Department of Electrical & Electronics Engineering  
NIE, Mysore - 8  
Seventh meeting of Board of Studies  
28th June, 2014 (Saturday)  

List of members of Board of Studies:  

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Dr. H.V. Saikumar  
(Chairperson)
AGENDA

1. To welcome the members of Board of Studies
2. To read and receive the meeting notice
3. To read and confirm the 6th BOS meeting held on 6th
4. To consider and approve:
   (i) Scheme of teaching and examination of 2nd to 8th semesters of the degree course of E&EE branch for the batch admitted during the academic year 2012-13.
   (ii) Syllabus of 3rd and 4th semesters of EE degree course of E&EE branch for the batch admitted during the academic year 2013-14.
   (iii) Syllabus of 5th to 6th semesters of EE degree course of E&EE branch for the batch admitted during the year 2012-13.
   (iv) Syllabus of 1st and 2nd semesters of EE degree course of E&EE branch for the batch admitted during the academic year 2011-12.
   (v) Scheme of teaching and examination of M.Tech (Power Systems) degree course to be effective from the academic year 2014-15.
   (vi) Syllabus of 1st to 4th semesters of M.Tech (Power Systems) degree course to be effective from the academic year 2014-15.
   (vii) Scheme of teaching and examination of M.Tech (CP & P) degree course to be effective from the academic year 2014-15.
   (viii) Syllabus of 1st to 4th semesters of M.Tech (CP & P) degree course to be effective from the academic year 2014-15.
   (ix) The revised syllabus of Basic Electrical Engineering (BE 0481).
5. To consider and approve the defined PS Program Educational Outcomes & Programme Outcomes (V4.20) of UG and PG Tech (PS & CME) courses based on feedback received from the stake holders.
6. Any other item
discussed thoroughly and accepted without any
change.

In several, all the external fee committee
members gave the following suggestions with regard to the
BE degree course:

(1) while deciding an elective for BE the department
can create the syllabus under an area meaningful
to electrical discipline.

(2) the members appreciated that the fundamental

courses be well covered in the BE program on
EE & EECE. They felt that an integrated organisation
from industry would benefit all stake holders.

(3) it was also suggested that to ensure that the

detailed syllabus is completely covered by the
suggested text books.

(4) scheme of teaching & examination of project
and degree courses to be effective from the academic
year 2014-15 was presented.

(5) syllabus of 1st to 4th semester of project
therefore degree courses to be effective from the
academic year 2014-15 was presented and
accepted after a thorough deliberation with the
following suggestions:

(a) A course on 'Project management' could be introduced
(meaning paper II semester) for 02 credits.

(b) A course on 'Integration of renewable' could be introduced.

To introduce a lab component in Electrical Power
Quality for Power Systems course.

(VII & VIII) Scheme of teaching and syllabus
of 1st to 4th semester of project (EEE) could
be presented and accepted after a thorough
discussion with the following suggestions:

(a) To introduce a 02 credit course on 'Project
management' in the 2nd semester.

(b) Introduce a course on 'Renewable Energy'

Experat with a lot of content.

The content includes:  
1. A reference to the project "ELEC Controlled" by a
   indicates lack of availability.
2. The content begins: "Basic Electrical Engineering
   Level 1," was reviewed and accepted after a
   thorough discussion. The meeting affirmed that the
   fundamentals were well covered in the BEE (B.E.E.)
   programme and the "self-learning exercise." (SLE) is a good concept.
3. The draft, P.E.T, and ETV for the LC and M.T.
   (B.Tech. 2002-2003) were prepared and extended and
   approved with the following manifesto:
   A) Improved to modify the ETV 1989-90 by incorporating
   skill development as one of the key attributes alongside
   the knowledge development.
   B) The Vision & Mission Statements (V2.0) were extended and approved.
   
   The Chairman thanked all the members for
   attending the meeting, and taking part in
   the deliberations and giving valuable suggestions.

