

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES of 10th Meeting of the Board of studies held on
16th November, 2018 @ 10.30 AM

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

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

Department of Mechanical Engineering

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

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

www.nec.edu.in

10th Board of studies Meeting in the Department of
Mechanical Engineering

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

Date & Time: 16.11.2018 & 10.30 a.m.

Agenda

BoS / MECH 10.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Mechanical Engineering
BoS / MECH 10.2	:	Confirmation of the Minutes of the 9 th meeting of Board of studies in the department of Mechanical Engineering held on May 10, 2018 and Action taken report of 9 th meeting of Board of studies
BoS / MECH 10.3	:	Business brought forward by the Chairman, Board of studies 10.3.1. First year syllabus of B.E. Mechanical Engineering under Regulation 2019 10.3.2. Syllabus of "Engineering Mechanics" course of B.E. Civil Engineering under Regulation 2019 10.3.3. Curriculum of M.E. Energy Engineering under Regulation 2019
BoS / MECH 10.4	:	Suggestions given by the BOS Members
BoS / MECH 10.5	:	Any other items

Department of Mechanical Engineering

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

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

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F. No. 1-1/NEC/ MECH

16th November, 2018

Dear Sir/Madam,

Sub: Minutes of the 10th Meeting of the Board of studies in the Mechanical Engineering - Reg.

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 16th November 2018 at 10.30 a.m. in Conference hall, National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely



(Dr.K.Kalidasa Murugavel)

Department of Mechanical Engineering

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Mechanical Engineering was held on 16th November 2018 at 10.30 a.m. in the Conference Hall, National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

1.	Dr.K.Kalidasa Murgavel, Prof & Head	Chairman
2.	Dr. D.Ravindran, Professor	Internal Members
3.	Dr.K.Manisekar, Professor	
4.	Dr.H.Kanagasabapathy, Professor	
5.	Dr.T.Vigraman, Asso. Prof. (SG)	
6.	Dr.S.Iyah Raja, Asso. Prof.	
7.	Mr.P.Ramanan, Asst. Prof. (SG)	
8.	Mr.F.Michael Thomas Rex, Asst. Prof. (SG)	
9.	Dr. R. Velraj, Professor Institute for Energy Studies, CEG Anna University, Chennai	Academic Experts
10.	Dr. Ing. M. Duraiselvam Professor Dept. of Production Engineering, National Institute of Technology, Trichy	
11.	Dr. K. Murugan Scientist -E, Centre for Sol-Gel Coatings, ARCI, Hyderabad – 500 005, Telangana	Meritorious Alumnus
12.	Dr. A.Arockiarajan Professor Department of Applied Mechanics Indian Institute of Technology, Chennai	Special Invitees

13.	Dr. S.Rajendra Boopathy Professor Dept. of Mechanical Engineering Anna University, Chennai	
14.	Mr. T. Hariharan, Third Year	Student Members
15.	Mr. K. Ganesh Kumar, Third year	

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

1.	Dr.R. Arularasan, Assistant Professor (SG), Department of Mechanical Engineering, University college of Engineering, Arni, Chennai	University Nominee
2.	Dr. S.Venugopal Former Director, Materials Group, IGCAR Visiting Professor, Indian Institute of Technology - Madras Chennai	Industrial Experts
3.	Mr. Raju Sreeram N. D Managing Director, Vijaya Lakshmi Mills Pvt. Ltd, Rajapalayam	
4.	Mr. S. Suresh Vice President and Business Head (EM) Wheels India Limited, Padi, Chennai	
5.	Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai	Industrial Expert related to Placement

BoS / MECH 10.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF MECHANICAL ENGINEERING
		The Chairman, BOS of the Mechanical Engineering welcomed and introduced the members of 10 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / MECH 10.2	:	TO CONFIRM THE MINUTES OF NINTH BOS MEETING HELD ON 10 th MAY, 2018
		The minutes of the Ninth Board of Studies meeting held on 10 th May, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure D</i>)
BoS / MECH 10.3.1	:	TO CONFIRM AND APPROVE the First year syllabus of B.E. Mechanical Engineering under Regulation 2019
		➤ RESOLVED TO APPROVE the First year syllabus of B.E. Mechanical Engineering under Regulation 2019
BoS / MECH 10.3.2	:	TO CONFIRM AND APPROVE the syllabus of course "Engineering Mechanics" of B.E. Civil Engineering under Regulation 2019
		➤ RESOLVED TO APPROVE the syllabus of course "Engineering Mechanics" of B.E. Civil Engineering under Regulation 2019
BoS / MECH 10.3.3	:	TO CONFIRM AND APPROVE the curriculum of M.E. Energy Engineering under Regulation 2019
		➤ RESOLVED TO APPROVE the curriculum of M.E. Energy Engineering under Regulation 2019
BoS / MECH 10.4	:	Suggestions Given by the Members

