

Department of Mechanical Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

8th Board of studies Meeting in the Department of
Mechanical Engineering

Venue: Conference Hall,
National Engineering College,
K.R.Nagar, Kovilpatti – 628 503

Date & Time: 25.11.2017 & 10.30 a.m.

Agenda

| | | |
|----------------|---|---|
| BoS / MECH 8.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Mechanical Engineering |
| BoS / MECH 8.2 | : | Confirmation of the Minutes of the 7 th meeting of Board of studies in the department of Mechanical Engineering held on April 01, 2017 and Action taken report of 7 th meeting of Board of studies |
| BoS / MECH 8.3 | : | Business brought forward by the Chairman, Board of studies 8.3.1. Refinement of course outcomes in R-2015 UG- Curriculum 8.3.2. Inclusion of elective course in R-2015 UG –Curriculum 15ME44E New Product Development 8.3.3. Modification of elective course in R-2015 UG –Curriculum 15ME61E Fundamentals of Nano Technology 8.3.4. Inclusion of elective course in R-2015 PG (Energy Engineering) Curriculum 15EN27E Research Methodology 15EN28E Design of Experiments |
| BoS / MECH 8.4 | : | Suggestions given by the BOS Members |
| BoS / MECH 8.5 | : | Any other items |

Department of Mechanical Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

F. No. 1-1/NEC/ MECH

25th November, 2017

Dear Sir/Madam,

**Sub: Minutes of the 8th Meeting of the Board of studies in the Mechanical Engineering
- Reg.**

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 25th November 2017 at 10.30 a.m. in Conference hall, National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodmech@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely



(Dr.K.Kalidasa Murugavel)

Department of Mechanical Engineering

MINUTES of 8th Meeting of the Board of studies held on
25th November, 2017 at 10.30 a.m.

Venue: Conference Hall, National Engineering College, K.R.Nagar,
Kovilpatti – 628 503

Department of Mechanical Engineering

MINUTES OF THE MEETING

The 8th Meeting of the Board of studies of the Mechanical Engineering was held on 25th November 2017 at 10.30 am in the Conference Hall, National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

| | | |
|-----|---|---|
| 1. | Dr.K.Kalidasa Murgavel Prof & Head | Chairman |
| 2. | Dr. D.Ravindran, Professor | Internal Members |
| 3. | Dr.K.Manisekar, Professor & Dean (Academic) | |
| 4. | Dr.H.Kanagasabapathy, Professor | |
| 5. | Mr.G.Esakkimuthu, Asso. Prof. (SG) | |
| 6. | Dr.T.Vigraman, Asso. Prof. (SG) | |
| 7. | Dr.S.Iyah Raja, Asso. Prof. | |
| 8. | Dr.D.Venkat Kumar, Asst. Prof. (SG) | |
| 9. | Dr. M.Kathiresan, Asst. Prof. (SG) | |
| 10. | Dr. R.Harichandran, Asst. Prof. (SG) | |
| 11. | Mr.P.Ramanan, Asst. Prof. (SG) | |
| 12. | Mr.F.Michael Thomas Rex, Asst. Prof. (SG) | |
| 13. | Dr. R. Velraj Professor & Director, Institute for Energy Studies, CEG Anna University, Chennai | Academic Expert |
| 14. | Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai | Industrial Expert related to Placement |
| 15. | Dr. K. Murugan Scientist -D, Centre for Sol-Gel Coatings, ARCI, Hyderabad – 500 005, Telangana | Meritorious Alumnus Nominated by the Principal |

| | | |
|-----|---|--------------------|
| 16. | Dr. A.Arockiarajan Associate Professor, Department of Applied Mechanics, Indian Institute of Technology, Chennai | Special Invitee |
| 17. | Mr.C. Muthukumar C, Third year | Student |
| 18. | Mr.R. Venkatesh @ Periasamy, Third year | Members |

2. The following members could not attend the meeting due to their prior commitments and unavoidable reasons and he was granted leave of absence.

1. Dr.R. Arularasan
Assistant Professor (SG)
Department of Mechanical Engineering
University college of Engineering Arni
University
Nominee
2. Dr. Ing. M. Duraiselvam
Associate Professor & Head
Department of Production Engineering,
National Institute of Technology, Trichy
Academic
Expert
3. Dr. S.Venugopal
Former Director, Materials Group, IGCAR
Visiting Professor,
Indian Institute of Technology, Chennai
4. Mr. Raju Sreeram N. D
Managing Director,
Vijaya Lakshmi Mills Private Limited,
Rajapalayam
Industrial
Experts
5. Mr. S. Suresh
Vice President and Business Head (EM)
Wheels India Limited, Padi,
Chennai

BoS / MECH 8.1 : WELCOME ADDRESS AND OPENING REMARKS BY
CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT
OF MECHANICAL ENGINEERING

The Chairman, BOS of the Mechanical Engineering welcomed and introduced the members of 8th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / MECH 8.2 : TO CONFIRM THE MINUTES OF SEVENTH BOS MEETING HELD ON 1st APRIL, 2017

The minutes of the Seventh Board of Studies meeting held on 1st April, 2017 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 7th Academic council.

➤ Action Taken Report (Enclosed in *Annexure I*)

BoS / MECH 8.3.1 : TO CONFIRM AND APPROVE THE REFINED COURSE OUTCOMES OF THE COURSES FOR THE UG DEGREE PROGRAMME UNDER R-2015

➤ RESOLVED TO approve the refined course outcomes of the courses for the UG degree programme under R-2015

➤ R-2015 Curriculum & Syllabi
(Enclosed in *Annexure II*)

BoS / MECH 8.3.2 : TO CONFIRM AND APPROVE the Syllabi of 15ME44E New Product Development in UG degree programme to be offered under R-2015

RESOLVED TO approve the Syllabi of 15ME44E New Product Development in UG degree programme to be offered under R-2015

BoS / MECH 8.3.3 TO CONFIRM AND APPROVE the Modified Syllabi of 15ME61E Fundamentals of Nano Technology in UG degree programme to be offered under R-2015

RESOLVED TO approve the Modified Syllabi of 15ME61E Fundamentals of Nano Technology in UG degree programme to be offered under R-2015

BoS / MECH 8.3.4

TO CONFIRM AND APPROVE the Syllabi of 15EN27E Research Methodology and 15EN28E Design of Experiments in PG (Energy Engineering) programme to be offered under R-2015

RESOLVED TO approve the Syllabi of 15EN27E Research Methodology and 15EN28E Design of Experiments in PG (Energy Engineering) programme to be offered under R-2015

BoS / MECH 8.4

Suggestions Given by the Members

Application level Course outcome(CO) may be added to the COs of the course "Thermal science"

CO-2 of the course "Mechanics of Materials" may be modified. Also, the stress tensor topic may be removed from the course content.

The Knowledge level of COs of "Environmental Science and Engineering" course has to be raised to address applications.

Case studies like Sathyam, Sahara and Harshad Mehta scandals have to be included in the course "Professional Ethics and Human Values".

Selection of material has to be added in the COs of the course "Product development laboratory"

Ethics, environmental, safety issues have to be incorporated in the new elective course "New product development" and unit-V content may be given as unit-III.

Response surface methodology content may be included in the elective course "Design of Experiments" to be offered in PG Programme (Energy Engineering).


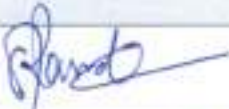



The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.



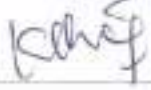







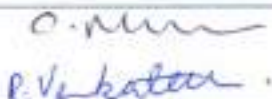
Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.


