**Course Syllabus**

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| **Code and Name** | EEE111 Analog Electronics I |
| **Type** | Required, Engineering, Lecture |
| **Credit Hours** | 3 |
| **Pre-requisites** | EEE141 Electrical Circuits I |

**Course Description**

In this course, a variety of electronic devices used in the design of analog electronics are studied. Basic understanding of semiconductor devices is covered. Emphasis is placed on diodes, BJT, and FET. Small and large signal characteristics and models of electronic devices, analysis and design of elementary electronic circuits are also included.

This course has separate mandatory laboratory sessions every week as EEE111L.

**Course Objectives**

The objectives of this course are

1. to possess a solid understanding of semiconductor devices used in the design of analog electronics
2. to learn the required skill to use the electronic devices in designing practical circuits to solve practical problems.
3. to gain the ability of conduct, analyze, and interpret experiments, and apply experimental results to improve processes or circuit systems.

**Textbooks**

1. Robert. L. Boylestad & Louis Nashelky, "Electronics Devices and Circuit Theory”, 12th edition, Prentice Hall.
2. Adel S. Sedra & Kenneth C. Smith, “Microelectronic Circuit”, 6th edition, Oxford University Press.

**Reference Books**

1. V. K. Mehta & Rohit Mehta, “Principles of Electronics”, 2nd Edition, S.Chand & Co. limited.
2. Albert Malvino and David J. Bates, “Electronic Principles”, 8th Edition, McGraw Hill

**Assessment Tools and Marks Distribution (Tentative)**

* Attendance 5%
* Class Performance 5%
* Assignment 10%
* Viva 5%
* Quiz 20%
* Midterm 25%
* Final 35%

**Grading Policy**

As per NSU Grading Policy to be found at   
<http://www.northsouth.edu/academic/grading-policy.html>