

NATIONAL ENGINEERING COLLEGE

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

K.R.NAGAR, KOVILPATTI - 628 503.



Estd : 1984

MINUTES OF FOURTH BOARD OF STUDIES MEETING

28th December 2013 - 29th January 2014

Venue : Conference Hall in the Administrative Block

NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution – Affiliated to Anna University Chennai)

K.R.NAGAR, KOVILPATTI – 628 503

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FOURTH BOARD OF STUDIES MEETING – MINUTES

Duration
28th December 2013
to
29th January 2014

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

MINUTES – FOURTH BOARD OF STUDIES MEETING

Department of Mechanical Engineering

Fourth Board of Studies meeting for the Department of Mechanical Engineering was held on 22/01/2014 (Wednesday) at Smart Class Room of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr., H.Kanagasabapathy, Professor, Dept. of Mechanical Engineering the member of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

Dr.D.Mohanlal - External Member
Professor & Head
Division of Refrigeration and Air-conditioning
Department of Mechanical Engineering
Anna University Chennai
Chennai – 600 025

Dr.A.Arockiarajan - External Member
Associate Professor
Department of Applied Mechanics
Indian Institute of Technology Madras
Chennai – 600 036

Dr.K.Natarajan - External Member
Professor and Head
Department of Mechanical Engineering
P.S.G. College of Technology
Pellamedu, Coimbatore – 641 004

Dr.Balakrishnan Gopal - External Member
Engineering Software Development-PD>
Caterpillar Engineering Design Center-India
7th Floor, IIT-M Research Park
No.1 Kanagam Road, Taramani
Chennai – 600 113

Dr.D.Ravindran - Chairman
Prof. & Head / Mechanical

Dr.K.Manisekar Professor & Head / CMS	-	Member
Dr.K.Kalidasa Murugavel Professor & Head / CES	-	Member
Dr.H.Kanagasabapathy Professor	-	Member
Mr.G.Esakkimuthu Associate Professor (SG)	-	Member
Dr.G.Selvakumar Assistant Professor (SG)	-	Member
Mr.D.Venatkumar Assistant Professor (SG)	-	Member
Dr.T.Vigraman Associate Professor	-	Member
Dr.A.Razal Rose Associate Professor	-	Member

Special Invitees

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

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

04.01: B.E. (Mechanical) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E. – Mechanical Engineering Department under Regulations – 2011 were presented by Mr.D.Venatkumar member the Board of Studies.

04.02: B.E. (Mechanical) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year B.E. – Mechanical Engineering Department under Regulations – 2013 were presented by Mr.Sivagaminathan Asst. Professor, Dept. of Mechanical Engineering

04.03: Introduction of Elective subject in collaboration with Industry in solar Energy under R2011 and R2013 was presented by Dr. K. Kalidasa Murugavel, Professor and Head, Centre for Energy studies.

04.04: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by Dr.D.Ravindran Professor and Head, Dept. of Mechanical Engineering.

- ✓ The members had a brainstorming discussion and interaction among them. After fruitful discussion, relevant comments were suggested 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) The Syllabi for Final year B.E. (Mechanical) degree course offered under Regulations 2011.
 - b) The Syllabi for Second year B.E. (Mechanical) degree course offered under Regulations 2013.
 - c) Introduction of one credit courses

Dr.G.Selvakumar, Asst. Professor (SG) Member of Board of Studies thanked all the members for their kind cooperation and the meeting came to an end.


Chairman / Mechanical Board

The following suggestions are given by board of studies members with regard to curriculum and syllabi of Mechanical Engineering Department (VII and VIII Semester under Regulations 2011)

1. The distribution of course content has to be uniform for all the units so that all the units are allotted with equal lecture hours.
2. Electronics and Instrumentation department faculties to be included to handle Mechatronics subject.
3. Content of unit II of Total Quality Management to be reduced and transferred to other units.
4. An introduction to application software has to be given to the students when teaching Operations Research and suggested not to include for examination.
5. Latest edition of Textbooks and Reference books has to be included in the syllabi.

Suggestions for the curriculum and syllabi for III and IV Semester under Regulations 2013.

1. The distribution of course content has to be uniform for all the units.
2. Reference books with latest edition to be included in the syllabi.
3. The content of all the units of Environmental Science and Engineering is found to be exhaustive suggested to reduce.
4. List of Experiments may be renamed as list of Exercise.


The following are the suggestions given by board of studies members on **one credit non CGPA Courses**.

1. The students can be permitted to select any two of the four groups offered to them.


CHAIRMAN / MECHANICAL BOARD

Members Present

Dr.D.Mohanlal


22/1/14.

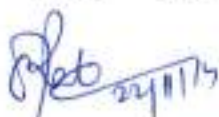
Dr.A.Arockiarajan


22/1/14

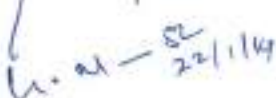
Dr.Balakrishann Gopal


22/1/14

Dr.D.Ravindran


22/1/14

Dr.K.Manisekar


22/1/14

Dr.K.Kalidasa Murugavel


22/1/14

Dr.H.Kanagasabapathy


22/1/14

Mr.G.Esakkimuthu

G. Esakkimuthu
22.1.14

Dr.G.Selvakumar



Mr.D.Venkatkumar



Dr.T.Vigraman



Dr.A.Razal Rose



Dr.Kn.K.S.K.Chockalingam



Dr.P.Subburaj



Dr.B.Sankaragomathi


22/1/14


Chairman / Mechanical Board

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

MINUTES – FOURTH BOARD OF STUDIES MEETING

Department of Electronics and Communication Engineering

Fourth Board of Studies meeting for the Department of Electronics and Communication Engineering was held on 28/12/2013 (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. Y. V. Ramana Rao
Professor / ECE
Anna University, Guindy Campus
Chennai – 600 025 | - | External Member |
| Prof. M. Malleswaran
Assistant Professor / ECE
Regional Center of Anna University,
Tirunelveli – 627 007 | - | External Member |
| Dr. J. Klutto Milleth
Principal Research Engineer
Centre of Excellence in Wireless Technologies
IITM Research Park, Chennai – 600 013 | - | External Member |
| Mr. Imran Syeed
Manager University relations
EdGate Technologies
R.T.Nagar, Bangalore - 560 032 | - | External Member |
| Mr. P. Essaki Muthu
Chief Scientist
River Silica, Century Apartments,
100 Feet Road Indiranagar, Bangalore - 560 038 | - | External Member |
| Dr.A.Shenbagavalli
Prof.&Head/ECE | - | Chairman |

Dr.V.Vijayarangan Professor & Dean TCP	-	Internal Member
Dr.S.Tamil Selvi Prof.&Head/ECE(PG)	-	Internal Member
Mr.N.Arumugam Associate Professor	-	Internal Member
Mr.V.R.S.Mani Associate Professor	-	Internal Member
Mr.T.Devakumar Assistant Professor (SG)	-	Internal Member
Mr.A.Saravana Selvan Assistant Professor (SG)	-	Internal Member
Mr.K.J.Prasanna Venkatesan Assistant Professor (SG)	-	Internal Member

Special Invitees

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

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

04.01: B.E. (ECE) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E. – Electronics and Communication Engineering department under Regulations-2011 were presented by **Mr.N.Arumugam, Associate Professor/ECE.**

04.02: B.E. (ECE) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year B.E. – Electronics and Communication Engineering department under Regulations-2013 were presented by **Dr.A.Shenbagavalli, Prof.&Head/ECE,** Chairman of the Board of Studies.

