

NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution)

K.R.NAGAR, KOVILPATTI – 628 503



THIRD BOARD OF STUDIES MEETING – MINUTES

Duration:
16 – 25th FEBRUARY 2013

Venue: *Conference Hall in the Administrative Block*

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Mechanical Engineering

Third Board of Studies meeting for the Department of Mechanical Engineering was held on 23/02/2013 (Saturday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.D.Ravindran, Prof. & Head/Mechanical, the Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|-----------------|
| Dr.A.Noorul Haq
Professor / Production Engg.
National Institute of Technology
Tiruchirappalli – 620015 | - | External Member |
| Dr. K. Srithar
Assistant Professor / Mechanical Engg.
Thiagarajar College of Engineering,
Madurai - 625 015 | - | External Member |
| Mr.J.Jeyaprakash
Managing Director
Vijay Tool Room Pvt. Ltd.
Uthangudi, Madurai – 625107 | - | External Member |
| Dr.V. Manikandan
Principal
Veerasamy Chettiar College of Engineering,
SV Nagar, Puliangudi – 627 855
Tirunelveli Dist. | - | External Member |
| Dr.S.Rajakumar
Assistant Professor / Mechanical Engg.
Regional Centre -Anna University Chennai
Tirunelveli - 627 007 | - | External Member |

Dr.D.Ravindran Prof. & Head / Mechanical	-	Chairman
Dr.K.Manisekar Professor & Head / CMS	-	Member
Dr.K.Kalidasa Murugavel Professor & Head / CES	-	Member
Dr.C.Puthiasekar Professor & Head / Civil	-	Member
Mr.G.Esakkimuthu Associate Professor (SG)	-	Member
Dr.H.Kanagasabapathy Associate Professor (SG)	-	Member
Mr.D.Venatkumar Assistant Professor (SG)	-	Member
Mr.S.Arulsevan Assistant Professor	-	Member

Special Invitees

Dr.Kn.K.S.K.Chockalingam
Director

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

**03.01. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 3.0 AND 4.1
OF REGULATIONS – 2011 FOR UG DEGREE COURSE**

**03.02. B.E (MECHANICAL) – REGULATIONS - 2011 CURRICULUM and SYLLABI
FOR THIRD YEAR**

- The B.E.(Mechanical) Curriculum and Syllabi for Third year was presented by Dr.D.Ravindran, Prof. & Head / Mechanical, Chairman of the Board of Studies.

RES. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 2.1 AND 4.3.4 OF REGULATIONS – 2011 FOR PG DEGREE COURSE

RES. TO CONSIDER AND APPROVE THE REGULATIONS – 2013 FOR PG DEGREE COURSE

RES. M.E. (ENERGY ENGINEERING) – REGULATIONS – 2013 CURRICULUM AND SYLLABI FOR FIRST YEAR

- The M.E (EE) Curriculum and Syllabi for First year was presented by Dr.K.Kalidasa Murugavel, Prof. & Head / CES.

RES. M.Tech. (PRODUCTION ENGINEERING) – REGULATIONS 2013 CURRICULUM AND SYLLABI FOR FIRST YEAR

- The M.Tech. (PE) Curriculum and Syllabi for First year was presented by Dr.K.Manisekar, Prof. & Head / CMS.
- ✓ The members had the brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were incorporated appropriately in the Curriculum and Syllabi.
 - ✓ Based on the suggestions given by the members, BOS resolved to approve the following:
 - a) The amendment to clause 3.0 and 4.1 of Regulations – 2011 for UG degree courses as per Annexure – I.
 - b) The Curriculum and Syllabi for Third year B.E (Mechanical) degree course offered under Regulations 2011.
 - c) The amendment to clause 2.1 and 4.3.4 of Regulations – 2011 for PG degree courses as per Annexure – II.
 - d) Regulations – 2013 for PG degree courses.
 - e) The Curriculum and Syllabi for First year M.E (Energy Engineering) degree course offered under Regulations 2013.
 - f) The Curriculum and Syllabi for First year M.Tech (Production Engineering) degree course offered under Regulations 2013.

g) The suggestions by the BOS members are attached in Annexure III

Dr.D.Ravindran, Prof. & Head / Mechanical Chairman of Board of Studies
thanked all the members for their kind cooperation and the meeting came to an end.


25/2/15
Chairman / Mechanical Board



ANNEXURE – I

Modifications in Regulations – 2011 for UG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments									
<p>Clause 3.0</p> <p>Branch - I : Mechanical Engineering</p> <p>Branch - II : Electronics and Communication Engineering</p> <p>Branch - III : Computer Science and Engineering</p> <p>Branch - IV : Electrical and Electronics Engineering</p> <p>Branch - V : Electronics and Instrumentation Engineering</p> <p>Branch - VI : Information Technology</p>	<ol style="list-style-type: none"> 1. B.E. (Mechanical Engineering) 2. B.E. (Electronics and Communication Engineering) 3. B.E. (Computer Science and Engineering) 4. B.E. (Electrical and Electronics Engineering) 5. B.E. (Electronics and Instrumentation Engineering) 6. B.E. (Civil Engineering) 7. B.Tech. (Information Technology) 									
<p>Clause 4.1</p> <p>The duration for the B.E. / B.Tech. Degrees shall extend over a period of eight (8) semesters and (6) six semesters for the regular and lateral entry candidates admitted in the first semester and third semester respectively.</p>	<p>The minimum and maximum period for completion of the UG programs are given below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Program</th> <th style="text-align: center;">Minimum No. of semesters</th> <th style="text-align: center;">Maximum No. of semesters</th> </tr> </thead> <tbody> <tr> <td>B.E / B.Tech</td> <td style="text-align: center;">8</td> <td style="text-align: center;">14</td> </tr> <tr> <td>B.E / B.Tech Lateral Entry</td> <td style="text-align: center;">6</td> <td style="text-align: center;">12</td> </tr> </tbody> </table>	Program	Minimum No. of semesters	Maximum No. of semesters	B.E / B.Tech	8	14	B.E / B.Tech Lateral Entry	6	12
Program	Minimum No. of semesters	Maximum No. of semesters								
B.E / B.Tech	8	14								
B.E / B.Tech Lateral Entry	6	12								



ANNEXURE – II

Modifications in Regulations – 2011 for PG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments
<p>Clause 2.1</p> <ol style="list-style-type: none"> 1. M.E. (Energy Engineering) 2. M.Tech.(Production Engineering) 3. M.E. (Computer Science and Engineering) 4. M.E. (Computer and Communication) 5. M.E. (Communication Systems) 6. M.E. (High Voltage Engineering) 7. M.E. (Control and Instrumentation) 8. M.C.A (Master of Computer Applications) 	<ol style="list-style-type: none"> 1.M.E. (Energy Engineering) 2. M.Tech.(Production Engineering) 3.M.E. (Computer Science and Engineering) 4.M.E. (Computer and Communication) 5.M.E. (Communication Systems) 6.M.E. (High Voltage Engineering) 7.M.E. (Control and Instrumentation) 8.M.E. (Embedded Systems Technologies) 9.M.C.A (Master of Computer Applications)
<p>Clause 4.3.4</p> <p>Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience in teaching PG courses.</p>	<p>Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience.</p>



ANNEXURE – III

The suggestions offered by the BOS members for third year (V and VI Semester) B.E.(Mechanical Engineering) is given below.

1. The text and reference books recent edition has to be identified and updated.
2. Every subject in each semester has been carefully gone through and suggestions given by board of studies members were noted down.
3. The syllabus for laboratory classes is also analyzed and suggestions of the members were noted down. It is decided to give minimum of 12 experiments in laboratory classes uniformly for all practical classes.
4. The M.E. Energy Engineering Syllabus for both the years (4 semesters) was presented and the curriculum and syllabus for each subject have been gone through and suggestions by the BOS members were noted down.
5. The M.Tech. Production Engineering Syllabus for both the years (4 semesters) was presented and the curriculum and syllabus for each subject have been gone through and suggestions by the BOS members were noted down.



