R.boylesta “electronic devices and cicuits theory” | | | | **الكتب المنهجية:** |
| Electronic devices and cicuits theory by KUMAR IRBALB | | | | **المصادر الخارجية:** |
| **الامتحان النهائي** | **المختبرات** | **الفصل**  **الثاني** | **الفصل الأول** | **تقديرات الفصل:** |
| 50% | 10% | 20% | 20% |
|  | | | | **معلومات إضافية:** |

**جدول الدروس الأسبوعي – الفصل الدراسي الأول**

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| **الملاحظات** | **المادة العملية** | **المادة النظرية** | **التاريخ** | | **الأسبوع** |
|  |  | Frequency response characteristics | **29/9/2015** | | 1 |
|  |  | Frequency small signal models of JFETs | **5/10/2015** | | 2 |
|  |  | Frequency response of various amplifier configutions. | **12/10/2015** | | 3 |
|  |  | Amplifer Frequncy Response | **19/10/2015** | | 4 |
|  |  | Frequency response concepts, transistor at high frequency | **26/10/2015** | | 5 |
|  |  | multistage at low &high frequency ,FET amplifiers at low &high frequency | **2/11/2015** | | 6 |
|  |  | Freed back Amplifier | **9/11/2015** | | 7 |
|  |  | Freedback concept, types, effects & topologies, feed back analysis, voltage-series | **16/11/2015** | | 8 |
|  |  | voltage–shunt, current-series, and current-shunt F.B stability & response of feedback amplifier | **23/11/2015** | | 9 |
|  |  | Operational Amplifier Design | **30/11/2015** | | 10 |
|  |  | Op-Amp characteristics and structure, difference amplifier | **7/12/2015** | | 11 |
|  |  | d.c level shifting stage | **14/12/2015** | | 12 |
|  |  | Operational Amplifier Applications | **21/12/2015** | | 13 |
|  |  | Inverting and non – inverting amplifiers, integrator, differentiator, adder , subtractor | **28/12/2015** | | 14 |
|  |  | comparator, precision diode, rectifier, precision clamps, sample and hold circuit, and peak detector | **4/1/2016** | | 15 |
|  |  | Active Filters | **11/1/2016** | | 16 |
| العطلة الربيعية | | | | 15/1/2016 to  1/2/2016 | |

**توقيع الأستاذ: توقيع رئيس القسم توقيع العميد:**

**جدول الدروس الأسبوعي – الفصل الدراسي الثاني**

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| **الملاحظات** | **المادة العملية** | **المادة النظرية** | **التاريخ** | **الأسبوع** |
|  |  | Filters concept, types, approximations, active RC design, biduad structure | **21/2/2016** | 1 |
|  |  | Ladder design, and GIC. | **28/2/2016** | 2 |
|  |  | Oscillator | **6/3/2016** | 3 |
|  |  | Oscillator concept, RC oscillator | **13/3/2016** | 4 |
|  |  | LC oscillator, crystal oscillators | **20/3/2016** | 5 |
|  |  | Power Amplifier | **27/3/2016** | 6 |
|  |  | Class A, class B, classAB and push-pull amplifiers | **3/4/2016** | 7 |
|  |  | Class A, class B, classAB and push-pull amplifiers | **10/4/2016** | 8 |
|  |  | Integrated Circuit Design | **17/4/2016** | 9 |
|  |  | IC biasing techniques, current mirror, current repeaters, and wilder current sources | **24/4/2016** | 10 |
|  |  | bipolar technology TTL,RTL , ECL, MOS, NMOS, PMOS, CMOS | **1/5/2016** | 11 |
|  |  | Integrated Circuit Fabrication | **8/5/2016** | 12 |
|  |  | Fabrication processes | **15/5/2016** | 13 |
|  |  | IC components (resistors, capacitors) | **22/5/2016** | 14 |
|  |  | transistor fabrication, Layout design rules, full custom | **29/5/2016** | 15 |
|  |  | semi custom design , phase Locked loop | **2/6/2016** | 16 |

**توقيع الأستاذ: توقيع رئيس القسم توقيع العميد:**