- a) The refined course outcomes of B.E. Mechanical Engineering Programme under Regulation 2015.
- b) The syllabi of elective course "15ME44E New Product Development" in B.E. Mechanical Engineering Programme offered under Regulation 2015
- c) Modified syllabi of elective course "15ME61E Fundamentals of Nano Technology" in B.E. Mechanical Engineering Programme offered under Regulation 2015
- d) The syllabi of elective courses "15EN27E Research Methodology" and 15EN28E Design of experiments" in M.E. Energy Engineering Programme offered under Regulation 2015

Dr.D.Ravindran thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| | |
|---|---|
| Dr.K.Kalidasa Murugavel Professor & Head |  |
| <i>Internal Members</i> | |
| Dr. D.Ravindran, Professor |  |
| Dr.K.Manisekar, Professor & Dean (Academic) |  |
| Dr.H.Kanagasabapathy, Professor | |
| Mr.G.Esakkimuthu, Asso. Professor (S.G) |  |
| Dr.T.Vigraman, Asso. Professor (S.G) |  |

| | |
|--|---|
| Dr.S.Iyahraja, Asso. Professor |  |
| Dr.D.Venkat Kumar, Assistant Professor (S.G) |  |
| Dr. M.Kathiresan, Assistant Professor (S.G) |  |
| Dr. R. Harichandran, Assistant Professor (S.G) |  |
| Mr.P.Ramanan, Assistant Professor (S.G) |  |
| Mr. Michael Thomas Rex, Assistant Professor (S.G) |  |
| <i>Academic Expert</i> | |
| Dr. R. Velraj Professor & Director, Institute for Energy Studies, CEG, AnnaUniversity, Chennai-600025 |  |
| <i>Industrial Expert related to Placement</i> | |
| Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai- 600 113 |  |
| <i>Alumni Nominated by the Principal</i> | |
| Dr. K. Murugan Scientist -D, Centre for Sol-Gel Coatings, ARCI Hyderabad - 500 005, Telangana |  |
| <i>Special Invitee</i> | |
| Dr. A. Arockiarajan Associate Professor, Department of Applied Mechanics, IIT Madras, Chennai - 600 036. |  |
| <i>Student Members Nominated by the HOD</i> | |
| Muthukumar C, Fnal Year Venkatesh @ Periasamy R, Final Year |  |


CHAIRMAN 20/12
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 7th BoS Meeting

As per BOS Committee suggestion,

1. Bureau of energy efficiency materials were added as reference for the course "Energy Audit and Management".
2. The contents in the courses "Grid Tied PV System Design" and "Off Grid PV System Design" were restructured and applications were included in the course content.
3. Vibration control content was included in the course "Techniques For Vibration Monitoring".
4. The course content for the "Thermal energy storage system" has to be redefined.
5. The following topics were included in the course "Functional materials for energy conversion".
 - a. Procedure for functional material development
 - b. Review of materials developed/available
 - c. Need for functional materials, synthesis methods, energy application
 - d. Design philosophy of functional materials
 - e. Recent Trends
6. Crashworthiness analysis of helmet was included in the course "Crashworthiness of Tubular Shells as a case study.


CHAIRMAN
BOARD OF STUDIES

Department of Electronics and Communication Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

8th Board of studies Meeting in the Department of
Electronics and Communication Engineering

Venue: Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628 503

Date & Time: 18.11.2017 & 10.30 a.m.

Agenda

| | | |
|--------------|---|--|
| ECE/BoS 8.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electronics and Communication Engineering |
| ECE /BoS 8.2 | : | Confirmation of the Minutes of the 7 th meeting of Board of studies in the department of Electronics and Communication Engineering held on March,11,2017 and Action taken report of 7 th meeting of Board of studies |
| ECE /BoS 8.3 | : | Business brought forward by the Chairman, Board of studies 8.3.1. Introduction of new one credit courses |
| ECE /BoS 8.4 | : | Any other items |
| ECE /BoS 8.5 | : | Suggestions given by the BoS Members |

Department of Electronics and Communication Engineering
National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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F. No. 1-1/NEC/Branch/ECE

18th November, 2017

Dear Sir/Madam,

Sub: Minutes of the 8th Meeting of the Board of studies in the Electronics and Communication Engineering - Reg.

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Electronics and Communication Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 18th November, 2017 at 10.30 AM in the conference hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodeceug@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


(Dr.A.Shenbagavalli) 18/11/17

Department of Electronics and Communication Engineering

MINUTES 8th Meeting of the Board of studies held on
18th November, 2017 at 10.30 AM

Venue: Conference Hall,
National Engineering College, K.R.Nagar, Kovilpatti – 628 503

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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Department of Electronics and Communication Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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MINUTES OF THE MEETING

The 8th Meeting of the Board of studies of the Electronics and Communication Engineering was held on 18th November, 2017 at 10.30 AM in the conference hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

| | | |
|---|---|----------|
| 1 | Dr.A.Shenbagavalli Prof & Head Department of ECE, NEC | Chairman |
| 2 | Dr. M. Meenakshi, Professor, Department of ECE, College of Engineering, Guindy Campus, Chennai – 600025 | Member |
| 3 | Dr.M.Ganesh Madhan, Professor, Department of ECE, Madras Institute of Technology campus, Anna University, Chennai-600044 | Member |
| 4 | Mr.Anandhasarangaram, Senior design Engineering Manager, Tensilica Technologies India pvt ltd, Yerwada, Pune – 411020 | Member |
| 5 | Dr. P. Essaki Muthu, Chief Scientist, River Silica, 3B, #60, Century Apartments, 100 Feet Road Indiranagar, Bangalore - 560 038 | Member |
| 6 | Mr. C. Karthik, Staff Test Engineer, Microsemi India pvt Ltd,12 & 13 floors, Kapil Towers- IT Park Sy No 115/1, Nanakramguda, Serilingampally Mandal, Hyderabad -500032 | Member |
| 7 | Mr.A.K.Kannan, Program Manager, Jasmine Infotech Private Limited, Chennai. | Member |

| | | |
|----|--|--------|
| 8 | Dr.V.Vijayarangan, Professor | Member |
| 9 | Dr.S.Tamilselvi, Prof & Head(PG) | Member |
| 10 | Mr.N.Arumugam, Asso.Prof. | Member |
| 11 | Dr.V.R.S.Mani, Asso. Prof. | Member |
| 12 | Mrs.S.D.Jayavathi, Asso. Prof. | Member |
| 13 | Mr.T.Vijayanandh, Asst. Prof. (SG) | Member |
| 14 | Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG) | Member |
| 15 | Mrs.P.Kavitha, Asst. Prof. (SG) | Member |
| 16 | Mr.A.Saravanaselvan, Asst. Prof. (SG) | Member |
| 17 | Mr.S.Cammillus, Asst. Prof. (SG) | Member |
| 18 | Dr.T.S.Arun Samuel, Asst. Prof. (SG) | Member |

2. The University Nominee Dr. Rahilal Bilal, Associate Professor, Department of ECE, Thanthai Periyar Government Institute of Technology, Vellore could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence:

ECE/ BoS 8.1 : WELCOME ADDRESS AND OPENING REMARKS BY
CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT
OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Chairman BoS of the Electronics and Communication Engineering welcomed and introduced the Members of first Executive Council and thanked each one of them for sparing their valuable time to attend the meeting.

Action Taken on items of 07th Board of Studies

ECE/ BoS 8.2 : TO CONFIRM THE MINUTES OF SEVENTH BoS MEETING
HELD ON 11th March 2017

The minutes of the Seventh Board of Studies meeting held on 11th March 2017 were communicated to the members vide letter No. NEC / Dean (Aca) / 2016-17 dated . The comments

received have been incorporated and placed for confirmation. The same was approved by the 6th Academic council.

- Minutes of 07th Board of Studies
- Action Taken Report
(pdf file attached in hyperlink)

ECE / BoS 8.3 : TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABI OF NEW ONE CREDIT COURSES FOR THE UG DEGREE PROGRAMME (Based on OBE & CBCS) TO BE OFFERED UNDER R-2015

RESOLVED TO APPROVE THE CURRICULUM AND SYLLABI OF ONE CREDIT COURSES FOR THE UG DEGREE PROGRAMME (BASED ON OBE & CBCS) TO BE OFFERED UNDER R-2015

- R-2015 Curriculum & Syllabi of One credit courses
(file attached in hyperlink)

ECE/ BoS 8.4 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BoS

ECE1/ BoS 8.5 : Suggestions given by the BoS Members

8.5.1 : Circuit analysis

- Unit III Title "Resonant Circuits" may be changed to "Resonant and Coupled Circuits".

8.5.2 : Digital Electronics

- Unit III Title "Sequential Circuits" may be changed to "Flip-Flop and its Applications".
- Unit IV Title "Design of Sequential Circuits" may be renamed as "Sequential Circuits".

8.5.3 : Communication Systems

- Course Outcome should begin with the Action verb such as Describe or Explain. "Discuss" may be dropped.
- All text books and Reference Books should be of latest editions.

8.5.4 : Microprocessor and Microcontroller

- The processor 80286 and 80386 can be removed.
- Unit II may be splitted into two units.
- Unit III may be brought to Advanced Microprocessor elective course or One credit course.

8.5.5 : VLSI Technology and Design

- In Unit I – Study of DC & AC parameters shall be included before the study of DC transfer characteristics of CMOS inverter.

8.5.6: VLSI Design Laboratory

- Ring Oscillator experiment shall be included.

8.5.7: "Python for Embedded System" may be included in the curriculum as One Credit Theory Course as well as One Credit Laboratory course.