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# List of members of Board of Studies

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Dr. H.V. Saikumar  (Chairperson)  
27th June, 2015 (Saturday)
AGENDA

1. To welcome the members of Board of Studies.
2. To read and record the meeting notice.
3. To read and confirm the 7th BOS meeting held on 28th/14.
4. To consider and approve:
   i) Scheme of teaching and examination of 3rd and 8th semester of BE degree programme for the batch admitted during the academic year 2014-15.
   ii) Syllabus of 3rd and 4th semester of BE degree programme of E&EE branch for the batch admitted during the academic year 2014-15.
   iii) Scheme of teaching and syllabus of 5th & 6th semesters of BE degree programme of E&EE branch for the batch admitted during the year 2013-14.
   iv) Scheme of teaching and syllabus of 7th & 8th semester of BE degree programme of E&EE branch for the batch admitted during the academic year 2013-14.
   v) Scheme of teaching and examination of M.Tech (Power Systems) degree programme to be effective from the academic year 2015-16.
   vi) Syllabus of 1st to 4th semesters of M.Tech (Power Systems) degree programme to be effective from the academic year 2015-16.
   vii) Scheme of teaching and examination of M.Tech (CAID) degree programme to be effective from the academic year 2015-16.
   viii) Syllabus of 1st to 4th semester of M.Tech (CAID) degree programme to be effective from the academic year 2015-16.
   ix) The revised syllabus of Basic Electrical Engineering [EE-037]
5. To consider and approve the refined Programme Educational Objectives and Programme Outcomes of UG and M.Tech (PS & CAID) courses of the department based on feedback received from the stakeholders.
6. Any other academic issues.

Minutes:

1. The Chairman of BOS Dr. H.V. Saikumar welcomed the honourable members.
2. Dr. H.V. Saikumar read and recorded the meeting notice
and meeting agenda.
3. Read and Confirmed
4. (i) Approved
   (ii) Approved
   (iii) Approved
   (iv) Approved
   (v) Approved
   (vi) Approved
   (vii) Approved
   (viii) Approved
   (ix) Approved
5. Approved
6. The list of members of BOE was presented and approved.
7. Dr. H.V. Saikumar proposed vote of thanks.

[Signature]
22-6-2015
Department of Electrical & Electronics Engineering  
NIE, Mysuru - 8  
Ninth meeting of Board of Studies  
14th June, 2016 (Tuesday)  

List of members of Board of Studies:  

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Dr. N. Kumar  
(Chairperson)
Agenda:

1. To welcome the members of Board of Studies.
2. To read and record the meeting notice.
3. To read and confirm the 8th BOS meeting held on 3rd June 2015.
4. To consider and approve:
   a) Curriculum structure and condensed syllabus of UG program in Electrical and Electronics Engineering for the 2016 batch students.
   b) Revised syllabus of Basic Electrical Engineering and Introduction to Engineering Design for the 2016 batch students.
   c) Detailed syllabus of 3rd & 4th semesters of B.E degree program for the 2015 batch of students.
   d) Detailed syllabus of 5th & 6th semesters of B.E degree program for the 2014 batch of students.
   e) Detailed syllabus of 7th & 8th semesters of B.E degree program for the 2013 batch of students.
   f) Curriculum structure and detailed syllabus for the M.Tech (Power Systems) program for the 2016-18 batch students.
   g) Curriculum structure and detailed syllabus for the M.Tech (CAD/CAM) program for the 2016-18 batch of students.
5. To consider & approve the program specific outcomes of UG Program.
6. List of external members of BOS.
7. Any other academic issues.

Minutes:

1. The chairman of BOS Dr. N. Kumar welcomed the honourable members.
2. The meeting notice was read and recorded.
3. Read and confirmed the 8th BOS meeting held on 3rd June 2015.
4. Dr. UG Program Coordinator Mrs. R. Radhika presented the curriculum structure and concise syllabus for the 2016 batch of students. The structure and syllabus were approved, with some suggestions.
   Following suggestions were given by the BOS members:
   1. To split Analog Electronics laboratory as Basic Electronics lab
Annual IC's lab
To introduce Social Entrepreneurship & Innovation with focus on rural development.
To shift the subject Field Theory to 3rd semester.
Elective pool to be introduced instead of separate elective list for each.
Data structure & Algorithm subject to be introduced as a new elective (year-2).

5) Revised & expanded syllabus on Basic Electrical Engineering and Introduction to Engineering Design for the 2016 batch was presented & approved with the following suggestions:
   • Introduce a topic on specifications & rating of household electrical equipment in Introduction to Engineering Design course.
   • Detailed syllabus for 3rd & 4th semesters for the 2015 batch was discussed & approved by the BOS.
   • Detailed syllabus for 5th & 6th semesters for the 2014 batch was discussed & approved by the BOS.
   • Detailed syllabus for 7th & 8th semesters for the 2013 batch was discussed & approved by the BOS with the following suggestions:
   • To add Introduction to Nano science and Technology as a prerequisite to the Advanced course on Nano Technology.
   • To add Power System Analysis and Stability as a prerequisite to Power System Operation and Control.