Members Present:

Dr.K.Srithar



Dr.V.Manikandan



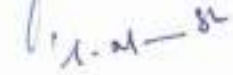
Dr.S.Rajakumar



Dr.D.Ravindran



Dr.K.Manisekar



Dr.K.Kalidasa Murugavel



Dr.C.Puthiasekar



Mr.G.Esakkimuthu



Dr.H.Kanagasabapathy



Mr.D.Venkatkumar



Mr.S.Arulselvan



Dr.Kn.K.S.K.Chockalingam



Dr.P.Subburaj



Dr.B.Sankaragomathi



Chairman / Mechanical Board

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution Affiliated to Anna University Chennai)

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Computer Science and Engineering

Third Board of Studies meeting for the Department of Computer Science and Engineering was held on 23/02/2013 (Saturday) at CISCO Networking Academy Lab of Computer Science and Engineering Department, National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.B.Paramasivan, Prof.& Head/CSE, the Chairman of the Board of Studies. **Ms.V.Vimala**, Assistant Professor (Senior Grade)/CSE welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|-----------------|
| Dr.L.Ganesan
Professor & Head / CSE
Alagappa Chettiar College of Engg. & Technology
Karaikudi – 630 004 | - | External Member |
| Dr.K. Muneeswaran
Professor & Head / CSE
Mepco Engineering College
Sivakasi – 626 005. | - | External Member |
| Mrs.A.Sakthi Bharathi
Asst. Professor / CSE
University VOC College of Engineering
Thoothukudi - 628 008 | - | External Member |
| Dr.K.Kesavasamy
Head, Academic Interface
Tata Consultancy Service Ltd
Trivandram. | - | External Member |
| Mr. Somu Chockalingam
Director, Doyensys
672 Anna Salai,
Chennai - 600 035 | - | External Member |

Dr.B.Paramasivan Prof. & Head / CSE	-	Chairman
Dr.V.Seenivasagam Controller of Examinations	-	Member
Dr.K.G.Srinivasagan Prof. & Head / CSE (PG)	-	Member
Dr.V.Gomathi Associate Prof. (SG) / CSE	-	Member
Dr.V.Kalaivani Associate Prof. (SG) / CSE (PG)	-	Member
Ms.V.Vimala Asst. Prof. (SG) / CSE	-	Member
Mr.K.Mohaideen Pitchai Asst. Prof. (SG) / CSE	-	Member
Ms.P.BamaRuckmani Asst. Prof. / CSE (PG)	-	Member
Ms.M.Bhuvaneshwari Asst. Prof. / CSE	-	Member
Ms.G.Sivakama Sundari Assistant Professor	-	Member
Mr.S.Anantha Kumaran Assistant Professor / CSE (PG)	-	Member

Special Invitees

Dr.Kn.K.S.K.Chockalingam
Director

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

3.01. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 3.0 AND 4.1 OF REGULATIONS – 2011 FOR UG DEGREE COURSE

3.02. B.E (CSE) – REGULATIONS - 2011 CURRICULUM FOR THIRD & FINAL YEAR AND SYLLABI FOR THIRD YEAR.

- The B.E.(CSE) Curriculum for Third & Final year and Syllabi for Third year was presented by Dr.V.Gomathi, Associate Professor(Senior Grade)/CSE

3.03. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 2.1 AND 4.3.4 OF REGULATIONS – 2011 FOR PG DEGREE COURSE

3.04. TO CONSIDER AND APPROVE THE REGULATIONS – 2013 FOR PG DEGREE COURSE

3.05. M.E. (COMPUTER SCIENCE AND ENGINEERING) – REGULATIONS – 2013 CURRICULUM AND SYLLABI FOR FIRST YEAR

- The M.E (CSE) Curriculum and Syllabi was presented by Dr.V.Kalaivani, Associate Professor (Senior Grade)/CSE (PG).

3.06. M.C.A. (MASTER OF COMPUTER APPLICATIONS) – REGULATIONS 2013 CURRICULUM AND SYLLABI FOR FIRST YEAR

- The M.C.A Curriculum and Syllabi for First year was presented by Mr. S.Anantha Kumaran, Assistant Professor (Senior Grade)/CSE (PG).

✓ The members had the brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were incorporated appropriately in the Curriculum and Syllabi.

✓ Based on the suggestions given by the members, BOS resolved to approve the following:

- a) The amendment to clause 3.0 and 4.1 of Regulations – 2011 for UG degree courses as per Annexure – I.
- b) The Curriculum for Third and Final years and Syllabi for Third year B.E (CSE) degree course offered under Regulations 2011.
- c) The amendment to clause 2.1 and 4.3.4 of Regulations – 2011 for PG degree courses as per Annexure – II.
- d) Regulations – 2013 for PG degree courses.
- e) The Curriculum and Syllabi for M.E (CSE) degree course offered under Regulations 2013.

- f) The Curriculum and Syllabi for First year M.C.A degree course offered under Regulations 2013.

Ms.G.Sivakamasundari, Assistant Professor/CSE thanked all the members for their kind cooperation and the meeting came to an end.


Chairman / CSE Board



ANNEXURE – I

Modifications in Regulations – 2011 for UG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments									
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<p>Clause 4.1</p> <p>The duration for the B.E. / B.Tech. Degrees shall extend over a period of eight (8) semesters and (6) six semesters for the regular and lateral entry candidates admitted in the first semester and third semester respectively.</p>	<p>The minimum and maximum period for completion of the UG programs are given below.</p> <table border="1" data-bbox="725 823 1314 976"> <thead> <tr> <th>Program</th> <th>Minimum No. of semesters</th> <th>Maximum No. of semesters</th> </tr> </thead> <tbody> <tr> <td>B.E / B.Tech.</td> <td>8</td> <td>14</td> </tr> <tr> <td>B.E / B.Tech. Lateral Entry</td> <td>6</td> <td>12</td> </tr> </tbody> </table>	Program	Minimum No. of semesters	Maximum No. of semesters	B.E / B.Tech.	8	14	B.E / B.Tech. Lateral Entry	6	12
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ANNEXURE – II

Modifications in Regulations – 2011 for PG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments
<p>Clause 2.1</p> <ol style="list-style-type: none"> 1. M.E. (Energy Engineering) 2. M.Tech. (Production Engineering) 3. M.E. (Computer Science and Engineering) 4. M.E. (Computer and Communication) 5. M.E. (Communication Systems) 6. M.E. (High Voltage Engineering) 7. M.E. (Control and Instrumentation) 8. M.C.A (Master of Computer Applications) 	<ol style="list-style-type: none"> 1. M.E. (Energy Engineering) 2. M.Tech. (Production Engineering) 3. M.E. (Computer Science and Engineering) 4. M.E. (Computer and Communication) 5. M.E. (Communication Systems) 6. M.E. (High Voltage Engineering) 7. M.E. (Control and Instrumentation) 8. M.E. (Embedded Systems Technologies) 9. M.C.A (Master of Computer Applications)
<p>Clause 4.3.4</p> <p>Project work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience in teaching PG courses.</p>	<p>Project work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience.</p>



B.E Curriculum and Syllabi (V-VI) Regulations 2011)

- Overall credits for B.E can be reduced nearing to AICTE norms.
- In Comprehension, subjects can be framed as different groups and the students may be given a chance to select one group and they can be exclusively coached in that particular group.
- Web technology can be given 4 credits. New DBMS technologies and web oriented advance SQL tools to be covered in 5th Unit to design systems for social purposes.
- Online Course materials can be made available by the college also.
- Good Caliber students can be given more credits if they have additional value added courses certificate.
- Fast track: Students if they really deserve, can be allowed to study the final year subjects while they are in the earlier semesters.
- Industry institution interaction must be in a regular basis.
- Advanced Computer Architecture, Embedded Systems, Distributed Systems and Artificial Intelligence may be made as mandatory subjects.
- A couple of 'other' stream courses may be shifted to 'electives' section to enable the inclusion of these four as mandatory subjects.
- A lot of focus on English and communication is important for rural colleges.
- Refer to a recent article on the subject: "Integrating Embedded Computing Systems Into High School and Early Undergraduate Education", IEEE TRANSACTIONS ON EDUCATION, VOL. 54, NO. 2, MAY 2011.
- The curriculum and syllabi design is well distributed to widen the employability skills of students in major disciplines such as Software Engineering, Information Systems, Information Technology, and Computer Science & Computer Engineering at student's point of view.
- The knowledge areas (At par with ACM-IEEE format) to be gained through the regulations 2011 is presented and well recommended.

