

***“Communication Systems 1”***

**Registration Form**

Name: .....

Year/Semester: .....

Department: .....

Institute/Organization:

.....

.....

Address for Correspondence:

.....

.....

Mobile No.: .....

Email ID : .....

**Signature**  
(Applicant)

**CHIEF PATRONS**

**Sri. Ch. Narasimha Reddy**  
Chairman

**Sri. Ch. Bhoopal Reddy**  
Vice-Chairman

**Sri. Ch. Srisailam Reddy**  
Secretary & Correspondent

**PATRON**

**Dr. A.S. Reddy**  
Principal

**CONVENER**

**Prof. C. Ashok Kumar**  
HOD, ECE Dept.

**CO-ORDINATOR**

**Mr. B. Papachary**  
Assoc. Prof. ECE Dept.

**Organizing Members**

Mrs. N.Soujanya, Asst. Prof.  
Mrs.G.Pravalika, Asst. Prof.  
Mrs. T.Jayanthi , Asst. Prof.

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***A Three Day Adjunct Course***  
***on***  
***“Communication Systems 1”***

**11-13<sup>th</sup> December 2017**

**Organized**  
**By**

***Department of***  
***Electronics & Communication***  
***Engineering***



**Venue: Block-II,**  
**3<sup>rd</sup> Floor Seminar Hall, CMREC**



**CMR ENGINEERING COLLEGE**  
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### **About CMREC:**

CMR Engineering College is the brain child of the clairvoyant Ch. Narasimha Reddy. It is one of the best engineering colleges for aspiring engineering students. CMREC was established in 2010 in 10 Acres and built up area of 4,785.78 Sq.m with a single minded aim to provide a perfect platform to students in the field of engineering, Technology for their academic and overall personality development. The college has a very good academic activity which focuses for the campus placement.

The college is approved by the All India Council for Technical Education, New Delhi and is affiliated to JNT University, Hyderabad. CMREC is offering three under graduate courses in ECE, CSE and MECH and post graduate courses in ECE and CSE.

Today CMREC has grown in leaps and bounds and it is no wonder that CMREC has become cynosure of the eyes of many, hankering for the distinguished center of technological learning. This is achieved by providing excellent academic environment and excellent infrastructure with the help of dedicated & highly qualified faculty members. State of art infrastructure, includes labs with high quality equipment, rich collection of Library Books.

### **About ECE Department:**

Our department was established in 2011 with UG programme B.Tech in ECE with an intake of 120 students, it was increased to 180 in the year 2012 and in the year 2013 the intake was increased to 240 students. PG programme M.Tech in Embedded Systems with an intake of 24 students was introduced in the year 2012.

The department is accredited by NBA in the year 2016-17.

The Department has well equipped laboratories such as e-CAD & VLSI, Simulation, DSP, Microwave, Communication system, Microprocessors & Microcontrollers, Linear and digital IC, Electronic Devices & circuits and Electrical Labs. Advanced software's like, MatLab, Cadence, MASM, KEIL, MULTISIM and XILINX are the pride of the department.

### **Adjunct Course Theme:**

The objective of this course is to provide students with an overview of the analog communication and its applications and also practical hands on with MatLab. By the end of the course, students will understand the basic concepts of analog communication system and simulate the experiments using MatLab.

### **Topics to be covered:**

#### **Day1**

- Introduction to communication system
- Need for Modulation
- Amplitude modulation
- DSB-SC, and SSB
- VSB Modulation
- Practical hands on with Mat lab

#### **Day2**

- Frequency Modulation
- Phase Modulation
- Narrow band and Wideband FM
- FM modulators
- FM demodulators
- Practical hands on with Mat lab

#### **Day3**

- Transmitters
- TRF Receiver
- Super heterodyne Receiver
- Sampling theorem
- Pulse Modulation Techniques
- Practical hands on with Mat lab

### **Resource Persons:**

Prof. C. Ashok Kumar  
Mr. B. Papachary, Assoc. Prof.  
Mrs. G. Kalpana, Asst. Prof.  
Mr. G. Gangaprasad, Asst. Prof.  
Mrs. K. Anusha, Asst. Prof.