

## Academic Year 2014-15

<b>Meeting:</b>	Board of Studies – Electronics and Communication Engineering
<b>Date and Time:</b>	22 <sup>nd</sup> June 2014 at 10:00 AM
<b>Venue:</b>	AITS, RAJAMPET.

Minutes of 5<sup>th</sup> Board of Studies- Electronics and Communication Engineering meeting held on 22<sup>nd</sup> June 2014 in AITS, Rajampet.

### Members Present:

1. Prof. B. Abdul Rahim	- HOD-ECE, AITSR	- Chairman
2. Sri. K. Sreenivasa Rao	- Asso. Prof, AITSR	- Member
3. Sri. S. Fahimuddin	- Asst. Prof, AITSR	- Member
4. Dr. M.N.Giriprasad	- Prof.-ECE- JNTUACE, Atp	- Member
5. Dr. P. Satyanarayana	- Prof.-ECE, SVUCE, Tpty.	- Member
6. Sri. T. Rajendra Prasad	- Scientist, NARL, Gadanki	- Member
7. Sri.M.L.Narayana	- JTO ,BSNL, Mysore	- Member

### RESOLUTIONS

#### Item No: 22-06-14-BOS-1:

The syllabi has been modified to five units for each course and approved by members as given in annexure-I with few suggestions mentioned below.

#### B.TECH:

- 1) As a prerequisite circuit laws and theorems were included in electronic devices and circuits course.
- 2) Signals and systems (II-II) is interchanged with random variables and random processes (II-I).
- 3) Linear control systems (II-II) is renamed as control systems.
- 4) Control systems (II-II) is interchanged with analog communication (III-I) Signals and systems lab is removed and is replaced by analog communication lab.
- 5) A.C and D.C lab (III-II) has been split into A.C lab and D.C lab.
- 6) Electromagnetic waves and transmission lines is now renamed as field theory and transmission lines(II-II)
- 7) Digital and data communications (III-II) course is now concised to digital communication.
- 8) Electronic measurements and Instrumentation(III-II)is interchanged with digital signal processing (IV-I)
- 9) Reliability engineering (Elective-II) is interchanged with RADAR Engineering (Elective - I) in IV-year.
- 10) Digital signal processing (IV-I)-EEE is included with concepts of signals, and Multirate signal processing is removed.

#### M.TECH:

- 1) Hardware Description languages course is renamed as Modeling and synthesis through Verilog HDL.(VHDL concepts were removed).
- 2) Scripting language for VLSI design automation is interchanged with ASIC design (core to elective vice versa)

  
CHAIRMAN-BOS



## Academic Year 2014-15

**Meeting:** Board of Studies – Electronics and Communication Engineering  
**Date and Time:** 28<sup>th</sup> December 2014 at 10:00 AM  
**Venue:** AITS, RAJAMPET.

Minutes of 6<sup>th</sup> Board of Studies- Electronics and Communication Engineering meeting held on 28<sup>th</sup> December 2014 in AITS, Rajampet.

### Members Present:

1. Prof. B. Abdul Rahim	- HOD-ECE, AITSR	- Chairman
2. Sri. K. Sreenivasa Rao	- Asso. Prof, AITSR	- Member
3. Sri. S. Fahimuddin	- Asst. Prof, AITSR	- Member
4. Dr. M.N.Giriprasad	- Prof.-ECE- JNTUACE, Atp	- Member
5. Dr. P. Satyanarayana	- Prof.-ECE, AITS, Tpty.	- Member
6. Sri. T. Rajendra Prasad	- Scientist, NARL, Gadanki	- Member
7. Sri.M.L.Narayana	- JTO ,BSNL, Mysore	- Member

### RESOLUTIONS

#### Item No: 28-12-14-BOS-1:

Discussed the course contents of electronic Devices and circuits (I-B.Tech common to EEE and ECE) and is resolved to modify the following:

- A) The unit-V small signal analysis of amplifiers is shifted to electronic circuits of B.Tech II-I as the prerequisite is not attained in I-B.Tech. And the Unit-V is substituted with special purpose semiconductor devices.
- B) Accordingly the experiments in electronic devices and circuits lab are modified.
  - i) Inclusion of experiment on Kirchoff's laws verification.
  - ii) Removal of experiment on h-parameter calculations of amplifiers.

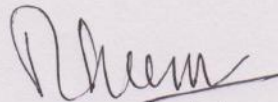
#### Item No: 28-12-14-BOS-2:

resolved to include an audit course "research Methodology" in M.Tech 1<sup>st</sup> semester.

#### Item No: 28-12-14-BOS-3:

Discussed about the value added courses (VACs) for M.Tech programmes and resolved to have "MATLAB programming" in 1<sup>st</sup> semester as common to DECS, ESS and VLSISD and separate VACs for 2<sup>nd</sup> semester.