10.4.1	:	Application of Engineering Graphics course has to be included based on the engineering discipline
10.4.2	:	Various laws of friction have to be included in the Engineering Mechanics course
10.4.3	:	Demonstration of welding processes, Injection moulding, CNC machining and 3D printing have to be included in the course Engineering Practices Laboratory
10.4.4	:	The Engineering Mechanics syllabus of the Civil Engineering Programme has to be rearranged to give more importance to properties of surfaces and solids.








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



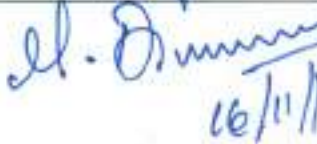





Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- The first year syllabus of B.E. Mechanical Engineering under Regulation 2019.
- The syllabus of "Engineering Mechanics" course of B.E. Civil Engineering under Regulation 2019.
- The curriculum of M.E. Energy Engineering under Regulation 2019

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

Members Present

Dr.K.Kalidasa Murugavel Professor & Head	
<i>Internal Members</i>	
Dr. D.Ravindran, Professor	
Dr.K.Manisekar, Professor	
Dr.H.Kanagasabapathy, Professor	
Dr.T.Vigraman, Asso. Professor (S.G)	
Dr.S.Iyahraja, Asso. Professor	
Mr.P.Ramanan, Assistant Professor (S.G)	

Mr. F. Michael Thomas Rex, Assistant Professor (S.G)	
Academic Expert	
Dr. R. Velraj Professor & Director , Institute for Energy Studies, CEG, AnnaUniversity, Chennai-600025	 16/11/18
Dr. Ing. M. Duraiselvam Professor & Head Department of Production Engineering, National Institute of Technology, Trichy	 16/11/18
Alumni Nominated by the Principal	
Dr. K. Murugan Scientist -E, Centre for Sol-Gel Coatings, ARCI Hyderabad - 500 005, Telangana	 16/11/18
Special Invitees	
Dr. A. Arockiarajan Professor, Department of Applied Mechanics, IIT Madras, Chennai - 600 036.	
Dr. S.Rajendra Boopathy Professor, Department of Mechanical Engineering College of Engineering, Guindy Anna University, Chennai	 16/11/18
Student Members Nominated by the HOD	
Mr. T. Hariharan, Third Year	
Mr. K. Ganesh Kumar, Third year	


CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 9th BoS Meeting

As per BOS Committee suggestion,

1. Metallurgy course is included in the curriculum to meet the need of mechanical engineering field
2. Environmental engineering course title has been modified as Safety, Health and Environmental Engineering
3. Specific courses are incorporated in the curriculum to impart management skills expected by industry



**CHAIRMAN
BOARD OF STUDIES**

Department of Electronics and Communication Engineering

MINUTES 10th Meeting of the Board of studies held on
10th November, 2018 at 11.00 AM

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

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Department of Electronics and Communication Engineering

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10th Board of studies Meeting in the Department of
Electronics and Communication Engineering

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

Date & Time: 10.11.2018 & 11.00 a.m.

AGENDA

ECE/BoS 10.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electronics and Communication Engineering
ECE /BoS 10.2	:	Confirmation of the Minutes of the 9 th meeting of Board of studies in the department of Electronics and Communication Engineering held on April 21, 2018 and action taken report of 9 th meeting of Board of studies
ECE /BoS 10.3	:	Business brought forward by the Chairman, Board of studies 10.3.1. First Year Syllabus under R-2019 10.3.2. Online course recommended for credit transfer through MOOC (NPTEL / SWAYAM Platform) department wise.
ECE/BoS 10.4	:	Any other items 10.4.1. Curriculum (PG) under R-2019
ECE /BoS 10.5	:	Suggestions given by the BoS Members

Department of Electronics and Communication Engineering

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

F. No. 1-1/NEC/Branch/ECE

12th November, 2018

Dear Sir/Madam,

Sub: *Minutes of the 10th Meeting of the Board of studies in Electronics and Communication Engineering - Reg.*

Kindly find attached herewith the minutes of the 10th Meeting of Board of studies of the Electronics and Communication Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 10th November, 2018 at 11.00 AM in the conference hall of National Engineering college. Hard copy of the minutes is also being sent to you by speed post.

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

Thanking You.