AD

II. M.E -CSE Curriculum & syllabi (Regulations 2013)

- Grid computing can be combined with Cloud computing.
- Methods of Selfish / Malicious node detection subject title can be modified and the malicious node detection concept may be included in the syllabus.
- Digital Imaging tools can be included in Digital Imaging subject.
- Optimization techniques can be added in Unit-5 of Soft computing.
- Big Data analysis concept can be included in Ontology and semantic web / Information Retrieval Technique subject.

III. MCA Curriculum & Syllabi (Regulations 2013)

- System Administration & Management subject can be renamed as Infrastructure Administration & Management.
- Ethics subject can be given as compulsory elective and also can be offered in V semester.
- Semester wise credits can be verified with AICTE recommendations.

IV. Common for all courses (B.E-CSE (R 2011)/ M.E-CSE(R 2013)/ MCA(R 2013))

- For each course, it is preferable to set the objectives corresponding to the number of units (minimum five objectives for five units).
- It is better to quote the PEO and PO of the programme and map PEO with course objective and PO with course outcomes.
- Wherever possible in the laboratory classes, mini-project could be included.

Members Present:

Dr.L.Ganesan

Mrs.A.Sakthi Bharathi

Mr. Somu Chockalingam

Dr.B.Paramasivan

Dr.V.Seenivasagam

Dr.K.G.Srinivasagan

Dr.V.Gomathi

Dr.V.Kalaivani

Ms.V.Vimala

Mr.K.Mohaideen Pitchai

Ms.P.BamaRuckmani

Ms.M.Bhuvaneswari

Ms.G.Sivakama Sundari

Mr.S.Anantha Kumaran

Dr.Kn.K.S.K.Chockalingam

Dr.P.Subburaj

Dr.B.Sankaragomathi

[Signature]

A. Sakthi. Bharathi

C. Somu

B. Paramasivan

V. Seenivasagam

K. G. Srinivasagan

V. Gomathi

V. Kalaivani

V. Vimala

M. Mohaideen Pitchai

P. BamaRuckmani

M. Bhuvaneswari

G. Sivakama Sundari

S. Anantha Kumaran

Dr. Kn. K. S. K. Chockalingam

P. Subburaj

B. Sankaragomathi

[Signature]

Chairman / CSE Board

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution Affiliated to Anna University Chennai)

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Electronics and Communication Engineering

Third Board of Studies meeting for the Department of Electronics and Communication Engineering was held on 16/02/2013 (Saturday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.A.Shenbagavalli, Professor & Head/ECE, the Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|--|
| Dr. N. Kumaravel
Professor and Head / ECE
Anna University, Guindy Campus
Chennai - 25 | - | External Member |
| Dr.V.Palanisamy
Principal
Info Institute of Engineering
S.F.No.194-200, Sathy Road
Coimbatore - 07 | - | External Member |
| Mrs.S.Suja Priyadharshini
Assistant Professor / ECE
Anna University of Technology Tirunelveli
Tirunelveli - 07 | - | External Member |
| Dr. J. Klutto Milleth
Principal Research Engineer
Centre of Excellence in Wireless Technologies
IITM Research Park,
Chennai - 13 | - | External Member |
| Mr. M. Ramkumar
Frontline Electronics Private Limited
Pandian Street, Alagapuram
Salem - 16 | - | External Member
(Special Invitee from industry) |
| Dr.A.Shenbagavalli
Prof.&Head/ECE | - | Chairman |

Dr.S.Tamil Selvi Prof.&Head/ECE(PG)	-	Internal Member
Mr.N.Arumugam Asso.Professor/ECE	-	Internal Member
Dr.N.Shanthi Asso.Professor(SG)/ECE	-	Internal Member
Mr.V.R.S.Mani Asso.Professor/ECE	-	Internal Member
Mr.T.Devakumar Asst.Professor(SG)/ECE	-	Internal Member
Mrs.S.D.Jayavathy Asst.Professor(SG)/ECE	-	Internal Member

Special Invitees

Dr.Kn.K.S.K.Chockalingam
Director

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

03.01. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 3.0 AND 4.1 OF REGULATIONS – 2011 FOR UG DEGREE COURSE

03.02. B.E (ECE) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR THIRD YEAR

- The B.E.(ECE) Curriculum and Syllabi for Third year and curriculum for Final year were presented by **Dr.A.Shenbagavalli, Prof.&Head/ECE**, Chairman of the Board of Studies.

03.03. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 2.1, AND 4.3.4 OF REGULATIONS – 2011 FOR PG DEGREE COURSE

03.04. TO CONSIDER AND APPROVE THE REGULATIONS – 2013 FOR PG DEGREE COURSE

03.05. TO CONSIDER AND APPROVE TO CHANGE THE NAME OF THE ELECTIVE SUBJECT “ELECTROMAGNETIC INTERFERENCE AND ELECTROMAGNETIC COMPATIBILITY”

3.06. M.E. (COMMUNICATION SYSTEMS) – REGULATIONS – 2013

CURRICULUM AND SYLLABI FOR FIRST AND SECOND YEAR

- The M.E (CS) Curriculum and Syllabi for first and second year were presented by **Dr.S.Tamilselvi, Prof. & Head / ECE(PG)**.

3.07. M.E. (EMBEDDED SYSTEMS TECHNOLOGIES) – REGULATIONS 2011
CURRICULUM AND SYLLABI FOR FIRST AND SECOND YEAR

- The M.E (EST) Curriculum and Syllabi for First and Second year were presented by **Dr.S.Tamilselvi, Prof.&Head/ECE(PG)**.
- ✓ The members had a brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were incorporated appropriately in the Curriculum and Syllabi.
- ✓ Based on the suggestions given by the members, BOS resolved to approve the following:
 - a) The amendment to clause 3.0 and 4.1 of Regulations – 2011 for UG degree courses as per Annexure – I.
 - b) The Curriculum and Syllabi for third year and curriculum for final year B.E (ECE) degree course offered under Regulations 2011.
 - c) The amendment to clause 2.1 and 4.3.4 of Regulations – 2011 for PG degree courses as per Annexure – II.
 - d) Regulations – 2013 for all PG degree courses.
 - e) The Curriculum and Syllabi for first and second year M.E (CS) degree course offered under Regulations 2013.
 - f) The Curriculum and Syllabi for first and second year M.E (EST) degree course offered under Regulations 2011.
 - g) The suggestions by the BOS members are attached in Annexure - III.

Dr.S.Tamilselvi, Prof.&Head/ECE(PG) thanked all the members for their kind cooperation and the meeting came to an end.