8.5.8: Live – In Lab

- Live – In Laboratory course should be introduced for the VI semester students. Here, a cluster of village is to be adopted by the team of students and to provide technical consultancy/help to solve the pressing problem of the inmates of the village. By this the students will understand the social needs of the public and make them as responsible citizens.


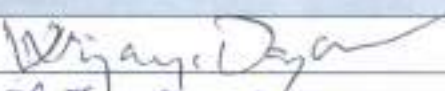


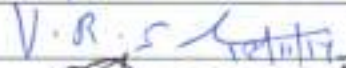
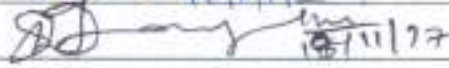
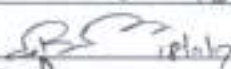

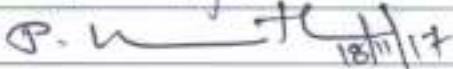





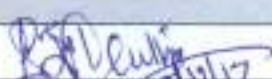
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.






Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for New One credit courses B.E. Electronics and Communication Engineering degree course offered under Regulation 2015.

Dr.V.R.S.Mani, Asso Prof (SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| | |
|--|--|
| Dr.A.Shenbagavalli Prof & Head Chairman |  18/11/17 |
| Internal Members | |
| Dr.V.Vijayarangan, Professor |  18/11/17 |
| Dr.S.Tamilselvi, Prof & Head(PG) |  18/11/17 |
| Mr.N.Arumugam, Asso.Prof. |  18/11/17 |
| Dr.V.R.S.Mani, Asso. Prof. |  18/11/17 |
| Mrs.S.D.Jayavathi, Asso. Prof. |  18/11/17 |
| Mr.T.Vijayanandh, Asst. Prof. (SG) |  18/11/17 |
| Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG) |  18/11/17 |
| Mrs.P.Kavitha, Asst. Prof. (SG) |  18/11/17 |
| Mr.A.Saravanaselvan, Asst. Prof. (SG) |  18/11/17 |
| Mr.S.Cammillus, Asst. Prof. (SG) |  18/11/17 |
| Dr.T.S.Arun Samuel, Asst. Prof. (SG) |  18/11/17 |
| Academic Experts | |
| Dr. M. Meenakshi, Professor, Department of ECE, College of Engineering, Guindy Campus, Chennai - 600025 |  18/11/2017 |
| Dr.M.Ganesh Madhan, Professor, Department of ECE, Madras Institute of Technology campus, Anna University, Chennai-600044 |  18/11/17 |
| Industrial Experts | |
| Dr. P. Essaki Muthu, |  18/11/17 |

| | |
|--|--|
| Chief Scientist, River Silica, 3B, #60, Century Apartments, 100 Feet Road Indiranagar, Bangalore - 560 038 | |
| Mr. C. Karthik, Staff Test Engineer, Microsemi India pvt Ltd, 12 & 13 floors, Kapil Towers IT Park Sy No 115/1 Nanakramguda, Serilingampally Mandal Hyderabad -500032 |  |
| <i>Alumni Nominated by the Principal</i> | |
| Mr. Anand Sasarangaram, Senior design Engineering Manager, Tensilica Technologies India pvt ltd, Building No:1, First floor, Commerzone, Samrat Ashok Path, Yerwada, Pune - 411020. |  |
| <i>Special Invites</i> | |
| Mr. A.K. Kannan, Program Manager, Jasmin Infotech Private Limited, Chennai. |  |
| <i>Student Members Nominated by the HOD</i> | |
| Mr. M. Durai Sundar, 3rd year ECE |  |
| Ms. S. Minu Shruthi, 3rd year ECE |  |


CHAIRMAN / ECE

BOARD OF STUDIES

Department of Computer Science and Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

8th Board of studies Meeting in the Department of
Computer Science and Engineering

Venue: Interactive Computing Laboratory /CSE, National Engineering College
K.R.Nagar, Kovilpatti – 628 503

Date & Time: 18.11.2017 & 11.00 AM

Agenda

- BoS / CSE 8.1 : Welcome address and Opening Remarks by
Chairman, Board of studies in the department of
Computer Science and Engineering
- BoS / CSE 8.2 : Confirmation of the Minutes of the 7th meeting of
Board of studies in the department of Computer
Science and Engineering held on March'04th, 2017
and Action taken report of 7th meeting of Board of
studies
- BoS / CSE 8.3 : Business brought forward by the Chairman,
Board of studies
- 7.3.1. Revision of syllabi and course outcomes
of Regulation 2015.
- 7.3.2. Introduction of new one credit courses
- BoS / CSE 8.4 : Live_in_Lab
- BoS / CSE 8.5 : Any other items
- BoS / CSE 8.6 : Suggestions given by the BoS Members

Department of Computer Science and Engineering
National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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F. No. 1-1/NEC/CSE

18th November, 2017

Dear Sir,

Sub: *Minutes of the 8th Meeting of the Board of studies in the Computer Science and Engineering -Reg.*

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Computer Science and Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 18th November 2017 at 11.00 AM in the Interactive Computing Laboratory/CSE of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodcse@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


Dr.B.Paramasivan

Department of Computer Science and Engineering

**MINUTES of 8th Meeting of the Board of studies held on
18th November, 2017 at 11.00 AM**

**Venue: Interactive Computing Laboratory, CSE
National Engineering College, K.R.Nagar, Kovilpatti – 628 503**

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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Department of Computer Science and Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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MINUTES OF THE MEETING

The 8th Meeting of the Board of studies of the Computer Science and Engineering was held on 18th November, 2017 at 11.00 AM in the Interactive Computing Laboratory/CSE of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

| | | |
|-----|--|------------------|
| 1. | Dr.B.Paramasivan Professor & Head | Chairman |
| 2. | Dr.V.Gomathi, Professor | Internal Members |
| 3. | Dr.V.Kalaivani, Professor | |
| 4. | Dr.K.Mohaideen Pitchai, Associate Professor (SG) | |
| 5. | Dr.S.Anantha Kumaran, Associate Professor | |
| 6. | Ms.V.Vimala, Assistant Professor (SG) | |
| 7. | Ms.M.Bhuvanewari, Assistant Professor (SG) | |
| 8. | Ms.J.Naskath, Assistant Professor (SG) | |
| 9. | Ms.M.Jayalakshmi, Assistant Professor (SG) | |
| 10. | Ms.R.Rajakumari, Assistant Professor (SG) | |
| 11. | Mr.K.Maharajan, Assistant Professor (SG) | |
| 12. | Mr. D.Vijayakumar, Assistant Professor (SG) | |
| 13. | Dr.V.Kavidha, Assistant Professor (SG) | |
| 14. | Dr.S.Maheswari, Assistant Professor (SG) | |
| 15. | Ms.G.Sivakama Sundari, Assistant Professor | |
| 16. | Ms.G.R.Hemalakshmi, Assistant Professor | |
| 17. | Mr.V.Sivakumar, Assistant Professor | |
| 18. | Dr. A.V.Reddy Professor Department of Computer Applications NIT, Trichy – 620 015 | |

| | | |
|-----|---|---|
| 19. | Dr.P.Uma Maheswari Professor, Department of Computer Science and Engineering, College of Engineering Guindy, Anna University, Chennai - 25 | University Nominee |
| 20. | Dr. SP. Rahmesh HCL Technologies Limited Medavakkam High Road, Sozhanganallur Village, Chennai – 600 119 | Industrial Experts |
| 21. | Mr.Antony Dasan Arravindh Senior Project Manager HCL Technologies Limited Medavakkam High Road, Sozhanganallur Village, Chennai – 600 119 | Industrial Experts related to Placement |
| 22. | Mrs. Maria Justin Mary IT Lead-Remedy Application Honeywell Technology Solutions Madurai. | Alumni Nominated by the Principal |
| 23. | Ms. S. Pooja, IV year CSE | Student Members |
| 24. | Mr. S. Ajay Antony Naveen , IV year CSE | Nominated by the HOD |

2. The expert Members Dr.K.K.Shukla, Professor, Department of CSE, Indian Institute of Technology (BHU), Varanasi, and Mr.D. Rajesh Kannan, Segment Head – Nielsen, Tata Consultancy Services, Chennai, and Mr.C. Bebin Suresh, Director – DevOps, Unified Technology Office, Bangalore could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS / CSE 8.1 : WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Chairman, BoS of the Computer Science and Engineering welcomed and introduced the members of 8th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CSE 8.2 : TO CONFIRM THE MINUTES OF SEVENTH BOS MEETING HELD ON 01st APRIL, 2017

The minutes of the Seventh Board of Studies meeting held on 01st April, 2017 were communicated to the members. The comments

received have been incorporated and placed for confirmation. The same was approved by the 8th Academic council.

