

MINUTES – SIXTH BOARD OF STUDIES MEETING

Department of Mechanical Engineering

The 6th Board of Studies meeting for the Department of Mechanical Engineering was held on 07/03/2016 (Monday) at Conference Hall, National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.K.Kalidasa Murugavel, Professor & Head / Mechanical Engineering, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | |
|--|----------------------|
| Dr.K.Kalidasa Murugavel
Professor & Head / Mechanical | - Chairman |
| Dr.K.Natarajan
Professor & Head / Mechanical
P.S.G. College of Technology, Coimbatore | - Academic Expert |
| Dr.A.Arockiarajan
Asso. Prof. / Applied Mechanics
Indian Institute of Technology Madras, Chennai | - Academic Expert |
| Dr. R.Arularasan
Asst. Prof. (SG) / Mechanical
University College of Engineering, Arni | - University Nominee |
| Dr.Balakrishnan Gopal
Caterpillar Engineering Design Center-India
Chennai | - Industrial Expert |

Mr.S.S.Ananthan Trichy Consultants for Advanced Engineering – TryCAE, Tiruchirappalli	- Industrial Expert
Mr.A.Illangovan Consun Energy Solutions Private Limited Bangalore	- Industrial Expert
Dr.Kn.K.S.K.Chockalingam, Director	- Special Invitee
Dr.S.Shanmugavel, Principal	- Special Invitee
Dr.K.Manisekar, Dean (Academic)	- Internal Member
Dr.D.Ravindran, Professor	- Internal Member
Dr.H.Kanagasabapathy, Professor	- Internal Member
Mr.G.Esakkimuthu, Asso. Prof. (SG)	- Internal Member
Dr.R.Sundararaj, Asso. Prof.	- Internal Member
Dr.T.Vigraman, Asso. Prof.	- Internal Member
Mr.D.Venatkumar, Asst. Prof. (SG)	- Internal Member
Mr.F.Michael Thomas Rex, Asst. Prof.	- Internal Member

06.01: B.E. (MECHANICAL) – REGULATION-2013 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E.–Mechanical Engineering department under Regulation 2013 were presented by **Mr.D.Venatkumar, Asst.Prof. (SG)**.

Mr.S.S.Ananthan Trichy Consultants for Advanced Engineering – TryCAE, Tiruchirappalli	- Industrial Expert
Mr.A.Illangovan Consun Energy Solutions Private Limited Bangalore	- Industrial Expert
Dr.Kn.K.S.K.Chockalingam, Director	- Special Invitee
Dr.S.Shanmugavel, Principal	- Special Invitee
Dr.K.Manisekar, Dean (Academic)	- Internal Member
Dr.D.Ravindran, Professor	- Internal Member
Dr.H.Kanagasabapathy, Professor	- Internal Member
Mr.G.Esakkimuthu, Asso. Prof. (SG)	- Internal Member
Dr.R.Sundararaj, Asso. Prof.	- Internal Member
Dr.T.Vigraman, Asso. Prof.	- Internal Member
Mr.D.Venatkumar, Asst. Prof. (SG)	- Internal Member
Mr.F.Michael Thomas Rex, Asst. Prof.	- Internal Member

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B.E. (MECHANICAL) – REGULATION-2015 CURRICULUM AND SYLLABI FOR SECOND YEAR TO FINAL YEAR

Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. – Mechanical Engineering department under Regulation 2015 were presented by Mr.F.Michael Thomas Rex, Asst. Prof.

SUGGESTIONS

- *The following modifications in the Regulation 2015 (3rd to 8th semester)*
 1. CO levels are to be verified with Blooms taxonomy verbs.
 2. Minimum pass marks for both external and internal must be included in the syllabus
 3. Integrated course
 - i. Lab components must be included in the syllabus
 - ii. Course name must represent the lab
 4. Codes and standards are to be included wherever it is required.
 5. Data book, tables, charts are to be provided by the college
 6. KSA Levels – abbreviation should be mentioned in the syllabus
 7. Project Management course syllabus should contain modern techniques like ERP, Logistics and Big Data Analysis, PLM, SLM, Statistics etc.
 8. “Optimization” course has to be rearranged in the manufacturing elective list.
 9. Design domain courses CAD and CAM courses has to be offered separately.
 10. Hydraulic and Pneumatic systems course are to be included in the curriculum.
 11. FEA course syllabus has to be refined.
- *Based on the suggestions given by the members, there were no corrections in the Regulation 2013 (7th & 8th semester).*

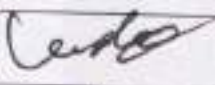
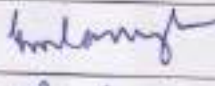
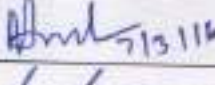
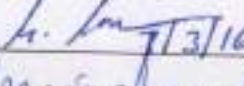


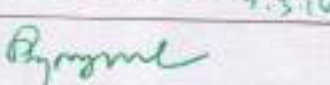
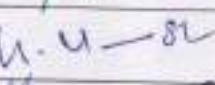
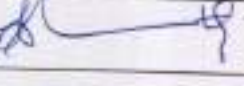
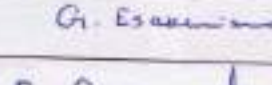
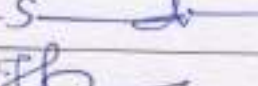


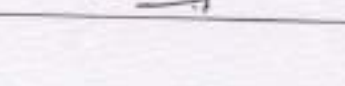

... among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- The Curriculum and Syllabi for Final year B.E. (Mechanical) degree course offered under Regulation 2013.
- The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. (Mechanical) degree course offered under Regulation 2015.

Mr.F.Michael Thomas Rex, Asst. Prof, thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.K.Kalidasa Murugavel	
Dr.K.Natarajan	
Dr. R.Arularasan	
Dr.Balakrishnan Gopal	
Mr.M.Vivekanandan	
Mr.S.S.Ananthan	
Dr.Kn.K.S.K.Chockalingam	
Dr.S.Shanmugavel	
Dr.K.Manisckar	
Dr.H.Kanagasabapathy	
Mr.G.Esakkimuthu	
Dr.R.Sundararaj	
Dr.T.Vigraman	
Mr.D.Venkatkumar	
Mr.F.Michael Thomas Rex	



Chairman / Mechanical Board

Dr. K. Kalidasa Murugavel, *Page 4 of 4*
Professor & Head,
Dept. of Mechanical Engg.,
National Engineering College
K.R. Nagar, Avudurai - 627 403

MINUTES – SIXTH BOARD OF STUDIES MEETING

Department of Electronics and Communication Engineering

The Sixth Board of Studies meeting for the Department of Electronics and Communication Engineering was held on 12/03/2016 (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.