Chairman / ECE Board 2013



ANNEXURE – I

Modifications in Regulations – 2011 for UG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments									
<p>Clause 3.0</p> <p>Branch - I : Mechanical Engineering</p> <p>Branch - II : Electronics and Communication Engineering</p> <p>Branch - III : Computer Science and Engineering</p> <p>Branch - IV : Electrical and Electronics Engineering</p> <p>Branch - V : Electronics and Instrumentation Engineering</p> <p>Branch - VI : Information Technology</p>	<ol style="list-style-type: none"> 1. B.E. (Mechanical Engineering) 2. B.E. (Electronics and Communication Engineering) 3. B.E. (Computer Science and Engineering) 4. B.E. (Electrical and Electronics Engineering) 5. B.E. (Electronics and Instrumentation Engineering) 6. B.E. (Civil Engineering) 7. B.Tech. (Information Technology) 									
<p>Clause 4.1</p> <p>The duration for the B.E. / B.Tech. Degrees shall extend over a period of eight (8) semesters and (6) six semesters for the regular and lateral entry candidates admitted in the first semester and third semester respectively.</p>	<p>The minimum and maximum period for completion of the UG programs are given below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Program</th> <th style="text-align: center;">Minimum No. of semesters</th> <th style="text-align: center;">Maximum No. of semesters</th> </tr> </thead> <tbody> <tr> <td>B.E / B.Tech</td> <td style="text-align: center;">8</td> <td style="text-align: center;">14</td> </tr> <tr> <td>B.E / B.Tech Lateral Entry</td> <td style="text-align: center;">6</td> <td style="text-align: center;">12</td> </tr> </tbody> </table>	Program	Minimum No. of semesters	Maximum No. of semesters	B.E / B.Tech	8	14	B.E / B.Tech Lateral Entry	6	12
Program	Minimum No. of semesters	Maximum No. of semesters								
B.E / B.Tech	8	14								
B.E / B.Tech Lateral Entry	6	12								

ANNEXURE – II

Modifications in Regulations – 2011 for PG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments
<p>Clause 2.1</p> <ol style="list-style-type: none"> 1. M.E. (Energy Engineering) 2. M.Tech.(Production Engineering) 3. M.E. (Computer Science and Engineering) 4. M.E. (Computer and Communication) 5. M.E. (Communication Systems) 6. M.E. (High Voltage Engineering) 7. M.E. (Control and Instrumentation) 8. M.C.A (Master of Computer Applications) 	<ol style="list-style-type: none"> 1. M.E. (Energy Engineering) 2. M.Tech.(Production Engineering) 3. M.E. (Computer Science and Engineering) 4. M.E. (Computer and Communication) 5. M.E. (Communication Systems) 6. M.E. (High Voltage Engineering) 7. M.E. (Control and Instrumentation) 8. M.E. (Embedded Systems Technologies) 9. M.C.A (Master of Computer Applications)
<p>Clause 4.3.4</p> <p>Project work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience in teaching PG courses.</p>	<p>Project work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience.</p>

ANNEXURE III

The members had a thorough discussion and following points have been suggested:

1. B.E., (ECE)-REGULATIONS-2011 CURRICULAM AND SYLLABI FOR THIRD YEAR (V SEM AND VI SEM)

- Mathematics preliminaries may be included in most of the subjects to have a better understanding of the subject.
- Latest Edition Text books and reference Books are recommended for each subject.
- **BEG531 English language laboratory** in VI Semester may be replaced by the Basic Embedded System lab.
- It is better to increase the credit for Project Work as 9 instead of 6 as mentioned in the curriculum.
- Grouping of Electives may be done for each semester with the constraint of prerequisites.
- The Syllabus for **BEC733 Comprehension** with credit 2 given in VII semester curriculum should be framed in such way to give importance for assignments/tutorials (with MATLAB/Verilog/NS2 coding) in the topics like wireless communications, Digital image processing and VLSI design. Title of the course may be changed as Soft skills Development lab instead of Comprehension.
- In **BEC501 Digital Communication**, the topics PAM Generation and Demodulation, PAM/TDM system, PPM generation and demodulation, PWM, Bandwidth –Noise trade off in Unit I may be eliminated. Unit II may be splitted into two units as unit II and III. Unit IV may be renamed as Unit V with Spread spectrum Modulation topic removed.
- **BEC502 Subject** title has to be changed as DSP for Communication Engineering instead of DSP for communication Engineers. DTFT and its properties should be included before DFT in the Unit I.
- In **BEC503**, since the syllabus describes only one microcontroller in detail, the subject title may be changed as Microprocessors and Microcontroller.
- In **BEC504 Transmission Lines and Waveguides**, order of filter can be changed in Unit I. After LP, HP, BP and BS filters, then constant-k filters may be added. Telephone

cable may be replaced with coaxial cable in Unit II. The contents of Unit IV and V may be put in a more compact form by removing the redundant words.

- In **BEC531 Digital Signal Processing Laboratory**, DFT computation may be done using processor.
- In **BEC602 Computer Communication Networks**, the title for the Unit I may be changed as Introduction to Computer Communication Networks and Physical Layer. Wireless LAN IEEE 802.11 scope can be suitably defined such as frame format, principle, accessing scheme in Unit II.
- In **BEC603 Antenna and Wave Propagation**, the following antenna parameters Directivity, Radiation resistance and Mutual impedance may be added after the topic Gain in Unit I. In Unit II, Log Periodic Yagi array may be replaced with Log Periodic dipole array. Special antennas and Antenna measurements, Anechoic chamber measurement may be replaced by Anechoic chamber in Unit IV.
- In **BEC001 Medical Electronics**, bio signals may be added in unit I. Macro Shock and Micro Shock i.e. Electrical Safety may be added in Unit I instead of Unit III. DC Debrillator may be replaced with Fibrillator and defibrillator in Unit III. Ultrasound, MRI, CT, PET may be included In Unit V.
- In **BEC521, Principles of Communication Systems**, Unit V may be replaced with Equalization Technique instead of Spread spectrum and multiple access techniques.
- In **BEC023 ARM Processor and Interfacing**, Unit I ARM Embedded Systems, Unit II ARM processor fundamentals and Unit III Introduction to the ARM Instruction set may be reordered as Unit III, I and II respectively. The subject has to be removed from the elective list.

2. M.E. (COMMUNICATION SYSTEMS)-REGULATIONS-2013 CURRICULUM AND SYLLABI FOR I, II, III & IV SEMESTERS

- In **MMA103 Applied Mathematics for Communication Engineers**, Application to communication may be included in unit I. Circulant matrix may be added after toeplitz matrices in Unit II. Topics such as pseudo inverse and least square approximation may be included
- The Subject **MCE101 Advanced Radiation Systems** may be moved to elective list. In MCE 101, the title may be changed as EMI/EMC and Antenna Measurements instead of EMC Antenna and Antenna Measurements in Unit V. Also Concept of EMC measuring antenna may be replaced with Concept of EMI/EMC.
- In **MCE102 Modern Digital Communication Techniques**, Probability of errors may be included in Unit I. Matched filter, Concepts of Spread spectrum communication may be removed in unit III. Unit III, IV, V, II may be reordered as Unit II, III, IV and V respectively. Title may be changed to Pulse shaping and equalization techniques in Unit V.
- The subject **MCE001 Communication Network Security** may be added as a core subject instead of **MCE101 Advanced Radiation Systems**. Revision on Mathematics for cryptography can be removed and Galois field's in Unit I and modular arithmetic may be included. SHA may be replaced with SHA 512 in Unit III.
- In **MCE103 Advanced Digital Signal Processing**, Yule-walker equations may be removed from Unit I and may be included after model based spectral estimation in Unit II. Signal modeling may be added after Forward and Backward prediction in Unit III. The topic Mathematical description of change of sampling rate may be changed as Upsampling and down sampling in Unit V. Also Decimation by an integer factor, Interpolation by an integer factor and wavelet transform may be removed in Unit V.
- In **MCE131 Communication System Laboratory I**, antenna radiation pattern experiment may be removed. Design of adaptive filters, Implementation of polyphase filter structures may be included.
- In **MCE201 Wireless Mobile Communication**, subject title may be changed as **Advanced Wireless Communication**. The fading in Unit II may be moved to Unit I.

Capacity with Receiver diversity in Unit I may be moved to Unit II. Discrete implementation of Multicarrier modulation can be changed as Space-time Multiplexing in Unit IV.