➤ **Action Taken Report**

(Enclosed in Annexure I)

BoS / CSE 8.3 : TO CONFIRM AND APPROVE REVISION OF SYLLABI AND COURSE OUTCOMES OF THE COURSES OFFERED FOR THE UG DEGREE PROGRAMME UNDER R-2015

RESOLVED TO approve the syllabi and course outcomes of the courses offered for the UG degree programme under R-2015

➤ **Revised R-2015 Syllabi and Course outcomes**

(Enclosed in Annexure II)

BoS / CSE 8.4 : TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABI OF NEW ONE CREDIT COURSES FOR THE UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2015

RESOLVED TO approve the Curriculum and Syllabi of new one credit courses for the UG degree programme to be offered under R-2015

➤ **R-2015 Curriculum & Syllabi of One credit courses**

(Enclosed in Annexure III)

BoS / CSE 8.5 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

On the whole, this new initiative was very much appreciated by all members. The challenges faced can be periodically discussed with them. They also congratulated the faculty members for their team efforts towards continuing Education.

BoS / CSE 8.6 : SUGGESTIONS GIVEN BY THE BOS MEMBERS

- 8.6.1 : One credit courses should imitate the new technologies
- 8.6.2 : Expose the students to practical than theory and Industrial delivery would be appropriate
- 8.6.3 : Data Science, video analytics can be trained and practice the students in APIs.
- 8.6.4 : For Oracle programming, Database activity monitoring (DAM) related syllabus could be added
- 8.6.5 : Live-in Lab is a new initiation and encourages the students to take part.
- 8.6.6 : Motivate the students to help the needy and trigger them for social needs
- 8.6.7 : Embedded products for social need can be expected and make the students to involve into products.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) Revision of syllabi and course outcomes of Regulation 2015.
- b) The Curriculum and Syllabi for new One credit courses B.E. (Computer Science and Engineering) degree course offered under Regulation 2015.

Dr. S. Maheswari, Assistant Professor (Senior Grade), thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| | |
|--|---|
| Dr.B.Paramasivan Chairman | <i>a. Pan</i> 18/11/17 |
| <i>Internal Members</i> | |
| Dr.V.Gomathi Professor | <i>V. Gomathi</i> 18/11/17 |
| Dr.V.Kalaivani Professor | <i>V. Kalaivani</i> 18/11/17 |
| Dr.K.Mohaideen Pitchai Associate Professor (SG) | <i>K. Mohaideen Pitchai</i> 18/11/17 |
| Dr.S.Ananthakumaran Associate Professor | <i>S. Ananthakumaran</i> 18/11/17 |
| Ms.V.Vimala Assistant Professor (SG) | <i>V. Vimala</i> 18/11/2017 |
| Ms.M.Bhuvaneshwari Assistant Professor (SG) | <i>M. Bhuvaneshwari</i> 18/11/17 |
| Ms.J.Naskath Assistant Professor (SG) | <i>J. Naskath</i> 18/11/17 |
| Ms.M.Jayalakshmi Assistant Professor (SG) | <i>M. Jayalakshmi</i> 18/11/17 |
| Ms.R.Rajakumari Assistant Professor (SG) | <i>R. Rajakumari</i> 18/11/17 |
| Mr.K.Maharajan Assistant Professor (SG) | <i>K. Maharajan</i> 18/11/17 |
| Mr. D.Vijayakumar Assistant Professor (SG) | <i>D. Vijayakumar</i> 18/11/17 |
| Dr.V.Kavidha Assistant Professor (SG) | <i>V. Kavidha</i> 18/11/17 |
| Dr.S.Maheswari Assistant Professor (SG) | <i>S. Maheswari</i> 18/11/17 |
| Ms.G.Sivakama Sundari Assistant Professor | <i>G. Sivakama Sundari</i> 18/11/17 |

| | |
|--|-------------------|
| Ms.G.R.Hemalakshmi Assistant Professor | G.R.Hemalakshmi |
| Mr.V.Sivakumar Assistant Professor | V.Siv |
| Academic Expert | |
| Dr. A.V.Reddy Professor Department of Computer Applications NIT, Trichy – 620 015 Mobile: 09443781597 Email Id: reddy@nitt.edu | A.Reddy |
| University Nominee | |
| Dr.P.Uma Maheswari Professor Department of Computer Science and Engineering <i>colleg. of Engg, Coimbatore</i> Madras Institute of Technology Chromepet, Chennai-44-25 | P.Uma |
| Industrial Experts | |
| Dr. SP. Rahmesh HCL Technologies Limited SEZ Unit, ELCOT special economic zone, SDB5,#602/3, No.138, Medavakkam High Road, Sozhanganallur Village, Chennai – 600 119 | SP.Rahmesh |
| Industrial Experts related to Placement | |
| Mr.Antony Dasan Arravindh Senior Project Manager HCL Technologies Limited SEZ Unit, ELCOT special economic zone, SDB5, #602/3, No.138, Medavakkam High Road, Sozhanganallur Village, Chennai – 600 119 | Antony Dasan |
| Alumni Nominated by the Principal | |
| Mrs. Maria Justin Mary IT Lead-Remedy Application Honeywell Technology Solutions Madurai | Maria Justin Mary |
| Student Members Nominated by the HOD | |
| Ms. S.Pooja, IV year CSE | S.Pooja |
| Mr.S. Ajay Antony Naveen , IV year CSE | S.Antony Naveen |

Chairman
CHAIRMAN
BOARD OF STUDIES

ANNEXURE - I

Actions Taken Report

As per the BOS members' suggestions, the following actions were taken:

- For python programming, business-oriented works are included as exercise.
- The OS installation, Java lab oriented package installation, and basic LAN/WiFi troubleshooting practices were done during the lab session.
- For Modern Algebra, the text book "Modern Applied Algebra", by Garrett Birkhoff, Thomas C. Bartee, McGraw-Hill, 1970 has been included.
- Creating mind by brain, BCI design courses are removed from the course list.
- In all IATs and model labs students' performance were assessed for new situations. The evaluation patterns were well informed through Google class room and Wikispace.


CHAIRMAN

BOARD OF STUDIES

V. V. RAMASIVAN, M.E., Ph.D.,

Professor and Head

Department of Computer Science & Engineering,

National Engineering College,

K.R. Nagar KOVILPATTI - 626 503.

Department of Electrical and Electronics Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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8th Board-of studies Meeting in the Department of **Electrical and Electronics Engineering**

Venue: Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628 503

Date & Time: 17.11.2017 & 10.30 AM

Agenda

| | | |
|---|---|--|
| Electrical and Electronics Engineering /BoS 8.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electrical and Electronics Engineering |
| Electrical and Electronics Engineering /BoS 8.2 | : | Confirmation of the Minutes of the 7 th meeting of Board of studies in the department of Electrical and Electronics Engineering held on March 25 th 2017, and Action taken report of 7 th meeting of Board of studies |
| Electrical and Electronics Engineering /BoS 8.3 | : | Business brought forward by the Chairman, Board of studies <ul style="list-style-type: none">• Introduction of new one credit courses• Changes in Course Outcome for Regulation 2015• Live in Lab |
| Electrical and Electronics Engineering / BoS 8.4 | : | Any other items |
| Electrical and Electronics Engineering BoS 8.5 | : | Suggestions given by the BoS Members |

Department of Electrical and Electronics Engineering
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F. No. 1-1/NEC/EEE/.....

17th November, 2017

Dear Sir/Madam,

Sub: Minutes of the 8th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 17th November, 2017 at 10.30 AM in the conference hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodeee@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


Dr.M.Willjuice Iruthayarajan

Department of Electrical and Electronics Engineering

MINUTES 8th Meeting of the Board of studies held on
17th November, 2017 at 10.30 AM

Venue: Conference Hall,
National Engineering College, K.R.Nagar, Kovilpatti – 628 503

Department of Electrical and Electronics Engineering

National Engineering College, K.R.Nagar, Kovilpatti - 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

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MINUTES OF THE MEETING

The 8th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 17th November, 2017 at 10.30 AM in the conference hall of the National Engineering College, K.R.Nagar, Kovilpatti - 628 503.