**04.03: M.E. (EMBEDDED SYSTEM TECHNOLOGIES) – REGULATIONS 2013
CURRICULUM AND SYLLABI FOR SECOND TO FOURTH SEMESTER**

M.E. (EST) Curriculum and Syllabi for Second to Final Semester were presented by **Dr.S.Tamilselvi, Prof.&Head/ECE(PG)**.

04.04: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by **Mr.T.Devakumar, Assistant Professor (SG)**.

- ✓ 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 recommend the following to the Academic Council for further approval.
 - a) The Curriculum and Syllabi for Final year B.E. (ECE) degree course offered under Regulations 2011.
 - b) The Curriculum and Syllabi for Second year B.E. (ECE) degree course offered under Regulations 2013.
 - c) The Curriculum and Syllabi for Second to Final Semester M.E. (EST) degree course offered under Regulations 2013.
 - d) Introduction of one credit courses

Refer Annexure for the suggestions given by the BOS members.

Mr.V.R.S.Mani, Associate Professor thanked all the members for their kind cooperation and the meeting came to an end.

Chairman / ECE Board

Dr.A.SHENBAGAVALLI M.E., Ph.D.
PROFESSOR & HEAD
Department of Electronics and
Communication Engg
National Engineering College
K.R. Nagar, KOVILPATTI - 628 501

ANNEXURE I

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

B.E(ECE)-Regulation – 2011 Curriculum and syllabi for fourth year (VII & VIII semesters)

- In **BEC701 Wireless Communication**, Unit III & Unit IV can be swapped and in Unit III various digital modulation schemes can be replaced by OFDM, MIMO OFDM and Space Time Block codes and that unit can be named as MIMO System. In Unit V, Wi-max can be eliminated and topics like LTE, EDGE and WCDMA can be included and Principles of Spread Spectrum Techniques may be renamed as Multiple Access Techniques and also capacity calculation of multiple access technique may be renamed as throughput calculation.
- In **BEC 702 Optical Communication Networks**, OTDR and any two applications may be included in Unit IV.
- **BEC731 SYSTEM DESIGN LABORATORY** may be renamed as Electronic System Design Laboratory.
- By removing one elective in the curriculum, comprehension can be introduced and should be evaluated by internal staff members. Each subject should be evaluated separately.
- In **BEC801 SATELLITE COMMUNICATION SYSTEMS**, The unit II can be splitted into two units as Unit II and Unit III. In Unit III multiple access technique can be removed. Unit III may be renamed as Satellite Link design and Satellite Access.
- **BEC015 ARM PROCESSOR ARCHITECTURE AND PROGRAMMING** syllabus content is heavy and may be redefined.
- In **BEC010 SENSORS AND DISPLAY DEVICES**, Unit III may be removed because most of the syllabus covered in Optical Communication Networks. Unit IV may be splitted into two units as unit III and unit IV.
- In **BEC014 DIGITAL SIGNAL PROCESSORS**, some advanced processors may be included in unit V.
- **BEC018 INFORMATION THEORY AND CODING TECHNIQUES**, text book 1 and reference book 1 may be replaced and Fundamentals of Digital Image Processing by Gonzalez 2nd edition may be included as one of the reference book.

B.E (ECE)-Regulation – 2013 Curriculum and syllabi for second year (III & IV semesters)

- **FOURIER TRANSFORMS AND COMPLEX ANALYSIS** may be named as Linear algebra and complex analysis. Unit I & Unit II contents related to Fourier transform may be replaced with linear algebra topics.
- In **Digital Electronics**, Logic gates may be removed in Unit I, and in Unit II Binary multiplier and Binary divider may be removed. In Unit 3 Asynchronous UP/DOWN counter to programmable counter can be removed. Use of algorithmic state machine can be removed from Unit V and the title may be changed as Moore mealy and Asynchronous Sequential circuits. Unit IV and V may be interchanged.
- In **Electromagnetic Fields**, Gauss law applications can be added in Unit I, in unit II Lens law may be included and Lorentz law may be removed. Unit V syllabus may be redefined.
- In **Electronic Circuits-I**, Biasing circuit for MOSFET alone is enough and JFET concepts may be removed.
- Second semester Physics, Chemistry – Theory and Laboratory classes may be replaced with programme specific fundamental subjects.
- Computer laboratory in the first and second semester may be combined as one laboratory.


Dr. A. SHENBAGAVALLI M.E. Ph.
PROFESSOR & HEAD
Department of Electronics and
Communication Engg
National Engineering College
R. Nagar, K. Nagar

M.E (EST) -Regulation – 2013 Curriculum and syllabi (II, III & IV semesters)

- In unit III of **VLSI ARCHITECTURE AND DESIGN METHODOLOGIES** subject, the topic Spartan V may be replaced by Spartan VI.
- In PART I of **ADVANCED EMBEDDED SYSTEM LABORATORY** course, the fourth experiment **LCD Display** can be changed as **Moving Characters Display** and in PART III Zigbee related experiments may be included.
- **OPEN SOURCE MULTIMEDIA APPLICATION PROCESSOR** subject may be moved as a core subject and **VLSI ARCHITECTURE AND DESIGN METHODOLOGIES** subject may be moved as a elective subject in II Semester.
- The title of elective subject **Cryptography and Network Security** may be changed as **Cryptography and Wireless Network Security**
- In unit V of **EMBEDDED WIRELESS SENSOR NETWORKS** subject may be updated with some processor specific application



Dr.A.SHENBAGAVALLI M.E. Ph.D
PROFESSOR & HEAD
Department of Electronics and
Communication Engg
National Engineering College
K.R. Nagar, KOVILPATTI - 628 503

Members Present


Dr.Y.V.Ramana Rao


28/12/13.

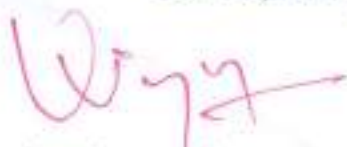
Dr.J.Klutto Milleth


28/12/2013

Dr.A.Shenbagavalli


28/12/2013

Dr.V.Vijayarangan



Dr.S.Tamil Selvi


28/12/13

Mr.N.Arumugam


28/12/13

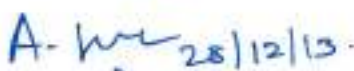
Mr.V.R.S.Mani


28/12/13

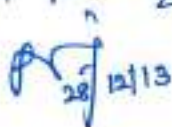
Mr.T.Devakumar


28/12/13.

Mr.A.Saravana Selvan


28/12/13.

