Course Syllabus

Course Description:

3 hours. Introduction to the concepts of transmission of information via communication channels. Amplitude and angle modulation for the transmission of continuous-time signals. Analog-to-digital conversion and pulse code modulation. Transmission of digital data. Introduction to random signals and noise and their effects on communication. Optimum detection systems in the presence of noise.

Instructor:

Dr. Robert Akl, Discovery Park F229, (940) 565-2804, **Robert.Akl@unt.edu (mailto:Robert.Akl@unt.edu)**

Teaching Assistant:

Sukrutha **LakshmiSukruthaTirumalaVangipuram@my.unt.edu (mailto:LakshmiSukruthaTirumalaVangipuram@my.unt.edu)**

Course help hours: TBD

Zoom link for office hours: TBD

Lab using MATLAB SIMULINK:

Class Hours:

Mondays and Wednesdays, 5:30 pm – 6:50 pm, DP D201 and Zoom meetings.

Office Hours:

By appointment for zoom meeting or email.

Textbook:

Signals and Systems: Analysis Using Transform Methods and MATLAB, 2nd edition, M. J. Roberts, McGraw Hill, 2012.

ISBN 978-0-07-338068-1.

Supplemental text: MATLAB Student Edition

Grading

Attendance	**10%**
Homework	**10%**
Matlab Project	**10%**
Lab Project	**10%**
Midterm	**25%**
Final	**35%**

Homework and Projects:

Homework and Projects will be turned in through Canvas on the due date.