1. The following members were present:

| | | |
|----|--|----------|
| 1. | Dr.M.Willjuice Iruthayarajan Professor and Head, Department of Electrical and Electronics Engineering, National Engineering College, Kovilpatti. | Chairman |
| 2. | Dr.L.Kalaivani, Internal Member Associate Professor (S.G)/EEE National Engineering College, Kovilpatti | Member |
| 3. | Dr.M.Ravindran, Internal Member Associate Professor (S.G) /EEE National Engineering College, Kovilpatti | Member |
| 4. | Dr.R.V.Maheswari, Internal Member Associate Professor/EEE National Engineering College, Kovilpatti | Member |
| 5. | Mr.N.B.Prakash, Internal Member Associate Professor/EEE National Engineering College, Kovilpatti | Member |
| 6. | Mr.G.Kannayeram, Internal Member Assistant Professor(S.G) /EEE National Engineering College, Kovilpatti | Member |
| 7. | Dr. V. Sankaranarayanan, Associate Professor/EEE, NIT Trichy | Member |
| 8. | Dr. C. Ponmani, University Nominee Assistant Professor, Department of Electrical and Electronics Engineering, Government College of Engineering, Tirunelveli. | Member |

| | | |
|-----|--|--------|
| 9. | Dr. Santosh Kumar Annadurai, Industrial Expert GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai. | Member |
| 10. | Mr. S. Subramanian, Industrial Expert Senior Maintenance Engineering (I), Kudankulam Nuclear Power Project, Kudankulam | Member |
| 11. | Mr. M. Ramesh, Industrial Expert – Placement Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai. | Member |
| 12. | Dr.G.Venkatesan, Meritorious Alumnus – Nominated by Principal Professor/EEE, Karpagam College of Engineering, Coimbatore | Member |
| 13. | Ms. P. Tamilarasi, Student Member – Nominated by HOD Final Year /EEE National Engineering College, Kovilpatti | Member |

2. Academic Expert **Dr. M. Saravanan**, Professor/EEE, Thiagarajar College of Engineering, Madurai, Industrial Expert **Dr. Hariram Satheesh**, Principal Scientist, ABB Global Industries and Services Ltd, Bangalore, Internal Member **Mr. M.P.E. Rajamani**, Assistant Professor (Senior Grade)/EEE, National Engineering College and Student Member **Mr. S.S. Siva Shankar**, Final Year/EEE, National Engineering College could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence:

[EEE]/ BoS 8.1 : WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING.

The Chairman, BoS of the department of Electrical and Electronics Engineering welcomed and introduced the Members of BoS and thanked each one of them for sparing their valuable time to attend the meeting.

[EEE]/ BoS 8.2 : TO CONFIRM THE MINUTES OF SEVENTH BOS MEETING HELD ON 25th March 2017

The minutes of the **Seventh Board of Studies meeting** held on 25th March 2017 were communicated to the members vide **letter No. F. No. 1-1/NEC/EEE, Dated 25.03.2017**. The comments received have been incorporated and placed for confirmation. The same was approved by the 7th Academic council.

➤ **Minutes of 07th Board of Studies**

➤ **Action Taken Report**

(pdf file attached in hyperlink)

[EEE]/ BoS 8.3 :

TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABI OF ONE CREDIT LABORATORY COURSES SUGGESTED BY ACADEMIC COUNCIL MEETING AND NEW ONE CREDIT COURSES FOR THE UG DEGREE PROGRAMME (Based on OBE & CBCS) TO BE OFFERED UNDER R-2015
RESOLVED TO APPROVE THE CURRICULUM AND SYLLABI OF ONE CREDIT COURSES FOR THE UG DEGREE PROGRAMME (BASED ON OBE & CBCS) TO BE OFFERED UNDER R-2015

➤ **R-2015 Curriculum & Syllabi of One credit courses** (theory and laboratory courses)

➤ **R-2015 Curriculum & Syllabi of New One credit courses**

(file attached in hyperlink)

[EEE]/ BoS 8.4 :

TO CONFIRM AND APPROVE THE COURSE OUTCOMES OF COURSES FOR THE UG DEGREE PROGRAMME (Based on OBE & CBCS) TO BE OFFERED UNDER R-2015

RESOLVED TO APPROVE THE COURSE OUTCOMES OF COURSES FOR THE UG DEGREE PROGRAMME (Based on OBE & CBCS) TO BE OFFERED UNDER R-2015

➤ **Course Outcomes Changes in R-2015** (file attached in hyperlink)

[EEE]/ BoS 8.5 :

ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BoS

The BoS members had a good interaction with the chairman, internal members and student members regarding one credit laboratory and theory courses. They requested to include certain topics related to

industry expectation like selection of PID controller etc in syllabus content of next regulation. The BoS members requested to consider the students feedback regarding syllabus course content, one credit courses, etc. Finally they suggest the course reference materials for one credit courses and they appreciated the staff and student members for effort taken

[EEE]/ BoS 8.6:

Suggestions given by the BoS Members

- 8.6.1: For the course **Design of Power Converters Laboratory**, either single or three phase controlled rectifiers can be given.
- 8.6.2: For the course **Renewable Energy Laboratory**, experiments should be given related to EEE programme.
- 8.6.3: For the course **Industrial Controllers Laboratory**, experiments may relate with PID and its tuning methods.
- 8.6.4: For the course **Soft Computing Laboratory** abbreviation may be expanded in the experiments.
- 8.6.5: For the course **Embedded System Laboratory**, experiments like PWM pulse generation, variety of motor control, FPGA, etc. may be included.
- 8.6.6: For the following courses in R-2015, the course outcomes along with knowledge level has been modified and approved by BoS members.
- 15EE42C- AC Rotating Machines
 - 15EE43C-Control Engineering
 - 15EE44C- Measurements and Instrumentation
 - 15EE45C-Electrical Power Systems
 - 15EE48C-Control and Instrumentation Laboratory
 - 15EE61C-High Voltage Engineering
 - 15EE62C-Electrical Energy Utilization and Conservation
 - 15EE64C-Design Of Electrical Apparatus
 - 15EE66C-Powersystem simulation and High Voltage Laboratory
 - 15EE04E-CAD of Electrical Apparatus
 - 15EE05E-Solid State Drives
 - 15EE06E-Advanced Switchgear
 - 15EE12E-Insulation Technology




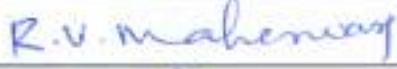






The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.




Based on the suggestions given by the members, BoS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for new One credit courses B.E. Electrical and Electronics Engineering degree course offered under Regulation 2015.

Mr. N. B. Prakash, Associate Professor/EEE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| | |
|---|---|
| Dr.M.Willjuice Iruthayarajan, Chairman,BoS/EEE |  |
| Internal Members | |
| Dr.L.Kalaivani, Associate Professor (S.G)/EEE |  |
| Dr.M.Ravindran, Associate Professor (S.G) /EEE |  |
| Dr.R.V.Maheswari, Associate Professor/EEE |  |
| Mr.N.B.Prakash, Associate Professor/EEE |  |
| Mr.G.Kannayeram, Assistant Professor(S.G) /EEE |  |
| Academic Experts | |
| Dr. V. Sankaranarayanan, Associate Professor/EEE, National Institute of Technology, Trichy |  |
| University Nominees | |
| Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli. |  |
| Industrial Experts | |
| Dr. Santosh Kumar Annadurai, GE, GIS R&D Centre, Unit R&DHead, Padappai, Chennai. |  |
| Mr. S. Subramanian, Senior Maintenance Engineering (I), Kudankulam Nuclear Power Project, udankulam |  |

| <i>Industrial Experts related to Placement</i> | |
|---|---|
| Mr. M. Ramesh, Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai. |  |
| <i>Alumni Nominated by the Principal</i> | |
| Dr.G.Venkatesan, Professor/EEE, Karpagam College of Engineering, Coimbatore |  |
| <i>Student Members Nominated by the HOD</i> | |
| Ms. P. Tamilarasi |  |


CHAIRMAN
BOARD OF STUDIES

ANNEXTURE-I

Action Taken on Suggestions From 7th BoS Meeting

| S. No. | Suggestions | Action Taken |
|--------|--|---|
| 1. | <p>The following New one credit courses related with industrial developments should be included.</p> <ul style="list-style-type: none">• Communication Technologies for Smart Grids• Techno Commercial Project Proposal• Controllers for Industrial Automation• Non-Conventional Instrument Transformer• Energy Storage System• Electronics for Safety Critical System• CFD for Electrical Apparatus• HVDC Circuit Breakers• Earthing Design• Low Voltage DC Applications• Electrical Stress Analysis• Alternate Insulating Medium• PCB Design And Fabrication• Digital Substation• Electrical System for Smart Building• Power System Protection and Substation automation | <p>Modifications are carried out in the final syllabus</p> |
| 2. | <p>The professors/experts in different domains may be included from the National Institute of Technology, Indian Institute of Technology and etc. in the list of examiners for Project Evaluation.</p> | <p>Examiners List are modified based on BOS minutes</p> |

Department of Electronics and Instrumentation Engineering

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(An Autonomous Institution - Affiliated to Anna University, Chennai)

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F. No. 8-1/NEC/[EIE/2017-2018

28.11.2017

Dear Sir/Madam,

Sub: *Minutes of the 8th Meeting of the Board of studies in the Electronics and Instrumentation Engineering-Reg.*

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Electronics and Instrumentation Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 18th November, 2017 at 10.30AM in the Central Library of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodeie@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely



(HOD Name)

Department of Electronics and Instrumentation Engineering

MINUTES 8th Meeting of the Board of studies held on
18th November, 2017 at 10:30 AM

Venue: Central Library,
National Engineering College, K.R.Nagar, Kovilpatti- 628503

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MINUTES OF THE MEETING

The 8th Meeting of the Board of studies of the Electronics and Instrumentation Engineering was held on 18th November 2017 at 10.30 AM in the Central Library of the National Engineering College, K.R.Nagar, Kovilpatti– 628503.