Mr.K.J.Prasanna Venkatesan


28/12/13

Dr.Kn.K.S.K.Chockalingam



Dr.P.Subburaj



Dr.B.Sankaragomathi


28/12/13


Dr.A.SHENBAGAVALLI M.E., Ph.D.
PROFESSOR & HEAD
Department of Electronics and
Communication Engg
Engineering College

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
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MINUTES – FOURTH BOARD OF STUDIES MEETING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Fourth Board of Studies meeting for the Department of Computer Science and Engineering was held on 06/01/2014 (Monday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Ms.V.Vimala, Asst.Professor (SG), the Member of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

Dr.S.Radha Krishnan - External Member
Sr. Professor / Dept. of CSE
Dean – International Relations
Kalasalingam University
Krishnankoil – 626 190

Dr.A.Kandasamy - External Member
Professor & Dean FW Dept. of MACS
National Institute of Technology
Karnataka, Surathkal – 575 025

Mr.Niranjan Subramanya Sarja - External Member
Lead Admin & Support
HCL Technologies Limited
Sholinganallur, Chennai – 600 034

Dr.D.Shalini Punithavathani - External Member
Professor & Principal In-charge
Government College of Engineering
Tirunelveli – 627 007

Mr. Somu Chockalingam - External Member
Director
Doyen Systems
Ekkatuthangal, Guindy
Chennai – 600 032

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 Associate Prof. / CSE	-	Member
Ms.P.Bama Ruckmani Asst. Prof. / CSE (PG)	-	Member
Ms.M.Bhuvaneswari Asst. Prof. (SG) / CSE	-	Member
Ms.G.Sivakama Sundari Asst. Prof. / CSE	-	Member
Mr.S.Anantha Kumaran Asst. Prof. (SG) / CSE (PG)	-	Member
Ms.M.Jayalakshmi Asst. Prof. (SG) / CSE	-	Member
Ms.R.Rajakumari Asst. Prof. (SG) / CSE	-	Member
Mr.K.Maharajan Asst. Prof. (SG) / CSE	-	Member

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR – 628 503
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Department of Computer Science and Engineering

Board of Studies Meeting

Date: 06.01.2014

AGENDA

- Welcome Address** : **Ms.V.Vimala**
Assistant Professor(Senior Grade),
Department of Computer Science and
Engineering
- Introduction of the Members** : **External Members and Internal
Members**
- Presentation of Curriculum & Syllabi
Regulation 2011 and 2013
B.E.,(Computer Science and
Engineering)** : **Dr.V.Gomathi**
Associate Professor(Senior Grade),
Department of Computer Science and
Engineering
- Presentation of Curriculum & Syllabi
Regulation 2013
M.C.A.,(Master of Computer
Applications)** : **Dr.V.Kalaivani**
Associate Professor(Senior Grade),
Department of Computer Science and
Engineering(PG)
- Vote of Thanks** : **Ms. G.Sivakamasundari**
Assistant Professor
Department of Computer Science and
Engineering

Special Invitees

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

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

04.01: B.E. (CSE) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E. – Computer Science and Engineering department under Regulations-2011 were presented by **Dr.V.Gomathi, Associate Prof.(SG)**.

04.02: B.E. (CSE) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year B.E. – Computer Science and Engineering department under Regulations-2013 were presented by **Dr.V.Gomathi, Associate Prof.(SG)**.

04.03: MASTER OF COMPUTER APPLICATIONS – REGULATIONS 2013 CURRICULUM AND SYLLABI FOR SECOND TO FOURTH SEMESTER

M.C.A. Curriculum and Syllabi for Second year under Regulations-2013 were presented by **Dr.V.Kalaivani, Associate Prof. (SG) / CSE (PG)**.

04.04: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by **Dr.V.Gomathi, Associate Prof.(SG)**.

- ✓ 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 recommend the following to the Academic Council for further approval.
 - a) The Curriculum and Syllabi for Final year B.E. (CSE) degree course offered under Regulations 2011.

- b) The Curriculum and Syllabi for Second year B.E. (CSE) degree course under Regulations 2013.
- c) The Curriculum and Syllabi for Second year M.C.A. degree course offered under Regulations 2013.
- d) Introduction of one credit courses

Refer Annexure for the suggestions given by the BOS members.

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



Chairman / CSE

Members Present

Dr.S.Radha Krishnan

Radhakrishnan

Dr.A.Kandasamy

A.Kandasamy

Dr.D.Shalini Punithavathani

D.Shalini
6.1.14.

Mr. Somu Chockalingam

Somu

Dr.B.Paramasivan

B.Paramasivan
6/1/14

Dr.V.Seenivasagam

V.Seenivasagam
6.1.14.

Dr.K.G.Srinivasagan

K.G.Srinivasagan

Dr.V.Gomathi

V.Gomathi
6/1/14

Dr.V.Kalaivani

V.Kalaivani
06/01/14

Ms.V.Vimala

V.Vimala
06/01/2014.

Mr.K.Mohaideen Pitchai

K.Mohaideen Pitchai
6/1/14

Ms.P.Bama Ruckmani

P.Bama Ruckmani
6/1/14

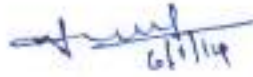
Ms.G.Sivakama Sundari

G.Sivakama Sundari
06/01/14

Mr.S.Anantha Kumaran

S.Anantha Kumaran
6/1/14

Ms.M.Jayalakshmi


6/1/14

Ms.R.Rajakumari


6/1/14

Mr.K.Maharajan


6/1/14

Dr.Kn.K.S.K.Chockalingam


6-1-14

Dr.P.Subburaj


6/1/14

Dr.B.Sankaragomathi


6/1/14


Chairman / CS

**General Suggestions given by the BOS members of Computer
Science and Engineering Department during the
BOS Meeting held on 06/01/2014**

- Elective subjects may be introduced to the students for
 - ✓ those who wants to go for higher studies
 - ✓ those who wants to get job immediately
 - ✓ those who wants to become entrepreneurs
- People who are going for higher studies should study mathematical oriented subjects.
 - ie. Computer Oriented Numerical Methods
 - Computer Oriented Statistical Analysis
- Counseling is needed for the students to select the group of electives.
- Alumni's can play a role in handling the subjects.
- Remote working facility is needed for the students to attend the online lectures delivered by the industry experts.
- Communication skill of the student has to be improved through video.
- Students can speak and record their voices.
- Industry participation is needed to test the outcome.
- Mobile application development as one of the elective.
- Cloud computing and data mining should be the core subjects.
- Total credits for MCA will be 130 credits.
- 18 credits may be given for the project for MCA.
- Hands on experiences are needed for MCA students.
- Among the 4 groups of one credit Non-CGPA courses students can select any three groups. All the students of UG should earn one credit from each group.
- Total credits for the UG degree courses may be 210.

Suggestions well
taken -

To implement -
possible ones


9/11/14



Suggestions in Regulations 2013 Curriculum and Syllabi for B.E. Computer science & Engineering and MCA Programme:

- Data structures and Object Oriented Programming Laboratory courses may be separated.
- Java Programming and Database Management Systems Laboratory courses may be separated as two courses.
- Discrete Mathematics, Theory of Computation and System Programming courses shall be included in the 5th semester.
- Among the 4 groups of one credit Non-CGPA courses students can select any three groups. All the students of UG should earn one credit from each group. This may be made compulsory for the students.
- Those students who are unable to score 3 credits in the one credit non-CGPA courses, Aptitude test may be conducted and assessed by the placement cell.
- Online lectures may be considered as guest lecture/expert lectures and evaluated by the department.
- Remote working facility is needed for the students to attend the online lectures delivered by the industry experts.
- Total credits for the UG degree courses may be 210.
- For the MCA programme, the total credits may be increased to 130 and some latest practical courses can be introduced. 18 credits may be given for the project for MCA.
- Mobile application development as one of the electives.
- Cloud computing and data mining should be the core subjects.
- More training towards programming practices are needed for MCA students.