- a) DECS- programming and interfacing with TI beagle Board Block.
- b) ESS-programming and interfacing with MSP-430 board.
- c) VLSISD-HDL programming with assertion based design.

  
CHAIRMAN-BOS



### ANNEXURE-I

S.No	Program Name	Name of the Course	Course Code
1.	B.Tech-ECE	English	4GC11
2.	B.Tech-ECE	Engineering Physics	4GC12
3.	B.Tech-ECE	Engineering Chemistry	4GC13
4.	B.Tech-ECE	Mathematics – I	4GC14
5.	B.Tech-ECE	Programming in C and Introduction to data structures	4G113
6.	B.Tech-ECE	Engineering Drawing	4G513
7.	B.Tech-ECE	Electronic Devices and Circuits	4G311
8.	B.Tech-ECE	Engineering Physics and Chemistry Lab	4GC16
9.	B.Tech-ECE	English Language and Communication Skills Lab	4GC17
10.	B.Tech-ECE	Programming in C and Introduction to data structures Lab	4G114
11.	B.Tech-ECE	Engineering and IT workshop	4G411
12.	B.Tech-ECE	Electronic Devices and Circuits Lab	4G312
13.	B.Tech-ECE	Engineering Mathematics	4GC32
14.	B.Tech-ECE	Environmental Science	4GC34
15.	B.Tech-ECE	Electrical Circuit Theory	4G235
16.	B.Tech-ECE	Electronic Circuits	4G331
17.	B.Tech-ECE	Pulse and Digital Circuits	4G332
18.	B.Tech-ECE	Signals and systems	4G333
19.	B.Tech-ECE	Electronic Circuits Lab	4G335
20.	B.Tech-ECE	Pulse and Digital Circuits Lab	4G336
21.	B.Tech-ECE	Mathematics – III	4GC41
22.	B.Tech-ECE	Electrical Technology	4G245
23.	B.Tech-ECE	Random Variables and Random Processes	4G341
24.	B.Tech-ECE	Switching Theory and Logic Design	4G342
25.	B.Tech-ECE	Analog Communication	4G343
26.	B.Tech-ECE	Field Theory and Transmission Lines	4G344
27.	B.Tech-ECE	Aptitude and Reasoning Skills	4GC44
28.	B.Tech-ECE	Electrical Technology Lab	4G247
29.	B.Tech-ECE	Analog Communication Lab	4G345
30.	B.Tech-ECE	Managerial Economics and Financial Analysis	4GA51
31.	B.Tech-ECE	Computer System Architecture	4G455
32.	B.Tech-ECE	Control Systems	4G351
33.	B.Tech-ECE	Linear IC Applications	4G352
34.	B.Tech-ECE	Digital IC Applications	4G353
35.	B.Tech-ECE	Antennas and Wave Propagation	4G354
36.	B.Tech-ECE	Advanced English Language Communication skills lab	4GC51
37.	B.Tech-ECE	IC Applications Lab	4G356
38.	B.Tech-ECE	Management Science	4GA62



39.	B.Tech-ECE	VLSI Design	4G361
40.	B.Tech-ECE	Microwave Engineering	4G362
41.	B.Tech-ECE	Microprocessors and Interfacing	4G363
42.	B.Tech-ECE	Digital Communications	4G364
43.	B.Tech-ECE	Digital Signal Processing	4G365
44.	B.Tech-ECE	Digital Communication Lab	4G366
45.	B.Tech-ECE	English for Competitive examinations	4GC62
46.	B.Tech-ECE	Microprocessors and Interfacing Lab	4G367
47.	B.Tech-ECE	Computer Networks	4G479
48.	B.Tech-ECE	Optical Communication	4G371
49.	B.Tech-ECE	Electronic Measurements and Instrumentation	4G372
50.	B.Tech-ECE	Embedded Systems	4G374
51.	B.Tech-ECE	Digital Design Through Verilog HDL(Elective-I)	4G373
52.	B.Tech-ECE	Nano Electronics	4G377
53.	B.Tech-ECE	Advanced Computer Architecture	4G175
54.	B.Tech-ECE	Object Oriented Programming(Elective-II)	4G47A
55.	B.Tech-ECE	Television Engineering	4G375
56.	B.Tech-ECE	Reliability Engineering	4G376
57.	B.Tech-ECE	Microwave and Optical Communication Lab	4G379
58.	B.Tech-ECE	Comprehensive Electronics & Communication engineering	4G378
59.	B.Tech-ECE	DSP and Embedded Systems Lab	4G37A
60.	B.Tech-ECE	Cellular and Mobile Communications	4G381
61.	B.Tech-ECE	Digital Image Processing	4G382
62.	B.Tech-ECE	Radar Engineering(Elective-III)	4G384
63.	B.Tech-ECE	DSP Processors and Architectures(Elective-III)	4G383
64.	B.Tech-ECE	Neural Networks and Fuzzy Logic(Elective-III)	4G48A
65.	B.Tech-ECE	Wireless Communication Networks(Elective-IV)	4G385
66.	B.Tech-ECE	Satellite Communications(Elective-IV)	4G386
67.	B.Tech-ECE	Biomedical Instrumentation(Elective-IV)	4G387
68.	M.Tech-DECS	Digital System Design	4PA311
69.	M.Tech-DECS	Advanced Digital Signal Processing	4PA312
70.	M.Tech-DECS	Digital Communication Techniques	4PA313
71.	M.Tech-DECS	Wireless Communications	4PA314
72.	M.Tech-DECS	Modelling and synthesis through verilog HDL	4PC314
73.	M.Tech-DECS	Embedded System Concepts(Elective-I)	4PB311
74.	M.Tech-DECS	Advanced Computer Architectures(Elective-I)	4PA318
75.	M.Tech-DECS	System Modeling and Simulation(Elective-I)	4PA315
76.	M.Tech-DECS	Digital Design Lab	4PA317
77.	M.Tech-DECS	Coding Theory and Techniques	4PA321
78.	M.Tech-DECS	High Speed Networks	4PA322
79.	M.Tech-DECS	Microcomputer System Design	4PA323
80.	M.Tech-DECS	Detection and Estimation of Signals	4PA324
81.	M.Tech-DECS	Image and Video Processing	4PA325
82.	M.Tech-DECS	DSP Processors and Architectures(Elective-II)	4PB324



