

# MINUTES

Name of the meeting' Board of studies

of

held on 20/04/2018, at 9:30 A.M./P.M. under the chairmanship of Sri Dr. Habibullah Khairn.

at' Faculty Conference Hall - E-104

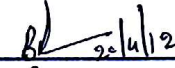


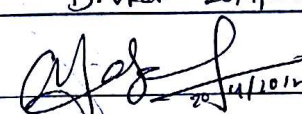

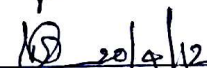
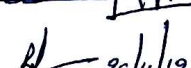
The Board of studies Meeting of ECE Department held on 20/04/18 at 9:30 AM. In Faculty Conference hall E-104.

The following Members attend the Meeting.

1. Dr. Habibullah Khairn - Chairman (BOS) H. B. Khairn
2. Dr. N.V.S.N. Surma. - Member N.V.S.N. Surma  
(Professor in ECE NIT,  
(Warangal))
3. Dr. N. Madhavi Latha. - Member M. Madhavi Latha  
HOD. Dept. of ECE  
JNTU - Hyderabad
4. Dr. T.V. Rama Krishna. - DCC-Chairman T.V. Rama Krishna  
Assoc. Dean School of Electrical Sciences.
5. Prof. N. Venkatesh Ram -
6. Prof. M.S.G. Prasad. - Member M. S. G. Prasad
7. Dr. K.S. Ramesh. - Member K.S. Ramesh  
2114
8. Dr. S. Lakshmi Narayana - Member S. Lakshmi Narayana  
21/4/18.
9. Dr. K. Sarat Kumar. - Member K. Sarat Kumar  
O.D.
10. Dr. Malayaj Kumar Hota - Member Malayaj Kumar Hota
11. Dr. K.S.N. Murthy. - Member K.S.N. Murthy
12. Prof. B. Sadasivarao - Member B. Sadasivarao
13. Prof. Ch. V. Rama Rao - Member Ch. V. Rama Rao
14. Mr. D.S. Ram Kiran - Member D.S. Ram Kiran

# BOOK

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- |     |                            |                              |   |
|-----|----------------------------|------------------------------|---|
| 15. | MR. B.T.P. Madhav.         | - Member                     |  20/4/12   |
| 16. | MR. G. Bakesh choudhary,   | - Member                     |  20/4      |
| 17. | MR. K. Rajendra Prasad.    | - Member                     |  20/4/12   |
| 18. | DR. D. Venkat Ratnam       | - DCC Member                 | D. VRam 20/4/2012   |
| 19. | DR. Farzal Noor Basha.     | - DCC Member                 |  20/4/12   |
| 20. | Prot. ch. Srinivasu.       | - DCC Member                 | G.G. - 20/4/12  |
| 21. | M. Venkata Narayana        | member                       |           |
| 22. | I. Govardhani              | -                            |  20/4/12 |
| 23. | <del>B.T.P. Madhav</del>   | - <del>Special Inviter</del> |  20/4/12 |
| 24. | <del>Dr. DA. Madhavi</del> |                              |   |



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## Minutes of the meeting of BOS of ECE department

The BOS meeting of ECE department was held on 20/04/12 at 9:30AM in ECE faculty conference hall.

The following resolutions are made

1. It is recommended the course structure for B.Tech (ECE) for year 2011-15.
2. It is recommended the syllabus for II/IV B.Tech (ECE), 1<sup>st</sup> and 2<sup>nd</sup> semester for year 2011-15.
3. It is recommended the course structure and syllabus for M.Tech (C R & VLSI) for year 2012-12.
4. It is recommended the syllabus of mobile and cellular communication for III<sup>rd</sup> B.Tech (ECE), 2<sup>nd</sup> semester.
5. It is recommended the syllabus of Design for testability for IV/IV B.Tech (ECE), 1<sup>st</sup> semester.
6. It is resolved that to accept the modification of content in the syllabus of Network Analyses (11ES212) for II/IV B.Tech (ECE) for year 2011-12.
7. It is resolved to accept the modification of content in the syllabus of Basic Digital Systems (11EC210) for II/IV B.Tech (ECE) for year 2011-2015.
8. It is resolved to accept the modification of content in the syllabus of Design of Electronic systems(11EC201)for II/IV B.Tech (ECE)for acadernic year(2011-15)
9. It is resolved to accept the modification of content in the syllabus of "Digital Systems"(11EC203)for II/IV B.Tech (ECE)for year 2011-15.
10. It is recommended to the syllabus of Analog circuits Analysis(11EC205)for II/IV 2<sup>nd</sup> semester for the year 2011-15
11. It is recommended to the syllabus of power supplies power amplifier (11EC204)for II/IV 2<sup>nd</sup> semester for the year 2011-15
12. It is recommended to the syllabus of Analog Communication (11EC207)for II/IV 2<sup>nd</sup> semester for the year 2011-15
13. It is recommended to the syllabus of CMOS VLSI Design (11EC206)for II/IV 2<sup>nd</sup> semester for the year 2011-15

  
**Chairman**  
**Board of Studies in ECE**  
**KL University**



# MINUTES

Name of the meeting' Internal board of studies  
 of' ECE dept  
 held on 28/11/2012 at 10:30 A.M./P.M. under the chairmanship of Sri Dr. Habibulla Khan  
 at' Dept Library, ECE dept

The Internal Board of studies of ECE dept was  
 met on 28/11/12 at 10:30 AM in dept library

The following members attended the meeting

- |                            |                                 |
|----------------------------|---------------------------------|
| 1. Dr. Habibulla Khan      | H. Khan                         |
| 2. Dr. S. Lakshmi Narayana | S. Lakshmi Narayana             |
| 3. Dr. T.V. Rama Krishna   |                                 |
| 4. Prof. H.S.C. Masad      | H.S.C. Masad                    |
| 5. Dr. V. Rajeshw          |                                 |
| 6. Dr. P. Srinivasa Babu   | P. Srinivasa Babu<br>28/11/2012 |
| 7. Dr. K.S.N. Durety       |                                 |
| 8. Dr. B. Sadasiva Rao     | B. Rao                          |
| 9. Dr. M. Venugopal Rao    | M. Rao                          |
| 10. Dr. A.V. Pratap Kumar  |                                 |
| 11. Dr. R. Satish Kumar    | R. Satish Kumar                 |
| 12. Dr. T.V.S.P. Gupta.    |                                 |
| 13. Sri. B. T.P. Madhav    |                                 |
| 14. Dr. K. Sarat Kumar     |                                 |





MINUTES OF BOS MEETING OF ECE DEPARTMENT

The Internal BOS meeting was held in the department library at 1:30PM on 29/11/2012.

The following resolutions are made:

In view of the anomalies observed in two subjects: 1. Power supplies and power amplifiers

2. Analog Circuits Analysis

1. It is felt that modifications are to be incorporated in the above two subjects. After detailed discussions, all the members of the BOS committee unanimously formulated and approved the modified syllabus for the above two subjects.
2. A copy of the revised syllabus is here with enclosed along with the old syllabus.
3. It is resolved to implement the revised syllabus of the above two subjects and list of practicals of the 2<sup>nd</sup> year 2<sup>nd</sup> semester ECE students with immediate effect.
4. List of practicals for the above two syllabus is finalized and approved unanimously.



BOS-CHAIRMAN

Dept.of - ECE

7





# MINUTES

Name of the meeting' Board of Studies

of \_\_\_\_\_

held on 27/12/2012 at 3:30 A.M./P.M. under the chairmanship of Sri Dr. Habibulla Khan

at HOD Chamber, ECE dept.

The board of studies meeting of ECE department was held on 27/12/12 at 3:30 PM in ECE HOD Room

The following members were present.

1) Dr. Habibulla Khan HOD chairman H.L. Khan

2) Dr. M. Madhavi Latha External member M. Madhavi Latha

3) Dr. T.V. Rama Krishna Member

4) Prof. H.S.C. Prasad "

5) Dr. V. Rajesh

6) Dr. P. Srinivasa Babu

7) Dr. K.S.N. Murthy

8) Dr. B. Sadasiva Rao

9) Dr. M. Venugopal Rao

10) Dr. A.V. Pratap Kumar

11) Dr. T.V.S.P. Gupta

12) Dr. K. Sarat Kumar

13) Dr. K.S. Ramesh

14) Sri. B.S.P. Madhav.





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It is resolved to accept the modifications suggested by all the members for the subjects (1) Linear IC's and power supplies (2) Analog Circuit analysis for which the earlier syllabus framed was felt difficult by the students.