Board Chairman / CSE

Suggestions in Regulations 2011 Curriculum and Syllabi for B.E. Computer science & Engineering Programme :

- The committee appreciated for including the elective courses such as
 - i. Game theoretical model
 - ii. Tamil computing and
 - iii. Green computing.
- Before framing the curriculum, especially for electives, it is good to consider the courses to be beneficial to the students those who wish to pursue higher studies with research and opt to be entrepreneurs.
- People who are going for higher studies should study mathematical oriented subjects.
 - ic. Computer Oriented Numerical Methods
 - Computer Oriented Statistical Analysis

The above mentioned course may be handled by Computer Faculty.
- Counseling is needed for the students to select the group of electives.
- Alumni's can play a role in handling the subjects.
- Communication development is necessary for placement.
- Communication skill of the student has to be improved through video.
- Students can speak and record their voices.
- Industry participation is needed to test the outcome.
- The elective courses like Engineering Economics, Optimization Techniques, ERP, Supply Chain management, Fault Tolerant Computing, Protocol Engineering and Performance Modeling & Analysis may be included in the curriculum.
- One of the External members suggested that the programming courses may be correlated as one course "Principles of Programming Languages", but the alumni member suggested that the programming courses with specialization such as C++, JAVA in curriculum is necessary for providing the industrial readiness of our college students.
- Instead of Real Time System Laboratory, Mobile Application Development Laboratory may be included in the curriculum and the syllabus of Anna University, Guindy may be referred.
- In Elective III, for the course Grid & cloud Computing, instead of grid computing contents, it is better to concentrate only on cloud computing.
- In Elective IV, the course name Mobile OS Technologies need to be changed as Mobile Application Development, with minor changes in content.
- The syllabus for the course Adhoc Networks is too vast to cover.
- All students have to undergo Internship, which can be stressed / motivated. If necessary extra credits may be awarded.

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

MINUTES – FOURTH BOARD OF STUDIES MEETING

Department of Electrical and Electronics Engineering

Fourth Board of Studies meeting for the Department of Electrical and Electronics Engineering was held on 24/01/2014 (Friday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Mr.N.B.Prakash, Associate Professor, the member of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|----------------------|
| Dr. P.Venkatesh
Associate Professor / Dept. of EEE
Thiagarajar College of Engineering
Madurai – 625 015 | - | Academic Expert |
| Dr. V. Sankaranarayanan
Associate Professor / Dept. of EEE
National Institute of Technology
Tanjore Main Road, NH-67
Tiruchirappalli – 620 015 | - | Academic Expert |
| Dr.G.Venkatesan
Principal
Narasu's Sarathy Institute of Technology
Poosaripatty
Omalur (TK) – 636 305 | - | Meritorious Aluminus |
| Dr. V. Malathi
Professor / Dept. of EEE
Anna University, Regional Centre
Alagar Kovil Road
Madurai – 625 002 | - | University Nominee |
| Mr.Santosh Kumar Annadurai
Alstom Grid, GIS R&D Centre
Unit R&D Head
142, Salamangalam
Vandalur Wallajabad Road
Padappai, Chennai – 601301 | - | Industrial Experts |

Dr.P.Subburaj Principal	-	Chairman
Dr.M.Willjuice Iruthayarajan Professor & Head	-	Member
Mr.M.Ravindran Asso. Professor	-	Member
Ms.R.V.Maheswari Asso. Professor	-	Member
Dr.L.Kalaivani Asso. Professor	-	Member
Mr.N.B.Prakash Asso. Professor	-	Member
Mr.G.Kannayeram 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)

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

Curriculum and Syllabi for Final year B.E. – Electrical and Electronics Engineering department under Regulations-2011 were presented by **Dr.M.Willjuice Iruthayarajan**, Professor & Head.

04.02: B.E. (EEE) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR

SECOND YEAR

Curriculum and Syllabi for Second year B.E. – Electrical and Electronics Engineering department under Regulations-2013 were presented by **Dr.M.Willjuice Iruthayarajan**, Professor & Head.

04.03: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by **Dr.M.Willjuice Iruthayarajan**, Professor & Head.

- ✓ 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 recommend the following to the Academic Council for further approval.
 - a) The Curriculum and Syllabi for Final year B.E. (EEE) degree course offered under Regulations 2011.
 - b) The Curriculum and Syllabi for Second year B.E. (EEE) degree course offered under Regulations 2013.
 - c) Introduction of one credit courses

Refer Annexure for the suggestions given by the BOS members.

Dr.L.Kalaivani, Associate Professor thanked all the members for their kind cooperation and the meeting came to an end.


Chairman / EEE Board

Members Present

Dr. P. Venkatesh 

Dr. V. Sankaranarayanan 

Dr. G. Venkatesan 

Dr. V. Malathi 

Mr. Santosh Kumar Annadurai 

Dr. P. Subburaj 

Dr. M. Willjuice Iruthayarajan 

Mr. M. Ravindran 

Ms. R. V. Maheswari 

Dr. L. Kalaivani 

Mr. N. B. Prakash 

Mr. G. Kannayeram 

Mr. M. P. E. Rajamani 

Dr. K. N. K. S. K. Chockalingam 

Dr. B. Sankaragomathi 


Chairman / EEE Board

ANNEXURE - I

GENERAL SUGGESTIONS

1. In the objective or in any part of syllabus, company name or its products should not be mentioned.
2. The subject Industrial Safety may be included in the Regulation – 2013 as one of the elective subject.
3. Total credit may be reduced in the range 180-190.
4. The subject Signals and Systems as core subject in 3rd or 4th semester for the Regulation – 2013 may be included.
5. The two subjects “Electrical Measurements” and “Instrumentation Systems” may be combined as one subject “Electrical Measurements and Instrumentation”.

SUGGESTIONS IN THE CURRICULUM AND SYLLABUS FOR FINAL YEAR B.E. (EEE) DEGREE COURSE OFFERED UNDER REGULATION 2011

S.No.	Subject Name	Suggestions
1.	Power System Operation and Control	<ul style="list-style-type: none">• Instead of unit commitment, economic dispatch in Unit – IV, the topics like excitation system, static var compensator may be included.• In Unit – V, the recent trends in power system operation and control may be included.
2.	Protection and Switchgear	<ul style="list-style-type: none">• The topics control switching in the Unit – IV and Gas Insulated substation in Unit – V may be added.• Testing methods in circuit breakers may be refined.• Routine and type test methods may be included.
3.	Electrical Energy Generation, Utilization and Conservation	<ul style="list-style-type: none">• The syllabus has to be changed. Since the students have already studied the topics about generation in Power Plant Engineering, that topics may be removed.• In the conservation chapter, green technology and carbon print may be included.• The topics related with small grids, micro grids may be included• Rajput’s book as text book should be included.
4.	Embedded based System Design	<ul style="list-style-type: none">• The name of the subject may be changed like Embedded System – Design and Applications• In unit – IV, the topic benchmarking real time systems – basics may be changed properly.• In unit – V, the specific real time applications in monitoring and control systems may be specified.• M. Saravanan’s book may be added as text or reference book.