The Curriculum structure & detailed syllabus for the 2016 M.Tech (Power Systems) program was presented by the program co-ordinator Dr. H.V. Salunkhe and approved by the BOS with the following suggestions:
   • Include a Power System oriented SCADA in PLC & SCADA subject.
   • Introduce a course on Energy Management System with a focus on Jones SCADA.
   • Include the modified SPWM in the subject Power Electronic Devices & Circuits.
   • Include topics on Non-linear systems & digital control systems in Advanced Control system course.
   • Include Design of DC reactor in HVDC Power Transmission course.
   • Replace the subject Special Electrical Machines by Energy Management Systems.
   • Include topics on societal needs in the Research Methodology course.
   • Include the topic on Intertie power flow controllers in the
main syllabus rather than as a SIIE topic in the ENTS course.

- Include topics on high tension low sag in the EHV AC course.
- Introduce courses on DSP Applications to Power Systems & Wireless Sensor Networks.

1) The curriculum structure & the detailed syllabus for 2016 M.Tech (CAID) program was presented by the program coordinator Sri S. Nagendra Prasad. The structure & syllabus were approved by the BOS with the following suggestions:
   - Include the modified SPDM in the subject Power Electronic Devices & Circuits.
   - Interchange Unit 2 & Unit 3 of the subject Design of Control Systems.
   - Modify the contents of Unit 1 of the subject Design of Control Systems.

3) Programme Specific Outcomes (PSO) of the UG program was presented & the BOS members suggested to modify & make PSO 3 & PSO 4 more specific.

6) The list of members of BOS was presented & approved.

7) Approval was also taken by the Chairman BOS, for the proposed M.Tech scheme & structure for the batch to join the institution during 2016.

The Chairman thanked all the members for attending the meeting, taking part in deliberations & giving valuable suggestions.
Department of Electrical & Electronics Engineering  
NIE, Mysuru - 8  
Tenth meeting of Board of Studies  
17th June, 2017 (Saturday)  

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Dr. N. Kumar  
(Chairperson)
Agenda:

1. To welcome the members of Board of Studies.
2. To read and record the meeting notice.
3. To read and confirm the 9th BOS meeting held on 11th June, 2016.
4. To consider and approve:
   a) Curriculum structure and condensed syllabus of UG program in Electrical & Electronics Engineering for the 2017-21 batch students.
   b) Blown up syllabus of Basic Electrical Engineering for 2017-21 batch students.
   c) Detailed syllabus of 3rd & 4th semesters of B.E. degree program for the 2016-20 batch of students.
   d) Detailed syllabus of 5th & 6th semesters of B.E degree program for the 2015-19 batch of students.
   g) Curriculum structure and detailed syllabus of the M.Tech. (CAID) program for 2017-2019 batch of students.
5. List of external members of BoE.
6. Any other academic issues.

Minutes:

1. The Chairman of BOS Dr. N. Kumar welcomed the honourable members.
2. The meeting notice was read and recorded.
3. Read and confirmed the 9th BOS meeting held on 11th June, 2016.
4. UG program co-ordinators Mrs. R. Podila presented the curriculum structure and concise syllabus for the batch of 2017-2021 students. The structure and syllabus were
with some suggestions.

5. Following suggestions were given by the BOS members:

a) By Dr. Nagesh Prabhu:
   - To mention the reference material for MOPCS in the syllabus.
   - Few special machines should be added in the subject DC machines & Transformers.
   - L-T-P of Field Theory subject to be revised to 2-2-0.
   - In Analog Electronics Circuits subject, MOSFET based units should be added.

b) By Dr. Seshar Kelapure:
   - Ambition of including electives based on the topic sequence.
   - Electro technique workshop should be conducted for the students to get the practical experience about the electrical appliances used in the household and industry.
   - Fees of the complex and advanced subjects should be taught by two faculty members.
   - Renewable Energy Sources subject can be made as a core subject in the 3rd & 4th semester, and the content part based on this subject can be taught in the following semesters.
   - DC machines subject should include all the topics related to complete DC systems for example starting from motors, generators up to HYDC transmission lines.
   - In the subject Electric Measurements and Instrumentation the concept of sensors for Smart Grid should be included in the 8th unit.

