

Odd Semester 2014-15

Minutes of Board of Studies (U.G. EEE) P.G. (PSE and CFI) towards approval of all BE/M.E Courses held on 08/11/14 Time 9.30 AM to 2.00 PM.
 Venue: EEE Seminar Hall

M/s. Members Present: Expert members / Faculty of EE

S.No	Name	Signature
1)	S. Arul Daniel Prof / EEE NITT, Trichy-15	Arul Daniel
2)	P. SRINIVASARAGHAVAN TVSM, Hosur	P. Srinivasaragavan
3)	V. JAYARAJ DHANAGAR TVE MOTOR CO. LTD	V. Jayaraj
4)	J. SUNDARA RAJAN C. P. R. I, B'ire	J. Sundara Rajan
5)	PREM KUMAR P., G. E. (G.R.C). B'ire.	P. Premkumar
6)	Abhishek Jain S (Honeywell Medinisi)	Abhishek Jain
7)	N. SIVA KUMARAN, Assoc. Prof. / ICE NIT-T, Trichy-620015	N. Sivakumar
8)	V. Malathi Prof / EEE APRO Madurai	V. Malathi
9)	CHANDRAMANI, Prof, NIT Trichy	Chandramani
10)	V. Chandra Sekar CDAC Tirunelveli	V. Chandra Sekar
11)	M. N. Murthy, NPII, B'ire	M. N. Murthy
12)	V. RAMANATHAN	V. Ramanathan
13)	Dr. N. KAMARAJ	N. Kamaraj

B.O.S. Meeting on 08/11/2014

S.No.	Name	Signature
	(Internal)	
14)	Dr. C.K. Babulal	C.K. Babulal
15)	B. Ashok Kumar	B. Ashok Kumar
16)	Dr. M. Saravanan	M. Saravanan
17)	A. J. BASKAR	A. J. BASKAR
18)	S. PASKUMAR API chemistry	S. PASKUMAR
19)	A. V. PRAKASH	A. V. PRAKASH
20)	Dr. P. VENKATESH	P. Venkatesh
21)	C S SENTHIL KUMAR	C S SENTHIL KUMAR
22)	Dr. S. CHARLES GISA	S. CHARLES GISA
23)	R. RAJAN PRAKASH	R. RAJAN PRAKASH
24)	Dr. S. LATHA	S. LATHA
25)	Dr. P. RENUKA	P. RENUKA
26)	Dr. M. GEETHANJALI	M. GEETHANJALI
27)	Dr. D. NELSON Jayakumar	D. NELSON Jayakumar
28)	Dr. K. Selvi	K. Selvi
29)	Dr. R. HELEN	R. HELEN
30)	P. Vairav Prakash	P. Vairav Prakash
31)	Dr. S. Anokha Edwin Xavier.	S. Anokha Edwin Xavier.
32)	V. SEETHA RAMAN	V. SEETHA RAMAN
33)	V. Mahesh	V. Mahesh
34)	G. SWASANKAR	G. SWASANKAR
35)	M. VARATHARAJAN	M. VARATHARAJAN
36)	Dr. A.P. PUSHPACATHA	A.P. PUSHPACATHA
37)	Dr. D. KAVITHA	D. KAVITHA
38)	A.L. Subramaniam	A.L. Subramaniam
39)	Dr. V. SARAVANAN	V. SARAVANAN
40)	Dr. P.S. MANOHARAN	P.S. MANOHARAN
41)	R. Medetharam	R. Medetharam
42)	Dr. V. Suresh Kumar	V. Suresh Kumar
43)	Dr. L. Jessi Sahya Shanthi	L. Jessi Sahya Shanthi

B.O.S. Meeting

- Chairman - BOS welcomed all the members and introduced the new members included in UG & PG board to the members. Also mentioned the agenda of the meeting.

AGENDA-1:

* Passing of new elective courses for VIII Sem (2011 batch) B. E. EEE

1. Mr. G. Sivasankar, APEE, presented the course "EC5 - Industrial Electrical and Electronics" and highlighted the development of content along with TVSM - SMEs.

Mr. P. S. Raghavan, TVSM explained the importance of content to make the students job ready.

Dr. S. Anil Daniel, NITR suggested to modify the topic of 3rd module as "Architecture of Machine Controls".

Dr. M. N. Moorthy, NPTI suggested to mention 1 credit for practicals as the course partly handled in the site/practically.

Mr. S. Abhishek Jain, Honeywell suggested to include communication protocols. (But it is covered in RTOS / Embedded Sys. Design Courses)

Dr. V. Chandrasekar, CDAC, suggested to include 'EAG' course as prerequisite.