H. C. Chandy

Chairman  
Board of Studies in ECE  
KL University



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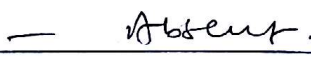

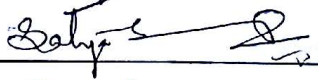
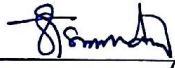
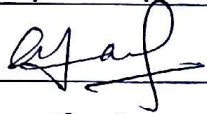
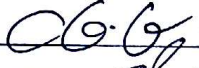









of' ECE dept

held on 8/1/13 2013, at 3:00 A.M./P.M. under the chairmanship of Sri Dr. Habibulla Khan

at' HOD'S Chamber, ECE dept.

The Bos meeting of ECE dept was held on 8/1/13 at 3:00 pm in ECE HOD Chamber to finalize the course structure and syllabus for M.Tech by Research Specialization.

The following members were present

- 1) Dr. Habibulla Khan 
- 2) Dr. M. Madhavi Latha  - Absent.
- 3) D.S Ram Kumar - member - 
- 4) Dr. P.S. Srinivas Babu 
- 5) Dr. K. Sarat Kumar 
- 6) Dr. Patal Narysane 
- 7) Prof. CH. SRINIVASU 
8. Prof M.S.G Prasad 
9. Dr. T.V.S. Prasad Gupta 
- 10 Dr K.S.N. Murthy 
11. Dr. V. RAJESH 
12. Dr. M. Venu Gopal Rao 
13. Dr TV RAMA KRISHNA 
- 14 Dr. K.S. Rameth 
- 15 h. Rajendra Prasad 
16. Dr. R. SATHISHKUMAR 



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It is resolved to approve the 4-semester structure for M.Tech by research program.

It is resolved to approve Dr. R. Sathukumar as Guide for the existing M.Tech by research student.

H. C. Sathukumar

Chairman  
Board of Studies in ECE  
KI. University





# MINUTES

Name of the meeting' Board of studies.

of

held on 07/06/2013, at 9:30 A.M./P.M. under the chairmanship of Sri Dr. Habibulla Khan  
at principal conference hall.

The Board of studies meeting of ECE Dept held on 07/06/2013 at 9:30 A.M @ principal conference hall.

The following members attended the meeting.

1. Dr. Habibulla Khan - chairman (Bos) - HC Khan
2. Dr. M. Madhavi Latha - member. - N. Madhavi Latha  
professor in ECE, JNTU, Hyderabad
3. Dr. N. V. S. N. Sarma - Member. - N. Sarma  
professor, in ECE, NIT, warangal
4. Dr. M. Venkatesh Reddy - Member - M. Venkatesh Reddy
5. Dr. V. RAJESH - Member - V. Rajesh
6. Dr. T. V. Rama Krishna - Member - T. V. Rama Krishna
7. Dr. H. S. G. Prasad - Member - H. S. G. Prasad
8. Dr. ASCS Sasthry - Member - A. S. Sasthry
9. Dr. K. S. Ramethi - Member - K. S. Ramethi
10. Dr. P. S. Srinivas Babu - Member - P. S. Srinivas Babu
11. Prof. N. Venkat Ram - Member - N. Venkat Ram
12. Dr. Fazal Noorkasha - Member - F. Noorkasha
13. Mr. B. Murali Krishna - Member - B. Murali Krishna
14. Dr. K. SARAT KUMAR - Member - K. Sarat Kumar





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It is resolved to start M.Tech program in "Systems  
"Signal processing" from the A.Y. 2013-14.

It is resolved to adopt the modifications suggested  
by the members

It is resolved to approve the syllabus suggested  
for the students joined in year 2013 as per the DAC  
recommendation.

H. C. [Signature]

Chairman  
Board of Studies in ECE  
KL University



S.NO	COURSE CODE	COURSE NAME	L-T-P	COs	COURSE OUTCOME	PO1	PO2	PO3	1	PO5	Added/Modified/ Retained	Course rationale
1	13 EC 553	IC Fabrication		1	Ability to understand the Concepts of fabrication and steps following for fabrication			3	2		Retained	Fabrication process will be analysed by students
				2	Understand different modelling technologies and materials used for fabrication		3		3			
				3	Ability to understand the concepts of lithography and deposition		2		4			
				4	Analyze the various etching technologies for preparation of ICs		2		5			
2	13EC552	HDL & PLD Architectures		1	Understand the basics concepts of digital system design, their modeling techniques in Verilog HDL.	3			1		Retained	Digital system design and modelling techniques are studied by students
				2	Design of various Combinational & Sequential Logic realizations using Verilog HDL.			3	2			
				3	Compare and analysis of different PLD's and CPLD's architectures.		2		3			
				4	Memorize and analysis of different FPGA architectures.			2	4			
				5	Create and Analysis of digital modules through project oriented approach				5	3		
3	13EC550	MOS CIRCUIT DESIGN		1	Understand the basics concepts of digital system design, their modeling techniques in Verilog HDL.		2		1		Retained	Complete operation of MOS device and MOS circuits can be analysed
				2	Design of various Combinational & Sequential Logic realizations using Verilog			2	2			











6	13EC568	ASIC Design Flow	1	Develop Program of different logic circuits using Verilog Programming and analyze different types of Faults in logic circuits.	2			Added	Student acquires knowledge on industry related ASIC Design flow
			2	Analyze different types of ASIC design methodologies and Different CPLD	2				
			3	Analyze ASIC design flow of customized ASICs	3				
			4	Analyze Physical design flow of ASIC, Extraction the final circuit	2				

*Heaven*

Professor & Head  
 Dept. of ECE  
 KL University  
 Green Fields, Vaddeswaram  
 Puttur Dist. A.P. PIN-522 502





## CO Vs SO Attainment 2013

Department	Electronics and Communication Engineering	L-T-P	Pre-req	SO	a	b	c	d	e	f	g	h	i	j	k	Added/ Retained/ Modified	Course Rationale	
11ES 104	Engineering Graphics With CAD	0-0-4	NIL	CO#	1	1	1	1	1	1	1	1	1	1	1	Modified	Students acquire the skills to draft and modeling of physical designs using CAD.	
																		Draft orthographic Projections, Isometric views, projection of planes, Manually and prepare Models in workshop by using drawings.
																		Draft orthographic projections, isometric views, projection of planes using AutoCAD. Draft projection of solids Manually and by using AutoCAD and prepare Models in workshop by using different workshop trades
																		Draft Development of surfaces of solid and sections of solid Manually
																		Practicing house wiring through Auto Cad
																		Develop 2D & 3D components using Auto Cad Software
																		Formulate physical laws and relations mathematically in the form of first order differential equations
																		Higher order differential equations and Identify a method for solving and interpreting the results.
																		Provide solutions for Fourier series of periodic/non-periodic phenomenon in models involving differential equations.
																		Model the given phenomena as a partial differential equations of first and second orders
13BS 102	Differential Equations	3-1-0	NIL	CO#	1	1	1	1	1	1	1	1	1	1	1	Added	Students develop the skill to apply various basic mathematics for practical electronics and communication applications.	
																		Solve the partial differential equations by analytical and finite difference methods
																		Understanding the basic scalar types, input/output functions operators, and expressions
																		Understanding statements and control flow charts
13ES 101	Problem Solving Through Programming	3-0-2	NIL	CO#	1	1	1	1	1	1	1	1	1	1	1	Modified	Students understand the basic concepts and develop skill to implement programming by	
																		Understanding the functions, arrays, pointers.
																		Understanding and applying structures, characters, strings, and storage classes.
13ES	Measurements	3-0-2	NIL	CO#	1	1	1	1	1	1	1	1	1	1	1	Modified	Understand and apply the fundamentals of a measurement	

