**LESSON PLAN**

**Subject Code & Name:** ***LICA*** **Branch: *E.C.E***

**Class / Semester:*III B.Tech I Semester* Academic Year: *2013-2014***

|  |  |  |  |  |  |  |
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| **Period** | **Date (Tentative)** | **Topic** | **Unit No.** | **Teaching Methodology** | **Remarks** | **Corrective action upon review** |
|  |  | **Unit-1** |  |  |  |  |
| **1** | **10.06.2013** | **Differential Amplifiers** | **1** | **BB** |  |  |
| **2** | **11.06.2013** | **DC & AC analysis of** | **1** | **BB** |  |  |
| **3** | **13.06.2013** | **Dual input Balanced output configuration** | **1** | **BB** |  |  |
| **4** | **14.06.2013** | **Properties of other differential amplifier configuration** | **1** | **BB** |  |  |
| **5** | **15.06.2013** | **DIUO** | **1** | **BB** |  |  |
| **6** | **17.06.2013** | **SEIB/UO** | **1** | **BB** |  |  |
| **7** | **18.06.2013** | **DC coupling and** | **1** | **BB** |  |  |
| **8** | **20.06.2013** | **Cascade Differential amplifier stages** | **1** | **BB** |  |  |
| **9** | **21.06.2013** | **Level translator** | **1** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit – 2** |  |  |  |  |
| **10** | **22.06.2013** | **Characteristics of op-amps** | **2** | **BB** |  |  |
| **11** | **24.06.2013** | **Integrated circuits types** | **2** | **BB** |  |  |
| **12** | **25.06.2013** | **Classification, Packages types and temperature ranges power supplies** | **2** | **BB** |  |  |
| **13** | **27.06.2013** | **Op-amp Block diagram** | **2** | **BB** |  |  |
| **14** | **28.06.2013** | **Ideal and practical** | **2** | **BB** |  |  |
| **15** | **29.06.2013** | **Op-amp specifications** | **2** | **BB** |  |  |
| **16** | **01.07.2013** | **DC and AC characteristics** | **2** | **BB** |  |  |
| **17** | **02.07.2013** | **741 op-amp & its features FET input, op-amps** | **2** | **BB** |  |  |
| **18** | **07.07.2013** | **Parameters & measurement** | **2** | **BB** |  |  |
| **19** | **05.07.2013** | **Input & output offse** | **2** | **BB** |  |  |
| **20** | **06.07.2013** | **Voltages & current** | **2** | **BB** |  |  |
| **21** | **08.07.2013** | **Slew rates, CMRR** | **2** | **BB** |  |  |
| **22** | **09.07.2013** | **PSRR, drift, frequency** | **2** | **BB** |  |  |
| **23** | **11.07.2013** | **Compensation technique** | **2** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 3** |  |  |  |  |
| **24** | **12.07.2013** | **Inverting and** | **3** | **BB** |  |  |
| **25** | **13.07.2013** | **Non inverting amplifiers** | **3** | **BB** |  |  |
| **26** | **15.07.2013** | **Integrator and** | **3** | **BB** |  |  |
| **27** | **16.07.2013** | **Differentiator, Difference amplifier** | **3** | **BB** |  |  |
| **28** | **18.07.2013** | **Instrumentation amplifiers** | **3** | **BB** |  |  |
| **29** | **19.07.2013** | **AC amplifiers** | **3** | **BB** |  |  |
| **30** | **20.07.2013** | **V to I, I to V converters Buffers** | **3** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 4** |  |  |  |  |
| **31** | **22.07.2013** | **Non-linear function** | **4** | **BB** |  |  |
| **32** | **23.07.2013** | **Generation, comparators** | **4** | **BB** |  |  |
| **33** | **25.07.2013** | **Multivibrators,** | **4** | **BB** |  |  |
| **34** | **26.07.2013** | **Triangular & square wave** | **4** | **BB** |  |  |
| **35** | **27.07.2013** | **Generators, Log and** | **4** | **BB** |  |  |