BSM Members:

Dr. A. Shenbagavalli, Prof.&Head/ECE	-	Chairman
Dr. M. Malleswaran, Prof &Head of ECE University College of Engineering, Kanchipuram	-	Academic Expert
Dr. Ruhilal Bilal, Associate Professor/ ECE, Thanthai Periyar Government Institute of Tech, Vellore	-	University Nominee
Mr. Anandhsarangaram, Senior design Engineering Manager, - Tensilica Technologies India pvt ltd, Pune	-	Industrial Expert
Mr. S. Yogan, Vice President – Engineering, Tensolve semiconductor Pvt Ltd, Coimbatore	-	Industrial Expert
Mr. C. Karthik, Staff Test Engineer, Microsemi India pvt Ltd, Hyderabad.	-	Industrial Expert
Dr. Ka. K. S. K. Chockalingam, Director	-	Special Invitee
Dr. S. Shanmugavel, Principal	-	Special Invitee
Dr. K. Manisekar, Dean (Academic)	-	Special Invitee
Dr. S. Tamil Selvi, Professor	-	Internal Member
Mr. N. Arumugam, Associate Professor	-	Internal Member
Mr. V. R. S. Mani, Associate Professor	-	Internal Member
Mrs. S. D. Jayavathi, Associate Professor	-	Internal Member
Mr. T. Vijayanandh, Assistant Professor (SG)	-	Internal Member
Mr. K. J. Prasanna Venkatesan, Assistant Professor (SG)	-	Internal Member

Assistant Professor (SG)

- Internal Member

Mr.S.Cammillus, Assistant Professor (SG)

- Internal Member

Mr.V.Prithivi Rajan, Assistant Professor (SG)

- Internal Member

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

Curriculum and Syllabi for Final year B.E. – Electronics and Communication Engineering department under Regulations-2013 were presented by Dr.A.Shenbagavalli, Professor and Head ECE.

MEMO: B.E. (ECE) – REGULATIONS - 2015 CURRICULUM AND SYLLABI FOR SECOND YEAR TO FINAL YEAR

Curriculum and syllabi for Second year to Final year B.E. – Electronics and Communication Engineering department Regulations-2015 under CBCS were presented by Dr.S.Tamil Selvi, Professor and Head/ ECE(PG)

Suggestions

- The 6th Board of Studies expert members suggested a few modification in the Regulation 2015 syllabus (3rd to 8th semester) and they are as follows:

DIGITAL ELECTRONICS

- Timing analysis concepts may be included in the 3rd unit and FinFET can be included in the 5th unit.

DIGITAL ELECTRONICS LAB

- The 8th experiment titled "Design and simulation of Adder, Subtractor, Multiplexer, Demultiplexer, 4 bit ripple counter, Mod-10 ripple counter and Shift registers using Verilog Hardware Description Language" may be replaced with detailed description.

DIGITAL SIGNAL PROCESSING

- Some redundant, topics in the unit IV may be removed and instead of it, the topics such as: saturation arithmetic, symmetric and asymmetric rounding topics may be included
- Adaptive filter topic in Unit V may be removed. Instead of that subband coding, Quadrature mirror filters, Sample rate converter and some applications of Multirate Signal Processing may be included.

DIGITAL SIGNAL PROCESSING LABORATORY

- A few DSP experiments using C language may be added.
- Experiments related to various file formats including wav, bmp, yuv, pcm may be added.
- Sample rate converter, and dynamic range converter experiments may be added.

ADVANCED COMMUNICATION SYSTEMS

- Standard such as ETSI and G7X may be included for explaining the concepts of adaptive PCM and DPCM.

LINEAR INTEGRATED CIRCUITS

- The Course Outcomes (COs) may be reduced.
- Phase noise topic may be included in Unit III.
- INL, DNL (static analysis converter) and SNR, THD, SINAD (Dynamic analysis converter) topics may be included in Unit IV.
- IC317, and IC7805 topics may be added in Unit V.

- Pentium processor in Unit III may be replaced by RISC processor.
- 80386, 80486 processors may be removed from unit II and instead scope of Pentium 286 can be expanded.
- Memory architecture and USB topics may be included in unit V.

LABORATORY

- 1st experiment titled "Simulation of Differential amplifier, Instrumentation amplifier, Active lowpass, Highpass, Bandpass, Astable and Monostable multivibrators, RC phase shift oscillator and Wein bridge oscillators using PSPICE" may be clearly specified.
- Instead of having Experiment 9 and Experiment 10 as "Design of Analog to Digital Converter circuit for Ramp and Sine input" and "Design of Digital to Analog Converter using DAC0808" it can be specifically given as, study of ADC for RAMP and sine input.
- Experiment 8 titled "Study of PLL 565 characteristics and its use as Frequency Multiplier" can be retained as study of PLL for frequency multiplier and phase noise measurement.
- Some experiments using IC317, and IC7805 may be included and the usage of data sheets may be encouraged.

RF AND MICROWAVE LABORATORY

- A specific title may be given for experiment 12 titled "VSWR, Frequency and Wave Length Measurement using slotted section with tunable probe" and experiment 13 titled "Gain and Radiation Pattern Measurement of antennas".

COMPREHENSION

- Students can be divided into various groups based on their area of interest.
- Course Outcome 4 can be changed.

DIGITAL SIGNAL PROCESSORS

- 4th reference book may be removed.
- Unit V may be completely replaced with some advanced processors, since it is not used in the market.

MULTIMEDIA COMPRESSION AND COMMUNICATION

- In Unit III only MPEG 2 or 4 is enough, and MPEG 1 may be removed. MP3 standards and H.264 standards can be added.
- JPEG 2000 standards can be removed in unit II.

FUNDAMENTALS OF SEMICONDUCTOR CHIP TESTING

- Some redundant topics from the course may be removed and the course content may be grouped into 4 units. PCB design for silicon validation may be included as 5th unit.
 - Wavelets and its applications, VLSI Digital Signal Processing, Information Theory and Coding Techniques, High Speed Networks, Network Defense and Ethical Hacking, Industrial Networking may be removed from the Elective.
 - Control Systems Analysis and Design subject may be moved from elective to core paper in the 4th semester, and Computer Communication Networks subject in the 6th semester may be moved from core to elective.
 - Internship and Inplant training in the 7th semester may be moved to 8th semester. Correspondingly, one elective in the 8th semester can be moved to 7th semester.
 - Product Development laboratory may be introduced in the 6th semester.
 - Instead of opting a 3 credit elective course, a student may opt 3 one credit courses from 3rd to 8th semester.
- Based on the suggestions given by the members, there were no correction in the Regulation 2013 (7th and 8th semester).