Board passed the course with the above suggestions.

2. Dr. S. A. E. Xavier, APEE, presented the course "EC6 - Manufacturing of Automotive Electrical and Electronic parts".

Dr. V. Chandrasekar mentioned to include "understanding of PCB design and layout" before manufacture of PCB in the 3rd module.

Dr. M. N. Moorthy asked to mention "Miniprojects from II to VIII Semesters" as a prerequisite and also to mention 1 credit for practical.

3. Mr. R. Madhuswaran, ^{APEE,} presented the course "EC7 - Testing & Certification of Automotive Electrical and Electronic Systems" and also mentioned that the course will be handled and delivered by ARAI, pune.

Dr. V. Chandrasekar, clarified that, Testing standards covers the vibration and measure of Split in power consumed by different parts of the system. Dr. S. J. Dhinagar, TVSM answered that its all part of standards and included.

Dr. N.N. Moorthy suggested to have 1 credit for practical and also to mention the Certification level (International and Indian Standards - as the 1st Module topic). Also to mention word "Certification" in the other Modules.

Board passed the above courses with the suggestion mentioned.

AGENDA-2:

* Passing of OBE Curriculum & Syllabi for II Semester B.E. EEE (2014 batch onwards) degree programme:

Dr. S. Bastari - Programme Coordinator (B.E. EEE) presented the OBE importance and articulation of Vision, Mission, PEU, POs, COs and design of scheduling of Courses. Also presented the template of course, Specialization of B.E. EEE and introduced the each domain coordinators (Dr. VS, Dr. MS, Dr. SSK; Dr. VSD) to the Board.

Dr. S. Anil Daniel suggested to replace the word "Capable applicants" by "individuals" in the Vision Statement.

Dr. J. Sundaram Rajan, CPE suggested to replace the "Societal needs" by "technology needs of the society" in the Vision

Dr. C. Naganani, MTE, change the word "Engineer" to plural form. + Vision & Mission Statement of EEE Dept is passed by the Board.

Dr. S. Bastari highlighted the credit distribution among various categories, No. of core & gen. electives, Capstone courses, research oriented course, Heavy Lab practical course.

Dr. V. Malathi, AU suggested to rename the course "14EE630" as "Power System" instead of "Electric Power Transmission System".

Dr. P. S. Rajeshwar, TVME suggested to rename the course title "14EE250" as "Analog Devices and Circuits" instead of "Analog and Digital ^{electronic} devices" as there is no digital electronics in the content. Also to make some change in the lab course.

Dr. C. Naganani mentioned to include "Capstone course" in Programme core instead of Engg. Science category.

* Board approved the credit distribution, scheduling of courses II to VIII semester and asked the faculty to prepare the list of elective courses under each specialization.

B.O.S. Meeting

- Dr. A.P. Pushpalatha, AP Maths, presented course "14MA210 - Engineering Mathematics - II"

Dr. S. Barker reported that, the faculty of EEE listed the topic ~~course~~ of maths required for ~~with~~ the specialization in B.E. EEE courses based on COs arrived. The consolidated topics is given to Maths Dept. to design the Maths courses for B.E. EEE degree programme. Accordingly the Maths Dept. came with 4 maths courses from II to V semester.

Dr. M.N. Moorthy & Mr. P.S. Raghavan suggested to cover the Maths topics required for core courses before core content commences.

Dr. S. A. Daniel mentioned that, while taking tutorial classes, EEE faculty may be asked to give problems based on core courses, so that the student can understand the application of maths in core subjects.

- Dr. A.L. Subramanian, AP physics, presented the course "14EE220 - Materials Science for Elec. Engg." and mentioned that the content is developed based on COs and requirements given by EEE faculty.

Dr. J. Sundara Rajan, suggested to include "Thermal conductivity, Temperature classification" in the Dielectric materials and also to mention about the various solid, liquid and Gases dielectric materials.

Dr. V. Chandrasekar mentioned that, in Semi conducting materials to include "Silicon Carbide and Gallium N"

Dr. M. N. Moorthy suggested to include Mechanical strength of all materials

Mr. P. S. Raghavan mentioned to include "Materials for MEMS" in New Engg. Materials

Dr. S. A. Daniel requested to include a book by "Alex Gold - Magnetic Material" in the reference and also to find books for each materials separately.