| **36** | **29.07.2013** | **Anti-log amplifiers** | **4** | **BB** |  |  |
| **37** | **30.07.2013** | **Precision rectifiers** | **4** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit – 5** |  |  |  |  |
| **38** | **01.08.2013** | **Active filters introduction** | **5** | **BB** |  |  |
| **39** | **02.08.2013** | **Butterworth filters** | **5** | **BB** |  |  |
| **40** | **03.08.2013** | **LPF, HPF, BPF** | **5** | **BB** |  |  |
| **41** | **12.08.2013** | **BRF, All pass** | **5** | **BB** |  |  |
| **42** | **13.08.2013** | **filters** | **5** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit - 6** |  |  |  |  |
| **43** | **15.08.2013** | **Introduction to 555** | **6** | **BB** |  |  |
| **44** | **16.08.2013** | **Timer, functional** | **6** | **BB** |  |  |
| **45** | **17.08.2013** | **Diagram, Monostable** | **6** | **BB** |  |  |
| **46** | **19.08.2013** | **Astable opeations and applications** | **6** | **BB** |  |  |
| **47** | **20.08.2013** | **Schmitt Trigger** | **6** | **BB** |  |  |
| **48** | **22.08.2013** | **PLL introduction** | **6** | **BB** |  |  |
| **49** | **23.08.2013** | **Block diagram** | **6** | **BB** |  |  |
| **50** | **24.08.2013** | **Principles and** | **6** | **BB** |  |  |
| **51** | **26.08.2013** | **Description of blocks** | **6** | **BB** |  |  |
| **52** | **27.08.2013** | **565 PLL** | **6** | **BB** |  |  |
| **53** | **29.08.2013** | **Applications of PLL** | **6** | **BB** |  |  |
| **54** | **30.08.2013** | **Frequency Multiplication** | **6** | **BB** |  |  |
| **55** | **31.08.2013** | **Frequency translation** | **6** | **BB** |  |  |
| **56** | **02.09.2013** | **AM, FM & FSR demod** | **6** | **BB** |  |  |
| **57** | **03.09..2013** | **Applica;tions of VCO(566)** | **6** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit – 7** |  |  |  |  |
| **58** | **05.09..2013** | **Introduction of DAC** | **7** | **BB** |  |  |
| **59** | **06.09..2013** | **DAC Techniques** | **7** | **BB** |  |  |
| **60** | **07.09..2013** | **Weighted resistor DAC** | **7** | **BB** |  |  |
| **61** | **09.09..2013** | **R-2R ladder DAC** | **7** | **BB** |  |  |
| **62** | **10.09..2013** | **Inverted R-2R DAC** | **7** | **BB** |  |  |
| **63** | **12.09..2013** | **IC 1408 DAC** | **7** | **BB** |  |  |
| **64** | **13.09..2013** | **Parallel comparator ADC** | **7** | **BB** |  |  |
| **65** | **14.09..2013** | **Counter type ADC** | **7** | **BB** |  |  |
| **66** | **16.09..2013** | **Successive Approx ADC** | **7** | **BB** |  |  |
| **67** | **17.09..2013** | **Dual slope ADC** | **7** | **BB** |  |  |
| **68** | **19.09..2013** | **DAC and ADC specifications** | **7** | **BB** |  |  |
| **69** | **20.09..2013** | **Specifications AD574** | **7** | **BB** |  |  |
|  |  |  |  |  |  |  |
|  |  | **Unit – 8** |  |  |  |  |
| **70** | **21.09..2013** | **Four Quadrant multipliers** | **8** | **BB** |  |  |
| **71** | **23.09..2013** | **Balanced Modulator** | **8** | **BB** |  |  |
| **72** | **24.09..2013** | **IC 1496** | **8** | **BB** |  |  |
| **73** | **26.09..2013** | **Applications of analog** | **8** | **BB** |  |  |
| **74** | **27.09..2013** | **Switches and Multiplexers** | **8** | **BB** |  |  |
| **75** | **28.09..2013** | **Sample and Hold amplifiers** | **8** | **BB** |  |  |

**Faculty Name: Smt.R.Kranthi (A-Section)**

**CR: CLASS ROOM OHP: OVERHEAD PROJECTOR BB:BLACK BOARD LCD**