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

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

- The Curriculum and Syllabi for Final year B.E. (ECE) degree course offered under Regulation 2013.
- The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. (ECE) degree course offered under Regulation 2015.

Ms.S.D.Jayavathi, Asso. Prof. thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr. A. Srinibagavalli	
Dr. M. Mallewaran	 12/31/16
Mr. Sundharangaram	 12/3
Mr. S. T. Gan	
Mr. C. Karthik	
Dr. G. K. S. K. Chockalingam	 12.3.16
Dr. S. Shanmugavel	
Dr. K. Manickar	 U. M. - S.
Dr. S. Tamil Selvi	
Mr. N. Anamugam	 N. A. S. -
Mr. A. R. S. Mani	 V. R. S.
Ms. S. D. Jayavathi	
Mr. T. Vijayanandh	
Mr. K. J. Prasanna Venkatesan	 12/31/16
Mr. A. Saravana Selvan	 A. S. - 12/31/16
Mr. S. Camillus	
Dr. K. Prithvirajan	 12/31/16


Chairman / ECE Board

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

MINUTES - SIXTH BOARD OF STUDIES MEETING

Department of Computer Science and Engineering

The 6th Board of Studies meeting for the Department of Computer Science and Engineering was held on 19/03/2016 (Saturday) at CISCO Networking Laboratory of CSE Department, National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.B.Prasannaivan, Professor & Head / CSE, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

MEMBERS:

- | | |
|--|----------------------|
| Dr.B.Prasannaivan, Professor & Head / CSE | - Chairman |
| Dr.V.Ramdas, Professor & Dean FW Dept. of MACS, National Institute of Technology, Surathkal. | - Academic Expert |
| Dr.Priya Maheshwari, Professor & Head / CSE & IT Anna University Regional Centre, Coimbatore | - University Nominee |
| Dr.N.M. Sundararaj, GPHR, Regional Head TCS Consultancy Services, Chennai | - Industrial Expert |
| Dr. Jagan Chockalingam, President Jagan Systems, Guindy, Chennai | - Industrial Expert |
| Dr.S.Ramasamyaraj, Senior Director Cognate Technology Solutions, Velachery, Chennai | - Industrial Expert |
| Dr.N.M. Vivekwaran, Chief Mentor Anusandhi, Sioneri Campus, Chennai | - Industrial Expert |
| Dr. Jaganathan Aravindh, Senior Project Manager HCL Technologies Ltd, Sobhanaganallur, Chennai | - Industrial Expert |

Mr. SP. Ramesh HCL Technologies Ltd, Sozhanganallur, Chennai	- Industrial Expert
Dr. K. K. S. K. Chockalingam, Director	- Special Invitee
Dr. S. Shammugavel, Principal	- Special Invitee
Dr. K. Manickar, Dean (Academic)	- Special Invitee
Dr. V. Gomathi, Professor	- Internal Member
Dr. V. Kalaiwani, Professor	- Internal Member
Mr. K. Mohaideen Pitchai, Asso. Prof.	- Internal Member
Ms. T. Yamala, Asst. Prof. (SG)	- Internal Member
Mr. S. Anantha Kumaran, Asst. Prof. (SG)	- Internal Member
Ms. M. Bhuvaneshwari, Asst. Prof. (SG)	- Internal Member
Ms. J. Nandini, Asst. Prof. (SG)	- Internal Member
Ms. M. Jayalakshmi, Asst. Prof. (SG)	- Internal Member
Ms. P. Rajakumari, Asst. Prof. (SG)	- Internal Member
Mr. C. Mahalingam, Asst. Prof. (SG)	- Internal Member
Ms. M. Stella Inba Mary, Asst. Prof. (SG)	- Internal Member
Mr. D. Vijayakumar, Asst. Prof. (SG)	- Internal Member
Ms. G. Sivakama Sundari, Asst. Prof.	- Internal Member

REG: B.E. (CSE) – REGULATION - 2013 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E.– Computer Science and Engineering department under Regulation 2013 were presented by Ms.V.Vimala, Asst. Prof. (SG)/CSE.

REG: B.E. (CSE) – REGULATION - 2015 CURRICULUM AND SYLLABI FOR SECOND YEAR TO FINAL YEAR

Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. – Computer Science and Engineering department under Regulation 2015 were presented by Dr.V.Kalaivani, Professor / CSE.

Remarks

Dr. A.Kandasamy, Professor & Dean FW Dept. of MACS, NIT, Surathkal

- Mathematical paper should cover the practical application of maths concepts.
- In Operating Systems, include case studies about UNIX, Windows and Android.
- Machine Learning course can be set as core or compulsory elective.
- Prerequisite for each course is mandatory.
- Provide virtual lab setup for inplant training with companies
- Discrete Structure and Graph theory may be named as Discrete Structure.
- As there is little scope for compiler design related jobs, it may be better to offer TOC as elective course.

Dr.P.Ema Maheswari, Professor & Head, Department of CSE & IT, Anna University Regional Centre, Coimbatore.

- Syllabus is at par with Affiliated University syllabus.
- Subject distribution is appreciable.
- Laboratories are well designed.
- Internet of Things, Data Science and Analytics can be considered for core subject.

- For object oriented programming, include E.Balagurusamy's book as text book.
- Better to introduce 3 one credit courses instead of a single elective with 3 credits at VII or VIII sem. (One credit course may be a workshop like teaching or fieldwork or industrial course)
- Try to reduce theory classes at VIII sem. (May be completely project work along with one credit courses.)

Dr.K.M. Suceendran, GPHR, Regional Head – Chennai Resource Management Group & Workforce Management Head – Assurance Services, Tata Consultancy Services, Chennai.

- Introduce object oriented programming instead of C programming
- Software testing may be mapped with the industry certification syllabus. This will be useful for placement.
- In references, journals can be added.
- Introduce object oriented programming instead of C programming from 1st year onwards.
- Introduce Java in 1st semester onwards.
- In Mobile Application Development, design thinking is needed regarding user requirements.
- One credit courses may be added in curriculum based on industry training.
- In MAD lab, do the projects like games. Also develop projects using the existing concepts.
- Need not have UNIT distribution.
- Complete the theory in 25 hours and handle labs.
- Virtual IT office @NEC for 3 days to make industry environment@ NEC.
- It is suggested that Peri is not needed
- Include one more mini project instead of inplant training.