Yours Sincerely


(Dr. A. Shenbagavalli)

Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Electronics and Communication Engineering was held on 10th November, 2018 at 11.00 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

1. The following members were present:

1	Dr.A.Shenbagavalli Professor & Head	Chairman
2	Dr.V.Vijayarangan, Professor	Internal Members
3	Dr.S.Tamilselvi, Prof & Head(PG)	
4	Mr.N.Arumugam, Asso.Prof.	
5	Mr.V.R.S.Mani, Asso. Prof.	
6	Mrs.S.D.Jeyavathi, Asso. Prof	
7	Mr.T.Vijayanandh, Asst. Prof. (SG)	
8	Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
9	Mr. A.Saravana Selvan, Asst. Prof. (SG)	
10	Mr.S.Cammillus, Asst. Prof. (SG)	
11	Dr.T.S.Arun Samuel, Asso. Prof.	
12	Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
13	Dr.A.Panimaya Valan Rakkini, Asst. Prof./ Physics	
14	Dr.S.Thalamuthu, Asst. Prof. (SG) / Chemistry	
15	Mrs.S.Geetha, Asst. Prof. (SG) / Mathematics	
16	Dr.M.Ganesh Madhan, Professor / Dept. of ECE Madras Institute of Technology campus, Anna University, Chennai	Academic Expert
17	Dr.M.Meenakshi, Professor,	

	Department of Electronics and Communication Engineering, College of Engineering, Guindy Campus, Chennai.	
18	Mr.R.Ravishankar, Associate Vice President, K7 Computing, Chennai.	Industrial Expert
19	Mr.Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran, Bangalore.	
20	Ms. B.Sumathy, 3 rd year ECE A	Student Members
21	Mr.M.Vigneshwaran, 3 rd year ECE B	

2. The University nominee Dr. Rahilal Bilal, Associate Professor / Dept. of ECE Thanthai Periyar Government Institute of Technology, Vellore and Industrial Expert member Mr.C.Karthick, Project Manager, Microsemi India Private Limited, Hyderabad could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS/ECE 10.1 : WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Chairman, BoS of the Electronics and Communication Engineering welcomed and introduced the members of 10th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/ECE 10.2 : TO CONFIRM THE MINUTES OF NINTH BOS MEETING HELD ON 21st APRIL, 2018

The minutes of the **Ninth Board of Studies meeting** held on 21st April, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9th Academic council.

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

BoS/ECE10.3.1 : **TO CONFIRM AND APPROVE** THE FIRST YEAR SYLLABUS TO BE OFFERED UNDER R-2019

RESOLVED TO approve the First Year Syllabus to be offered under R-2019

➤ R-2019 Curriculum for UG (First Year)

(Enclosed in ***Annexure II***)

BoS/ECE10.3.2 : **TO CONFIRM AND APPROVE** THE ONLINE COURSES RECOMMENDED FOR CREDIT TRANSFER THROUGH MOOC (NPTEL / SWAYAM PLATFORM) DEPARTMENT WISE TO BE OFFERED UNDER R-2015

RESOLVED TO approve the Online courses recommended for credit transfer through MOOC (NPTEL / SWAYAM Platform) department wise to be offered under R-2015

BoS/ECE 10.4 : **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS**

BoS/ECE10.4.1 : **TO CONFIRM AND APPROVE** THE CURRICULAM (PG) UNDER REGULATION 2019

RESSOLVE TO approve the curriculum (PG) under Regulation 2019

➤ R-2019 Curriculum for PG

(Enclosed in ***Annexure III***)

BoS/ECE 10.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

10.5.1 : The BoS members reviewed the proposed syllabus of first year under R-2019 for Undergraduate Electronics and Communication Engineering Program based on the AICTE model curriculum (Jan 2018)

10.5.2 : Basic Electrical Engineering course content may be reduced, since the content of the syllabus is vast.

10.5.3 : Physics – II (Introduction to Electromagnetic Theory) course content may be reduced and the credit for the course may be modified.

10.5.4 : Second semester Communication Skill Laboratory may be shifted to fourth semester.

10.5.5 : The following elective course may be included for B.E ECE Program - Regulation 2015 in the department.