1. The following members were present:

| | | |
|---|--|----------|
| 1 | Dr.B.Sankaragomathi | Chairman |
| 2 | Dr. S. Edward Rajan Professor, Dept. of EEE, MepcoSchlenk Engineering College, Sivakasi- 626 005 Phone No.:9443868860 Mail id : sedraj@yahoo.com, sedward@mepcoeng.ac.in | Member |
| 3 | Dr.K. Latha Associate Professor, Department of Instrumentation Engineering, MIT Campus, Chennai -600 044. Phone No.:9500064042 Mail id: klatha@annauniv.edu | Member |
| 4 | Mr.C.Rajkumar, M.S. Engineering Director, Cadence Design Systems India Pvt. Ltd, 2 nd Floor, 3B, RMZ Ecospace, Sarjapura outer Ring Road, Bangalore – 560103 Mail Id : rajko@cadence.com | Member |

| | | |
|----|--|--------|
| 5 | Mr.Ramesh Head – Instrumentation Sterlite copper, Vedanta Limited, SIPCOT Industrial Complex, Madurai By-pass Road, Thoothukudi - 628 002 Mail Id: ramesh.ganesh@vedanta.co.in | Member |
| 6 | Mr.K.T.Gandhi Karuna Chief Technology Officer, Watsimit Mobile Technologies Pvt. Ltd., No 23, Kamaraj Street, Iyyappa Nagar, Kanchipuram – 631501 Mail Id : gandhikaruna.kt@gmail.com | Member |
| 7 | Dr.D. Santhi Associate Professor (SG) | Member |
| 8 | Mr.Jackson Daniel Associate Professor | Member |
| 9 | Dr.K.Shankar, Associate Professor | Member |
| 10 | Mr.V.Suresh Associate Professor | Member |
| 11 | Dr.S.Manikandan, Associate Professor | Member |
| 12 | Mr.T.Ramakrishnan Assistant Professor (SG) | Member |
| 13 | Mrs.M.Carmel Sobia Assistant Professor (SG) | Member |
| 14 | Mrs.A.Geetha Assistant Professor (SG) | Member |
| 15 | Mrs.J.BabithaThangamalar Assistant Professor (SG) | Member |
| 16 | Mr.M.VeeraShanthi Ram IV year EIE Student | Member |
| 17 | Ms. T. Abinaya III year EIE Student | Member |

2. Prof. V. Subbiah Bharathi/Academic Expert and Mr. R. Dheenadhayalan/Industrial Expert, could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence:

EIE/ BoS 8.1: Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electronics and Instrumentation Engineering.

The Chairman BoS of the Electronics and Instrumentation Engineering welcomed and introduced the Members of first Executive Council and thanked each one of them for sparing their valuable time to attend the meeting.

Action Taken on items of 07th Board of Studies

EIE/ BoS 8.2: TO CONFIRM THE MINUTES OF Seventh BoS MEETING HELD ON 18th March 2017

The minutes of the Seventh Board of Studies meeting held on 18th March 2017 were communicated to the members vide letter No. NEC / Dean (Aca) / 2017-18 dated 01.11.2017. The comments received have been incorporated and placed for confirmation. The same was approved by the 7th Academic council.

➤ Action Taken Report

EIE/ BoS 8.3 : TO CONFIRM AND APPROVE THE ADDITIONAL CURRICULUM AND SYLLABI OF ONE CREDIT COURSES AND MODIFICATION IN COURSE OUTCOMES FOR THE UG DEGREE PROGRAMME (BASED ON OBE & CBCS) TO BE OFFERED UNDER R-2015.

RESOLVED TO APPROVE THE ADDITIONAL CURRICULUM AND SYLLABI OF ONE CREDIT COURSES AND MODIFICATION IN COURSE OUTCOMES FOR THE UG DEGREE PROGRAMME (BASED ON OBE & CBCS) TO BE OFFERED UNDER R-2015.

R-2015 Curriculum & Syllabi of One credit courses (additional)

EIE/ BoS 8.4 : TO CONFIRM AND APPROVE THE LIST OF EXAMINERS FOR EIE BOARD

RESOLVED TO APPROVE THE LIST OF EXAMINERS FOR EIE BOARD

- Dr.V.Prakash, Dept. of EEE, Thiagarajar College of Engineering, Madurai – 625 015.
- Dr.S.Edward Rajan, Dept. of EEE, MepcoSchlenk Engineering College, Sivakasi - 626 005.
- Dr.K.Valarmathi, Dept. of ECE, P.S.R.Engineering College, Sevalpatti, Sivakasi – 626140
- Dr.S.A.Pasupathi, Dept. of Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore – 641 049.
- Dr.C.Ponmani, Dept. of EEE, Government College of Engineering, Tirunelveli.
- Dr.M.Poongothai, Dept. of ECE, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore – 641 014.

EIE/ BoS 8.5 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BoS

EIE/ BoS 8.6 : SUGGESTIONS GIVEN BY THE BOS MEMBERS

8.6.1. The BOS resolved to modify the topics in the following one credit courses

- PROGRAMMING IN ARDUINO (L)
 - Usage of shield (Ultrasonic, Temperature, Pressure and Wifi.)
 - Replace the experiment no.4 Traffic light control into Digital Sequence Control
 - Changes the CO
- PLC Programming
 - Not necessary to specify 'Functional Block diagram' word from experimental list.

8.6.2. The BOS resolved to include the following one credit courses

- Digital Signal Processing using MATLAB
- Design of PID Controllers using MATLAB
 - The following experiments may be included
 - Find the transfer function of field and armature control of a motor.
 - Apply the PID controller Tuning method for the above-mentioned motor.
- Co-simulation in LabVIEW
 - The course can be changed as one of the value add courses which should be handled by the experts of NI and also motivate the students to appear CLAD examination.
- Python Programming for IOT
- PyVISA can be included.
 - Don't emphasis on Python language alone, any open source programming (give them concepts)
 - Socket concept can be explained in detail (direct library should not be used)
- PCB Design
 - Can be included.
- Live in Lab
 - Member suggested that it is a very good initiative, which is going to be taken from the Institution.
 - Mr.G.Ramesh, Instrumentation Head/Sterlite Industries and Dr.S.Edward Rajan, Senior Professor/EEE department, Mepco Schlenk Engineering College suggested the following
 - Identification of social problems by the group of students.
 - Each problem must be given to the of students as a mini project. If they complete the credit must be given.
 - Mr. C. Rajkumar, Technical Director/Cadence, suggested that you can make joint venture with corporates.



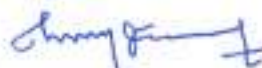


The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.