6. Mr. Sachin Angadi:
   - Refer the textbook "Microelectronics by Sedra & Smith" for framing the syllabus of AEC subject.

7. Blown-up syllabus of Basic Electrical Engineering for the 2017-2021 batch was presented and approved.

8. Detailed syllabus of 5th and 6th semesters for the 2016-2020 batch was discussed and approved by the BOS.
2016-2020 batch was discussed and approved by the BOS.
9. Detailed syllabus of 7th & 8th semesters for the 2016-2020 batch was discussed and approved by the BOS.
10. The curriculum structure and detailed syllabus for the 2017-2019 M.Tech. (Power Systems) was presented by the Program Coordinator Dr. H.V. Sai Kumar and approved by the BOS with the following suggestions:

a) By Dr. Nagesh Patil:
   - Final year projects can be mapped to PDP and financial analysis of projects should be a part of the project.
   - In the subject Photovoltaic System Engineering, MPPT techniques can be included.
   - IEEE standards for communication protocols can be included in the SLG.
   - In the unit 6th of Signal Processing for Smart Grid, application of wireless, get time-varying generation & load profile topic should be verified.

b) By Dr. Shekhar Kekre:
   - Workshops should be organised by the students to enhance their leadership skills.
   - Seminars should be arranged for few subjects.
   - Applied mathematics subject should include more concepts of Optimization Techniques, Linear Programming etc.
   - More advanced topics of SCADA should be taught instead of basics.
   - Few concepts like Signal Processing for Smart Grid, Transmission Line Simulator, State Estimation & Security should be linked with real-time examples.
   - More thrust on SCADA & EMS in the subject PLC & SCADA.

II. The curriculum structure and detailed syllabus for the 2017-2019 M.Tech. CCAID) were presented by the Program Coordinator Ms. S. Nagendra P. and approved by the BOS with the following suggestions:
9) By Dr. Nagesh Prabhu:
   - Mini project should be included in the IoT subject.
   - Subject on Electric Hybrid Vehicle as elective to be included.

b) By Mrs. Sachi Angadi:
   - Generalized Machines Theory as core subject should be included in the CAILD course.

10. The list of members of BOE was presented and approved.

The M.Tech. (CAILD) Program Co-ordinator Mr. S. Nagendra Prasad thanked all the members for attending the meeting, taking part in deliberations and giving valuable suggestions.
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Professor & HOD | [Signature] |
| Dr. H.V. Saikumar  
Professor | [Signature] |
| Dr. Rangilal  
Professor | [Signature] |
| Sri. S. Nagendra Prasad  
Associate Professor | [Signature] |
| Smt. Radha R  
Associate Professor | [Signature] |
| Dr. H. Pradeepa  
Assistant Professor | [Signature] |
| Dr. Gurunath Gurrula, Assistant Professor,  
IISC, Bangalore  
External member | [Signature] |
| Dr. Joda M Gonda, Associate Professor, NITK,  
Surathkal  
External member | [Signature] |
| Dr. G.K. Purushothama, Professor, MCE,  
Hassan  
External member | [Signature] |
| Dr. Narendranath Udupa, Director and  
Department Head, Philips Lighting Research  
Bangaluru  
External member | [Signature] |
| Ms. Pramitha Udupa, Philips electronics,  
Bangaluru  
External member | [Signature] |

Dr. N. Kumar  
(Chairperson)
Committee : Board of Studies

Minutes of the meeting held on 26/05/2018 (Saturday) at 11:00 am at Meeting Hall, NRN Block, NIE, Mysuru.

Members Present:

1. Dr. N. Kumar : Chairman
   Professor and HoD

2. Dr. H. V. Sait Kumar
   Professor

3. Dr. Bansilal
   Professor

4. Sri S. Nagendra Prasad
   Associate Professor

5. Smt. R. Radha
   Associate Professor

6. Dr. H. Pradeepa
   Assistant professor

7. Dr. R. Chidanandappa
   Assistant professor

8. Dr. Gurunath Gurmala
   Assistant Professor, IISc, Bangalore
   External member.
9. Dr. T. M. Gonda
   Associate Professor, NITK, Surathkal
   External Member.

10. Dr. G. K. Purushothama
    Professor, MCE, Hassan
    External Member.

11. Dr. Nanendranath Udupa
    Director and Department Head, Philips Lightning
    Research, Bengaluru
    External Member.

Members on Leave:
1. Ms. Prasanthi Udupa, Philips Electronics, Bengaluru
   External member.