- **MCE203 Microwave Integrated Circuits** may be moved to elective list.
- In **MCC202 Wireless Networks**, Unit I syllabus is vast. Wireless ATM - HIPERLAN- HIPERLAN-2 and WiMax may be removed from Unit I. Unit II Title may be changed as 3G overview. CDMA 2000 overview, TD-CDMA, TD-SCDMA may be removed from Unit II. Unit III and IV may be swapped. Title of Unit V may be changed to 4G Technology. Advanced Broadband Wireless Access and Services, Multimedia, MVNO may be removed from Unit V. LTE(physical Layer, Down link, up link and MAC layer) may be included in Unit V. Pre-requisite MIMO OFDM is needed. This subject may be moved as core subject in the second semester of ME(CS).
- In **MCE002 RF System Design**, Title of Unit III may be changed as RF Power amplifiers and Feedback Systems. Class A, AB, B, C, D, E and F amplifiers may be replaced with Latest amplifiers in Unit III.
- In **MCE231 Communication System Laboratory II**, Radiation Pattern Measurement and Digital receiver design experiments may be included.
- In **MCE003 DSP Processor Architecture and Programming**, title may be changed as DSP ARCHITECTURE AND PROGRAMMING. Unit III, IV and V may be removed and contents of OMAP may be included.
- In **MCE006 Electromagnetic Interference and Electromagnetic Compatibility**, Title may be changed as Electromagnetic Interference and Compatibility Techniques.
- In **MCE009 Advanced Microprocessors And Microcontrollers**, Unit II content may be moved to MCE003 DSP ARCHITECTURE AND PROGRAMMING. Unit V may be divided into two units.
- In **MCE010 Embedded Systems** Study of university teaching Kit, Keil C software may be included. Basic Embedded system Development Tools-Embest embedded IDE for ARM-Embest ARM development system and Embest JTAG emulator topics may be removed from unit III and the same may be included in Unit V.
- In **MCE012 Wavelets and Multiresolution Processing**, subject title may be changed to Wavelets and Multiresolution Analysis. Unit III and Unit II may be swapped.

- In **MCE014 ASIC Design**, Title for Unit I, Unit II, Unit III and Unit V may be renamed as Introduction to ASIC, Programmable ASIC, Programmable ASIC interconnect and ASIC Construction respectively. Xilinx LCA, Altera MAX 5000 and 7000 may be removed from Unit III.
- In **MCE015 Nonlinear Fiber Optics**, The term Qualitative treatment may be removed from Unit III.
- In **MCE016 Optical Fiber Communication and Networking**, Title of Unit II may be changed as Optical Transceiver.
- In **MCE017 VLSI Signal Processing**, Unit IV and V may be swapped.
- In **MCE018 Satellite Communication**, Coding Schemes may be included before multiple access schemes. GPS Position location principles may be replaced with GPS principles.

3. **M.E. (EMBEDDED SYSTEMS TECHNOLOGIES)-REGULATIONS-2011 CURRICULUM AND SYLLABI FOR I, II, III & IV SEMESTERS**

- In **MES101 Real Time Systems**, Title of Unit IV may be changed as Fault Tolerance Systems.
- In **MES102 Mixed Signal Processor**, Unit-I title may be changed as Introduction to Embedded System Architecture. RISC and CISC architecture comparison may be removed and processor related to Mixed Signal Processing may be given in Unit-I. Example-Real time clock may be removed in Unit-III. Unit III and Unit IV may be swapped.
- In **MES103 Advanced Computer Architecture**, Unit II and III may be swapped.
- In **MES104 Modern Digital System Design**, Title of Unit III may be changed as Fault model and Testing schemes. DFT may be expanded as Design for Testability in Unit III.
- In **MES202 RTOS and its Applications**, Content may be changed in Unit-V.
- In **MES203 Embedded Networking**, Unit-II, III and IV content may be modified. LINBUS may be included.
- In **MES204 VLSI Architecture and Design Methodologies**, Actel ACT - Xilinx LCA - Xilinx EPLD - Altera MAX 5000 and 7000 - Altera MAX 9000 may be removed from Unit-IV and other contents may be elaborated.

- In **MES231 Advanced Embedded System Laboratory**, OMAP experiments may be included in Part-II (RENESAS). Simple DAS with failsafe feature of RC78 micro controller may be created and demonstrated in part II.
- In **MES002 Design of Embedded Control System**, Unit-II title may be changed to RTOS for Control System and the contents may be changed accordingly.
- In **MES003 Embedded Communication and Software Design**, Unit-I and III title may be changed as Introduction & Table and Data Structures respectively.
- In **MES004 Embedded Wireless Sensor Networks**, IEEE802.15 may be removed from Unit-III and Zigbee based Communication may be included.
- In **MES005 Embedded LINUX**, order of Reference Book may be changed.
- In **MES006 RISC Processor Architecture and Programming**, Unit III and V title may be changed as Peripherals instead of Peripheral.

Members Present:

Dr.V.Palanisamy

Palanisamy 16/2/13

Mrs.S.Suja Priyadharshini

- *S.Suja Priyadharshini* 16/2/13

Dr.J.Klutto Milleth

- *J.Klutto Milleth* 16/02/2013

Mr.M.Ramkumar

M.Ramkumar 16/02/13.

Dr.A.Shenbagavalli

A.Shenbagavalli 16/2/2013

Dr.S.Tamil Selvi

S.Tamil Selvi 16/2/13

Mr.N.Arumugam

N.Arumugam 16/2/13

Mr.V.R.S.Mani

V.R.S.Mani 16/2/13

Mr.T.Devakumar

- *T.Devakumar*

Mrs.S.D.Jayavathy

S.D.Jayavathy 16/02/13

Mr. T. Vijayanandh

T. Vijayanandh 16/2/13

Dr.Kn.K.S.K.Chockalingam

Chockalingam 16.2.13

Dr.P.Subburaj

Subburaj 16/2/13

Dr.B.Sankaragomathi

Sankaragomathi 16.2.13.

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution Affiliated to Anna University Chennai)

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Electrical and Electronics Engineering

Third Board of Studies meeting for the Department of Electrical and Electronics Engineering was held on 22/02/2013 (Friday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.P.Subburaj, Principal, the Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|---|---|-----------------|
| Dr.S.Subramanian
Professor / EEE
Annamalai University
Chidambaram - 608 002 | - | External Member |
| Dr. P.Venkatesh
Professor / EEE
Thiagarajar College of Engineering
Madurai – 625 015 | - | External Member |
| Dr.G.Venkatesan
Principal
Narasu's Sarathy Institute of Technology
Poosaripatty, Omalur (TK)
Salem District | - | External Member |
| Mrs.S.Sumathi
Asst. Professor / EEE
University VOC College of Engg,
Thoothukudi - 628 008 | - | External Member |
| Dr.S.Gopal
W.S. Test System Private Limited
27 th K.M, Bellary Road
Bangalore – 562 157 | - | External Member |
| Dr.P.Subburaj
Principal | - | Chairman |

Dr.M.Willjuice Iruthayarajan Asso.Prof.(SG) & Head / EEE	-	Member
Mr.M.Ravindran Associate Prof. / EEE	-	Member
Ms.R.V.Maheswari Asst. Prof. (SG)	-	Member
Mr.G.Kannayeram Asst. Prof. (SG)	-	Member
Ms.L.Kalaivani Asst. Prof. (SG)	-	Member
Mr.N.B.Prakash Asst. Prof. (SG)	-	Member
Mr.R.Karthik Asst. Prof. (SG)	-	Member
Mr.M.P.E.Rajamani Asst. Prof. (SG)	-	Member

Special Invitees

Dr.Kn.K.S.K.Chockalingam
Director

Dr.B.Sankaragomathi
Dean (Academic)

03.01. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 3.0 AND 4.1 OF REGULATIONS – 2011 FOR UG DEGREE COURSE

03.02. B.E (EEE) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR THIRD YEAR AND CURRICULUM FOR FINAL YEAR

- The B.E.(EEE) Curriculum and Syllabi for Third year and Curriculum for Final years were presented by Dr.M.Willjuice Iruthayarajan, Asso. Prof. (SG) & Head /EEE, Member of the Board of Studies.

