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**Republic of Iraq**

**Ministry of Higher Education**

**& Scientific Research**

**University: Diyala University**

**College: College of Engineering**

**Department: Electronic Engineering**

**Stage: Second**

**Lecturer name:** Salah Hassan Ibrahim

**Qualification: PhD**

**Place of work: Electronic Dept.**

**(( Annual teaching plan form))**

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| **Lecturer Name** | Salah Hassan Ibrahim |
| **Email** | **Salah.hi@yahoo.com** |
| **Subject** | Digital Electronics |
| **Aims** | **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.** |
| **Textbooks** | Digital Design. By Moris Mano |
| **Additional Textbooks** | **Digital principles and applications by Rojer tokheem** |
| **Assessments** | **First Semester** | **Second Semester** | **Laboratory** | **Final Exam** |
| 20% | 20% | 10% | 50% |
| **Notes** |  |

**Schedule Weekly Lessons - First Semester**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Date** | **Lectures** | **Lab. Experments** | **Notes** |
| 1 | **28/9/**  | **Asynchronous Counter** |  |  |
| 2 | **5/10/**  | **Asynchronous Counter** |  |  |
| 3 | **12/10/**  | **Synchronous Counter** |  |  |
| 4 | **19/10/**  | **Synchronous Counter** |  |  |
| 5 | **26/10/**  | **Up-Down Synchronous Counter** |  |  |
| 6 | **2/11/**  | **Up-Down Synchronous Counter** |  |  |
| 7 | **9/11/**  | **Counter Applications** |  |  |
| 8 | **16/11/**  | **Counter Applications** |  |  |
| 9 | **23/11/**  | **Shift Register** |  |  |
| 10 | **30/11/**  | **Shift Register** |  |  |
| 11 | **7/12/**  | **Kinds of Shift Register** |  |  |
| 12 | **14/12/**  | **Kinds of Shift Register** |  |  |
| 13 | **21/12/**  | **Shift Register Applications** |  |  |
| 14 | **28/12/**  | **Shift Register Applications** |  |  |
| 15 | **4/1/**  | **Digital Synchronous Circuits** |  |  |
| 16 | **11/1/**  | **Digital Synchronous Circuits** |  |  |
| Half Year holiday | 15/1/ to1/2/  |  |  |  |

**Lecturer Signature Head of Dept. Signature Dean Signature**

**Schedule Weekly Lessons - Second Semester**

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| **Week** | **Date** | **Lectures** | **Lab. Experments** | **Notes** |
| 1 | **15/2/**  | **Operation of Digital Synchronous Circuits** |  |  |
| 2 | **22/2/**  | **Operation of Digital Synchronous Circuits** |  |  |
| 3 | **1/3/**  | **Memories** |  |  |
| 4 | **8/3/**  | **Memories** |  |  |
| 5 | **15/3/**  | **Kinds of Memories** |  |  |
| 6 | **22/3/**  | **Kinds of Memories** |  |  |
| 7 | **29/3/**  | **PLD Memory** |  |  |
| 8 | **5/4/**  | **PLD Memory** |  |  |
| 9 | **12/4/**  | **PLD Memory** |  |  |
| 10 | **19/4/**  | **Analog-to-Digital Converter** |  |  |
| 11 | **26/4/**  | **Analog-to-Digital Converter** |  |  |
| 12 | **3/5/**  | **Analog-to-Digital Converter** |  |  |
| 13 | **10/5/**  | **Digital-to-Analog Converter** |  |  |
| 14 | **17/5/**  | **Digital-to-Analog Converter** |  |  |
| 15 | **24/5/**  | **Introduction to Microprocessor** |  |  |
| 16 | **1/6/**  | **Microprocessor Unit** |  |  |

**Lecturer Signature Head of Dept. Signature Dean Signature**