*H. E. S.*  
Professor & Head

Dept. of ECE

KU University

Green Fields, Vaddeswaram

Tumkur Dist. A.P. PIN-522 56





















Mathematics				Understanding differential equations		Understanding graph theory		Skill in various functions and graph theory	
		3-0-0	NIL	Understand the fundamentals of thermodynamic systems and processes	2		2		1
2	13ES 201	Thermodynamics		Apply laws of the thermodynamics and principle of entropy to engineering devices.	2		2		1
				Analyze various air standard cycles and their performance.	2		2		
				Evaluate the performance of fuels and combustion to various engines.	2		2		
		3-0-2	13EC20	Understand basic radiating process and their parameters.	1		1		
2	13EC 313	Antenna & Wave Propagation		Understand and analyze the characteristics of different wire aperture and array antennas and the comparison between different state-of-the-art antenna technologies and processes.	2		2		
7				Describe the wave propagation mechanisms at various levels of free space, deciding a suitable antenna for such a scenario.	2		2		
				Analyze antenna design and performance measures.	2				2
		3-0-2	13EC20	Understand the fundamentals of digital communications and analyze the pulse digital communications, Matched filter performance, Inter Symbol Interference.	1		1		
2	13EC 308	Digital Communication		Demonstrate about Nyquist channel, Signaling Schemes and Signal Space Analysis.	2		2		
8				Analyze pass band data transmission and Comparison of different M-ary schemes.	2		2		
				Analyze different digital modulation schemes using single carrier.	2		2		
		3-0-2	NIL	Discuss different networks namely LAN, WAN, Internet and OSI, TCP/IP Models and basics of physical layer and data link layer issues			1		1
2	13CS 205	Computer Networks		Demonstrate Data Link layer design issues, medium access control sub layers and network layer design issues concepts			2		2
9				Analyze and implement the algorithms of Network Layer and related services			2		2
				Examine the concepts of Transport Layer and the Application Layer functionality			2		2
				Understand semiconductor device fabrication process	1				
3	13EC 206	CMOS VLSI Design		Analyze the characteristics of CMOS circuits Construction and the comparison between different state-of-the-art CMOS technologies and processes			2		2

**H. Prasad & Head**  
Dept. of ECE  
KL University

Green Fields, Yadadriwaram  
Guntur Dist A.P. PIN-522 507



					Implement the a complete design verification process using computer- automated tools for scaling, layout, extraction, simulation, and timing analysis Understand and analyze the design testing principle, time-delay concepts						2							2	g of digital circuits suitable for core jobs.
		3-0-2	13EC20 3		Understand the logical gates to construct combinational & sequential circuits to perform arithmetic $\mu$ -operations. Develop micro Programs for design of Control Unit, CPU Analyze and realize operations like Multiplication, Floating Point algorithms using supporting modern engineering tools. Understand the Peripherals, I/O interface and Direct Memory Access.	2	2	2	2	2								2	Course develop the skill to analyze and realize the operation of modern engineering tools
3	13SEM 201	Computer Organization																	
			1-0-2	NIL	Understand the campus selection process with special focus on Effective Communication and Attitude. Analyze himself/herself for the campus Interviews. Understand the professional behaviors' for entry into the professional world. Analyze logically and solve problems in professional life.														Course enhances the skill with focus on professional life and campus interviews
3	13AC 202	Employability Skills																	
			3-0-2	13EC20 3	Understand the basics of Full custom, Semicustom and PLD design methodologies Design various combinational & sequential logic realizations using PLEs & PLDs. Analyze the architectures of different FPGAs. Design various sequential logic realizations using new generation PLDs.	1													Students acquire the basic understanding of digital circuits suitable for core jobs.
3	13EC 312	Design with PLD and FPGA																	
			3-0-2	13EC20 2	Understand the essential features and principles of microwave devices and various mathematical models which are relevant to microwave systems and asses the limitations of devices Understand various types of High gain and wide band Microwave tubes Understand the microwave passive devices, Tee junctions and various ferrite devices. Understand the operation of solid state devices (Various Diodes operate at high frequency), ferrite devices and analyze the measurement of parameters at high frequency level.														Students acquire the skill to work microwave systems and microwave communication systems.
3	13EC 314	Microwave Engineering																	
			3-0-2	13EC20 3	Understand the working of Microcontroller 8051 and apply the knowledge of Architecture and Instruction Set	2													Students acquire the
3	11EC 311	Microprocessors & Microcontrollers																	

























# MINUTES

Name of the meeting' Internal Board of studies

of' ECE dept.

held on 18/11 2013, at 12:30 A.M./P.M. under the chairmanship of Sri Dr. Habibulla Khan

at' ECE HOD'S Chamber

The internal Board of studies meeting of ECE dept was held on 18/11/13 at 12:30 PM @ HOD'S chamber.

The following members were present.

1) Dr. Habibulla Khan





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It is resolved to offer a course by name  
"elements of software defined radio" as a  
professional core elective for the students of  
II year in 2<sup>nd</sup> semester.

H. P. L. M. A.

Chairman  
Board of Studies in ECE  
KL University





# MINUTES

Name of the meeting' Board of Studies

of ECE Department

held on 19/3/2014, at 3 AM /P.M. under the chairmanship of Sri Dr. ASGS Sastry

at HOD's Chamber, ECE Department.

The Board of Studies meeting of ECE Department was held on ~~20~~ 19<sup>th</sup> March 2014 in the HOD's chamber to approve the syllabus for the courses to be included into the list for Pbc-PhD Examinations from the Department.

The following members were present.

- |                                    |   |  |
|------------------------------------|---|--|
| 1. Dr. ASGS Sastry, - Chairmam BOS | - |  |
| 2. Dr. Habibulla Khan - Member     | - |  |
| 3. Dr. S. Lakshminarayana - Member | - |  |
| 4. Dr. M. Venugopala Rao "         | - |  |
| 5. Dr. K.S. Ramesh "               | - |  |
| 6. Dr. EV Krishna Rao "            | - |  |
| 7. Dr. K. Sateet Kumar "           | - |  |
| 8. Dr. V. Rajesh "                 | - |  |
| 9. Dr. T.S Prasad Gupta "          | - |  |
| 10. Dr. KSN Murthy "               | - |  |
| 11. Dr. K. Kumar Naik "            | - |  |
| 12. Dr. G.V. Subba Rao "           | - |  |
| 13. Dr. Fazal Noor Basha "         | - |  |
| 14. Dr. D.V. Ratnam "              | - |  |
| 15. Dr. Rehman "                   | - |  |





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It is resolved that the syllabus of the two courses namely (a) Basis of MEMS (b) MEMS Measurement techniques attached herewith is approved to be included into the List of Courses for Pre-PhD

It is resolved that the syllabus of the Course of Global Positioning System attached herewith is approved to be included into the list of Courses for Pre-PhD.





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Name of the meeting' Board of studies

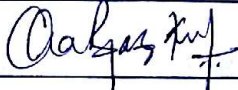

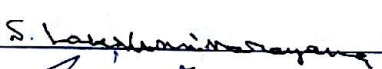
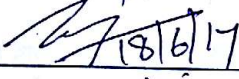

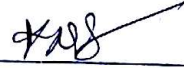



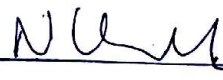
of ECE Department

held on 18/6/2014, at 12:30 A.M./P.M. under the chairmanship of Sri Dr. ASCS SASTRY

at HOD's Chamber, ECE Department.

The Bos meeting of ECE Department was held on 18<sup>th</sup> June 2014 in the HOD's Chamber to approve the syllabus for the Courses of M.Tech (RF & Microwave Engineering) and the structure for the same to be commenced from the academic year 2014-15.

The following members were present:

1. Dr. ASCS Sastry. - Chairman, Bos 
2. Dr. Habibulla Khan - Member 
3. Dr. S. Lakshminarayana - " 
4. Dr. V. Rajesh - " 
5. Dr. E. V. Krishna Rao - " 
6. Dr K. Kumar Naik - " 
7. Dr. K. Sreedhiah Spl. Invitee. 
8. Sri. D.S. Ramkiran - Member 
9. Sri. M. Venkata Narayana - " 
10. Prof. N. Venkatram Spl. Invitee 
- 11.





# BOOK



1. General Body, Board or as the case may be.
2. The name of the Company.
3. The place at which the meeting was held.
4. At the end of the minutes. Chairman to sign mentioning the number of correction made, if any, in recording the minutes of the meeting.

The Curriculum and the Course structure for M.Tech RF & Microwave Engineering is approved.

DAC recommendations are considered and modifications may be considered in next regulations.

Dr. Ases Sahay  
(Chairman, BOS)

Professor & Head  
Dept. of ECE  
KL University  
Green Fields, Vaddeswaram  
Guntur Dist. A.P, PIN-522 502





# MINUTES

Name of the meeting' Board of studies.

of' ECE Dept

held on 11/12/2014, at 11.00 A.M./P.M. under the chairmanship of Sri Dr. A.S.C's Sastri

at' Room no: 307, ECE Dept

The BOS meeting of ECE Dept was held on 1<sup>st</sup> Dec, 2014 in Room no: 307, to approve the syllabus and other discussions regarding the syllabus for the academic year 2014-15. Curriculum design according to new methodologies is also one of the agenda.