03.03. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 2.1, AND 4.3.4 OF REGULATIONS – 2011 FOR PG DEGREE COURSE

03.04. TO CONSIDER AND APPROVE THE REGULATIONS – 2013 FOR PG DEGREE COURSE

03.05. M.E. (HIGH VOLTAGE ENGINEERING) – REGULATIONS – 2013 CURRICULUM AND SYLLABI FOR FIRST YEAR AND CURRICULUM FOR SECOND YEAR

- The M.E (HVE) Curriculum and Syllabi for First year and Curriculum for Second year were presented by **Dr.M.Willjuice Iruthayarajan, Asso. Prof. (SG) & Head /EEE.**
- ✓ The members had the brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were incorporated appropriately in the Curriculum and Syllabi.
- ✓ Based on the suggestions given by the members, BOS resolved to approve the following:
 - a) The amendment to clause 3.0 and 4.1 of Regulations – 2011 for UG degree courses as per Annexure – I.
 - b) The Curriculum and Syllabi for Third year and Curriculum for Final year B.E (EEE) degree course offered under Regulations 2011.
 - c) The amendment to clause 2.1 and 4.3.4 of Regulations – 2011 for PG degree courses as per Annexure – II.
 - d) Regulations – 2013 for PG degree courses.
 - e) The Curriculum and Syllabi for First year M.E (HVE) and Curriculum for Second year M.E (HVE) degree course offered under Regulations 2013.

Dr.M.Willjuice Iruthayarajan, Asso. Prof. (SG) & Head /EEE Member of Board of Studies thanked all the members for their kind cooperation and the meeting came to an end.

Chairman / EEE Board

ANNEXURE – I

Modifications in Regulations – 2011 for UG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments									
Clause 3.0 Branch - I: Mechanical Engineering Branch - II: Electronics and Communication Engineering Branch - III: Computer Science and Engineering Branch - IV: Electrical and Electronics Engineering Branch - V: Electronics and Instrumentation Engineering Branch - VI: Information Technology	<ol style="list-style-type: none">1. B.E. (Mechanical Engineering)2. B.E. (Electronics and Communication Engineering)3. B.E. (Computer Science and Engineering)4. B.E. (Electrical and Electronics Engineering)5. B.E. (Electronics and Instrumentation Engineering)6. B.E. (Civil Engineering)7. B.Tech. (Information Technology)									
Clause 4.1 The duration for the B.E. / B.Tech. Degrees shall extend over a period of eight (8) semesters and (6) six semesters for the regular and lateral entry candidates admitted in the first semester and third semester respectively.	<p>The minimum and maximum period for completion of the UG programs are given below.</p> <table border="1"><thead><tr><th>Program</th><th>Minimum No. of semesters</th><th>Maximum No. of semesters</th></tr></thead><tbody><tr><td>B.E / B.Tech</td><td>8</td><td>14</td></tr><tr><td>B.E / B.Tech Lateral Entry</td><td>6</td><td>12</td></tr></tbody></table>	Program	Minimum No. of semesters	Maximum No. of semesters	B.E / B.Tech	8	14	B.E / B.Tech Lateral Entry	6	12
Program	Minimum No. of semesters	Maximum No. of semesters								
B.E / B.Tech	8	14								
B.E / B.Tech Lateral Entry	6	12								

ANNEXURE – II

Modifications in Regulations – 2011 for PG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments
Clause 2.1 <ol style="list-style-type: none">1. M.E. (Energy Engineering)2. M.Tech.(Production Engineering)3. M.E. (Computer Science and Engineering)4. M.E. (Computer and Communication)5. M.E. (Communication Systems)6. M.E. (High Voltage Engineering)7. M.E. (Control and Instrumentation)8. M.C.A (Master of Computer Applications)	<ol style="list-style-type: none">1.M.E. (Energy Engineering)2. M.Tech.(Production Engineering)3.M.E. (Computer Science and Engineering)4.M.E. (Computer and Communication)5.M.E. (Communication Systems)6.M.E. (High Voltage Engineering)7.M.E. (Control and Instrumentation)8.M.E. (Embedded Systems Technologies)9.M.C.A (Master of Computer Applications)
Clause 4.3.4 Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience in teaching PG courses.	Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience.

Members Present:

Dr.S.Subramanian

S. Subramanian

Dr.G.Venkatesan

G. Venkatesan

Mrs.S.Sumathi

S. Sumathi

Dr.P.Subburaj

P. Subburaj

Dr.M.Willjuice Iruthayarajan

M. Willjuice Iruthayarajan

Mr.M.Ravindran

M. Ravindran

Ms.R.V.Maheswari

R.V. Maheswari

Mr.G.Kannayeram

G. Kannayeram

Ms.L.Kalaivani

L. Kalaivani

Mr.N.B.Prakash

N.B. Prakash

Mr.R.Karthik

R. Karthik

Mr.M.P.E.Rajamani

M.P.E. Rajamani

Dr.Kn.K.S.K.Chockalingam

K. S. K. Chockalingam
22.2.13

Dr.B.Sankaragomathi

B. Sankaragomathi


Chairman / EEE Board

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution)

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Electronics and Instrumentation Engineering

Third Board of Studies meeting for the Department of Electronics and Instrumentation Engineering was held on 25/02/2013 (Monday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.A.Abudhahir, Prof. & Head, the Chairman of the Board of Studies welcomed the members for their presence.

BOS Members:

Dr.V.Subbiah Bharathi Principal DMI College of Engineering Palanchur, Chennai – 602 103.	-	External Member
Dr.S.Baskar Professor / EEE Thiyagarajar College of Engineering Madurai, Tamilnadu – 625 015.	-	External Member
Mr.R.Selvashankar Associate General Manager, Sterlite Industries, Tuticorin, Tamilnadu.	-	External Member
Mrs.S.Sumathi Asst. Prof. / EEE University VOC College of Engineering, Tuticorin.	-	External Member
Mr.S.Muralidharan Chief Executive Officer, 134, Arcot Road, Virugambakkam Chennai – 600 092	-	External Member
Dr.A.Abudhahir Professor & Head	-	Chairman
Dr.B.Sankaragomathi Dean (Academic)	-	Member

Mr. Jackson Daniel Associate Professor	-	Member
Mr.K.Shankar Associate Professor	-	Member
Mr.V.Suresh Assistant Professor (SG)	-	Member
Mrs.M.Carmel Sobia Assistant Professor (SG)	-	Member
Mrs.A.Geetha Assistant Professor (SG)	-	Member

Special Invitees

Dr.Kn.K.S.K.Chockalingam
Director

Dr.P.Subburaj
Principal

03.01. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 3.0 AND 4.1 OF REGULATIONS – 2011 FOR UG DEGREE COURSE

03.02. B.E (EIE) – REGULATIONS - 2011 CURRICULUM and SYLLABI FOR THIRD YEAR

- The B.E.(EIE) Curriculum and Syllabi for Third year was presented by **Dr.A.Abudhahir, Prof. & Head**, Chairman of the Board of Studies.

03.03. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 2.1, AND 4.3.4 OF REGULATIONS – 2011 FOR PG DEGREE COURSE

03.04. TO CONSIDER AND APPROVE THE REGULATIONS – 2013 FOR PG DEGREE COURSE

03.05. M.E. (CONTROL AND INSTRUMENTATION) – REGULATIONS – 2013 CURRICULUM AND SYLLABI FOR FIRST YEAR

- The M.E (C&I) Curriculum and Syllabi for First year was presented by **Dr.A.Abudhahir, Prof. & Head**.

- ✓ The members had the brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were incorporated appropriately in the Curriculum and Syllabi.