S.NO	COURSE NAME	CREDIT	THEORY/ LABORATORY
1	Consumer Electronics	3	Theory
2	3D Imaging And Image Set Retrieval	3	Theory
3	Network Troubleshooting and Traffic Analysis using Wireshark	1	Lab
4	Secure Network System with SNORT	1	Lab
5	Principles Of Operating System	3	Theory
6	Introduction to Machine Learning with Python	1	Theory
7	System Verilog	1	Theory
8	VHDL	1	Theory
9	Advanced Wireless Communication	3	Theory
10	OFDM System Design Using SDR	1	Lab
11	Wireless Communication System Design Using SDR	1	Lab


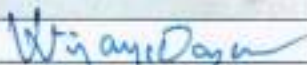



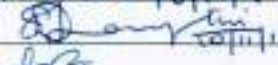




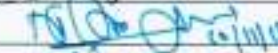

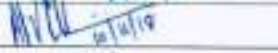

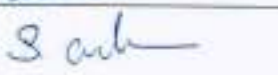
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum.

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

- ❖ First Year Syllabus under Regulation-2019
- ❖ Online course recommended for credit transfer through MOOC (NPTEL / SWAYAM Platform) department wise.

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

Members Present

Dr.A.Shenbagavalli Professor & Head Chairman	
Internal Members	
Dr.V.Vijayarangan, Professor	
Dr.S.Tamilselvi, Prof & Head(PG)	
Mr.N.Arumugam, Asso.Prof.	
Dr.V.R.S.Mani, Asso. Prof.	
Mrs.S.D.Jayavathi, Asso. Prof	
Mr.T.Vijayanandh, Asst. Prof. (SG)	
Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
Mr. A.Saravana Selvan, Asst. Prof. (SG)	
Mr.S.Cammillus, Asst. Prof. (SG)	
Dr.T.S.Arun Samuel, Asso. Prof.	
Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
Dr. A. Panimaya Valan Rakkini, Asst.Prof./ Physics	
Dr. S. Thalamuthu , Asst. Prof. (SG) / Chemistry	
Mrs.S.Geetha , Asst. Prof. (SG)/ Mathematics	

<i>Academic Experts</i>	
Dr.M.Ganesh Madhan, Professor, Department of ECE, Madras Institute of Technology campus, Anna University, Chennai - 600044	M. Gan
Dr.M.Meenakshi, Professor, Department of Electronics and Communication Engineering, College of Engineering, Guindy Campus, Chennai - 600025	M. Meenakshi
<i>Special Invites / Industrial Experts</i>	
Mr. R Ravishankar, Associate Vice President, K7 Computing, Chennai.	R. Ravishankar
Mr. Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran, Bangalore.	E. Neelakandan
<i>Student Members Nominated by the HOD</i>	
Ms. B.Sumathy, 3 rd year ECE A	B. Sumathy
Mr.M.Vigneshwaran, 3 rd year ECE B	M. Vigneshwaran


 CHAIRMAN
 BOARD OF STUDIES

Annexure - I

Minutes of 9th BoS Meeting - Action Taken Report

S. No	Suggestion given by expert members	Action taken
1.	Workshop/Manufacturing practices course may be moved to semester I	Implemented
2.	The BoS members resolved to modify the course titled "Programming for Problem Solving" as "C-Programming"	Implemented
3.	Basic Electrical Engineering course may be shifted from I semester to II semester	For discussion
4.	VLSI Design and VLSI Design Laboratory courses may be included in curriculum as Core courses	Implemented
5.	Basic Electrical Engineering course content may be reduced and the credit for the course may be changed to 3	Implemented
6	The BoS members resolved to modify the course titled "Mini Project/ Electronic Design Workshop" as "Product Development Lab"	Implemented
7.	Introduction to Electromagnetic theory can be introduced as one of basic science course during the second semester in place of physics - II	Implemented
8.	The following courses are suggested as elective courses for M.E Embedded System Technologies <ul style="list-style-type: none">▪ VLSI Signal Processing▪ Multimedia Compression Techniques▪ Cognitive Radio Techniques▪ Wireless Sensor Networks▪ FPGA Based Communication System Design▪ LTE for Mobile Broadband▪ Design and Deployment of Wireless Sensor Network	Implemented

Department of Computer Science and Engineering

MINUTES of 10th Meeting of the Board of studies held on
17th November, 2018 at 11.00 AM

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

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Department of Computer Science and Engineering

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

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10th Board of studies Meeting in the Department of
Computer Science and Engineering

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

Date & Time: 17.11.2018 & 11.00 AM

Agenda

- BoS / CSE 10.1 : Welcome address and Opening Remarks by
Chairman, Board of studies in the department of
Computer Science and Engineering
- BoS / CSE 10.2 : Confirmation of the Minutes of the 9th meeting of
Board of studies in the department of Computer
Science and Engineering held on April 21st, 2018
and Action taken report of 9th meeting of Board of
studies
- BoS / CSE 10.3 : Business brought forward by the Chairman,
Board of studies
- 10.3.1. The Curriculum for B.E. (CSE) degree
course offered under Regulation 2019
- 10.3.2. The Curriculum for M.E. (CSE) degree
course offered under Regulation 2019
- BoS / CSE 10.4 : Any other items
- BoS / CSE 10.5 : Suggestions given by the BoS Members

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

F. No. 1-1/NEC/CSE

17th November, 2018

Dear Sir,

Sub: Minutes of the 10th Meeting of the Board of studies in the Computer Science and Engineering -Reg.