The following members were present

1. Dr. A.S.C. Sastri - chair man - BOS -
2. Dr. K. S. Ramesh -
3. Dr. T. V. Rama Krishna -
4. Dr. M. Siva Ganga prasad -
5. Dr. Md ZIFA UR RAHMAN -
6. Dr. P.V.V. Kishore -
7. Dr. G.V. Subbarao -
8. Dr. M. Vesu Gopalakrishna -
9. D. S. Ram Kisan -
10. M.V. Narayana -
11. Dr. K. Sanat Kumar -
12. Dr. V. RAJESH -
13. Dr. J. Lakshmi Narayana -
14. Dr. Habibulla Khan -





1. General Body, Board or as the case may be.
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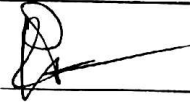
15. S. Lakshminarayana




14. Mr. Fazel Noorjane



15. Dr. Rajan K. Senapat



  
Dr. A.S.C.S. Sastri  
(Chairman, BOS).



## BOS Meeting.

Dr. ASCS Sastry

Sun 11/30/2014 9:43 PM

To: Dean Student Affairs <habibulla@kluniversity.in>; Lakshminarayana <drslakshminarayana@kluniversity.in>; Sarat K Kotamraju <kksarat@kluniversity.in>; K.S.Ramesh <dr.ramesh@kluniversity.in>; M.S.G.Prasad <msivagangaprasad@kluniversity.in>; Dr. TV Rama Krishna <tottempudi@kluniversity.in>; ksnmurty <ksnmurty@kluniversity.in>; MVGR <mvgr03@kluniversity.in>; Dr. Vullanki Rajesh <rajesh71@kluniversity.in>; Dr. E V Krishna Rao <evkr@kluniversity.in>; Dr.P.V.V.Kishore <pwkishore@kluniversity.in>; Dr. M.Z.Rahman <mdzr@kluniversity.in>; Ranjan <ranjan.senapati@kluniversity.in>; J L Narayana <drjlnarayana@kluniversity.in>;

Dear all,

Good evening. Board of Studies meeting of the department is scheduled on 1st December 2014 at 11.30 hrs in the department library.

Agenda:

Discuss the preliminary issues of design of the new curriculum (structure) for the 2015 batch based on the scientific methods and as per the ABET requirements.

All the members are requested to attend.

Thanks and Regards,  
**Dr.A.S.Chandrasekhara Sastry,**  
Professor & Head,  
Department of ECE,  
**(DST - FIST Sponsored Department)**  
K L University.  
Mobile no. : +91 9848099508



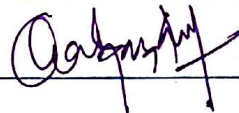





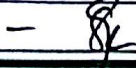


Name of the meeting' Board of Studies  
of ECE Department  
held on 6/7/2015, at 12:30 A.M./P.M. under the chairmanship of Sri Dr. ASCS Sastry  
at Room No: , C Block

The BOS meeting of ECE Department was held on  
6<sup>th</sup> July, 2015 in Room No.           , to approve the following  
agenda :

1. Modifications in the structure of 2012-16 batch of B.Tech
2. Modifications in the structure of 2013-17 batch of B.Tech
3. Curriculum and structure of 2015-19 batch of B.Tech
4. Curriculum modifications in the M.Tech (CCR) and M.Tech (CF & MHI Engg.)

The following members were present :

1. Dr. ASCS Sastry - Chairman - BOS - 
2. Dr. Fazal Noor basha
3. Dr. K. Srinivasa Rao
4. Dr. D. S. G. prof. 
5. Dr. M. Venu Gopala Rao
6. Dr. K. S. Ramesh
7.  (Dr. G. V. Subbarao)
8. S. Koteswara Rao
9. Dr. P. V. R. K. S. Lone
10. Dr. R. Kumar Naik. - 
11. Dr. D. VENKATA RATNAM - 
12. BTP Madhav - 
13. K. Sarat Kumar - 

# BOOK



1. General Body, Board or as the case may be.
2. The name of the Company.
3. The place at which the meeting was held.
4. At the end of the minutes. Chairman to sign mentioning the number of correction made, if any, in recording the minutes of the meeting.

(14) Dr K.S.N. Murthy

(15) Dr. K. Ch. Sridanya

Dr. A.S.C.S. SASTRY  
Professor & Head  
Department of ECE  
K L University  
Green Fields, VADDESWARAM  
Guntur District, A.P., India.

*(Signature)*  
CHAIRMAN, BOS  
DEPARTMENT OF ECE

→ It was approved by all the members to include a new course on Global Navigational satellite systems into M.Tech CBR & M.Tech RF-microwave. Copies of the curriculum & associated lab enclosed.

1) It is resolved to modify the course structure of 2012-16 to accommodate two open electives in the Final year second semester along with Project (or Practice school). The modified course structure is enclosed.

2) It is resolved to modify the course structure of 2013-17 to accommodate two open electives in the Final year second semester along with Project (or Practice school).

3) The Proposed (Tentative) structure for 2015-19 batch is presented and discussed at length and approved by all the members except for some suggestions of change of names of the courses.

4) As per the letter from the Head, Department of Atmospheric Sciences & the name of the PG specialization (an interdisciplinary specialization run under the IIT part) of Atmospheric science & space technology was renamed as space technology & Atmospheric science.

5) Modifications in the course structures of M.Tech CBR & M.Tech RF-microwave were approved by the members. Modified structure enclosed.



## BOS Meeting

Dr. ASCS Sastry

Sun 7/5/2015 8:07 PM

To: Dean Student Affairs <habibulla@kluniversity.in>; Dr. TV Rama Krishna <tottempudi@kluniversity.in>; M.S.G.Prasad <msivagangaprasad@kluniversity.in>; Sarat KK <kksarat@kluniversity.in>; K.S.Ramesh <dr.ramesh@kluniversity.in>; ksnmurty <ksnmurty@kluniversity.in>; Lakshminarayana <drslakshminarayana@kluniversity.in>; Dr. M.Z.Rahman <mdzr@kluniversity.in>; Ranjan <ranjan.senapati@kluniversity.in>; Dr.P.V.V.Kishore <pwkishore@kluniversity.in>; Dr. G.V.S.RAO <gvs0raos@kluniversity.in>; ratnam <dvratnam@kluniversity.in>; K.Srinivasa Rao <ksrao\_me@kluniversity.in>; S Koteswara Rao <skrao@kluniversity.in>; K Kumar Naik <kumarnaik@kluniversity.in>; Dr. Fazal Noorbasha <fazalnoorbasha@kluniversity.in>; Madhav <btpmadhav@kluniversity.in>; MVGR <mvgr03@kluniversity.in>;

Cc: Sri Kavya <kavya@kluniversity.in>;

Dear all,

There shall be a meeting of the **Board of Studies** of the Department of ECE on Monday, 6th July 2015 at 12.30 p.m in the Department Library.

Agenda:

1. Modifications in the structure of 2012-16 batch of B.Tech.
2. Modifications in the structure of 2013-17 batch of B.Tech.
3. Curriculum and structure of 2015-19 batch of B.Tech.
4. Curriculum modifications in the M.Tech.(CR) and M.Tech.(RF & MW Engg.)

All the members are requested to make it convenient to attend the same.

Thanks and Regards,

**Dr.A.S.Chandrasekhara Sastry,**

Professor & Head,

Department of ECE,

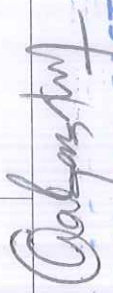
**(DST - FIST Sponsored Department)**

K L University.

Mobile no. : +91 9848099508

**MTech COMMUNICATION & RADAR [A.Y - 2015 - 2016]**

S. NO	COURSE CODE	COURSENAME	L-T-P	CO No	CO	PO's							Added/ Modified/ Retained	Course Rationale		
						1	2	3	4	5	6	7			8	9
1	15EC5101	Modern Digital Communication Techniques	3-1-2	1	Understand different modern digital modulation techniques and probability of error statistics.	1									Student acquire knowledge on Digital Communication techniques and apply the skills to practical problems	
				2	Analyze the performance of baseband and pass band data transmission in terms of signaling schemes.	2										
				3	Understand the concepts of block and convolution codes with respect to transfer functions and decoding operations.	1										
				4	Analyze the spread spectrum signals and signal analysis for different digital communication technologies.	2										
				5	Interpret different digital communication modules with respect to signal analysis in application orientation.	2										
2	15EC5102	Microwave Antennas	3-1-2	1	Understand the basic antenna parameters and radiation mechanism for different types.	1								Complete analysis regarding Microwave antennas and apply the skill to practical world problems		
				2	Identify the significance of aperture of antenna models and their feeding mechanism.	1										
				3	Design microstrip radiators with different shapes, slots and feeding techniques for communication applications.	3										
				4	Analyze the concepts of	3										

  
**Dr. A.S.C.S. SASTRY**  
 Professor & Head  
 Department of ECE  
 K. J. Somaiya Institute of  
 Technology  
 VESWARAM















		wave Systems		
2	Understand Smith chart concept for analyzing S, Y, Z parameters.	1		
3	Analyze S-parameters with conversions and modeling.	2		
4	Design of RF- filters, amplifiers and oscillators.		3	

*Dr. A. S. C. S. Sastry*

**Dr. A. S. C. S. SASTRY**  
 Professor & Head  
 Department of ECE  
 K L University  
 Green Fields, VADESWARAM  
 Guntur Dist. A.P, India, Pin: 522 502.