- Dr. S. Rajkumar AP Chemistry, presented the course "14EE230 - Environmental Science and Ethics" and mentioned that, as per EEE faculty suggestions and COs given the content is develop

- Mr. S. Abishekh Jain suggested that student can be asked to do mock audit in the college campus for ISO 9001/14001 standards and consider the work for assignment marks.
- Mr. P. S. Raghavan suggested to include OHSAS standard and IT security and social network issues in ethics, or those topics can be delivered by Experts as guest lecture.
- Dr. R. Rajamprakash, APEE presented the course "14EE240 - Electromagnetic fields"
 - Mr. S. Abishekh Jain mentioned to lecture about how the wire, twisted wire, coaxial cable are differing by inductance & capacitance.
 - Dr. V. Malathi clarified about the principle of operation of generator & transformer.
 - Mr. P. S. Raghavan suggested to include EMI/EMC - Introduction, and Testing standards. and also to include impact of materials in the field and boundary relations.
 - Dr. M. Saravanan, PEE, presented the course on "14EE250 - Analog devices and circuits"
 - Dr. V. Chandrasekar mentioned that, ICs available in the market for various applications to be included.
 - Dr. S. Baskar reported that for CAT3 - Rubrics to be designed.
 - In the course "14EE280 - Analog devices and circuits lab" Mr. P. S. Raghavan suggested to include new devices in place of IC 555
 - Dr. C. K. Babu, APEE, presented the course "14EE270 - Electric circuit analysis"
 - Dr. S. A. Daniel suggested to include the books: Sadiku, Schauer series, Stanley as reference books.
 - Mr. P. S. Raghavan suggested to include Matlab in Lab section.
 - Dr. N. Kamaraj presented the course "14EE290 - Workshop"
 - Board approved all the above courses with the suggestions mentioned above.

* AGENDA-3

Passing of core and elective courses of I to IV semester of M.E. PSE degree programme (2014-15 onwards):

- Dr. P. Venkatesh, Assoc. Prof., presented the design of OBE Curriculum - DEOs, POs, COs, Scheduling of Courses, Core and elective courses for M.E. PSE degree programme (I to IV sem.)

Dr. M. N. Moorthy, Dr. J. Sundara Rajan & Dr. S. A. Daniel suggested that to include the course like HVDC, WAMS, EMS either in core or elective.

Dr. M. N. Moorthy mentioned to include the topic "Multiterminal" in HVDC

Dr. S. A. Daniel suggested to include book by Miller for Reactive power control

Dr. J. Sundara Rajan mentioned that, "Scheduling and dispatch of DGS" to be included in Distributed Generation systems

Dr. V. Chandrasekar suggested that, in the course "FACTS", to mention in SVC as "thyristor based VSC"

Dr. M. N. Moorthy told that, if possible DGS and Renewable Energy sources courses can be combined.

In the course "Soft Computing" CAT3 assessment can be made as practical test.

Board approved the courses with all the suggestions mentioned.

* AGENDA-4:

passing the Curriculum and Syllabi for I to IV Semesters for M.Tech. C&I degree programme (2014-15 onwards)

- Dr. V. Prakash, Assoc. Prof., presented the design of OBE Curriculum - DEOs, POs, COs, Scheduling of Courses, Core and elective courses for M.Tech. C&I degree programme (I to IV Semesters)

Dr. N. Shivakumaran, NITR, suggested that the course "Advanced Instrumentation System" can be renamed as "Industrial Data Communication" and "Advanced Ind. controller" as "Industrial controller". Also to include "Wireless Instrumentation" as a new elective.

Dr. S. J. Dhinagar suggested to introduce new electives:

Autonomous vehicle, Virtual control

Dr. P. S. Raghavan mentioned that a course on "Model Based Engineering" may be introduced

Dr. S. A. Jain mentioned that topics like, "Internet of things"

" protocol issue " to be addressed.

Dr. N. Shivakumaran told that a new elective " Medical Imaging System " to be added.

In Bio-Medical course, Module 3, 4 & 5 can be compressed, topic on " Telemedicine " and " Standards " can be added.

Also to include " Therapeutic Devices "

In the " Digital System design with PLDs & FPGA " - old topic can be removed

In the course " SCADA " - interfacing PLC & SCADA; Robotics control, CNC control can be added; basic of PLC can be removed.

Members also suggested to group the electives in to specialization streams based on target industry.

In the course " Power plant Instrumentation " to mention about SO_x & NO_x gas analyser.

Mr. P.S. Raghavan told that the course " MEMS " is exhaustive, the topic COMSOL can be added.

In the course " Robotics " programming to be included.

