1. Course number and name ECE 4600 Communication Systems

2. Credits and contact hours 3 - 3

3. Instructor’s or course coordinator’s name R. Gejji

4. Text book, title, author, and year
   a. other supplemental materials

5. Specific course information
   a. brief description of the content of the course (catalog description) Introduction to
digital and analog communication systems. Design constraints of noise and
bandwidth, comparison of various modulation techniques, and statistical methods.
Information and channel capacity.
   b. prerequisites or co-requisites ECE 3800
   c. indicate whether a required, elective, or selected elective (as per Table 5-1) course
in the program Selected Elective

6. Specific goals for the course
   a. specific outcomes of instruction, ex. The student will be able to explain the
significance of current research about a particular topic.
   Student will be able to: Analyze and design AM, FM and simple digital
communication systems.
   b. explicitly indicate which of the student outcomes listed in Criterion 3 or any other
outcomes are addressed by the course. a,c,e,k

7. Brief list of topics to be covered
   Mathematical concepts in time and frequency domain, analysis, design and implementation
of communication systems, e.g. AM, FM, digital.