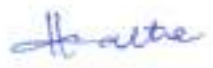


Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for One credit courses B.E. Electronics and Instrumentation Engineering degree course added under Regulation 2015.
- b) The modification of Syllabi for B.E. Electronics and Instrumentation Engineering degree course offered under Regulation 2015

Dr. D. Santhi, Associate Professor (SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| | |
|---|--|
| Dr.B.Sankaragomathi Professor & Head Chairman |  18/11/17 |
| <i>Internal Members</i> | |
| Dr.D.Sanathi Associate Professor (SG) |  |
| Mr.Jackson Daniel Associate Professor |  |
| Dr.K.Shankar Associate Professor |  |
| Mr.V.Suresh Associate Professor |  |
| Dr.S.Manikandan, Associate Professor |  |
| Mr.T.Ramakrishnan Assistant Professor (SG) |  |
| Mrs.M.Carmel Sobia Assistant Professor (SG) |  |

| | |
|---|--|
| Mrs.A.Geetha Assistant Professor (SG) |  |
| Mrs.J.Babitha Thangamalar Assistant Professor (SG) |  |
| Academic Expert | |
| Dr. S. Edward Rajan Professor, Dept. of EEE, MepcoSchlenk Engineering College, Sivakasi- 626 005 Phone No.:9443868860 Mail id : sedraj@yahoo.com, sedward@mepcoeng.ac.in | S. Edward Rajan 18/11/17 |
| University Nominee | |
| Dr.K. Latha Associate Professor, Department of Instrumentation Engineering, MIT Campus, Chennai -600 044. Phone No.:9500064042 Mail id: klatha@annauniv.edu, lat_padhu@yahoo.com |  |
| Industrial Expert – Invitee | |
| Mr.C.Rajkumar, M.S. Engineering Director, Cadence Design Systems India Pvt. Ltd, 2 nd Floor, 3B, RMZ Ecospace, Sarjapura outer Ring Road, Bangalore – 560103 Mail Id : rajkc@cadence.com |  |
| Industrial Experts related to Placement | |
| Mr.Ramesh Head – Instrumentation Sterlite copper, Vedanta Limited, SIPCOT Industrial Complex, Madurai By-pass Road, Thoothukudi - 628 002 Mail Id: ramesh.ganesh@vedanta.co.in |  |

| <i>Alumni Nominated by the Principal</i> | |
|---|------------------------------|
| Mr.K.T.Gandhi Karuna Chief Technology Officer, Watsimit Mobile Technologies Pvt. Ltd., No 23, Kamaraj Street, Iyyappa Nagar, Kanchipuram – 631501 Mail Id : gandhikaruna.kt@gmail.com, gandhikaruna@aol.com | K.T. Gandhi (18-Nov-2017) |
| <i>Student Members Nominated by the HOD</i> | |
| Mr.M.Veera Shanthi Ram IV year EIE Student | M.V. Shanthi |
| Ms. T. Abinaya III year EIE Student | Abinaya |


CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 7th BoS Meeting

The following action were taken based on the suggestions of the BoS committee

1. The topics of the following courses are modified
 - PLC Programming
 - Control System with MATLAB
 - Control System with LABVIEW
 - Embedded System Design using Arm Microcontroller
 - Graphical Programming for Electronic Circuits
 - Softcomputing Techniques using Fuzzy and Neural Network
 - Field Instruments for Process Control
2. The course Embedded System Design using PIC Microcontroller and VLSI Testing are removed.
3. Course code of 15EI72C is renamed IoT and its application & fifth unit have modified.



CHAIRMAN

BOARD OF STUDIES

Department of Information Technology

National Engineering College, K.R.Nagar, Kovilpatti – 628503

(An Autonomous Institution Affiliated to Anna University, Chennai)

www.nec.edu.in

8th Board of studies Meeting in the Department of
Information Technology

Venue: Department of IT, National Engineering College
K.R.Nagar, Kovilpatti – 628503

Date & Time: 11.11.2017 & 11.00 a.m.

Agenda

- | | | |
|--------------|---|--|
| BoS / IT 8.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Information Technology |
| BoS / IT 8.2 | : | Confirmation of the Minutes of the 7 th meeting (Phase-II) of Board of studies in the department of Information Technology held on 08 th April 2017 and Action taken report of Phase-II of 7 th meeting of Board of studies |
| BoS / IT 8.3 | : | Business brought forward by the Chairman, Board of studies 8.3.1. R-2015 Syllabus 8.3.2. Introduction of new elective and one credit courses |
| BoS / IT 8.4 | : | Any other items |
| BoS / IT 8.5 | : | Suggestions given by the BoS Members |

Department of Information Technology

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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F. No. 8.1/NEC/ IT/2017-18

11th November, 2017

Dear Sir/Madam,

Sub: *Minutes of the 8th Meeting of the Board of studies in the Information Technology Reg.*

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Information Technology of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 11th November, 2017 at 11.00AM in the department of Information Technology of National Engineering College. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodit@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


(Dr. V. Seenivasagam)

Department of Information Technology

MINUTES of 8th Meeting of the Board of studies held on
11th November, 2017 at 11.00 AM

Venue: Department of Information Technology,
National Engineering College, K.R.Nagar, Kovilpatti – 628503

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Department of Information Technology

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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MINUTES OF THE MEETING

The 8th Meeting of the Board of studies of the Information Technology was held on 11th November 2017 at 11.00 AM in the Department of Information Technology of the National Engineering College, K.R.Nagar, Kovilpatti – 628503

1. The following members were present:

| | | |
|-----|--|--------------------|
| 1. | Dr.V.Seenivasagam, Prof. & COE | Chairman |
| 2. | Dr.K.G.Srinivasagan, Professor | Internal Members |
| 3. | Dr.S.Sankar Ganesh, Asso. Prof. (SG) | |
| 4. | Mr.R.Muthukkumar, Asst. Prof. (SG) | |
| 5. | Dr.M.Kaliappan, Asso. Prof. | |
| 6. | Mr.S.Vimal, AP(SG) | |
| 7. | Dr. S.Valli, Professor / Department of CSE Anna University, Chennai | Academic Experts |
| 8. | Dr. L.Ganesan , Professor / Department of CSE, Alagappa Chettiar College of Engg. & Tech Karaikudi | |
| 9. | Dr. P.Latha, Associate Professor / Department of CSE, Government College of Engineering, Tirunelveli | University Nominee |
| 10. | Shri. E. Khalieraaj Regional Director, National Cyber Safety and Security Standards National Cyber Defence Research Centre (NCDRC) Team, New Delhi | Industrial Expert |
| 11. | Mr. Somu Chockalingam, Director, Doyen Systems Pvt Ltd Ekkatuthangal, Guindy, Chennai, Tamil Nadu 600032 | Industrial Expert |
| 12. | Dr. A.Soundarrajan Associate Professor / Department of IT PSG College of Technology, Coimbatore | Special Invitee |
| 13. | Ms. K.Anitha, Final year | Student Members |
| 14. | Mr. M.Balasubramanian, Final year | |

2. The Alumni Member Mr.R.Rajasekar, Director Bizpluz Tech Services Pvt. Ltd., Chennai could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

| | | |
|----------------|---|---|
| BoS / IT 8.1 | : | WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF INFORMATION TECHNOLOGY |
| | | The Chairman, BoS of the Information Technology welcomed and introduced the members of 8 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting. |
| BoS / IT 8.2 | : | TO CONFIRM THE MINUTES OF SEVENTH BOS MEETING (PHASE – II) HELD ON 08 th APRIL, 2017 |
| | | The minutes of the Seventh Board of Studies meeting (Phase-II) held on 08 th April, 2017 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 7 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure D</i>) |
| BoS / IT 8.3.1 | : | TO CONFIRM AND APPROVE THE REFINEMENT OF COURSE OUTCOMES OF SYLLABUS OF B.TECH. (INFORMATION TECHNOLOGY) FOR THE UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2015 |
| | : | RESOLVED TO approve the refinement of course outcomes of Syllabus of B.Tech Information Technology for the UG degree programme to be offered under R-2015 |
| BoS / IT 8.3.2 | : | TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABI OF SEVEN ONE CREDIT AND TWO ELECTIVE COURSES FOR THE UG DEGREE PROGRAMME TO BE PROPOSED UNDER R-2015 |

| | | |
|--------------|---|--|
| | | RESOLVED TO approve the Curriculum and Syllabi of seven one credit and two elective courses for the UG degree programme to be proposed under R-2015 |
| BoS / IT 8.4 | : | ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS |
| | | On the whole, the refinement of course outcomes and the proposed elective and one credit courses were very much appreciated by all members. Regarding Live-in-Lab, it was discussed to send the students for location study about two weeks and find innovative solution as product for the betterment of the rural people. It may be considered as Internship and credit will be provided depends on the nature of solution. They also congratulated the faculty members for their team efforts towards continuing Education. |
| BoS / IT 8.5 | : | SUGGESTIONS GIVEN BY THE BOS MEMBERS |
| 8.5.1 | : | For Theory courses – Frame 5 Course Outcomes and for Laboratory courses – Frame 2 Course Outcomes uniformly. |
| 8.5.2 | : | For one credit courses – Frame minimum of 1 or maximum of two course outcomes. |
| 8.5.3 | : | Product Development Laboratory – student team formation and guidance may be collaborative with other disciplines. |
| 8.5.4 | : | Web references may be included for programming courses and laboratory courses. |
| 8.5.5 | : | Group One credit courses for semester wise based on level of the students. |
| 8.5.6 | : | Programming in IoT – include company reference manual. |
| 8.5.7 | : | Machine Learning, Artificial Intelligence, Applications of IT in Biomedical, and NoSQL databases may be added as one credit courses. |
| 8.5.8 | : | Soft Computing may also be added as elective course. |
| 8.5.9 | : | Cyber Forensics – include IT ACT topics and Dr. Gulshan Rai book as reference. – Case study may be given through assignments. |





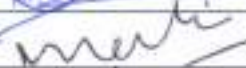
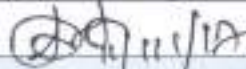




The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Syllabi.