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Computer Science and Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 17th November 2018 at 11.00 AM in the conference Hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely



Dr.V.Gomathi

Department of Computer Science and Engineering

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

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

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MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Computer Science and Engineering was held on 17th November, 2018 at 11.00 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

1.	Dr.V.GOMATHI Professor & Head	Chairman
2.	Dr.K.G.Srinivasagan, Professor	Internal Members
3.	Dr.V.Kalaivani, Professor	
4.	Dr.K.Mohaideen Pitchai, Associate Professor (SG)	
5.	Dr.S.Anantha Kumaran, Associate Professor	
6.	Dr.V.Kavidha, Associate Professor	
7.	Dr.S.Maheswari, Associate Professor	
8.	Ms.M.Bhuvaneswari, Assistant Professor (SG)	
9.	Ms.J.Naskath, Assistant Professor (SG)	
10.	Ms.M.Jayalakshmi, Assistant Professor (SG)	
11.	Ms.R.Rajakumari, Assistant Professor (SG)	
12.	Mr.K.Maharajan, Assistant Professor (SG)	
13.	Mr. D.Vijayakumar, Assistant Professor (SG)	
14.	Ms.S.Kalaiselvi, Assistant Professor (SG)	
15.	Ms.G.Sivakama Sundari, Assistant Professor (SG)	
16.	Ms.G.R.Hemalakshmi, Assistant Professor (SG)	
17.	Mr.V.Sivakumar, Assistant Professor	
18.	Dr. S. Valli, Professor, Dept of Computer Science and Engineering, Anna University, Chennai	Academic Expert
19.	Dr.G.Kousalya , Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore, Tamilnadu,	Academic Expert
20.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd.	Industrial Expert

	Chennai.	
21.	Mr.Manikanda Raman Viswanathan, Cognizant Tech Pvt Ltd, CRC Campus,Taramani,Chennai.	Industrial Expert
22.	Ms. Janofer ibrahima.J , III year CSE	Student Members
23.	Mr. Vigneshwaran.R, III year CSE	Nominated by the HOD

2. Dr.K.A. Abdul Nazeer, Professor, Department of CSE, National Institute of Technology,Calicut and the Expert Members Mr.Lawrence Mohanraj, Country Lead - Academic Initiative,IBM Pvt Limited ,Chennai and the Alumni member Mrs. Maria Justin Mary, IT Lead-Remedy Application Honeywell Technology Solutions Madurai could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS / CSE 10.1 : WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Chairman, BoS of the Computer Science and Engineering welcomed and introduced the members of 10th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CSE 10.2 : TO CONFIRM THE MINUTES OF NINTH BOS MEETING HELD ON 21ST APRIL, 2018

The minutes of the **Ninth Board of Studies meeting** held on 21st April, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9th Academic council.

➤ **Action Taken Report**

(Enclosed in Annexure I)

BoS/CSE 10.3.1 : TO CONFIRM AND APPROVE THE CURRICULUM FOR THE UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019 RESOLVED TO approve the Curriculum for the UG degree programme to be offered under R-2019

➤ **R-2019 Curriculum for B.E.(CSE)**

(Enclosed in Annexure II)

BoS / CSE 10.3.2 : **TO CONFIRM AND APPROVE THE CURRICULUM FOR THE PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019 RESOLVED TO** approve the Curriculum for the UG degree programme to be offered under R-2019

> R-2019 Curriculum for M.E.(CSE)

(Enclosed in Annexure III)

BoS / CSE 10.4 : **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS**

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

BoS / CSE 10.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

- 10.5.1 : Programming for Engineers course may be renamed as Programming for Problem Solving.
- 10.5.2 : Python Programming should be offered in 2nd semester.
- 10.5.3 : OOPs with C++ course may be taught in the Third Semester.
- 10.5.4 : Advanced Java programming may be offered as Elective.
- 10.5.5 : Practical session should be included to Principles of Compiler Design and Object Oriented Analysis and Design course.
- 10.5.6 : Network Management course may be renamed as Network Engineering and Management.
- 10.5.7 : Block Chain lab course may be included.
- 10.5.8 : Agile and Devops are to be combined as single subjects as Software Design Architecture.
- 10.5.9 : Angular JS may be included as a separate one credit course.
- 10.5.10 : In the M.E CSE Curriculum, Fuzzy, Machine Learning and soft computing should not be overlapped in a single course.
- 10.5.11 : In the M.E CSE Curriculum, Mobile Application Development Lab course may be added.
- 10.5.12 : In the M.E CSE Curriculum, DBMS and Operating System subjects may be added.
- 10.5.13 : Elective courses may be grouped as E-I, E-II etc.