5.	Power System Simulation Laboratory	<ul style="list-style-type: none"> Any Software name should not be mentioned specifically. The types of faults may be mentioned in fault analysis experiments.
6.	Design Laboratory	<ul style="list-style-type: none"> The name of the subject may be changed to Electrical Design Laboratory.
7.	Power System Transients	<ul style="list-style-type: none"> The topic about analysis of switching transient for both single phase and three phase supply may be added in the syllabus.
8.	EHV Power Transmission	<ul style="list-style-type: none"> The topics like comparison between HVDC and HVAC and Methods to identify coronas may be included.
9.	Soft Computing for Electrical Engineering	<ul style="list-style-type: none"> The application part in Unit – V may be refined. The units may be assigned like <ul style="list-style-type: none"> Artificial Neural Networks – Two units Fuzzy logic – One unit Genetic Algorithm – One Unit The book "Principle of Soft Computing Techniques" by S. N. Sivanandam and S. N. Deepa may be included in text or reference book.
10.	Industrial Automation using PLC and SCADA	<ul style="list-style-type: none"> The subject name may be changed. Advanced topics in this area may be included.
11.	Special Electrical Machines	<ul style="list-style-type: none"> Stepping motor has to be modified as stepper motor.
12.	Principle of Management	<ul style="list-style-type: none"> The topics organizational behavior, team working, time management, stress management may be added.
13.	Power Quality	<ul style="list-style-type: none"> The subject name may be changed. More reference books may be added.
14.		<ul style="list-style-type: none">
15.	Software for Circuits Simulation	<ul style="list-style-type: none"> The subject may be removed from curriculum.
16.	CAD of Electrical Apparatus	<ul style="list-style-type: none"> More solving methods other than FEM analysis may be included.
17.	Flexible AC Transmission Systems	<ul style="list-style-type: none"> The topics related with advancement in this field may be added.
19.	Power Electronics for Renewable Energy Systems	<ul style="list-style-type: none"> The subject name may be changed.

SUGGESTIONS IN THE CURRICULUM AND SYLLABUS FOR SECOND YEAR B.E. (EEE)
DEGREE COURSE OFFERED UNDER REGULATION 2013

S.No.	Subject Name	Suggestions
1.	Principle of Electronics	<ul style="list-style-type: none">• The subject name may be changed as Electron Devices and Circuits• The title of Unit- V may be changed as Pulse Generation Circuits
2.	Electromagnetic Field Theory	<ul style="list-style-type: none">• Green's Theorem and Conversion from one coordinate to others may be included in Unit - I• Cork's Screw Rule may be included in Unit - II
3.	Electrical Machines - I Laboratory	<ul style="list-style-type: none">• The experiment order (Like DC motor starter experiment as first experiment) may be rearranged.
4.	Electronics Laboratory	<ul style="list-style-type: none">• The Laboratory name may be changed as Electron Devices and Circuits Laboratory.
5.	Electrical Machines - II	<ul style="list-style-type: none">• Induction motors (single phase and three phase) may be in same unit.
6.	Electrical Measurements	<ul style="list-style-type: none">• The instrumentation system subject may be merged with this subject and make it as one subject.
7.	Electrical Machines- II Laboratory	<ul style="list-style-type: none">• The experiment order (Like induction motor starter experiment as first experiment) may be rearranged.

SUGGESTIONS IN THE CURRICULUM FOR THIRD AND FOURTH YEAR B.E. (EEE)
DEGREE COURSE OFFERED UNDER REGULATION 2013

1. The Instrumentation System subject may be combined with Electrical Measurements.
2. The computer based subject (Data Structure and Object Oriented Programming) may be considered for earlier semester.
3. The High Voltage Laboratory may be removed from elective laboratory.
4. The High Voltage Laboratory may be merged with Power System Simulation Laboratory.

SUGGESTIONS IN THE INTRODUCTION OF ONE CREDIT NON-GPA COURSES

1. Foreign language as one of the consideration in this category may be added.
2. Electrical oriented international certification course may be included.

R.V. Maheswar

H.M. S. 10/2/14.

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

MINUTES – FOURTH BOARD OF STUDIES MEETING

Department of Electronics and Instrumentation Engineering

Fourth Board of Studies meeting for the Department of Electronics and Instrumentation Engineering was held on 29/01/2014 (Wednesday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

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

BOS Members:

- | | | |
|---|---|--------------------|
| Dr.V.Subbiah Bharathi
Dean
SRM University
Bharathi Salai
Ramapuram, Chennai – 600 089 | - | External Member |
| Dr. S.Edward Rajan
Professor
Department of Electrical and Electronics Engineering
Mepco Schlenk Engineering College
Sivakasi - 626 005 | - | External Member |
| Dr.Ranganath Muthu
Professor
Department of Instrumentation Engineering
SSN College of Engineering
Kalavakkam Village,
Thiruporur Post Office, Chanpattu Taluk,
Kancheepuram Dt. – 603 110. | - | University Nominee |
| Mr.R.Selvasankar
General Manager
Sterlite Industries
Tuticorin, Tamilnadu – 628 002 | - | Industrial Experts |
| Dr.R.Kumar
Sr.Consultant
Wipro Technologies,
Sholinganallur, Chennai – 600 119. | - | Industrial Experts |

Dr.G.S.R.Emilselvan Assistant Professor Department of Information Technology Thiagarajar College of Engineering Madurai - 625 015	-	Meritorious Alumnus
Dr.A.Abudhahir Professor & Head	-	Chairman
Dr.B.Sankaragomathi Professor & Dean (Academic)	-	Member
Mr.Jackson Daniel Associate Professor	-	Member
Mr.K.Shankar Associate Professor	-	Member
Mrs.D.Santhi Associate Professor	-	Member
Mr.V.Suresh Associate Professor	-	Member
Ms.M.Carmel Sobia Assistant Professor (SG)	-	Member
Ms.A.Geetha Assistant Professor (SG)	-	Member

Special Invitees

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

Dr.P.Subburaj
Principal

04.01: B.E. (EIE) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E. –Electronics and Instrumentation Engineering department under Regulations-2011 were presented by the faculty members *Mr.Jackson Daniel, Asso.Prof., Mr.K.Shankar, Asso.Prof., Mrs.D.Santhi, Asso.Prof., and Mr.V.Suresh, Asso.Prof.* The details are given as Annexure 04.01A1

04.02: B.E. (EIE) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year B.E. – Electronics and Instrumentation Engineering department under Regulations-2013 were presented by the faculty members *Mr.Jackson Daniel, Asso.Prof., Mr.K.Shankar, Asso.Prof., Mrs.D.Santhi, Asso.Prof., and Mr.V.Suresh, Asso.Prof.* The details are given as Annexure 04.02A1

04.03: M.E. (C&I) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year M.E. – Control and Instrumentation Engineering department under Regulations-2013 were presented by the faculty members *Mr.Jackson Daniel, Asso.Prof., Mr.K.Shankar, Asso.Prof., Mrs.D.Santhi, Asso.Prof., and Mr.V.Suresh, Asso.Prof.* The details are given as Annexure 04.03A1

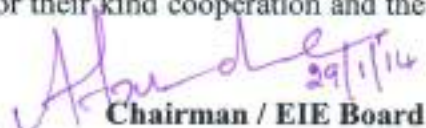
04.04: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by **Dr.A.Abudhahir, Professor & Head**, the Chairman of the Board of Studies

- ✓ 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 recommend the following to the Academic Council for further approval.
 - a) The Curriculum and Syllabi for Final year B.E. (EIE) degree course offered under Regulations 2011.
 - b) The Curriculum and Syllabi for Second year B.E. (EIE) degree course offered under Regulations 2013.
 - c) The Curriculum and Syllabi for Second year M.E. (C&I) degree course offered under Regulations 2013.
 - d) Introduction of one credit courses

Refer Annexure 04A1 for the suggestions given by the BOS members.

Mrs.M.Carmel Sobia, AP(SG)/EIE thanked all the members for their kind cooperation and the meeting came to an end.