AGENDA and RESOLUTION

1. To welcome the members of Board of Studies.
2. To read and record the meeting notice.
3. To read and confirm the 10th BOS meeting held on 17th June 2017.
4. To consider and approve:
   (a) Blown up Syllabus of Basic Electrical Engineering and Introduction to Engineering Design for 2018-19.
   (b) Curriculum structure and concise syllabus of UG program from 3rd to 6th semester for 2018-22 batch of students.
   (c) Blown up syllabus of 3rd and 4th sem of B.E. degree program for the 2017-21 batch of students.
   (d) Blown up syllabus of 5th and 6th sem of B.E.
Degree program for the 2016-20 batch of students.

(c) Blown up syllabus of 7th and 8th semester of B.E degree program for the 2015-19 batch of students.
(d) Curriculum structure and detailed syllabus for the M.Tech (Power systems) program for the 2018-20 batch of students.

(g) Curriculum structure and blown up syllabus of the M.Tech (CAD) program for 2018-20 batch.

5. List of external members of BOE.

6. Any other academic issues.

Minutes

1. The chairman of BOE Dr. N. Kumar welcomed the honourable members.

2. The meeting notice was read and recorded.

3. Read and confirmed the 10th BOE meeting held on 17th June 2017.

4. UG program coordinator Prof. R. Radha presented the curriculum structure and concise syllabus for the 2018-22 batch of students. The structure and syllabus were approved with some suggestions.

5. Following suggestions were given by the BOE members:

(a) By Dr. Josa M. Gonda.
   - To make the syllabus dynamic for each year.
   - Separate syllabus for Basic Electrical Engineering subject for first year electrical engineering students.
   - To rename the machines-I lab as DC Machines and Transformers lab and Machines
- SI lab as Induction and Synchronous machines
- To rename the mathematics subject according to the contents for all four semesters of U.G.
- Subject experts should teach humanities courses like management, economics, research methodology etc.
- Instead of elective groups per semester, six of electives can be given for the whole program.

(b) By Dr. G. K. Praveshothama
- Rename Digital circuits and computer fundamentals as Digital Electronics.
- Not necessary to assign prerequisites to core courses and it is only essential to electives.
- Include three-phase unbalanced system analysis in Electric circuits I.
- To justify allotment of 9 credits for 6 months internship in 8th semester.

(c) Dr. Gurunath Gurrala
- Programming in python should be introduced for first-year electrical students.
- High voltage engineering subject is to be made an elective and Power systems operation and control subject is to be made as core.
- To prepare unit-wise concise syllabus.
- To rename Reactive Power Compensation and FACTS as Reactive power control.

(d) Dr. Nanendranaththa Udupa
- C++ based assignments can be given in cut
E. M.Tech. (Power Systems): The curriculum structure and detailed syllabus for the 2018-20 M.Tech (Power Systems) was presented by the program co-ordinator Dr. H.V. Saikumar and approved by the BOS with following suggestions:

(a) By Dr. Tora M Gonda.
   - To reduce the syllabus of Advanced Engineering Mathematics.
   - To evaluate the project separately excluding it from calculating CGPA.
   - Instead of elective groups per semester, single list of electives can be given for the whole program.

(b) Dr. Gurunath Gummala.
   - To include industry in Programme Educational Objective 2.
   - Merge the subjects FACTS and HVDC.
   - To include a core subject on Power Electronics with applications to power systems.
   - Generalised Electrical Machines can be taught for both Power Systems and CAIDA programmes.

F. M.Tech (CAIDA): The curriculum structure and detailed syllabus for the 2018-20 M.Tech (CAIDA)
was presented by the Program Co-ordinator Prof. S. Nagendra Prasad and approved by BOS with the following suggestions.

1. Dr. Gurunath Gournala
   - To introduce SEC Standards as a part of course and bring an expert to teach and make it compulsory for students to attend it.
   - To include Industry in Programme Educational Objective 2.
   - To merge the subjects DSP Architecture and Applications and Embedded Systems.
   - Introduce a subject on Semiconductor physics and devices.
   - Introduce a subject on Distributed generation.

2. The list of members of BOS was presented and approved.

The M.Tech (CAID) Program Co-ordinator Prof. Nagendra Prasad thanked all the members for attending the meeting, taking part in discussions and giving valuable suggestions.

Radha R.
Member Secretary

N. Kadapa
26/5/18