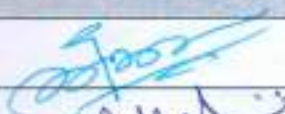
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- The Curriculum for B.E. (Computer Science and Engineering) degree course offered under Regulation 2019.
- The Curriculum for M.E. (Computer Science and Engineering) degree course offered under Regulation 2019.

Ms.R.Rajakumari, Assistant Professor(SG), thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.V.Gomathi Chairman	V.L. →
<i>Internal Members</i>	
Dr.K.G.Srinivasagan Professor	
Dr.V.Kalaivani Professor	V. Kalaivani
Dr.K.Mohaideen Pitchai Associate Professor (SG)	K. Mohaideen Pitchai
Dr.S.Ananthakumaran Associate Professor	S. Ananthakumaran
Dr.V.Kavidha Associate Professor	V. Kavidha
Dr.S.Maheswari Associate Professor	S. Maheswari
Ms.M.Bhuvaneshwari Assistant Professor (SG)	M. Bhuvaneshwari
Ms.J.Naskath Assistant Professor (SG)	J. Naskath
Ms.M.Jayalakshmi Assistant Professor (SG)	M. Jayalakshmi
Ms.R.Rajakumari Assistant Professor (SG)	R. Rajakumari
Mr.K.Maharajan Assistant Professor (SG)	K. Maharajan
Mr. D.Vijayakumar Assistant Professor (SG)	D. Vijayakumar
Ms.S.Kalaiselvi Assistant Professor (SG)	S. Kalaiselvi
Ms.G.Sivakama Sundari Assistant Professor (SG)	G. Sivakama Sundari
Ms.G.R.Hemalakshmi Assistant Professor (SG)	G. R. Hemalakshmi

Mr. V. Sivakumar Assistant Professor	V.P
<i>Academic Expert</i>	
Dr. G. Kousalya , Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore, Tamilnadu, India - 641 014.	GMV 17/11/2018
<i>Academic Expert</i>	
Dr. S. Valli, Professor, Dept of Computer Science and Engineering, Anna University, Chennai.	Valli
<i>Industrial Experts</i>	
Mr. Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd., Chennai.	V. A. R. 17/11/18
<i>Alumni Nominated by the Principal</i>	
Mr. Manikanda Raman Viswanathan, Cognizant Tech Pvt Ltd, CRC Campus, Taramani, Chennai.	V. M. R. Reddy 12/11
<i>Student Members Nominated by the HOD</i>	
Ms. JANOFER IBRAHIMA.J , III year CSE	J. Janofer Ibrahima 17/11/18
Mr. VIGNESHWARAN.R, III year CSE	R. vignesh .

V.L
17/11/18
CHAIRMAN
BOARD OF STUDIES

Annexure I

Actions Taken Report for Minutes of 9th BoS Meeting

As per BoS Committee Suggestions,

- Comprehensive course is added in the Sixth Semester.
- Problem solving techniques is included in the Programming for Engineers course.
- Embedded Programming course is offered in the Fifth semester.
- Infrastructure Programming and Software Management related courses are offered in the elective courses.
- Research related online one credit courses and Elective courses are offered.

V.L. a.
17/11/18
CHAIRMAN
BOARD OF STUDIES

V.L. a.
17/11/18
CHAIRMAN
BOARD OF STUDIES

17/11/2018

for
11

boaching
17/11/18

Department of Electrical and Electronics Engineering

MINUTES 10th Meeting of the Board of studies held on
10th November, 2018 at 10.30 AM

Venue: Research Simulation Lab, Department of EEE
National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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

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

www.nec.edu.in

Department of Electrical and Electronics Engineering

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

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

www.nec.edu.in

10th Board of studies Meeting in the Department of Electrical and Electronics Engineering

Venue: Research Simulation Lab, Department of EEE, National Engineering
College, K.R.Nagar, Kovilpatti – 628 503