Mr. Soma Chockalingam, President, Doyen Systems, Guindy, Chennai.

- Appreciated for including all the emerging trends in the curriculum.
- Not recommend to include the course SAP, the topics related to it may be included.
- Green Computing may be Compulsory elective or Core.
- Recommended to include Perl.

Mr. K.N. Visveswaran, Chief Mentor, Hexavarsity, Hexaware Technologies Ltd.,
Sinneri Campus, Chennai

- In laboratory courses, train the students to use data from files (i.e.,) they have to work with data which imitates the real life scenario.
- In Computer graphics syllabus, suggested to mention as generic animation tools.
- Students may be given exposure to user interface design oriented assignments.
- Cloud lab may be included in final semester.
- User Interface – Train the students by experts for a week. They will give assignment and evaluate them.
- Mini project: Topics will not be limited. Give more topics, Students will select by their own interest.

Mr. Antony Dasan Arravindh, Senior Project Manager, HCL Technologies Ltd.,
Sathangudi Village, Chennai.

- Programming language oriented courses should be delivered with case studies.
- In laboratory courses, train the students to work with data which imitates real life scenario.
- In Operating Systems laboratory course, include case studies about UNIX, Windows and Android.
- Agile course may be included as elective.

Dr.SP.Rahmesh, Senior Project Manager, HCL Technologies Ltd., Sozhanganallur Village, Chennai.

- Agile methodology should be included as course content in Software Engineering Methodologies.
 - In DBMS laboratory course, conduct experiments with industry standards.
 - Use reverse engineering for laboratory courses.
 - During content delivery, problems can be enhanced with real time case studies to add extra flavours.
- All members appreciated the self study courses initiated in Regulation 2013.
- It may be start from 3rd year onwards, and then Communication skill will be improved.
- For self study courses the evaluation process may be
- Open book test
 - Presentation
 - Assignment
 - Blog
 - News paper articles
 - Group Discussion


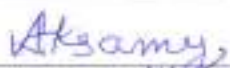


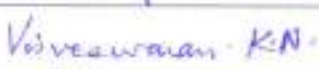

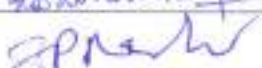


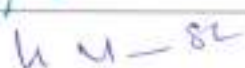
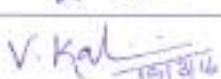
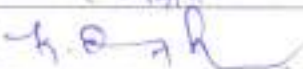


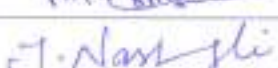
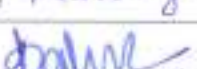



The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- The Curriculum and Syllabi for Final year B.E. (CSE) degree course offered under Regulation 2013.
- The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. (CSE) degree course offered under Regulation 2015.

Mr.D.Vijayakumar, Assistant Prof.(SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.B.Paramasivan	
Dr.A.Kandasamy	
Dr. K.M. Succendran	
Mr. Somu Chockalingam	
Mr. K.N. Visveswaran	
Mr. Antony Dasan Arravindh	
Dr. SP.Rahmesh	
Dr.Kn.K.S.K.Chockalingam	 19.3.16
Dr.S.Shanmugavel	
Dr.K.Manisekar	
Dr.V.Kalaivani	 19/3/16
Dr.K.Mohaideen Pitchai	
Ms.V.Vimala	
Ms.M.Bhuvaneshwari	
Ms.J.Naskath	
Mr.S.Anantha Kumaran	
Ms.M.Jayalakshmi	
Ms.R.Rajakumari	
Mr.K.Maharajan	

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

MINUTES – SIXTH BOARD OF STUDIES MEETING

Department of Electrical and Electronics Engineering

The 6th Board of Studies meeting for the Department of Electrical and Electronics Engineering was held on 26/03/2016 (Saturday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.M.Willjuice Iruthayarajan, Professor & Head / EEE, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | |
|--|----------------------|
| Dr. M.Willjuice Iruthayarajan, Professor & Head / EEE | - Chairman |
| Dr. P.Venkatesh, Asso. Professor / EEE
Thiagarajar College of Engg., Madurai | - Academic Expert |
| Dr.V.Sankaranarayanan, Asso. Prof. / EEE
National Institute of Technology, Trichy | - Academic Expert |
| Dr.C.Ponmani, Asst. Professor / EEE
Government College of Engg., Tirunelveli | - University Nominee |
| Dr.G.Venkatesan, Principal
Narasu's Sarathy Ins. of Technology, Omalur | - Alumni |
| Dr.Santosh Kumar Annadurai, Alstom Grid
Unit R&D Head, Chennai | - Industrial Expert |
| Mr.S.Subramanian, Senior Maintenance Engg (I)
Kudankulam | - Industrial Expert |

Mr.K.Ramesh, Associate Manager Sterlite Copper, Tuticorin	- Industrial Expert
Dr.Kn.K.S.K.Chockalingam, Director	- Special Invitee
Dr.S.Shanmugavel, Principal	- Special Invitee
Dr.K.Manisekar, Dean (Academic)	- Special Invitee
Dr.L.Kalaivani, Asso. Prof. (SG)	- Internal Member
Dr.M.Ravindran, Asso. Prof.	- Internal Member
Dr.R.V.Maheswari, Asso. Prof.	- Internal Member
Mr.N.B.Prakash, Asso. Prof.	- Internal Member
Mr.G.Kannayeram, Asst. Prof. (SG)	- Internal Member
Mr.M.P.E.Rajamani, Asst. Prof. (SG)	- Internal Member

**06.01: B.E. (EEE) – REGULATION - 2015 CURRICULUM AND SYLLABI FOR
SECOND YEAR TO FINAL YEAR**

Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. – Electrical and Electronics Engineering department under Regulation 2015 were presented by Dr.L.Kalaivani, Asso. Prof. (SG) / EEE.

Suggestions

- The following modifications in the Regulation 2015 (3rd to 8th semester)

S. No.	Course Code	Course Title	Suggestions
1.	15EE34C	DC Machines and Transformers	Speed control of compound motor may be included.
2.	15EE35C	Linear Integrated Circuits and its Applications	Latest edition of books should be included.