S. No	Course code	Course Name	L-T-P	Pre-req	Description of the Course Outcome	Mapping with SO										Added/ Modified/ Retained	Course Rationale
						a	b	c	d	e	f	g	h	i	j		
<b>HUMANITIES &amp; SOCIAL SCIENCES</b>																	
1	15 EN 1101	Rudiments of Communication Skills	0-0-4	NIL	Remember speech sounds and apply stress and intonation rules to enhance pronunciation skills.	1											Course develop the skill required for employability and entrepreneurship
					Understand writing strategies and apply those by using the basic and advanced concepts of grammar.	1									Added		
					Understand the types of texts and tone of the author.	1											
					Understand the importance of interpersonal skills	1											
2	15 EN 1202	Interpersonal Communication Skills	0-0-4	NIL	Understand the method of identifying the meaning of words from the context and form sentences using words.	1										Course develop the skill required for employability and entrepreneurship	
					Understand and analyze seven types of reading techniques and improve reading speed.	2									Added		
					Understand and apply writing strategies for office/ formal communication.	2											
					Understand and analyze different cultures and the importance of empathy in cross-cultural communication.	1											

*(Signature)*

Dr. A. S. D. S. SASTRY  
 Professor & Head  
 Department of ECE  
 KJ Somaiya Institute of Engineering & Information Technology



				1				Course develop the skill required for employability and entrepreneurship
3	15 EN 2103	Professional Communication 0-0-4 NIL	Understand the concept of Group Discussion and listen and speak effectively during the discussion.  Understand and improve learners' competency in competitive English and apply the principles of grammar in real life contexts.  Understand skimming & scanning, and apply the types of reasoning in comprehending the information.  Understand the mechanics and application of presentation skills.	1  2  3			Added	
4	15 EN 2204	Employability 0-0-4 NIL	Analyze one's own strength as a speaker/ Communicator and use discretion while listening.  Apply and analyze various concepts of writing strategies in professional communication skills like, reports, resume and minutes of the meeting.  Understand the organization of the passage and also analyze the tone, attitude and style of the author.  Acquire knowledge of and apply people skills in various social organizational and corporate ambiances	1  2  3		2	Added	Course develop the skill required for employability and entrepreneurship

*Carbas*

**Dr. A. S. C. S. SASTRY**  
 Professor & Head  
 Department of ECE  
 K L University  
 Greenfield, WADDESWARAM  
 Guntur Dist. A.P. India Pin-522 502.

5	15 EN 3105	Verbal and Quantitative Reasoning	0-0-4 NIL	<p>Understand the method of identifying synonyms and antonyms and analyze the meaning of a word from the context.</p> <p>Analyze issues and arguments in the process of critical reasoning and apply grammar rules to correct sentences.</p> <p>Apply the Concepts of basic Algebra and their importance while solving the problems</p> <p>Apply the short-cut methods on the concepts of different models in Calendars, Clocks, Blood relations and various types of arrangements</p>	1 1 1 1	Added	Course develop the skill in verbal and quantitative reasoning
6	15 EN 3206	Corporate Communication Skills	0-0-4 NIL	<p>Understand and analyze the depth of a topic and use the advanced levels in creative speaking and debating.</p> <p>Understand and analyze various strategies involved in writing an essay and apply various styles in writing.</p> <p>Understand and analyze the given text critically and answer questions on critical reasoning based on the given information.</p> <p>Acquire knowledge on various employability skills &amp; analyze a situation and develop adaptability.</p> <p>Apply the Concepts of basic geometry and their</p>	1 2 3 3 2	Added	Course develop the skill required for employability and entrepreneurship

*Reddy*

Dr. A. S. C. S. BASISTY  
Professor & Head  
Department of ECE  
K. J. Somaiya Institute of  
Engineering & Technology  
Green Fields, Vasai, Mumbai























21	15 CS 2002	Object Oriented Programming	2-2-2 NIL	Understand Basic Concepts of OOP, introduction to classes and objects through Java Language and apply.  Understand the concepts of constructors, Overloading, parameter passing, access control, inheritance and apply.  Understand Packages, Interfaces, and Exception Handling and apply.  Understand I/O Streams & apply and understand Basic Concepts of Multi - Threading  Apply OOP concepts for developing an application	2  2  2  3  3	Retained	Students understand the concepts of OOP and develop to apply for practical implementation
22	15 EC 2002	Signal Analysis	2-2-2 NIL	Demonstrate signals and their Spectra 2  Analyze discrete time systems Design filters to cater signal analysis needs Analyze non stationary signals in time Analyze non stationary signals in frequency domains	2  2  2	Added	Students acquires the skill regarding the basics of signal processing
23	15 CS 2003	Discrete Mathematics	2-2-2 NIL	Understand sets, relations, functions and discrete structures , Count discrete event occurrences Apply Propositional logic and First order logic to solve problems	2  2	Added	Students develop the skill to apply various basic mathematics for practical electronics and communication

*Dr. A.S.C.S. SASTRY*  
 Professor & Head  
 Department of ECE  
 K. J. Somaiya Institute of Engineering & Information Technology  
 K. J. Somaiya University












		and demodulation techniques; have a good understanding of digital modulation and demodulation techniques; and	2																			communication systems.
		Understanding pulse modulation systems	2																			
		Understand and be able to implement noise and error analysis of an analogue system.	2																			
		Understand and be able to implement noise and error analysis of an analogue or digital telecommunication system.	2																			
		Understand various signals and model physical process using them.						2														
		Acquaint with various a transformation methods and their potential for applicability in various signal analysis conditions						2														
		Demonstrate sampling and its potential applications in communications, discrete signal acquisition etc						2														
		Evaluate discrete system behavior and its response to facilitate system design.						2														
		Design a low pass discrete time system to meet noise elimination like applications						2														
		Analyze non stationary signals and analyze them in both time frequency domains.						2														

Students acquires the skill regarding the basics of signal processing applications

Added

*Dr. A.S.C.S. SAstry*  
 Dr. A.S.C.S. SAstry  
 Professor & Head  
 Department of ECE  
 K L University  
 Green Field, VADDESWARAM  
 GUNTUR, A.P. 522202

		Students can be able to understand control system concepts such as open, closed loop systems, transfer function approach, mathematical modeling of physical systems and can understand analyze the similarities between synchros and ac generators	1					Students acquire the skill to apply the concepts to practical applications
		Students can be able to Analyze the time domain and frequency response of physical systems	2					Modified
		Students can be able to understand and analyze stability of given transfer functions in time and frequency domain and can be able to analyze the process of Converting state space equations into transfer function for the given model.	2					
		Students can be able to design and analyze controllers and lead, lag, lead-lag compensators	2					
		Test and apply the knowledge obtained in the subject by Matlab or hardware.						
		Understand OSI and TCP/IP models						
		Analyze MAC layer protocols and LAN technologies	2					Added
		Implement routing and congestion control algorithms	2					
		Understand application layer concepts	2					