83.	M.Tech-DECS	Neural Networks & Applications(Elective-II)	4PA329
84.	M.Tech-DECS	Compression Techniques(Elective-II)	4PA326
85.	M.Tech-DECS	Advanced Communications Lab	4PA328
86.	M.Tech-ESD	Embedded System Concepts	4PB311
87.	M.Tech-ESD	Microcontrollers and Interfacing	4PB312
88.	M.Tech-ESD	VLSI Technology	4PC311
89.	M.Tech-ESD	Real Time Operating Systems	4PB313
90.	M.Tech-ESD	FPGA Architectures and Applications	4PC315
91.	M.Tech-ESD	Digital IC Design(Elective-I)	4PC313
92.	M.Tech-ESD	Advanced Computer Architectures(Elective-I)	4PA318
93.	M.Tech-ESD	System Modeling and Simulation(Elective-I)	4PA315
94.	M.Tech-ESD	Microcontrollers and Interfacing Lab	4PB315
95.	M.Tech-ESD	Testing and Testability	4PB321
96.	M.Tech-ESD	Embedded Software Design	4PB322
97.	M.Tech-ESD	Hardware Software Co-Design	4PB323
98.	M.Tech-ESD	DSP Processors and Architectures	4PB324
99.	M.Tech-ESD	Modelling and synthesis through verilog HDL	4PC325
100.	M.Tech-ESD	Radio Frequency Identification(Elective-II)	4PB326
101.	M.Tech-ESD	System on Chip Architectures(Elective-II)	4PB327
102.	M.Tech-ESD	Micro Electromechanical Systems(Elective-II)	4PB328
103.	M.Tech-ESD	RTOS and FPGA Lab	4PB32A
104.	M.Tech-VLSI System Design	VLSI Technology	4PC311
105.	M.Tech-VLSI System Design	Analog IC Design	4PC312
106.	M.Tech-VLSI System Design	Digital IC Design	4PC313
107.	M.Tech-VLSI System Design	Modelling and synthesis through verilog HDL	4PC314
108.	M.Tech-VLSI System Design	FPGA Architectures and Applications	4PC315
109.	M.Tech-VLSI System Design	Embedded System Concepts(Elective-I)	4PB311
110.	M.Tech-VLSI System Design	Scripting Languages for VLSI Design Automation(Elective-I)	4PC318
111.	M.Tech-VLSI System Design	System Modeling and Simulation(Elective-I)	4PA315
112.	M.Tech-VLSI System Design	VLSI Design Lab – I	4PC317
113.	M.Tech-VLSI System Design	Testing and Testability	4PB321
114.	M.Tech-VLSI System Design	Low Power VLSI Design	4PC321
115.	M.Tech-VLSI System Design	Hardware Software Co-Design	4PB323

116.	M.Tech-VLSI System Design	ASIC Design	4PC322
117.	M.Tech-VLSI System Design	Algorithms for VLSI Design Automation	4PC323
118.	M.Tech-VLSI System Design	DSP Processors and Architectures(Elective-II)	4PB324
119.	M.Tech-VLSI System Design	Nano Electronics(Elective-II)	4PC324
120.	M.Tech-VLSI System Design	VLSI Signal Processing(Elective-II)	4PC325
121.	M.Tech-VLSI System Design	VLSI Design Lab – II	4PC327