3.	15EE36C	Digital Logic Circuits	No. of references should be reduced.
4.	15EE38C	Integrated Circuits Laboratory	Amplifier and oscillator experiments may be added.
5.	15EE43C	Control Engineering	Latest edition of books should be included.
6.	15EE45C	Electrical Power Systems	Hand books may be added as references.
7.	15EE48C	Control and Instrumentation Laboratory	Software names should be removed from syllabus.
8.	15EE52C	Power Electronics	Multilevel inverters may be included.
9.	15EE55C	Digital Signal Processing and its Applications	Instead TMS320C5X, TMS320LF2407 may be included.
10.	15EE57C	Microprocessor and Microcontroller Laboratory	16 bit operations may be included. VHDL programmes may be included.
11.	15EE66C	Power System Simulation and High Voltage Laboratory	Instead of the word measurement, characteristics should be used.
12.	15EE71C	a) Mini Project – 4 Credits b) Internship – 1 to 4 Credits c) Inplant Training – 2 to 4 Credits (Minimum of 6 credits are to be earned)	Internship and Inplant training should be moved to 8 th semester.
13.	15EE09E	Power Quality	Standards may be included as content.
14.	15EE14E	EHV Power Transmission	Subject name may be modified.
15.	15EE15E	High Voltage DC Transmission	Line commutated and voltage source converters may be included.
16.	15EE17E	PLC, SCADA and DCS [®]	Subject name may be changed.
17.	<p><u>GENERAL SUGGESTIONS IN SYLLABUS FOR REGULATION 2015</u></p> <ul style="list-style-type: none"> ✓ Electronic Circuits laboratory should be included in the curriculum. ✓ Available hand books can be included in references. ✓ Recent editions of text and reference books should be included. ✓ For laboratory, virtual platforms may be included for demonstrating experiments. 		

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

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

- a) The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. (EEE) degree course offered under Regulation 2015.

Mr.M.P.E.Rajamani, Asst. Prof.(SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr. M.Willjuice Iruthayarajan	M. Willjuice 26/03/16
Dr. P.Venkatesh	P. Venkatesh 26/3/16
Dr.V.Sankaranarayanan	V. Sankaranarayanan 26/3/16
Dr.C.Ponmani	C. Ponmani 26/3/16
Dr.G.Venkatesan	G. Venkatesan 26/3/16
Dr.Santosh Kumar Annadurai	S. Santosh Kumar Annadurai 26/3/16
Mr.S.Subramanian	S. Subramanian 26.3.16
Dr.Kn.K.S.K.Chockalingam	K. K. S. K. Chockalingam 26.3.16
Dr.S.Shanmugavel	S. Shanmugavel 26/3/16
Dr.K.Manisekar	K. Manisekar 26/3/16
Dr.L.Kalaivani	L. Kalaivani 26/3/16
Dr.M.Ravindran	M. Ravindran 26/3/16
Dr.R.V.Maheswari	R. V. Maheswari 26/3/16
Mr.N.B.Prakash	
Mr.G.Kannayeram	G. Kannayeram 26/3/16
Mr.M.P.E.Rajamani	M. P. E. Rajamani 26.3.16

M. Willjuice
Chairman / EEE Board

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

MINUTES – SIXTH BOARD OF STUDIES MEETING

Department of Electronics and Instrumentation Engineering

The 6th Board of Studies meeting for the Department of Electronics and Instrumentation Engineering was held on 04/03/2016 (Friday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.B.Sankaragomathi, Professor & Head / EIE, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

Dr.B.Sankaragomathi, Professor & Head / EIE	-	Chairman
Dr.V.Subbiah Bharathi, Dean SRM University, Chennai	-	Academic Expert
Dr. S.Edward Rajan, Professor / EEE Mepco Schlenk Engg. College, Sivakasi	-	Academic Expert
Dr.K.Latha, Associate Professor / IE MIT Campus, Chennai	-	University Nominee
Dr.G.S.R.Emilselvan, Asst. Prof. / IT Thiagarajar College of Engineering, Madurai	-	Meritorious Alumnus
Mr.Ramesh, Head – Instrumentation Sterlite Copper, Thoothukudi	-	Industrial Expert
Mr.C.Rajkumar, Engineering Director Cadence Design Systems India Pvt Ltd. Bangalore	-	Industrial Expert
Mr.K.T.Gandhi Karuna, Chief Technology Officer Watsinit Mobile Technologies Pvt Ltd. Kanchipuram	-	Industrial Expert
Dr.Kn.K.S.K.Chockalingam, Director	-	Special Invitee
Dr.S.Shanmugavel, Principal	-	Special Invitee
Dr.K.Manisekar, Dean (Academic)	-	Special Invitee
Dr.D.Santhi, Asso. Prof. (SG)	-	Internal Member

Mr.Jackson Daniel, Asso. Prof.	- Internal Member
Mr.K.Shankar, Asso. Prof.	- Internal Member
Mr.V.Suresh, Asso. Prof.	- Internal Member
Dr.S.Manikandan, Asso. Prof.	- Internal Member
Ms.M.Carmel Sobia, Asst. Prof. (SG)	- Internal Member
Ms.A.Geetha, Asst. Prof. (SG)	- Internal Member
Ms.J.Babitha Thangamalar, Asst. Prof. (SG)	- Internal Member
Mr.S.Siva Suriya Narayanan, Asst. Prof.	- Internal Member

06.01: B.E. (EIE) – REGULATION - 2013 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.E.–Electronics and Instrumentation Engineering department under Regulation 2013 were presented by **Ms.M.Carmel Sobia, Asst.Prof. (SG)**.

06.02: B.E. (EIE) – REGULATION - 2015 CURRICULUM AND SYLLABI FOR SECOND YEAR TO FINAL YEAR

Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. – Electronics and Instrumentation Engineering department under Regulation 2015 were presented by **Dr.D.Santhi, Asso. Prof. (SG)**.

Suggestions

- The following modifications in the Regulation 2015 (3rd to 8th semester)
 - The BOS resolved to **INCLUDE ADVANCED TOPIC** in the following courses
15EI04E - Embedded Systems, 15EI05E - VLSI Design,
15EI12E - Sensor Networks
 - The BOS resolved to modify the topics in the following courses
 1. 15EI33C - Electronic Devices and Circuits
 2. 15EI34C - Sensors and Transducers
 3. 15EI35C - Linear Integrated Circuits
 4. 15EI38C - Electronic Devices and Circuits Laboratory
 5. 15EI42C - Control Systems
 6. 15EI43C - Electrical Measurements and Electronic Instrumentation
 7. 15EI45C - Digital Circuits and Systems
 8. 15EI52C - Microprocessor, Microcontroller and Applications
 9. 15EI55C - Industrial Instrumentation Laboratory
 10. 15EI56C - Process Control Laboratory
 11. 15EI62C - Testing and Calibration of Instruments