  
**Dr. A. S. C. S. SASTRY**  
 Professor & Head  
 Department of ECE  
 K L University  
 Green Fields, VADDESWARAM









				Select the antennas and arrays based on the specific application															2		communication systems.	
				Evaluate the antenna performance with measurement techniques															2			
				Compare different types of radars and their limitations															2	2	Retained	Students acquires the skill regarding the analysis and design of radar systems that required for core jobs.
40	15 EC 4163	Radar and Navigational AIDS	3-0-0	15 EC 3108	Illustrate the operation of MTI Radar and types of tracking methods														2			
					Differentiate different radar transmitters and receivers														2	2		
					Compare different types of electronic counter measures														2	2		
					Differentiate different Microwave components														2			Students acquires the skill to work microwave systems and microwave communication systems.
41	15 EC 4164	Microwave and millimeter Wave Circuits	3-0-0	15 EC 3209	Identify transformers and microwave resonators														2	2	Retained	
					Design different microwave filters														2	2		
					Distinguish microwave and millimetric wave circuits														2	2		
					Describe the EMI specifications and standards														2		Retained	Students acquires the skill to work microwave systems and microwave communication systems.
					Demonstrate the EMI control techniques and design guidelines														2			
42	15 EC 4165	EMI/EMC	3-0-0	15 EC 3108	Distinguish different passive components for EMC														2			
					Evaluate the EMI measurements using different techniques														2			

*Carbonyl*



43	15 EC 4166	Cellular Communication 3-0-0-0	15 EC 2205	<p>Demonstrate different wireless communication systems and radio propagation mechanism</p> <p>Distinguish different equalizers and diversity techniques in propagation</p> <p>Illustrate different wireless communication system standards</p> <p>Select OFDM in the channel estimation and implementation</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>	Retained	Students acquires the skill regarding the analysis and design of cellular systems.
44	15 EC 4167	Satellite Communication 3-0-0-0	15 EC 3108	<p>Demonstrate the basic concepts of satellite communication and orbital mechanics</p> <p>Illustrate the satellite subsystems and link design</p> <p>Interpret transmitters and receivers usage in tracking and error control mechanism</p> <p>Develop the GPS based navigation system</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>	Retained	Students acquires the skill regarding the analysis and design of satellite systems
45	15 EC 4168	Optical Communication 3-0-0-0	15 EC 2205	<p>Dramatize the importance of optical communication</p> <p>Demonstrate the transmission characteristics of optical fibers, optical transmitters and detectors</p> <p>Illustrate the advanced optical fiber systems</p> <p>Test the optical fiber transmission and reception mechanism</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>	Retained	Students acquires the skill regarding the analysis and design of optical systems
46	15 EC	Information 3-0-0-0	15 EC	Describe the basic terminology of information	2	Retained	Students acquires

*Dr. A. S. SASTRY*  
 Professor & Head  
 Department of ECE  
 K. J. Somaiya Institute of Technology









55	15 EC 4177	Speech Signal Processing	3-0-0	15 EC 2206	probability play an important role. To establish the theory necessary to understand and use speech based systems and related constructions. To emphasize on efficient algorithms for speech based systems. To study applications in speech signal processing, speech based systems. The course has computer and research projects involving independent study. To study applications in speech sensing software in mobile.	2 2 1 1	Added	Students acquires the skill regarding speech signal processing
56	15 EC 4178	Multimedia Signal Processing	3-0-0	15 EC 2002	To establish the theory necessary to understand and use of multimedia in system control and related constructions. To establish the theory necessary to understand and use of Motion Estimation To emphasize on efficient algorithms for multimedia based systems. To emphasize on Multimedia Content Representation and Retrieval	2 2 2 2	Added	Students acquires the skill regarding multimedia signal processing
57	15 EC 4179	Neural Networks and Fuzzy Control	3-0-0	15 EC 2206	To establish the theory necessary to understand and use of intelligence in system control and related constructions. To establish the theory necessary to understand and	2 2	Added	Students acquires the skill regarding neural networks and fuzzy control

  
 Dr. A.S. Ch. SASTRI  
 Professor & Head  
 Department of ECE















# MINUTES

Name of the meeting' Board of Studies

of ECE Department

held on 1/7/2016, at 3:20 P.M. under the chairmanship of Sri ASCS Sastry

at Department Library of ECE

The Bos meeting of ECE Department was held on 05 July, 2016 in Department Library, to approve the following agenda

1. Syllabus modification for 'C' programming and Data Structures - 1<sup>st</sup> year course - for discussion and approval.
2. Course of Thermodynamics - 2016-17 modification/change

The following members were present.

1. Dr. ASCS Sastry, Chairman - BOS

2. B.L-Prakash B.L-PRAKASH

3. Dr. T.V. Rama Krishna

4. Dr. K. Saral Kumar

5. Dr. P.V.V. Kishore

6. Dr. D. Venkataswamy

7. Dr. Ranjan K. Sengupta

8. Dr. Habibulla Khan

9. Dr. B. Polaiiah

10. Dr. K. Suresh Kumar

11. Dr. K. Kumar Naik

12. Dr. G.V. Subbarao

13. Dr. G. Ansa Jyothi

14.

# BOOK



1. General Body, Board or as the case may be.
2. The name of the Company.
3. The place at which the meeting was held.
4. At the end of the minutes. Chairman to sign mentioning the number of correction made, if any, in recording the minutes of the meeting.

14. Dr. BTP Madhan

15. Dr S K RAO

16. Dr. M. Venugopala Rao

17. Dr. K.S. Ramesh

1. It is resolved that the modifications in the course 'C programming and Data Structures' - namely CPDS-1 and CPDS-2 (into two courses) is ~~discussed~~ approved for 2016-17 - First year course structure.

2. The Engineering Science course of Thermodynamics is the course that shall not be a part of the 2016-17 Curriculum/structure from that batch.

3. Recommendations from DAC may be incorporated from next regulations.

CHAIRMAN, BOS  
DEPARTMENT OF ECE  
Dr. A.S.C.S. SASTRY  
Professor & Head  
Department of ECE  
K J Somaiya University



Guntur District, A.P., India.



KL UNIVERSITY  
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING


INTERNAL NOTE


The Board of Studies meeting of the Department of ECE is scheduled on 5<sup>th</sup> July 2016 at 3.20 pm in the Department library.

Agenda:

1. Syllabus modification for 'C' Programming and Data Structures – 1<sup>st</sup> year course – for discussion and approval
2. Course of Thermodynamics – 2016-17 modification/change

All the members are requested to attend the same.

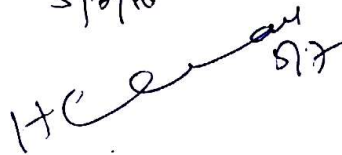
  
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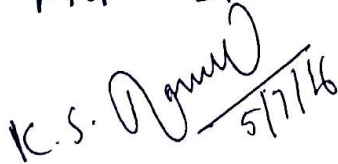
  
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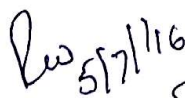
  
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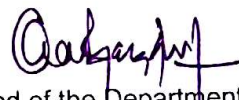
  
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Head of the Department.  
**Dr. A.S.O.S. SASANI**  
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Guntur District, A.P., India



			<p>Understand the concept of Group Discussion and listen and speak effectively during the discussion.</p> <p>Understand and improve learners' competency in competitive English and apply the principles of grammar in real life contexts.</p> <p>Understand skimming &amp; scanning, and apply the types of reasoning in comprehending the information.</p> <p>Understand the mechanics and application of presentation skills.</p>				<p>Course develop the skill required for employability and entrepreneurship</p>
3	15 EN 2103 Professional Communication Skills	0-0-4 NIL	<p>Analyze one's own strength as a speaker/ Communicator and use discretion while listening.</p> <p>Apply and analyze various concepts of writing strategies in professional communication skills like, reports, resume and minutes of the meeting.</p> <p>Understand the organization of the passage and also analyze the tone, attitude and style of the author.</p> <p>Acquire knowledge of and apply people skills in various social organizational and corporate ambiances</p>		1 2 3 2 2	Added	<p>Course develop the skill required for employability and entrepreneurship</p>
4	15 EN 2204 Employability Skills	0-0-4 NIL			2	Added	

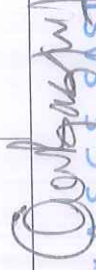
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3	15 EN 2103	Professional Communication 0-0-4 Skills	NIL	<p>Understand the concept of Group Discussion and listen and speak effectively during the discussion.</p> <p>Understand and improve learners' competency in competitive English and apply the principles of grammar in real life contexts.</p> <p>Understand skimming &amp; scanning, and apply the types of reasoning in comprehending the information.</p> <p>Understand the mechanics and application of presentation skills.</p>	<p>1</p> <p>2</p> <p>3</p>	<p>Added</p>	<p>Course develop the skill required for employability and entrepreneurship</p>
4	15 EN 2204	Employability 0-0-4 Skills	NIL	<p>Analyze one's own strength as a speaker/ Communicator and use discretion while listening.</p> <p>Apply and analyze various concepts of writing strategies in professional communication skills like, reports, resume and minutes of the meeting.</p> <p>Understand the organization of the passage and also analyze the tone, attitude and style of the author.</p> <p>Acquire knowledge of and apply people skills in various social organizational and corporate ambiances</p>	<p>2</p> <p>3</p> <p>2</p>	<p>Added</p>	<p>Course develop the skill required for employability and entrepreneurship</p>