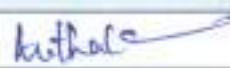

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) Refinement of Course Outcomes for B.Tech. Information Technology degree courses offered under Regulation 2015.
- b) The Syllabi of one credit courses proposed under Regulation 2015.

Mr.R.Muthukkumar, Asst. Prof. (SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| | |
|--|--|
| Dr.V.Seenivasagam, Prof & Head ,Board Chairman |  |
| Internal Members | |
| Dr.K.G.Srinivasagan, Professor |  |
| Dr.S.Sankar Ganesh, Asso. Prof.(SG) |  |
| Mr.R.Muthukkumar, Asst. Prof. (SG) |  |
| Dr.M.Kaliappan, Asso. Prof. |  |
| Mr.S.Vimal, Asst. Prof. (SG) |  |
| Academic Experts | |
| Dr.S.Valli, Professor, Dept. of CSE, Anna University, Chennai. |  |
| Dr. L.Ganesan, Professor, Dept. of CSE, AC Tech, Karaikudi-630 004. |  |
| University Nominees | |
| Dr.P.Latha Associate Professor, Department of CSE, GCE, Tuirunelveli |  |
| Industrial Experts | |
| Shri. E. Khalieraaj Regional Director, National Cyber Safety and Security Standards National Cyber Defence Research Centre (NCDRC) Team, New Delhi |  |

| | |
|---|--|
| Mr. Somu Chockalingam, Director, Doyen Systems Pvt Ltd Ekkatuthangal, Guindy, Chennai, Tamil Nadu 600032 |  |
| Special Invitee | |
| Dr. A.Soundarajan Associate Professor, Department of IT, PSG College of Technology, Peelamedu Coimbatore - 641 004 |  |
| Student Members | |
| Ms. K.Anitha, Final year |  |
| Mr. M.Balasubramanian, Final year |  |


18/11/13
CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 7th BoS Meeting (Phase – II)

As per BOS Committee suggestion,

- In Information Security and cryptography, advanced concepts in cryptography are added as one unit.
- Contents related to DB security are added in Data and Cloud Security.
- In Digital Forensics, the topics such as Evidence collection, transportation, Presentation techniques are included.
- For Vulnerability Assessment Laboratory, Password and mobile hacking contents are added and various open source tools are given.
- Security protocols, layers, Security in Ethernet, Hub, Switches and bridges contents are added in Network and Wireless Security and recent edition books are added.
- In Operating System Security, Process & memory management, Device and File management, Security issues in OS, Trusted OS, Security Applications contents are included.
- Global Cyber Warfare syllabus is reframed.


CHAIRMAN
BOARD OF STUDIES

Department of Civil Engineering

National Engineering College, K.R.Nagar, Kovilpatti– 628503

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5th Board of studies Meeting in the Department of
Civil Engineering

Venue: Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628503

Date & Time: 18.11.2017 & 2:30 pm

Agenda

- | | | |
|----------------|---|--|
| Civil /BoS 6.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Civil Engineering |
| Civil/BoS 6.2 | : | Confirmation of the Minutes of the 5 th meeting of Board of studies in the department of Civil Engineering held on 18.03.2017 and Action taken report of 5 th meeting of Board of studies |
| Civil/BoS 6.3 | : | Business brought forward by the Chairman, Board of studies 6.3.1. Addition of one credit courses |
| Civil/BoS 6.4 | : | Any other items |
| Civil/BoS 6.5 | : | Suggestions given by the BoS Members |

Department of Civil Engineering

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MINUTES OF THE MEETING

The 6th Meeting of the Board of studies of the Civil Engineering was held on 18th November 2017 at 2:00 pm in the conference hall of the National Engineering College, K.R.Nagar, Kovilpatti - 628503

1. The following members were present:

| | | |
|----|---|--------------------|
| 1 | Dr.C.PuthiyaSekar Professor Department of civil Engineering National Engineering college Kovilpatti. | Chairman |
| 2 | Dr.K.Arunachalam, Professor and Dean (Academic), Department of Civil Engineering, Thiagarajar College of Engineering, Madurai – 625015 | Academic Expert. |
| 3. | Dr.G.Elangovan, Associate Professor, Department of Civil Engineering, University College of Engineering , Pattukkottai – 614 701 | University Nominee |
| 4. | Er.S.Subburaj Creative Industries, Kundampatti Sevalpatti(PO)-626 140 | Industrial Expert, |
| 5. | Dr.S.S.Mariappan - Asso.Prof(SG) Chemistry | Internal Member |
| 6. | Mrs.P.Gomathy – Asst.Prof-Physics | Internal Member |

| | | |
|-----|--------------------------------|-----------------|
| 7. | Mrs.R.Venkada Lakshmi AP-Civil | Internal Member |
| 8. | Mr.S.Sebastin AP-Civil, | Internal Member |
| 9. | Ms.A.LillyJoice AP-Civil, | Internal Member |
| 10. | Mr.P.S.NaufalRizwan AP-Civil | Internal Member |
| 11. | Ms.C.ChellaGifita AP-Civil | Internal Member |

2. Expert Members Dr.P.Jayabalan (Academic Expert), *Dr.S.Selvan*(Industrial Expert) and *Mr.C.AnanthaVignesh* (Industrial Expert) could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence:

Civil/BoS 6.1 The Chairman BoS of the Department of Civil Engineering welcomed and introduced the Members of first Executive Council and thanked each one of them for sparing their valuable time to attend the meeting.

Civil/ BoS 6.2 The minutes of the **Fifth Board of Studies meeting** held on 18th March 2017 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 6th Academic council.

Civil / BoS 6.3 The curriculum and syllabi of various one credit courses for the UG degree programme (based on OBE & CBCS) to be offered under R-2015 was presented by Mr.P.S.NaufalRizwan AP/Civil for Approval.

Civil/ BoS 6.4 The BOS members had a discussion with the internal members regarding the difficulties in the subject while handling the classes. The suggestions were given to them regarding the course materials available for their self improvement in the area of the given one credit course list

Civil/ BoS 6.5 Dean Academic had a discussion with the expert members about the live in lab

Civil/ BoS6.5 : **Suggestions given by the BoS Members**

6.5.1 All the Courses have been accepted by the Board of study members without any suggestions.




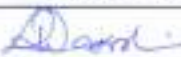
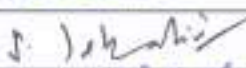





The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for One credit courses B.E. / B.Tech. Civil Engineering degree course offered under Regulation 2015.

Mr.S.Sebastin AP-Civil thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

| <i>Board Chairman</i> | |
|--|--|
| Dr.C.PuthiyaSekar Professor Department of civil Engineering National Engineering college Kovilpatti. |  |
| <i>Internal Members</i> | |
| Dr.S.S.MariappanAsso.Prof(SG)- Chemistry |  |
| Mrs.P.Gomathy AP-Physics |  |
| Mrs.R.Venkada Lakshmi AP-Civil |  |
| Mr.S.Sebastin AP-Civil |  |
| Ms.A.LillyJoice AP-Civil |  |
| Mr.P.S.NaufalRizwan AP-Civil |  |
| Ms.C.ChellaGifita AP-Civil |  |
| <i>Academic Experts</i> | |
| Dr.K.Arunachalam , Professor & Dean (Academic), Department of Civil Engineering, Thiagarajar College of Engineering, Madurai - 625015. |  |
| <i>University Nominees</i> | |
| Dr.G.Elangovan, Associate Professor, Department of Civil Engineering, University College of Engineering , Pattukkottai - 614 701 |  |

| | |
|---|--------------------|
| <i>Industrial Experts</i> | |
| Er.S.Subburaj Creative Industries, Kundampatti Sevalpatti(PO)-626 140 | <i>A. Subburaj</i> |
| <i>Student Members Nominated by the HOD</i> | |
| Ms.P.Nishanthi - Final Civil | <i>Nishanthi</i> |



CHAIRMAN

BOARD OF STUDIES