Date & Time: 10.11.2018 & 10.30 AM

AGENDA

BoS / EEE 10.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electrical and Electronics Engineering
BoS / EEE 10.2	:	Confirmation of the Minutes of the 9 th meeting of Board of studies in the department of Electrical and Electronics Engineering held on April 27 th 2018, and Action taken report of 9 th meeting of Board of studies
BoS / EEE 10.3	:	Business brought forward by the Chairman, Board of studies 10.3.1 First year syllabus (UG) under Regulation 2019 10.3.2 Curriculum and Syllabus (PG) under Regulation 2019 10.3.3 Change in Question Pattern (UG) under Regulation 2015 10.3.4 Online courses recommended for credit transfer through MOOC (NPTEL / Swayam platform)
BoS / EEE 10.4	:	Any other items
BoS / EEE 10.5	:	Suggestions given by the BoS Members

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

F. No. 1-1/NEC/EEE.

10th November, 2018

Dear Sir/Madam,

Sub: Minutes of the 10th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 10th November, 2018 at 10.30 AM in the Research Simulation Lab, Department of EEE of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely

M. Willjuice Iruthayarajan
Dr.M.Willjuice Iruthayarajan

Department of Electrical and Electronics Engineering

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 10th November, 2018 at 10.30 AM in the Research Simulation Lab, Department of EEE of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

1. The following members were present:

1.	Dr.M.Willjuice Iruthayarajan Professor and Head/ EEE	Chairman
2.	Dr.L.Kalaivani Professor/ EEE	Internal Members
3.	Dr.R.V.Maheswari Professor/ EEE	
4.	Dr.M.Ravindran Associate Professor (S.G) / EEE	
5.	Dr.N.B.Prakash Associate Professor/ EEE	
6.	Dr.G.Kannayeranf Assistant Professor(S.G) / EEE	
7.	Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	Academic Expert
8.	Dr. M. Saravanan Professor/EEE, Thiagarajar College of Engineering, Madurai.	
9.	Dr. V. Sankaranarayanan Associate Professor/EEE, National Institute Technology, Trichy	University Nominee
10.	Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli.	
11.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	Industrial Expert
12.	Mr. M. Ramesh Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	

13.	Dr.G.Venkatesan Professor/EEE, Karpagam College of Engineering, Coimbatore	Meritorious Alumnus
14.	Mr.K.Shunmuga Sundaram, Pre-Final Year / EEE	Student Members
15.	Ms.M.Vavuniya, Pre-Final Year / EEE	

2. The Industrial Expert Dr. Hariram Satheesh, Principal Scientist, ABB Global Industries and Services Ltd., Bangalore, Mr.S.Subramanian, Senior Maintenance Engineering(I), Kudankulam Nuclear Power project, Kudankulam and Mr. R.Jayakumar, Delivery Manager, Ford Motor Company, Chennai could not attend the meeting due to his prior commitments and unavoidable reasons and were granted leave of absence.

BoS / EEE 10.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
	:	The Chairman, BOS of the Electrical and Electronics Engineering welcomed and introduced the members of 10 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / EEE 10.2	:	TO CONFIRM THE MINUTES OF EIGHTH BOS MEETING HELD ON 27 th APRIL, 2018
	:	The minutes of the Ninth Board of Studies meeting held on 27 th April, 2018 were communicated to the members vide letter No. F. No. 1-1/NEC/EEE, Dated 27.04.2018. The comments received have been incorporated and placed for confirmation. The same was approved by the 9 th Academic council. <ul style="list-style-type: none"> ➤ Minutes of 09th Board of Studies ➤ Action Taken Report (pdf file attached in hyperlink)
BoS / EEE 10.3.1	:	TO CONFIRM AND APPROVE THE FIRST YEAR SYLLABUS (UG) UNDER REGULATION 2019
	:	RESOLVED TO approve the First year syllabus (UG) under Regulation 2019

BoS / EEE 10.3.2 : TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABUS (PG) UNDER REGULATION 2019

RESOLVED TO approve the Curriculum and syllabus (PG) under Regulation 2019

R-2019 Cuirriculum and Syllabus for PG

BoS / EEE 10.3.3 : TO CONFIRM AND APPROVE THE CHANGE IN QUESTION PATTERN IN UG UNDER REGULATION 2015

RESOLVED TO approve the change in question pattern for the courses "15EE17E Logic and Distributed Control System" and "15EE07E Solar Photovoltaic Fundamentals and Applications" as B and E respectively instead of C and B.