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5	15 EN 3105	Verbal and Quantitative Reasoning	0-0-4 NIL	Understand the method of identifying synonyms and antonyms and analyze the meaning of a word from the context.	1	Course develop the skill in verbal and quantitative reasoning
				Analyze issues and arguments in the process of critical reasoning and apply grammar rules to correct sentences.	1	
				Apply the Concepts of basic Algebra and their importance while solving the problems	1	
				Apply the short-cut methods on the concepts of different models in Calendars, Clocks, Blood relations and various types of arrangements	1	
6	15 EN 3206	Corporate Communication Skills	0-0-4 NIL	Understand and analyze the depth of a topic and use the advanced levels in creative speaking and debating.	1	Course develop the skill required for employability and entrepreneurship
				Understand and analyze various strategies involved in writing an essay and apply various styles in writing.	2	
				Understand and analyze the given text critically and answer questions on critical reasoning based on the given information.	3	
				Acquire knowledge on various employability skills & analyze a situation and develop adaptability.	3	
				Apply the Concepts of basic geometry and their	2	

  
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25	15 EM 2001	Computer Organization and Architecture	15EC110 2-2-2 1	Verilog HDL design for logic gates, combinational and sequential Logic Functions.	2	2	2	2	2	Course develop the skill to analyze and realize the operation of modern engineering tools
				Concepts of Programmable Logic devices.	2	2	2	2	Added	
2	15 EC 2103	Analog Electronic Circuit Design	NIL 2-4-2	Understand the functionality and design the CPU functional units - control unit, registers, the arithmetic and logic unit, the instruction execution unit, and the interconnections among these components.	2	2	2	2	2	Acquire the skill to apply various practical problem of circuit design
				Understand, analyze and design main, cache and virtual memory organizations.	2	2	2	2	Added	
				Understand, analyze and design different types of I/O transfer techniques.	2	2	2	2	Added	
				Understand the design issues of RISC and CISC CPUs and the design issues of pipeline architectures.	2	2	2	2	Added	
				Able to Design combinational and sequential circuits using LOGISIM	2	2	2	2	Added	
				Able to Design combinational and sequential circuits using LOGISIM	3	3	3	3	Added	
2	15 EC 2103	Analog Electronic Circuit Design	NIL 2-4-2	Understanding the concepts of various diodes and their applications.	3	3	3	3	Acquire the skill to apply various practical problem of circuit design	
				BJT concepts as operation, biasing and frequency response	3	3	3	3		Added
				FET concepts as operation, biasing and	3	3	3	3		Added

*(Signature)*

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Technology & Research  
K. J. Somaiya University











32	15 CS 2208	Computer Networks	15 CS 1001	2-2-2	subject by Matlab or hardware. Understand OSI and TCP/IP models Analyze MAC layer protocols and LAN technologies Implement routing and congestion control algorithms Understand application layer concepts Design applications using internet protocols	2 2 2 2	2 2 2	2 2 2	2 2 2	Added Added	Student to understand the concepts and develop skill to apply for practical implementations
33	15 EM 3103	Embedded Systems	15 EM2202	2-2-2	Able to analyze embedded systems, analyze and program on chip peripherals for a single purpose controller Able to interface and program different off chip peripherals and communication protocols used in embedded systems Able to understand, evaluate and select appropriate software architectures Able to analyze and design embedded systems using the features in real time operating systems. Able to develop a prototype for a real time embedded application using project based labs.	2 2 2 2	2 2 2	3 3 3	3 3 3	Added	Students acquire the basic understanding of digital circuits embedded systems and apply skill for practical applications
34	15 EC	CMOS VLSI	15 EC	2-2-2	To understand the VLSI fabrication process and to be able to interact with integrated	2	2	2	2	Modified	Students acquire the basic

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Department of ECE







39	15 EC 4162	Radiation Systems	3-0-0	15 EC 3108	Design different RF-Filters based on stability and gain Develop different types of RF amplifiers Demonstrate the radiation mechanism and antenna parameters Distinguish different types of radiation from apertures Select the antennas and arrays based on the specific application Evaluate the antenna performance with measurement techniques	2 2 2 2 2 2	2 2 2 2 2	Students acquires the skill to work microwave systems and microwave communication systems.
40	15 EC 4163	Radar and Navigational AIDS	3-0-0	15 EC 3108	Compare different types of radars and their limitations Illustrate the operation of MTI Radar and types of tracking methods Differentiate different radar transmitters and receivers Compare different types of electronic counter measures	2 2 2 2	2 2 2	Students acquires the skill regarding the analysis and design of radar systems that required for core jobs.
41	15 EC 4164	Microwave and millimeter Wave Circuits	3-0-0	15 EC 3209	Differentiate different Microwave components Identify transformers and microwave resonators Design different microwave filters Distinguish microwave and millimetric wave circuits	2 2 2 2	2 2 2	Students acquires the skill to work microwave systems and microwave communication systems.

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42	15 EC 4165	EMI/EMC	3-0-0	15 EC 3108	Describe the EMI specifications and standards Demonstrate the EMI control techniques and design guidelines Distinguish different passive components for EMC Evaluate the EMI measurements using different techniques	2 2 2 2	Retained	Students acquires the skill to work microwave systems and microwave communication systems.
43	15 EC 4166	Cellular Communication	3-0-0	15 EC 2205	Demonstrate different wireless communication systems and radio propagation mechanism Distinguish different equalizers and diversity techniques in propagation Illustrate different wireless communication system standards Select OFDM in the channel estimation and implementation	2 2 2 2	Retained	Students acquires the skill regarding the analysis and design of cellular systems.
44	15 EC 4167	Satellite Communication	3-0-0	15 EC 3108	Demonstrate the basic concepts of satellite communication and orbital mechanics Illustrate the satellite subsystems and link design Interpret transmitters and receivers usage in tracking and error control mechanism Develop the GPS based navigation system	2 2 2 2	Retained	Students acquires the skill regarding the analysis and design of satellite systems
45	15 EC 4168	Optical Communication	3-0-0	15 EC 2205	Dramatize the importance of optical communication	2	Retained	Students acquires the skill regarding

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VANDRESWARAM















4154	MEMS Technology	3107	technology and Micro system design																the skill regarding the applications of MEMS technologies
			Analyze the fabrication process methods and micro system level packaging																
			Study of the switching devices for MEMS devices.																
			Study of the Actuation mechanisms for MEMS devices																
			Understand the VLSI design methodologies and design rules																Students acquires the skill regarding the applications of CAD for VLSI design
			Analyze the basic concept of floor planning, routing and simulation																
			Study of the modeling process																
			Study of the synthesis process																
			Understand the basic concept reliability and modeling of faults as a requisite for achieving manufacturing quality of semiconductor devices and then identifies difficulties in VLSI testing																
			Analyze the fault tolerant system can be viewed as a design moving through different abstraction levels, a historical view of the development of VLSI system																
			Study of the test pattern generation for BIST architectures																
			Study of the specific BIST architectures																
15 EC 4155	CAD for VLSI Design	3-0-0																	
15 EC 4156	Design for Testability	3-0-0																	
61																			

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62	15 EC 4157	Design of Semiconductor Memories	15 EC 3107	3-0-0	Understand the basic semiconductor memories and memory technologies  Analyze the fault modeling, testing of ICs, memory reliability and radiation effects  Study of the advanced Memory Technologies  Study of the High-Density Memory Packaging Technologies	2  2  2  2	2  2  2  2	2  2  2  2	1  1  1  1	Added	Students acquires the skill regarding the design of semiconductor memories
63	15 EC 4158	Low Power VLSI Design	15 EC 3107	3-0-0	Understand the sources of Power dissipation and approaches to minimize the power dissipation  Analyze the functionality of Analog and Digital power analysis  Study of the low power system, clock distribution  Study of the different Algorithms & Architectural Level Methodologies	2  2  2  2	2  2  2  2	2  2  2  2	Retained	Students acquires the skill regarding the design of LOW power VLSI circuits	
64	15 EC 4159	Nano Electronics	15 EC 3107	3-0-0	Understand the recent and past challenges of microelectronic devices  Analyze the Nano computer architectures and fabrication techniques  Study of the Ferro electric thin film properties and gas sensors  Study of the gas sensitive FETs	2  2  2  2	2  2  2  2	2  2  2  2	1  1  1  1	Added	Students acquires the knowledge and skill regarding the physics of nanoelectronics
65	15 EC 4160	VLSI Sub System Design	15 EC 2204	3-0-0	Understand the different design and programmable design techniques	2	2	2	2	Added	Students acquires the knowledge