- ✓ Based on the suggestions given by the members, BOS resolved to approve the following:
- a) The amendment to clause 3.0 and 4.1 of Regulations – 2011 for UG degree courses as per Annexure – I.
 - b) The Curriculum and Syllabi for Third year B.E (EIE) degree course offered under Regulations 2011.
 - c) The amendment to clause 2.1 and 4.3.4 of Regulations – 2011 for PG degree courses as per Annexure – II.
 - d) Regulations – 2013 for PG degree courses.
 - e) The Curriculum and Syllabi for First year M.E (C&I) degree course offered under Regulations 2013.

Dr.A.Abudhahir, Prof.& Head, Chairman of Board of Studies thanked all the members for their kind cooperation and the meeting came to an end.


25/02/19
Chairman / EIE Board

ANNEXURE - I

Modifications in Regulations – 2011 for UG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments									
Clause 3.0 Branch - I: Mechanical Engineering Branch - II: Electronics and Communication Engineering Branch - III: Computer Science and Engineering Branch - IV: Electrical and Electronics Engineering Branch - V: Electronics and Instrumentation Engineering Branch - VI: Information Technology	<ol style="list-style-type: none">1. B.E. (Mechanical Engineering)2. B.E. (Electronics and Communication Engineering)3. B.E. (Computer Science and Engineering)4. B.E. (Electrical and Electronics Engineering)5. B.E. (Electronics and Instrumentation Engineering)6. B.E. (Civil Engineering)7. B.Tech. (Information Technology)									
Clause 4.1 The duration for the B.E. / B.Tech. Degrees shall extend over a period of eight (8) semesters and (6) six semesters for the regular and lateral entry candidates admitted in the first semester and third semester respectively.	<p>The minimum and maximum period for completion of the UG programs are given below.</p> <table border="1"><thead><tr><th>Program</th><th>Minimum No. of semesters</th><th>Maximum No. of semesters</th></tr></thead><tbody><tr><td>B.E / B.Tech</td><td>8</td><td>14</td></tr><tr><td>B.E / B.Tech Lateral Entry</td><td>6</td><td>12</td></tr></tbody></table>	Program	Minimum No. of semesters	Maximum No. of semesters	B.E / B.Tech	8	14	B.E / B.Tech Lateral Entry	6	12
Program	Minimum No. of semesters	Maximum No. of semesters								
B.E / B.Tech	8	14								
B.E / B.Tech Lateral Entry	6	12								

ANNEXURE – II

Modifications in Regulations – 2011 for PG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments
<p>Clause 2.1</p> <ol style="list-style-type: none">1. M.E. (Energy Engineering)2. M.Tech.(Production Engineering)3. M.E. (Computer Science and Engineering)4. M.E. (Computer and Communication)5. M.E. (Communication Systems)6. M.E. (High Voltage Engineering)7. M.E. (Control and Instrumentation)8. M.C.A (Master of Computer Applications)	<ol style="list-style-type: none">1.M.E. (Energy Engineering)2. M.Tech.(Production Engineering)3. M.E. (Computer Science and Engineering)4. M.E. (Computer and Communication)5. M.E. (Communication Systems)6. M.E. (High Voltage Engineering)7. M.E. (Control and Instrumentation)8. M.E. (Embedded Systems Technologies)9. M.C.A (Master of Computer Applications)
<p>Clause 4.3.4</p> <p>Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience in teaching PG courses.</p>	<p>Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience.</p>

Based on the suggestions given by the members, it is resolved to approve the syllabus with the following modifications:

- The BOS resolved to include advance topics in the following courses

B.E.EIE Programme

1. BE1503 - Microprocessor and Microcontroller Programming
2. BE1532 - Microprocessor and Microcontroller Programming Laboratory
3. BE1504 - Communication Systems
4. BE1604 - Digital Signal Processing Systems
5. BE1603 - Process Control
6. BE1632 - Communication and DSP Laboratory

M.E.C&I Programme

1. Process Dynamics and Control
2. Instrumentation for Non-Destructive Testing

- The BOS resolved to change the title of the following theory courses

M.E.C&I Programme

1. Linear Systems (System Theory)
2. Principles of Robotics (Robotics and Industrial Automation)
3. Control System Design (Digital Control System)

- The BOS resolved to rearrange the topics between the units for the following courses






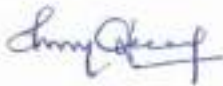
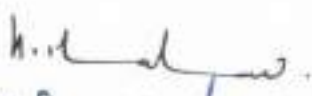


B.E.EIE Programme

1. BE1601 - Analytical Instrumentation
2. BE1501 - Industrial Instrumentation - II

BE1007 - Digital Control System has been shifted from VII Semester elective list to VI Semester elective list ; Similarly, BME014 - Fundamentals of Nano Technology Shifted from VI to VII Semester.


Chairman / EIE Board

Members Present:

- Dr.V.Subbiah Bharathi 
- Dr.S.Baskar 
- Mr.R.Selvashankar 
R. Selvashankar
25/02/13
- Mrs.S.Sumathi 
- Mr.S.Muralidharan 
- Dr.A.Abudhahir 
- Dr.B.Sankaragomathi 
- Mr. Jackson Daniel 
- Mr.K.Shankar 
- Mr.V.Suresh 
- Mrs.M.Carmel Sobia 
- Mrs.A.Geetha 
- Dr.Kn.K.S.K.Chockalingam 
25.2.13
- Dr.P.Subburaj 


25/02/13
Chairman / EIE Board



NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI

(An Autonomous Institution Affiliated to Anna University Chennai)

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Information Technology

Third Board of Studies meeting for the Department of Information Technology was held on 16/02/2013 (Saturday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Mr.S.Sankar Ganesh, Asst. Prof.(SG)/ IT, Member of the Board of Studies welcomed the members for their presence. As the BOS Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|--|
| Dr. M.L.Valarmathi
Professor / CSE
Government College of Technology
Coimbatore – 641 013 | - | External Member |
| Dr. R.Venkatasan
Professor & Head / CSE
PSG College of Technology
Coimbatore – 641 004 | - | External Member |
| Mrs.A.Sakthi Bharathi
Asst. Professor / CSE
University VOC College of Engineering
Thoothukudi – 628 001 | - | External Member |
| Mr. S.V. Srikanth
Deputy General Manager
IBM India Private Limited
Alwarpet, Chennai – 600 018 | - | External Member |
| Mr.Muthusamy Sadaiappan
Vice President
Sri Seshaa Technologies Private Limited
Adyar, Chennai – 600 020 | - | External Member
(Special Invitee from industry) |

Dr.D.Manimegalai Prof. & Head	-	Chairman
Ms.E.Siva Sankari Assistant Professor (SG)/IT	-	Member
Mr.S.Sankar Ganesh Assistant Professor (SG)/IT	-	Member
Ms.A.H.Ragumathunisha Begum Assistant Professor (SG)/IT	-	Member
Mr.R.Muthu Kumar Assistant Professor (SG)/IT	-	Member

Special Invitees

Dr.Kn.K.S.K.Chockalingam
Director

Dr.P.Subburaj
Principal

Dr.V.Seenivasagam
Prof. & COE

Dr.B.Sankaragomathi
Dean (Academic)

03.01. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 3.0 AND 4.1 OF REGULATIONS – 2011 FOR UG DEGREE COURSE

03.02. B.TECH (IT) – REGULATIONS - 2011 CURRICULUM and SYLLABI FOR THIRD and FINAL YEARS

- The B.Tech.(IT) Curriculum and Syllabi for Third and Final years were presented by **Dr.D.Manimegalai, Prof. & Head/IT**, Chairman of the Board of Studies.