29/1/14
Chairman / EIE Board
H

Members Present

Dr.V.Subbiah Bharathi

Dr. S.Edward Rajan

S. Edward Rajan 29/1/2014

Dr.Ranganath Muthu

M. Ranganath 29-01-2014

Mr.R.Selvasankar

R Selva Sankar 29/1/14

Dr.G.S.R.Emilselvan

Dr.A.Abudhahir

A. Abudhahir 29/1/14

Dr.B.Sankaragomathi

B. Sankaragomathi 29/1/14

Mr.Jackson Daniel

Jackson Daniel 29/01/14

Mr.K.Shankar

K. Shankar 29.1.14

Mrs.D.Santhi

Mr.V.Suresh

Ms.M.Carmel Sobia

Ms.A.Geetha

Dr.Kn.K.S.K.Chockalingam

Dr.P.Subburaj

A. Abudhahir 29/1/14
Chairman / EIE Board

ANNEXURE 04.01A1**SEMESTER VII**

SL. No.	Course Code	Course Title	Name of the Faculty
1	BEI701	Embedded Systems and Programming	Mr.V.Suresh
2	BEI702	Virtual Instrumentation	Mrs.D.Santhi
3	BEI703	PLC and DCS	Mr.V.Suresh
4	BEI731	PLC and DCS Laboratory	Mr.V.Suresh
5	BEI732	Embedded Systems and Virtual Instrumentation Laboratory	Mrs.D.Santhi
6	BEI733	Comprehension	Mr.Jackson Daniel
7	BEI021	Fiber Optics and Laser Instruments	Mrs.D.Santhi
8	BEI022	Image Processing	Mrs.D.Santhi
9	BEI023	Applied Soft Computing	Mr.V.Suresh
10	BEI024	Sensor Networks	Mr.K.Shankar
11	BEI025	Testing and Calibration of Instruments	Mr.K.Shankar
12	BEI026	NDT Techniques	Mr.Jackson Daniel

SEMESTER VIII

SL. No.	Course Code	Course Title	Name of the Faculty
1	BEI801	Power Plant Instrumentation	Mr.Jackson Daniel
2	BEI802	Biomedical Instrumentation (Common to EIE,EEE)	Mr.Jackson Daniel
3	BEI041	PC based Instrumentation	Mrs.D.Santhi
4	BEI042	Aircraft Instrumentation	Mr.Jackson Daniel
5	BEI043	Advanced Process Control	Mr.V.Suresh
6	BEI044	Industrial Automation and Control	Mrs.D.Santhi
7	BEI045	Robotics and Automation (Common to EIE,EEE)	Mr.Jackson Daniel
8	BEI046	Medical Informatics	Mr.K.Shankar
9	BEI047	Automotive Instrumentation and Control	Mr.Jackson Daniel
10	BEI048	Instrumentation in Petrochemical Industries	Mr.K.Shankar

ANNEXURE 04.02A1**SEMESTER III**

SL. No.	Course Code	Course Title	Name of the Faculty
1	13EI33	Digital Circuits	Mrs.D.Santhi
2	13EI34	Electrical and Electronic Measurements	Mr.K.Shankar
3	13EI35	Electronic Devices and Circuits	Mr.K.Shankar
4		Electronic Devices and Circuits Laboratory	Mr.K.Shankar

SEMESTER IV

SL. No.	Course Code	Course Title	Name of the Faculty
1	13EI42	Industrial Instrumentation-I	Mr.Jackson Daniel
2	13EI43	Sensors and Transducers	Mr.Jackson Daniel
3	13EI44	Control Systems	Mr.V.Suresh
4	13EI46	Digital System Design	Mrs.D.Santhi
5		Transducers and Measurements Laboratory	Mr.Jackson Daniel

ANNEXURE 04.03A1**SEMESTER – III**

SL. No.	Course Code	Course Title	Name of the Faculty
1	CIE3A	Optimal Control and Filtering	Mr.V.Suresh
2	CIE3C	System Identification and Adaptive control	Mr.Jackson Daniel
3	CIE3E	Biocontrol	Mr.K.Shankar
4	CIE3F	Advanced Process Control	Mr.V.Suresh
5	CIE3G	Industrial Automation	Mr.K.Shankar
6	CIE3H	Solar Photovoltaic Technologies and Applications	Mrs.D.Santhi
7	CIE3J	Automobile Instrumentation	Mrs.D.Santhi
8	CIE3K	Applied Industrial Instrumentation	Mr.Jackson Daniel
9	CIE3L	Modern Medical Instruments	Mr.K.Shankar
10	CIE3D	Advanced Digital System Design (Common to C&I, HVE)	Mr.Jackson Daniel
11	CIE3M	Advanced Digital Image Processing	Mrs.D.Santhi
12	CIE3N	Design of Embedded Systems	Mr.V.Suresh

The members of EIE board of studies suggested the following modifications for respective courses.

Regulation 2011 UG

Sl. No.	Course code	Name of the course	Modification suggested by the members
1	BEI701	Embedded Systems and Programming	Brief about the contents in unit III
2	BEI703	PLC and DCS	Include <ul style="list-style-type: none"> • General applications in unit III • Configuration, PLC interface DCS, 3rd party interface (unitV)
3	BEI731	PLC and DCS Laboratory	<ul style="list-style-type: none"> • The DCS can upgrade • Develop Some controller Simulation • Control of process parameter using DCS • 11th experiment name has to change • Include Automation Simulation • Simulation of different control scheme of boiler using DCS
4	BEI732	Embedded Systems and Virtual Instrumentation Laboratory	Reduce number of experiments (6+6)
5	BEI733	Comprehension	practical hour should be a tutorial hour
6	BEI021	Fiber Optics and Laser Instruments	Include <ul style="list-style-type: none"> • Fiber optic cables
7	BEI022	Image Processing	Include <ul style="list-style-type: none"> • Applications in unit V
8	BEI023	Applied Soft Computing	Include <ul style="list-style-type: none"> • Case studies(unit V) • Evolutionary algorithm (Unit IV) • instead of tabu search PSO
9	BEI024	Sensor Networks	Include <ul style="list-style-type: none"> • Communication protocol, Network security, Industrial applications related to sensors (Unit IV) • Testing & Calibration
10	BEI025	Testing and Calibration of Instruments	<ul style="list-style-type: none"> • Change Unit II & III Include <ul style="list-style-type: none"> • Testing procedure, loop checking, Electrical & electronic measuring and instruments testing (from industries)

Sl. No.	Course code	Name of the course	Modification suggested by the members
11	BEI801	Power Plant Instrumentation	Include <ul style="list-style-type: none"> Unit I – Bio sensor introduction, types & block diagram Unit IV – Telemedicine, Phonocardiogram, Patient monitoring and safety in medical applications Unit III – Introduction to ESR Remove <ul style="list-style-type: none"> Amplifiers
12	BEI041	PC based Instrumentation	<ul style="list-style-type: none"> The contents of Unit I & II should be changed Include instrumentation topics
13	BEI042	Aircraft Instrumentation	The content of each unit should be brief
14	BEI043	Advanced Process Control	Change Unit II & IV
15	BEI044	Industrial Automation and Control	Include <ul style="list-style-type: none"> Automation (pulp and paper, cements, nuclear, steel)
16	BEI04B	Instrumentation in Petrochemical Industries	Unit II & III can combine Include <ul style="list-style-type: none"> P & I diagram, transportation, Industrial safety, oil & gas.