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66	15 EC 4161	VLSI Technology	3-0-0	15 EC 3107	Analyze the different memory and array subsystems						2	2	Students acquires the knowledge and skill regarding the fabrication processes of VLSI circuits
					Study of the power and clock distribution for systems						2	2	
					Study of the custom, cell based design methodologies						2	2	
					Understand the basic fabrication process and maintenance of Clean Rooms and Wafer Cleaning process					2			
					Analyze the techniques to deposit various films by using Chemical Vapor Deposition						2	2	Added
					Analyze the techniques to deposit various films by using Physical Vapor Deposition and Multilevel Metallization Techniques					2	2		
					Study of the Rapid Thermal Processing Techniques and Etching Process					2	2		



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# MINUTES

Name of the meeting' Board of Studies

of ECE Department

held on 15/12/2016, at 3:20 A.M./P.M. under the chairmanship of Sri ASCS sastry

at Department Library of ECE

The BOS meeting of ECE department was held on 15/12/16 in the Department library to approve the following agenda

1. Syllabus/content modification of Analog Electronic Circuit Design (15EC2103)

The following members were present

1) Dr. A.S.C.S. Sastry Chairman-BOS


2) B.L. PRAKASH AIE-HOD - 

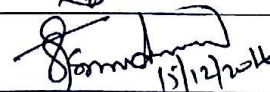
3) Dr. Habibullah Khan - Dean-SA

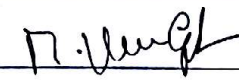
4) Dr. T.V. Ramakrishna -

5) Dr. K.S. Ramesh -

6) Dr. K.S.N. Murthy - 

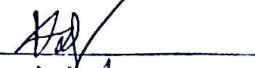
7) Dr. S. Lakshmi Narayana -  15/12/2016

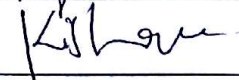
8) Dr. K. Sarat Keeravani -  15/12/2016


9) Dr. M.V. Gopala Rao - 

10) Dr. D. Venkata Ratnam - 

11) Dr. G.V. Subba Rao - 

12) Dr. K. Kumar Naik - 

13) Dr. P. V.V. Kishore - 

14) Dr. B.T. Prasadhaas - 



# BOOK

1. General Body, Board or as the case may be.
2. The name of the Company.
3. The place at which the meeting was held.
4. At the end of the minutes. Chairman to sign mentioning the number of correction made, if any, in recording the minutes of the meeting.

15) Dr. S. Koteswara Rao

16) Dr. K. Srinivasa Rao

17) Dr. K. Ch. Srikanth

18) Dr. B. Polalah

19) Dr. V. Rajesh

20) Dr. Yogesh Misra

21) Dr. D. Bhattakarya

22) Mr. M. Venkate Narayana

23) Mr. D. S. Ram Kiran

*Prof.*  
*[Signature]*  
*Prism*  
*[Signature]*  
*[Signature]*  
Professor & Alternate HOD  
Department of ECE  
K L University  
VADESWARAM  
Guntur Dt., A.P., India.

1) The members felt that there can be modifications either in the content by proper training or there can be change in the modalities of the course delivery.

2) It is resolved that the members come up with suitable justifications for modification by the next BOS meeting and there can be deliberations for the change from the next academic year.

KL UNIVERSITY  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**MINUTES OF THE BOARD OF STUDIES MEETING**

Board of Studies of the Department of Electronics and Communication Engineering met on 15<sup>th</sup> December 2016 in the Department Library to discuss the follow the issues related to the changes / modifications required in the curriculum for the coming semester/s and came out with the following resolutions:

1. The course of Analog Electronic Circuit Design (15 EC 2103) was being felt as a heavy course (content wise) by the students.

The members felt that there can be modifications either in the content by proper trimming the same or there can be a change in the modalities of the course delivery.

Hence it was resolved that the members come up with suitable justifications for modifications by the next BOS meeting and the can be deliberations for the change from the next academic year.

Sl. No.	Name of the Faculty	Designation	Signature
1	Dr.Habibulla Khan	Dean - SA	
2	Dr.A.S.C.S.Sastry	HOD	
3	Prof B L Prakash	Professor & A.HOD	
4	Dr.T.V.Rama Krishna	Professor & Asso.Dean	
5	Dr.K.S.Ramesh	Professor	
6	Dr.K.S.N.Murthy	Professor	
7	Dr.S.Lakshmi Narayana	Professor	
8	Dr.K.Sarat Kumar	Professor, Dean (P&D)	
9	Dr.M.Venugopal Rao	Professor, Asso.Dean	
10	Dr.Venkata Ratnam D	Professor	
11	Dr.G.V.Subbarao	Professor	
12	Dr.K.Kumar Naik	Professor	
13	Dr.P.Venkat Vijay Kishore	Professor	
14	Dr.B.T.P.Madhav	Professor	
15	Dr.Ranjan Kumar Senapati	Professor	
16	Dr.S.Koteswararao	Professor	
17	Dr.K.Srinivasarao	Professor	
18	Dr.K.Ch.Sri Kavya	Professor & A) Dean.	
19	Dr.B.Polaiah	Professor	
20	Dr.V.Rajesh	Professor & Principal ASC	
21	Dr.Yogesh Misra	Professor	
22	Dr.Debmalya Bhattacharya	Professor	
23	Mr. M.Venkat Narayana	Assoc Prof	
24	Mr.D.S.Ram Kiran	Assoc Prof	

25. Dr. D. Govardhani Prof & A) Dean

Chairman, BOS (ECE)  
CHAIRMAN, BOS  
DEPARTMENT OF ECE



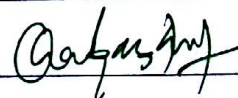
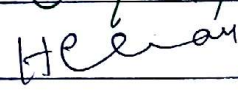


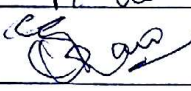

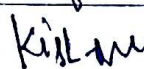

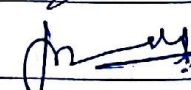
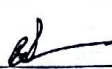
# MINUTES

Name of the meeting' BOS meeting  
of ECE department  
held on 10<sup>th</sup> Jun 2017, at 10:30 A.M./P.M. under the chairmanship of Sri Dr. ASCS Sastri  
at department library of ECE

This BOS meeting was held on 10th June 2017 at Department library of ECE. The Agenda points are attached here

- 1) modifications to the 2015-16 curriculum
- 2) curriculum structure/content for 2017 admitted batch
- 3) DAC recommendations are approved for regulation 2017

The Following members were Present

- 1) Dr. ASCS Sastri Chairman - BOS - 
- 2) Dr. Habibulla Khan Dean - SA - 
- 3) Dr. V. Ramesh Principal - ASC - 
- 4) Dr. M. Venjagarajoo P&P Assoc. Dean - 
- 5) Dr. G.V. Subbarao Professor - 
- 6) Dr. K. Srinivasakao P&P MEMS R6 Head - 
- 7) Dr. P.V.V. Kishore P&P Signal Processing R6 Head - 
- 8) Dr. D.V. Ratnam Professor - 
- 9) Dr. P. Satyanarayana Professor & All. Head - 
- 10) Dr. B.T.P. Madhan Professor & CSRG Head - 

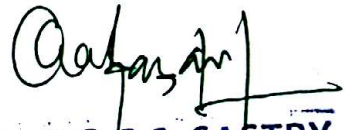


Minutes of the meeting of BOS held on 10<sup>th</sup> June 2017

- 1) It is resolved to approve the modification suggested for the course of signal analysis (15EC2002) as per the attachment
- 2) It is resolved to approve the modifications in the curriculum for the course of signal processing (15EC2206) as per the attachment

These modifications are effective from 2015-16, 16-17 regulations and these changes are made keeping in view the continuity and the knowledge depth required by the student.

- 3) It is resolved to introduce modified course on Introduction to electronic engineering with emphasis on laboratory oriented practice and introduction to the basic concepts of electronics (Handout attached).
- 4) It is resolved to introduce a new core course in the area of internet of things based on the feedback from industry and academic peers.  
A Course "Internet of things and Sensor Instrumentation" is proposed for the 2017-18 batch. (Syllabus attached).

  
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