12. 15EI63C - Biomedical Instrumentation
 13. 15EI66C - Industrial Automation Laboratory
 14. 15EI08E - Power Plant Instrumentation
 15. 15EI18E - Process Control Components
- The BOS resolved to **CHANGE THE TITLE** of the following theory courses
15EI51C - Flow and Level Instrumentation, 15EI61C - PLC, SCADA and DCS,
15EI20E - Advanced Process Control
 - The BOS resolved to **REMOVE** the following courses
15EI64C - Virtual Instrumentation, 15EI14E - Applied Soft Computing
 - The BOS resolved to **INCLUDE** the following courses
Networks Analysis and Synthesis, Automotive Instrumentation and Control,
Virtual Instrumentation Lab in 5th Semester, Communication Systems
 - Following suggestions were given by the **INDUSTRIAL EXPERTS**
 1. Mini project with one credit must be given in 6th semester in addition to comprehension
 2. Project Phase – I may be included in 7th semester. But the End semester exam may be during phase – II.
 3. Course instructor must verify the prerequisites for open elective.
 4. Technical clubs for Each Domain Groups must be introduced.
 5. Each unit of the mathematics course must have engineering applications (the course instructor must set questions only on mathematical concepts)
 6. The following courses are to be interchanged
 7. 15EI35C - Linear Integrated Circuits (from 3rd to 4th Semester)
 8. 15EI43C - Electrical Measurements and Electronic
 9. Instrumentation (from 4th to 3rd Semester)
 10. The following courses are to be merged as a single course titled thermodynamics and fluid mechanics in 4th semester.
 11. Engineering Mechanics and Fluid Mechanics
 12. Thermodynamics and Heat transfer
 13. A course related to software industry must be introduced in their 3rd semester.
 14. Syllabus for VLSI design and VLSI testing will be framed by Industrial Experts.
 15. Content delivery for each unit of the course must start with small video.
 16. Creative assignments / quiz may be given to all students to impart the basic knowledge related to course.
 17. In general the entire syllabus content is good and vast in most of the courses.
 - Based on the suggestions given by the members, there were no corrections in the Regulation 2013 (7th & 8th semester).



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

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

- The Curriculum and Syllabi for Final year B.E. (EIE) degree course offered under Regulation 2013.
- The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. (EIE) degree course offered under Regulation 2015.

Mr.K.Shankar, Asso. Prof. thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.B.Sankaragomathi	 4/3/16
Dr.V.Subbiah Bharathi	
Dr. S.Edward Rajan	S. Edward Rajan / 04/03/16
Dr.K.Latha	K. Latha / 4/3/16
Mr.Ramesh	Ramesh / 4.3.16
Mr.C.Rajkumar	C. Rajkumar
Mr.K.T.Gandhi Karuna	K.T. Gandhi Karuna
Dr.Kn.K.S.K.Chockalingam	Kn.K.S.K.Chockalingam / 4-3-16
Dr.S.Shanmugavel	S. Shanmugavel
Dr.K.Manisekar	K. Manisekar / 4-3-16
Dr.D.Santhi	D. Santhi / 04/03/16
Mr.Jackson Daniel	Jackson Daniel
Mr.K.Shankar	K. Shankar
Mr.V.Suresh	V. Suresh
Dr.S.Manikandan	S. Manikandan
Ms.M.Carmel Sobia	M. Carmel Sobia
Ms.A.Geetha	A. Geetha
Ms.J.Babitha Thangamalar	J. Babitha Thangamalar
Mr.S.Siva Suriya Narayanan	S. Siva Suriya Narayanan


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 Civil Engineering

The 6th Board of Studies meeting for the Department of Civil Engineering was held on 09/03/2016 (Wednesday) at Civil Engineering department of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.C.Puthiyasekar, Professor & Head / Civil, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

Dr.C.Puthiyasekar, Professor & Head / Civil	- Chairman
Dr.K.Arunachalam, Professor / Civil Thiagarajar College of Engineering, Madurai	- Academic Expert
Dr.G.Elangovan, Asso. Professor / Civil University College of Engineering, Pattukkottai	- University Nominee
Dr.S.Selvan, Joint Chief Environmental Engineer Tamil Nadu Pollution Control Board, Chennai	- Industrial Expert
Dr.P.Venkatesan, Managing Director Methras Industries Private Limited, Chennai	- Industrial Expert
Er.S.Subburaj Creative Industries, Kundampatti, Sevalpatti (PO)	- Industrial Expert
Dr.Kn.K.S.K.Chockalingam, Director	- Special Invitee
Dr.S.Shanmugavel, Principal	- Special Invitee
Dr.K.Manisekar, Dean (Academic)	- Special Invitee
Ms. R.Venkada Lakshmi, Asst. Prof.	- Internal Member
Mr.G.Petchiappan @ Balaji, Asst. Prof.	- Internal Member
Ms.A.Kanimozhi, Asst. Prof.	- Internal Member
Ms.A.Lilly Joice, Asst. Prof.	- Internal Member
Mr.S.Sebastin, Asst. Prof.	- Internal Member

Mr.S.Naufal Rizwan, Asst. Prof.	- Internal Member
Ms.R.Vigneshwari, Asst. Prof.	- Internal Member
Ms.J.Anu Priya, Asst. Prof.	- Internal Member

04.01: B.E. (CIVIL) – REGULATION - 2015 CURRICULUM AND SYLLABI FOR SECOND YEAR TO FINAL YEAR

Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. – Civil Engineering department under Regulation 2015 were presented by **Mr.S.Naufal Rizwan, Asst. Prof.**

Suggestions

Curriculum and Syllabi of 3rd to 8th semester under Regulation 2015

PROGRAMME CORE COURSE:

- **15CE36C Environmental Science and Engineering (III Semester)**
 - ✓ *In unit III Environmental pollution, the importance should be given to vehicular pollution*
- **15CE38C ENGINEERING SURVEY PRACTICAL I (III Semester)**
 - ✓ Experiments on Total Station may be included.
- **15CE53C WATER SUPPLY TREATMENT AND MANAGEMENT (V SEMESTER)**
 - ✓ *In Unit III Water Treatment, Residue management – TSDF & Cement plant may be replaced with co - processing and co – incineration*
- **15CE64C WASTE WATER TREATMENT AND MANAGEMENT (VI SMESTER)**
 - ✓ *In Unit IV Secondary treatment of sewage, Aerobic and anaerobic system may be distinguished*
 - ✓ *In Unit V Disposal of Sewage and sludge, New legislation (2016) for sewage treatment and disposal envisage of water characteristics may be included.*

PROGRAMME ELECTIVE COURSE:

- 15CE14E the course *CONCRETE TECHNOLOGY* (Structural Engineering Domain) may be made as a programme core course
- **15CE38E TRAFFIC ENGINEERING AND MANAGEMENT** (Survey and Transportation Engineering domain)
 - ✓ *In Unit I Introduction, Provision of storm water collection drain may be included*
- **15CE47E INDUSTRIAL WASTE MANAGEMENT** (Environmental Engineering Domain)
 - ✓ *The Unit II Title Cleaner production may be modified as Green Production.*

- ✓ *In Unit III Pollution From major Industries, Air pollution may be included.*
 - ✓ *In Unit IV Treatment Technologies, the concept of Emission of VOCs and their treatment may be included.*
 - ✓ *In unit V Hazardous waste management, The topic incineration may be replaced by co - processing and co – incineration*
- **15CE48E AIR POLLUTION MANAGEMENT** (Environmental Engineering Domain)
 - ✓ *In Unit I Sources and Effects of Air pollutants, Indoor/ outdoor pollution and odour control measures may be included.*
 - ✓ *In Unit III Air pollution control Chemical industries may included with major industries.*
 - **15CE49E MUNICIPAL SOLID WASTE MANAGEMENT** (Environmental Engineering Domain)
 - ✓ *In Unit I Sources and Types of Municipal Solid Wastes, Debris management may be included.*
 - ✓ *In Unit II On site storage and processing, The Importance may be given for food waste segregation management*
 - **15CE50E ECOLOGICAL ENGINEERING** (Environmental Engineering Domain)
 - ✓ *In Unit III Ecological Engineering Methods, root zone treatment of waste to be deleted. Carry over of heavy metals in the food chain to be emphasized.*
 - **15CE61E HYDROLOGY** (Irrigation and Water resources Engineering Domain)
 - ✓ *A topic may introduced reduction of storm water let into the sea may be included*
 - **15CE62E GROUND WATER ENGINEERING** (Irrigation and Water resources Engineering Domain)
 - ✓ *Zoning of water areas may be incorporated*
 - **15CE63E COASTAL ZONE MANAGEMENT** (Irrigation and Water resources Engineering Domain)
 - ✓ *Case Studies of development of mangroves and sundarbuns may be introduced.*
 - **15CE64E WATER RESOURCES ENGINEERING** (Irrigation and Water resources Engineering Domain)
 - ✓ *The Topic sand dredging modeling may be introduced*

OPEN ELECTIVE COURSE:

- **15CE81E PRODUCT DESIGN AND DEVELOPMENT**
 - ✓ *Life cycle assessment of the product may be incorporated.*

15CE81E *Energy conscious building* subject title may be changed as Green Building


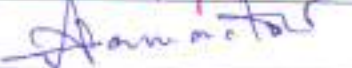







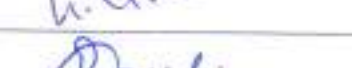


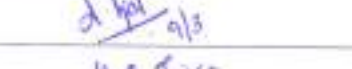
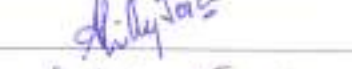



The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- a) The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.E. (Civil) degree course offered under Regulation 2015.

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

Members Present

Dr.C.Puthiyasekar	
Dr.K.Arunachalam	
Dr.G.Elangovan	
Dr.S.Selvan	
Dr.P.Venkatesan	
Er.S.Subburaj	
Dr.Kn.K.S.K.Chockalingam	 9.3.16
Dr.S.Shanmugavel	
Dr.K.Manisekar	
Ms. R.Venkada Lakshmi	
Mr.G.Petchiappan @ Balaji	
Ms.A.Kanimozhi	
Ms.A.Lilly Joice	
Mr.S.Sebastin	 9/3/16
Mr.S.Naufal Rizwan	 9/3/16
Ms.R.Vigneshwari	
Ms.J.Anu Priya	


CHAIRMAN / CIVIL BOARD

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

MINUTES – SIXTH BOARD OF STUDIES MEETING

Department of Information Technology

The 6th Board of Studies meeting for the Department of Information Technology was held on 19/03/2016 (Saturday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.D.Manimegalai, Professor & Head / IT, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | |
|--|----------------------|
| Dr.D.Manimegalai, Professor & Head / IT | - Chairman |
| Dr.P.Latha, Associate Professor / CSE
GCE, Tirunelveli | - University Nominee |
| Dr.R.Venkatasan, Professor / CSE
PSG College of Technology, Coimbatore | - Academic Expert |
| Dr.S.Baulkani, Asso. Professor / ECE
GCE, Tirunelveli | - Academic Expert |
| Mr. Roy Antony Arnold George Charles
Infosys Ltd, Chengalpet, <i>Kancheepuram</i> | - Industrial Expert |
| Mr. Rajesh Mony, Solution Architect
Fireeye Cyber Security Pvt Ltd., Bangalore | - Industrial Expert |
| Mr.V.Manikandaraman, Expert Architect
Hewlett Packard, Bangalore | - Industrial Expert |

Mr.Muthusamy Sadaiappan, Director Infospital Technologies Pvt Ltd., Chennai	- Alumni
Dr.Kn.K.S.K.Chockalingam, Director	- Special Invitee
Dr.S.Shanmugavel, Principal	- Special Invitee
Dr.K.Manisekar, Dean (Academic)	- Special Invitee
Dr.V.Seenivasagam, Prof. & COE	- Internal Member
Dr.K.G.Srinivasagan, Professor	- Internal Member
Dr.S.Sankar Ganesh, Asso. Prof.	- Internal Member
Mr.R.Muthu Kumar, Asst. Prof. (SG)	- Internal Member
Dr.M.Kaliappan, Asst. Prof. (SG)	- Internal Member
Mr.S.Chidambaram, Asst. Prof. (SG)	- Internal Member

06.01: B.Tech. (IT) – REGULATION - 2013 CURRICULUM AND SYLLABI FOR FINAL YEAR

Curriculum and Syllabi for Final year B.Tech.– Information Technology department under Regulation 2013 were presented by **Mr.R.Muthukumar, Asst.Prof. (SG)**.

06.02: B.Tech. (IT) – REGULATION - 2015 CURRICULUM AND SYLLABI FOR SECOND YEAR TO FINAL YEAR

Curriculum and Syllabi based on OBE & CBCS for second year to final year B.Tech. – Information Technology department under Regulation 2015 were presented by **Mr.R.Muthukumar, Asst.Prof. (SG)**.