03.03. TO CONSIDER AND RATIFY THE AMENDMENT TO CLAUSE 2.1 AND 4.3.4 OF REGULATIONS – 2011 FOR PG DEGREE COURSE

03.04. TO CONSIDER AND APPROVE THE REGULATIONS – 2013 FOR PG DEGREE COURSE

03.05. M.E. (COMPUTER AND COMMUNICATION) – REGULATIONS – 2013
CURRICULUM AND SYLLABI FOR FIRST YEAR

- The M.E (CC) Curriculum and Syllabi for First year was presented by **Ms.E.Siva Sankar**, AP(SG) / IT.
- ✓ The members had the brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were incorporated appropriately in the Curriculum and Syllabi.
- ✓ Based on the suggestions given by the members, BOS resolved to approve the following:
 - a) The amendment to clause 3.0 and 4.1 of Regulations – 2011 for UG degree courses as per Annexure – I.
 - b) The Curriculum and Syllabi for Third and Final years B.Tech (IT) degree course offered under Regulations 2011.
 - c) The amendment to clause 2.1 and 4.3.4 of Regulations – 2011 for PG degree courses as per Annexure – II.
 - d) Regulations – 2013 for PG degree courses.
 - e) The Curriculum and Syllabi for First year M.E (CC) degree course offered under Regulations 2013.

Ms.A.H.Ragumathunisha Begum, **Asst.Prof.(SG) /IT** Member of Board of Studies thanked all the members for their kind cooperation and the meeting came to an end.


Chairman / IT Board

Suggestions given by BOS Members for UG

1. OOAD theory and Lab in Vth Semester may be swapped with Java Programming Theory in VIth Semester and Lab and C# and .Net theory in VIth Semester may be swapped with Digital Signal Processing in Vth Semester.
2. English Language Lab may be given without any credit and instead of that C# and .Net lab can be introduced.
3. In Digital Signal Processing syllabus should be reframed in which 1st unit tells about Signals and Systems and 2nd, 3rd, 4th explains about DSP and final unit must include Applications of DSP.
4. Network Programming and Management may be renamed as Network Programming and Network Management and that syllabus should cover SNMP, and other equivalent protocols like CMIP, element management system, and FCAPS. RFC1157 may be included in Reference List.
5. Open Source theory and Lab in VIIth Semester may be swapped with Web Technology Theory and Lab in VIth Semester.
6. In Elective-I List Numerical Methods may be removed and Distributed Computing may be renamed as Distributed Systems
7. Practical Assignments may be given for necessary elective subjects.
8. Software Testing syllabus should be refined.
9. Resource Management Techniques can be removed from Elective List.
10. Comprehension may be removed and some elective lab can be introduced
11. Grid and Cloud Computing can be renamed as Cloud Computing
12. In VIII Semester at the maximum 3 subjects can be given (1 core and 2 Electives) and the subjects must be lightly loaded subjects such as Principles of Management and Engineering Economics and Financial Accounting.
13. The credit for project should be increased to 12.
14. In all the subjects Text Books and Reference Books must be of Recent Edition.

Suggestions given by BOS Members for PG

1. Applied Mathematics and Communication Engineers the Name and Syllabus should be refined which should include probability, statistics & queuing theory.
2. Modern Digital Communication Techniques may be renamed as Computer Communication Networks and also the syllabus may be reframed.
3. System Programming and Operating System may be renamed as Principles of OS in which first unit should include the concepts of System Software.
4. Internet and Java Programming and Soft Computing can be swapped and Soft Computing can be shifted to Elective List.
5. High Performance Computer Networks may be renamed as Design Principles of Computer Networks and also the syllabus may be reframed.
6. According to the rules of AICTE/UGC 9cores and 6electives should be given for PG course so, for 2nd semester 3core subjects and 3elective subjects may be offered.
7. Instead of Computer and Communication Lab-II, technical seminar may be introduced with 2 credits.
8. Communication Network Security may be renamed as Network Security and also the syllabus may be reframed.
9. Grid Computing, Pattern Recognition, Advanced Databases, Data warehousing and Data mining subjects may be removed from elective list and instead of that, subjects like Evolutionary computing, Ubiquitous Computing, Modelling and Simulation, Soft Computing may be offered.
10. Elective List can be grouped in to two categories with and without Laboratory.

ANNEXURE - I

Modifications in Regulations - 2011 for UG Degree Courses

Details of Paragraph in Regulations - 2011	Amendments									
<p>Clause 3.0</p> <p>Branch - I: Mechanical Engineering</p> <p>Branch - II: Electronics and Communication Engineering</p> <p>Branch - III: Computer Science and Engineering</p> <p>Branch - IV: Electrical and Electronics Engineering</p> <p>Branch - V: Electronics and Instrumentation Engineering</p> <p>Branch - VI: Information Technology</p>	<ol style="list-style-type: none"> 1. B.E. (Mechanical Engineering) 2. B.E. (Electronics and Communication Engineering) 3. B.E. (Computer Science and Engineering) 4. B.E. (Electrical and Electronics Engineering) 5. B.E. (Electronics and Instrumentation Engineering) 6. B.E. (Civil Engineering) 7. B.Tech. (Information Technology) 									
<p>Clause 4.1</p> <p>The duration for the B.E. / B.Tech. Degrees shall extend over a period of eight (8) semesters and (6) six semesters for the regular and lateral entry candidates admitted in the first semester and third semester respectively.</p>	<p>The minimum and maximum period for completion of the UG programs are given below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Program</th> <th style="text-align: center;">Minimum No. of semesters</th> <th style="text-align: center;">Maximum No. of semesters</th> </tr> </thead> <tbody> <tr> <td>B.E / B.Tech</td> <td style="text-align: center;">8</td> <td style="text-align: center;">14</td> </tr> <tr> <td>B.E / B.Tech Lateral Entry</td> <td style="text-align: center;">6</td> <td style="text-align: center;">12</td> </tr> </tbody> </table>	Program	Minimum No. of semesters	Maximum No. of semesters	B.E / B.Tech	8	14	B.E / B.Tech Lateral Entry	6	12
Program	Minimum No. of semesters	Maximum No. of semesters								
B.E / B.Tech	8	14								
B.E / B.Tech Lateral Entry	6	12								

ANNEXURE – II

Modifications in Regulations – 2011 for PG Degree Courses

Details of Paragraph in Regulations – 2011	Amendments
Clause 2.1 <ol style="list-style-type: none">1. M.E. (Energy Engineering)2. M.Tech.(Production Engineering)3. M.E. (Computer Science and Engineering)4. M.E. (Computer and Communication)5. M.E. (Communication Systems)6. M.E. (High Voltage Engineering)7. M.E. (Control and Instrumentation)8. M.C.A (Master of Computer Applications)	<ol style="list-style-type: none">1. M.E. (Energy Engineering)2. M.Tech.(Production Engineering)3. M.E. (Computer Science and Engineering)4. M.E. (Computer and Communication)5. M.E. (Communication Systems)6. M.E. (High Voltage Engineering)7. M.E. (Control and Instrumentation)8. M.E. (Embedded Systems Technologies)9. M.C.A (Master of Computer Applications)
Clause 4.3.4 Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience in teaching PG courses.	Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing Ph.D degree or PG degree with a minimum of 3 years experience.

Members Present:

Dr. R. Venkatasan *Venkatesan R* 16/2/2013

Mrs. A. Sakthi Bharathi *A. Sakthi Bharathi* 16/2/13

Mr. Muthusamy Sadaiappan *[Signature]* 16/2/2013

Dr. D. Manimegalai *D. M* 16/02/13

Ms. E. Siva Sankari *E. Siva* 16/2/13

Mr. S. Sankar Ganesh *[Signature]* 16/2/13

Ms. A. H. Ragumathunisha Begum *[Signature]* 16/2/13

Mr. R. Muthu Kumar *[Signature]* 16/2/13

Dr. Kn. K. S. K. Chockalingam *[Signature]* 16.2.13

Dr. P. Subburaj *[Signature]*

Dr. V. Seenivasagam *[Signature]*

Dr. B. Sankaragomathi *[Signature]* 16.2.13

D. M 16/02/13
Chairman / IT Board

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution)

Third Board of Studies Meeting

16 – 25th February 2013



Board of Studies – Mechanical Engineering



Board of Studies – Computer Science & Engineering



Board of Studies – Electronics & Communication Engineering



Board of Studies – Electrical & Electronics Engineering



Board of Studies – Electronics & Instrumentation Engineering