Regulation 2013 UG

Sl. No.	Course code	Name of the course	Modification suggested by the members
1	13EI43	Electrical and Electronic Measurements	The subject can shifted from III semester to IV semester Include <ul style="list-style-type: none"> Magnetic measurement, OHM meter, self balancing bridges, frequency meter (Weston type) Strip chart and magnetic tape recorder.
2	13EI35	Electronic Devices and Circuits	Include <ul style="list-style-type: none"> Simulation experiments.
3	13EI42	Industrial Instrumentation-I	The title name of the unit II & III should be changed
4	13EI43	Sensors and Transducers	<ul style="list-style-type: none"> The subject can shifted to 3rd semester The title name of the unit V should be changed Include <ul style="list-style-type: none"> Touch screen sensor, photovoltaic, Electromagnetic transducer

Sl. No.	Course code	Name of the course	Modification suggested by the members
5	13E144	Control Systems	Include <ul style="list-style-type: none"> • Synchros, Compensator, Root locus and Bode plot • Introduction to P, PI and PID Remove <ul style="list-style-type: none"> • Analysis in Unit V
6	13E147	Transducers and Measurements Laboratory	Include <ul style="list-style-type: none"> • RTD characteristics

Regulation 2013 PG

Sl. No.	Course code	Name of the course	Modification suggested by the members
1	CIE3C	System Identification and Adaptive control	Include <ul style="list-style-type: none"> • Windmill application in Unit V
2	CIE3E	Biocontrol	First two units should merge
3	CIE3F	Advanced Process Control	Unit I & II can combine
4	CIE3K	Applied Industrial Instrumentation	<ul style="list-style-type: none"> • Rearrange Unit IV
5	CIE3L	Modern Medical Instruments	Include <ul style="list-style-type: none"> • Medical instruments, telemedicine, types and advancement in pacemaker.

Apart from the above mentioned specific modifications to the specific courses, some common / general modifications have also been suggested by the members. The following modifications are applicable to all the courses.

- Use of acronym in the title of the course may be avoided
- No. of text books may be limited to 2 or 3. Other books may be listed as reference.
- Recent edition of text books may be included
- Repetition of Some topics in different courses of same curriculum may be kept in any one of the courses. For other such courses advanced topics may be included.
- Web references may be provided with full / complete URL

Modifications suggested by the experts are incorporated and resolved.


 29/1/14
 Chairman / EIE Board

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

MINUTES – FOURTH BOARD OF STUDIES MEETING

Department of Information Technology

Fourth Board of Studies meeting for the Department of Information Technology was held on 18/01/2014 (Saturday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Mr.M.Kaliappan, Assistant Professor (SG), the member of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|-----------------|
| Dr.R.Venkatasan
Professor & Head
Department of Computer Science and Engineering
PSG College of Technology
Peelamedu, Coimbatore - 641004 | - | External Member |
| Dr.S.Baulkani
Associate Professor
Department of ECE
Government College of Engineering
Tirunelveli – 627 007 | - | External Member |
| Dr.L.Ganesan
Professor & Head
Department of Computer Science and Engineering
Alagappa Chettiar College of Engineering and Technology
Karaikudi – 630 004 | - | External Member |
| Mr.Muthusamy Sadaaiappan
Vice President
Sriseshaa Technologies Private Limited
Adyar, Chennai – 600 020 | - | External Member |
| Dr.G.S.Harisekaran
Chief Technical Officer
Sriseshaa Technologies Private Limited
21, 2nd main road
Annaji Nagar, West KK Nagar
Chennai - 600078. | - | External Member |

Dr.D.Manimegalai Prof. & Head	-	Chairman
Mr.S.Sankar Ganesh Associate Professor	-	Member
A.H.Ragamathunisa Begum Associate Professor	-	Member
Mr.R.Muthu Kumar Assistant Professor (SG)	-	Member
Mr.M.Kaliappan Assistant Professor (SG)	-	Member

Special Invitees

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

Dr.P.Subburaj
Principal

Dr.V.Seenivasagam
Prof. & COE

Dr.B.Sankaragomathi
Dean (Academic)

4.01: B.Tech. (IT) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year B.Tech. – Information Technology department under Regulations-2013 were presented by A.H.Ragamathunisa Begum, Associate Professor, Member of the Board of Studies.

4.02: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by Dr.D.Manimegalai, Chairman of the Board of Studies.

- ✓ 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 recommend the following to the Academic Council for further approval.
 - a) The Curriculum and Syllabi for Second year B.Tech. (IT) degree course offered under Regulations-2013.
 - b) Introduction of one credit courses

Refer Annexure for the suggestions given by the BOS members.

Mr.R.Muthukkumar, **Asst.Prof.(SG)** 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

1. Ophthalmology - Retina and vitreous approved as a special elective for M.E. Communication and Networking (Regulations – 2013)
2. In 3rd Semester, Fourier Transforms and Discrete Structures may be changed as Fourier Transforms and Complex variables and Discrete structures can be included in Theory of Computation
3. In 3rd semester, Since the syllabus is too heavy, Data structures and Algorithms can be changed as Data Structures and Design and Analysis of Algorithms can be given as separate subject in 4th semester with 4 credit and practical hours
4. Digital Electronics may be renamed as Digital System Design.
5. Software Engineering may be moved to 5th semester.
6. Department subjects may be included in 2nd semester, for eg. C++. Hence in next higher semesters, new language subjects may be introduced.
7. Instead of giving tutorial hours for C# and .net Framework, Practical hours may be given.
8. Microprocessor and Microcontroller may be reduced to Microprocessor and Interfacing and Microcontroller may be given as elective and the Microprocessor and Microcontroller lab may be changed as Microprocessor lab.
9. In RDBMS, query optimization need to be included.
10. For OOPS using C++, venugopal Textbook may be preferred.
11. For Data structures, the given text book is of very high standard, some easy books may be given.
12. For all Subjects, 1 or 2 Text books and 3 Reference books are enough.

Suggestions given by BOS Members for ONE CREDIT NON CGPA COURSES

1. Having such type of courses are very good from the students point of view. Evaluation Committee may be formed to evaluate these courses and some system must be formed to assess the students.
2. Foreign Languages (German, French, Japanese and Russian) may be included in Group-III category.
3. Instead of NSS and NCC, the subjects like social responsibility, entrepreneurship development etc may be given in group IV.
4. In Sports category, Yoga & meditation may be included and Extra curricular may be removed from the list.
5. Group 4 may be removed since it is difficult to evaluate. The rest of the groups are good.
6. Technical courses may be included
7. Evaluating procedure for these courses should be passed in Academic council meeting.
8. The performance of the students in these courses may be assessed as Satisfactory, Good, Very good, Excellent.