Suggestions given by BoS members for R-2013

1. **Cryptography and Network Security (7th Sem)** - Recent applications and case studies may be added in fifth unit.
2. **Open Source Systems (7th Sem)** - First three units may be comprised of introduction, Different OS, OS tools, and last two units may focus on applications of Open Source Systems.
3. **Web Technology (7th Sem)** - Recent topics may be added and the entire syllabus may be revised.
4. **Software Project Management (7th Sem)** – Recent applications may be added in fifth unit
5. **Mobile Computing (8th Sem)** – First two units may also focus more on mobile computing rather than mobile communication.

Suggestions given by BoS members for R-2015

1. **Data Structures** - This can be renamed as **Data Structures and Algorithms** and algorithm concepts may be added in unit -5
2. **OOP using JAVA** - This can be renamed as **Object Oriented Programming** and Basic OOPs concepts may be included in first two units and remaining three units may focus on java
3. **OOP using JAVA Laboratory** – This can be renamed as **Object Oriented Programming Laboratory** C++ language may be used for implementing basic OOP concepts program and JAVA for remaining applications.
4. **Queuing Theory** - This can be renamed as **Applied Mathematics for Information Technology** and queuing concepts can be given in two units and Applications of IT may be added for remaining three units.(Covariance, Matrices,etc)
5. **Operating Systems** – Advanced concepts and Hardware partition may be added.
6. **DBMS Laboratory** - NoSql, ObjDB, GraphDB, RomboDB may be added
7. **Embedded Systems** – Unit 2 and 3 contents may be reduced and applications may be added. Introduction to microprocessor may be given.
8. **Internet and web technology** – Syllabus may be refined
9. **Computer Networks Laboratory** – Virtual private network exercise may be added.
10. **Enterprise Mobility** – IDE related contents may be added in unit-1.









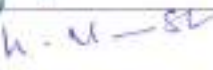
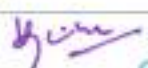



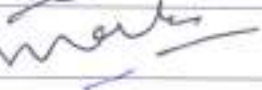

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- The Curriculum and Syllabi for Final year B.Tech. (IT) degree course offered under Regulation 2013.
- The Curriculum and Syllabi based on OBE & CBCS for second year to final year B.Tech. (IT) degree course offered under Regulation 2015.

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

Members Present

Dr.D.Manimegalai	
Dr.P.Latha	
Dr.S.Baulkani	
Mr. Rajesh Mony	
Mr.V.Manikandaraman	
Mr.Muthusamy Sadaiappan	
Dr.Kn.K.S.K.Chockalingam	
Dr.S.Shanmugavel	
Dr.K.Manisekar	
Dr.V.Seenivasagam	
Dr.K.G.Srinivasagan	
Dr.S.Sankar Ganesh	
Mr.R.Muthu Kumar	
Dr.M.Kaliappan	
Mr.S.Chidambaram	


Chairman / IT Board

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

MINUTES – THIRD BOARD OF STUDIES MEETING

Department of Science & Humanities

The 3rd Board of Studies meeting for the Department of Science and Humanities was held on 18/03/2016 (Friday) at Conference Hall of National Engineering College, K.R.Nagar, Kovilpatti.

BUSINESS BROUGHT FORWARD BY THE CHAIRMAN

Dr.M.A.Neelakantan, Professor & Head / Science & Humanities, Chairman of the Board of Studies welcomed the members for their presence. As the Chairman requested, the members introduced themselves.

BOS Members:

- | | | |
|---|---|--------------------|
| Dr.M.A.Neelakantan, Professor & Head / S & H | - | Chairman |
| Dr.M.Gunasekaran, Professor / Physics | - | University Nominee |
| Anna University, Regional Centre, Tirunelveli | | |
| Dr.R.Madhanagopal, Professor / Political Science | - | Academic Expert |
| Madurai Kamaraj University, Madurai | | |
| Dr. K.MuthuChelian, Former VC, Periyar University | - | Academic Expert |
| Chair person, School of Energy Sciences | | |
| Madurai Kamaraj University | | |
| Dr.M.Ramakrishnan, Professor / Sociology | - | Academic Expert |
| Manonmaniam Sundaranar University, Tirunelveli | | |
| Dr.Kn.K.S.K.Chockalingam, Director | - | Special Invitee |
| Dr.S.Shanmugavel, Principal | - | Special Invitee |
| Dr.K.Manisekar, Dean (Academic) | - | Special Invitee |

Dr.R.Sundararaj, Asso. Prof. / Humanities	- Internal Member
Dr.T.Sakthi, Asst. Prof. / Humanities	- Internal Member
Ms.S.D.Selvasundari, Asst.Prof. / English	- Internal Member
Ms.S.Gajalakshmi, Asst. Prof. / English	- Internal Member

03.01: TRANS-DISCIPLINARY ELECTIVE COURSES UNDER REGULATION 2013 & REGULATION 2015

Curriculum and Syllabi for Trans-disciplinary elective courses under Regulation 2013 & Regulation 2015 were presented by **Dr.R.Sundararaj, Asso. Prof.**

SUGGESTIONS

1. Indian Business Laws, Leadership and Personality Development, Indian Economy and International Trade courses has been rearranged and some topics have been eliminated.
2. Indian History, Rural Economics, International Economics, Women in Indian Society and Global challenges and issues will be refined and send by BOS external members Dr.M.Ramakrishnan and Dr.R.Madhanagopal after consulting with the staff members from Madurai Kamaraj University.
3. External Expert lectures can be arranged to discuss some of the difficult and recent topics.
4. Periodic assignments can be given for awarding internal marks.
5. As the contents of Sustainable Development and Practices are not relevant to the title, it is asked to refined.
6. BOS external members were suggested to add some recent books and also the website link for study materials.
7. They were also suggested to add the new course "Indian Constitution" instead of "Decision making in Organization" which will be useful for students preparing for Civil Service Examination.







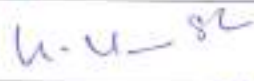

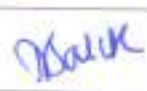
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- a) Curriculum and Syllabi for Trans-disciplinary elective courses under Regulation 2013 & Regulation 2015.

Ms.S.D.Selvasundari, Asst. Prof. thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.M.A.Neelakantan	 18.3.16
Dr.M.Gunasekaran	 18/3/16
Dr.R.Madhanagopal	 18/3/16
Dr.M.Ramakrishnan	 18/03/16
Dr.Kn.K.S.K.Chockalingam	 18.3.16
Dr.S.Shanmugavel	
Dr.K.Manisekar	 K. U. S.
Dr.R.Sundararaj	 R. S.
Dr.T.Sakthi	 Sakthi
Ms.S.D.Selvasundari	S.D. Selvasundari
Ms.S.Gajalakshmi	S. Gajalakshmi


Chairman / S & H Board