In the course " RTOS " - Android & Linux based embedded system as one module to be included, suggested by S. A. Jaim

Members also suggested to include case studies in all the courses, & that students will find an interface with industries.

Board approved all the courses with the suggestions mentioned.

Chairman concluded the meeting with the Vote of Thanks.

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Even-~~ODD~~-Semester 2014-2015

EEE Dept. Seminar Hall

Minutes of Board of Studies (UG + PG) towards Approval of all B.E / M.E Course held on 11/4/15 at 9:30 AM Saturday EEE Department

Seminar Hall:

S. no.	Name	Signature
1)	Dr. N. Kamasaj	
2)	P. SRINIVASARAGHALLA	
3)	Dr. N. SIVALKUMARAN	
4)	Dr. V. Channabasabai (Joint Director)	
5)	Dr. X. Malathi (Deputy Director)	
6)	Dr. ARHISEKH JAIN.S	
7)	Dr. P. Hem Kumar	
8)	Dr. D. BASKAR	
9)	Dr. V. SARAVASAN	
10)	Dr. V. Suresh Kumar	
11)	Dr. M. GEETHANJALI	
12)	Dr. D. Nelson Jayakumar	
13)	V. Seetharaman	

B.O.S. Meeting on 11/04/15

<u>S.No</u>	<u>Name</u>	<u>Signature</u>
14)	S. LATHA	S. Latha
15)	L. JESSI SAHAYA SHANTHI	L. Jessi
16)	R. KAVITHA	R. Kavitha
17)	K. SELVI	K. Selvi
18)	R. HELEN	R. Helen
19)	V. Ramanathan	V. Ramanathan
20)	V. Prakash	V. Prakash
21)	P. Venkatesh	P. Venkatesh
22)	S. Anickia Edwin Xavia	S. Anickia
23)	G. Sivasankar	G. Sivasankar
24)	S. Jeyabharathi	S. Jeyabharathi
25)	B. Ashok Kumar	B. Ashok Kumar
26)	P. Vairaprakash	P. Vairaprakash
27)	N. Shanmuga Vadi Voo	N. Shanmuga Vadi Voo
28)	P. S. MANOHARAN	P. S. Manoharan
29)	DR. S. CHARLES RAJA	Dr. S. Charles Raja
30)	R. MEDESWARAN	R. Medeswaran

Minutes:

- * HOD welcomed the members and briefed the agenda of the meeting and shared vision, mission, Po's and P&I of dept.
- Eng. Mathematics III:
 - Dr. Jayabharthi explained the course outcomes and content to the members.
 - Heat flow problems in P.B and other electrical subjects may be included. Introduction to wave eqn may be added.
- UES320 - Transformers
 - Dr. V. Saravani briefed the course outcomes and details of the content before the board.
 - High freq. transformer may be included for low power applications.
 - Third test ~~may~~ should not be restricted to summer only. They can be given semester options.
 - Practical design problems may be given as challenge problems and discussed in the class.
- UES330 - D.C Machine
 - Dr. Lakshmi presented the ^{with instructions that} Co's and content.
 - Syllabus packed, exp. not conductor in lab to dem with theory.
- UES340 - Measurements
 - * Dr. M. Anithapali briefed the content of the syllabus.
 - * Specific applications of bridges should be mentioned.
 - * Integrals of θ/w & ϕ/w for short applications like vector instrumentation.
 - * 1.3. & 1.5 should be added in the respective topics.
 - * Electrical parameters, tolerance and selection of meters based on this can be added.
 - * Introduction to electrical parameters should be included in the first unit.
- UES360 - Digital Systems
 - Dr. R. Helen explained the content.
 - IC fabrications should be removed.
 - CO7 may be covered in penultimate.
 - Simple circuit designs may be added.

- first five co's are too elaborate may be reduced.
- detail of co's, Asynchronous & problems may be added.
- Digital Systems Lab
 - IC testing & key board interface may be added
- UBE 320: Problem Solving
 - HOD based presented the subject.
 - Syllabus based.
- D.C. Machine Lab
 - Dr. Pralash presented the list of the Experiments.
- CBCS Syllabus
 - HOD Briefed the proposal.
 - One credit from Discrete should be continued.
 - Industrial credits may be included.
 - Hon's degree may be given.
 - Degree with specialisation in a particular topic (eg Embedded) may be given.
- Revision of PBO's for M.B. (PSE) & M.Tech (C&Z)
 - * HOD presented the revised PBO's.
 - * It is clarified that PBO's are measured only after 3 yrs from the completion of the course.
 - * Audit course or one credit course may be given to fulfill certain PBO's.