D. H. [Signature] 18/02/14

Board Chairman/IT

[Signature]

Members Present

Dr.R.Venkatasani

Venkatesanik
18/1/14

Dr.S.Baulkani

S. Rumbhani

Dr.L.Ganesan

L. Ganesan

Mr.Muthusamy Sadaiappan

M. Sadaiappan

Dr.G.S.Harisekaran

G. S. Harisekaran

Dr.D.Manimegalai

D. Manimegalai

Mr.S.Sankar Ganesh

S. Sankar Ganesh

Ms.A.H.Ragumathunisha Begum

A. H. Ragumathunisha Begum
18/1/14

Mr.R.Muthu Kumar

R. Muthu Kumar

Mr.M.Kaliappan

M. Kaliappan

Dr.Kn.K.S.K.Chockalingam

Chockalingam

Dr.P.Subburaj

P. Subburaj

Dr.V.Seenivasagam

V. Seenivasagam

Dr.B.Sankaragomathi

B. Sankaragomathi
18/1/14

D. Manimegalai

Chairman / IT Board

NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution – Affiliated to Anna University Chennai)

K.R.NAGAR, KOVILPATTI – 628 503

www.nec.edu.in



SECOND BOARD OF STUDIES MEETING – MINUTES

CIVIL ENGINEERING DEPARTMENT

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

MINUTES – SECOND BOARD OF STUDIES MEETING

Department of Civil Engineering

Second Board of Studies meeting for the Department of Civil Engineering was held on 22/01/2014 (Wednesday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Mr.G.Petchiappan @ Balaji, Assistant Professor, the member of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|--|---|-----------------|
| Dr.K.Arunachalam
Prof. & Head / Civil
Thiagarajar College of Engineering
Madurai – 15. | - | External Member |
| Dr.Usha Natesan
Professor
Centre for Water Resources
Anna University, Guindy
Chennai –25. | - | External Member |
| Dr.K.Nagamani
Professor / Civil Engg.
Division of Structural Engineering
Anna University
Chennai – 600 025. | - | External Member |
| Dr.S.Selvan
Joint Chief Environmental Engineer
Tamil Nadu Pollution Control Board
D.V.Complex
Nehru Street, Erode – 1. | - | External Member |
| Er.P.Jeyakodi
ENREC Engineers
49-A3, 13 th Cross Street
New Colony
Chrompet, Chennai – 44. | - | External Member |

Dr.C.Puthiyasekar Prof. & Head / Civil	-	Chairman
Ms.R.Venkada Lakshmi Assistant Professor	-	Member
Mr.G.Petchiappan @ Balaji Assistant Professor	-	Member
Mr.S.Palani Kumar Assistant Professor	-	Member

Special Invitees

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

Dr.P.Subburaj
Principal

Dr.B.Sankaragomathi
Dean (Academic)

02.01: B.E. (Civil) – REGULATIONS - 2011 CURRICULUM AND SYLLABI FOR THIRD AND FINAL YEAR

Curriculum and Syllabi for Third and Final year B.E. – Civil Engineering Department under Regulations – 2011 were presented by **Mr.S.Palanikumar, Assistant Professor.**

02.02: B.E. (Civil) – REGULATIONS - 2013 CURRICULUM AND SYLLABI FOR SECOND YEAR

Curriculum and Syllabi for Second year B.E. – Civil Engineering Department under Regulations – 2013 were presented by **Mr.S.Palanikumar, Assistant Professor.**

02.03: INTRODUCING ONE CREDIT NON-CGPA COURSES

Assessment towards introducing one credit Non-CGPA courses were presented by **Dr.C.Puthiyasekar, Professor & Head.**

- ✓ 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 recommend the following to the Academic Council for further approval.
- a) The Curriculum and Syllabi for Third and Final year B.E. (Civil) degree course offered under Regulations 2011.
 - b) The Curriculum and Syllabi for Second year B.E. (Civil) degree course offered under Regulations 2013.
 - c) Introduction of one credit courses

Refer Annexure for the suggestions given by the BOS members.

Ms.R.Venkada Lakshmi, Assistant Professor thanked all the members for their kind cooperation and the meeting came to an end.



Chairman / Civil Board

ANNEXURE

NATIONAL ENGINEERING COLLEGE ,K.R.NAGAR, KOVILPATTI

(An Autonomous Institution Affiliated to Anna University Chennai)

DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF SECOND BOARD OF STUDIES MEETING ON 22.01.2014

Suggestions for Regulation – 2011 B.E. CIVIL ENGINEERING V TO VIII SEMESTER CURRICULUM AND SYLLABI

- **BCE503 Design of RC Elements**, the title may be changed to **Design of Reinforced Concrete Elements**,
- **BCE701 Basics of Dynamics and Aseismic Design**, the title may be changed to **Structural Dynamics and Earthquake Engineering**
- **BCE731 Software Application Laboratory**, the title may be changed to **Civil Software Application Laboratory**
- **BCE021 Architecture** (Eighth semester elective), the title may be changed to **Architecture and Town Planning**
- **BCE031 Remote Sensing Techniques and GIS** (Eighth semester elective), may be advanced as sixth semester elective
- Provision of tutorial hour for three credit course may not be recommended
- Number of Text books and Reference books is to be uniform numbers and latest edition have to be suggested.
- **BCE602 Structural Analysis – II**, title of first unit may be changed from **Flexibility Method** to **Flexibility Matrix Method**; Text book mentioned in Sl.No.1 may be shifted to Reference book
- **BCE603 Design of Steel Structures**, reference book mentioned in Sl.No.3 may be shifted to Text book.
- **BCE533 Irrigation and Environmental Engineering Drawing**, under Environmental Engineering, Design and drawing of Softner may be included in the view of wide usage in industries
- **BCE604 Environmental Engineering- II**, under Unit – 5: disposal of sewage sludge, deep well injection is not in legislation and also find detrimental

- **BCE631 Environmental Engineering Laboratory**, Experiment for determination of lime dosing may be included since lime with coagulant facilitates settling, Chemical balance may be included in the list of equipments.
- **BCE008 Coastal Zone Management**, under Unit – 1: coastal zone mapping principles and techniques to be included for implementing coastal zone regulations, under Unit- 3 disaster management plan may be included to understand handling emergency situation
- **BCE016 Industrial Waste Management**, under Unit – 4: characterization of effluents may be included, under Unit-5: coprocessing of incinerable wastes in cements and steel industries is gaining importance and thus to be included
- **BCE017 Air Pollution Management**, under unit – 1: source and effects of air pollutants and Ambient Air Quality Standards may be included, under Unit – 3: Pollution control of major industries may be included
- **BCE022 Municipal Solid Waste Management**, under Unit- 5: Disposal, monitoring of ambient air quality and public health study in surroundings may be included

Suggestions for Regulation – 2013 B.E. Civil Engineering III & IV Semester Curriculum and Syllabi

- **13CE31 Fourier Transforms and Complex Analysis**, one text book is provided. Minimum two text books may be provided.
- Same course title should not have different codes.
- **13CE32 Environmental Science and Engineering**, under Unit – 1: Field study of common plants, insects, and birds may not be needed.
- **13CE37 Survey Practical – I**, under list of equipments: Dumpy level, theodolite & plane table atleast 1 number is required for five students.

Suggestions for One Credit Non CGPA Courses

- Grouping in the one credit courses are to be interchanged and the students are free to select the courses.
- If any one student has not completed the one credit courses. How the degree will be given to him / her.
- How will you assess the students.
- Whether these courses are included for calculating the CGPA.


CHAIRMAN/CIVIL BOARD


Members Present

Dr.Usha Natesan  22/1/14

Dr.K.Nagamani  22/1/14

Dr.S.Selvan  22/1/14

Dr.C.Puthiyasekar  22/1/14

Ms.R.Venkada Lakshmi  22/1/14

Mr.G.Petchiappan @ Balaji  22/1/14

Mr.S.Palani Kumar  22/1/14

Dr.Kn.K.S.K.Chockalingam  22.1.14

Dr.P.Subburaj 

Dr.B.Sankaragomathi  22/1/14

 22/1/14
Chairman / Civil Board

FOURTH BOARD OF STUDIES MEETING

28th December 2013 - 29th January 2014



4th Board of Studies – Mechanical Engineering



4th Board of Studies – Computer Science & Engineering



4th Board of Studies – Electronics & Communication Engineering



4th Board of Studies – Electrical & Electronics Engineering



4th Board of Studies – Electronics & Instrumentation Engineering



2nd Board of Studies – Civil Engineering



4th Board of Studies – Information Technology