**1st In-Semester Examination of CT215 (30th January to 2nd February 2019)**

**Structure of Examination**

Time Duration – 1.5 Hours

Answer all questions on regular answer books. Each question will consist of a, b, c, d,…. which can be answered in one-line or in few-lines-to-detailed-answers. It can include short quiz-type questions, design, analysis, problems and derivations.

Weightage = 19%

Question 1 – Introduction

Question 2 – AM

Question 3 - FM

**Syllabus**

pdf files

1. Communication Systems By Carlson- pages 1 to 14 (except Coding Methods and Benefits)
2. Hayt, Buck and Akhtar Engg EM, page 292
3. Dennis Roddy and John Coolen 252 to 266, 272 to 273, 297 to 300, 278 (AM Broadcast Transmitters)
4. AM Modulation Problem1
5. Notes, pages 36 to 38.
6. Book by Carlson Pages 176 and 177 (envelope detection)
7. George Kennedy, pp.79-89 (excluding sections 5-1.4 and 5-1.5), pages 91 and 92 (excluding section 5-2)
8. Dennis Roddy and John Coolen 326 to 332, 370 (FM Broadcast Receivers) (Lecture on Jan 22)
9. FM Modulation Problem1, FM Modulation Problem2 (Lecture on Jan 22) and FM Radio Spectrum
10. Communication Systems By Carlson Pages 184 to 189, 208 to 212 (except Fig. 5.3-4) and 214 to 217 (except phase shift discriminators). (Lectures on 22nd, 23rd, 25th and 29th January)