BoS / EEE 10.3.4 : TO CONFIRM AND APPROVE THE ONLINE COURSES FOR CREDIT TRANSFER (UG) UNDER REGULATION 2015

RESOLVED TO approve the online courses for credit transfer.

List of Online Courses

BoS / EEE 10.4 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

The BOS members had a good interaction with chairman, internal members and student members regarding syllabus formation for R-2019. They requested to include student representatives from PG for BOS meeting. They also insisted to include student feedback about curriculum and syllabus during forthcoming meeting, the student members also actively participated and shared their views for syllabus formation.

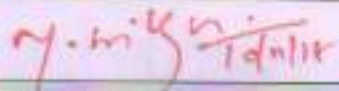


The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

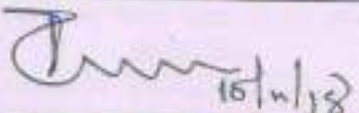


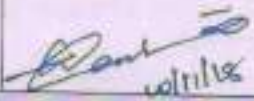
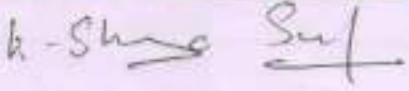
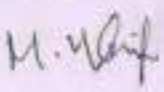
Based on the suggestions given by the members, BoS resolved to recommend the following to the Academic Council for further approval.

- First year syllabus (UG) under Regulation 2019
- Online courses recommended for credit transfer through MOOC (NPTEL / Swayam platform)
- Curriculum and syllabus (PG) under Regulation 2019

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

Members Present


Dr.M.Willjuice Iruthayarajan, Chairman,BoS/EEE	
<i>Internal Members</i>	
Dr.L.Kalaivani Professor/ EEE	
Dr.R.V.Maheswari Professor/ EEE	R. V. Maheswari
Dr.M.Ravindran Associate Professor (S.G) / EEE	M. Ravindran
Dr.N.B.Prakash Associate Professor/ EEE	Prakash
Dr.G.Kannayeram Assistant Professor(S.G) / EEE	G. Kannayeram 10/11/18
Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	M. P. E. Rajamani 10/11/18
<i>Academic Experts</i>	
Dr. M. Saravanan, Professor/EEE, Thiagarajar College of Engineering, Madurai, Tamilnadu.	M. Saravanan 10/11/18
Dr. V. Sankaranarayanan, Associate Professor/EEE, National Institute of Technology, Trichy	

<i>University Nominees</i>	
Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli.	 16/11/18
<i>Industrial Experts</i>	
Dr. Santosh Kumar Annadurai, GE, GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	
Mr. M. Ramesh, Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	
<i>Alumni Nominated by the Principal</i>	
Dr. G. Venkatesan, Professor/EEE, Karpagam College of Engineering, Coimbatore	 16/11/18
<i>Student Members Nominated by the HOD</i>	
Mr. K. Shunmuga Sundaram, Pre-Final Year /EEE National Engineering College, Kovilpatti	
Ms. M. Vavuniya, Pre-Final Year /EEE National Engineering College, Kovilpatti	


CHAIRMAN
BOARD OF STUDIES

Action Taken on Suggestions from 9th BOS Meeting

Suggestions	Action Taken
Courses such as Workshop/Manufacturing practices and Engineering Practices may be moved to I semester	Suggestions have been carried out and given in I semester.
Applied Engineering for Electrical Engineers course can be given in II semester.	Suggestions have been carried out and given in II semester.
Mathematics can be splitted into four mathematical courses with Equal Credit Distribution instead of three as per AICTE model curriculum.	Mathematics course has been splitted into four courses with equal credits.
In the course " programming for problem solving ", the Python language may be included.	Suggestions will be incorporated in respective syllabus
For the courses, Engineering Mechanics and Biology , course content should be reduced.	
For the course, Electronic Design laboratory course content may revised.	Suggestions will be incorporated in respected syllabus and presented in upcoming BOS Meeting
High Voltage Engineering and Electric Drives and Control courses may included in Core course	High Voltage Engineering is given as core course in VI semester and Electric Drives and Control courses is given as programme elective course
Electromagnetic Interference and Electromagnetic Compatibility course may be included in Elective course.	Suggestions will be incorporated in respected syllabus and presented in upcoming BOS
Courses related to Industrial Internet of Things, Cyber Physical System may be given for Open Elective Courses.	
Power Quality course may be given as Program Elective Course.	
Software Development Life Cycle may be given as Open Elective Course.	
For M.E. High Voltage Engineering, the title for the course " Advanced Topics of High Voltage Engineering " may be modified as " Applications of High Voltage Engineering "	The subject has been modified high voltage engineering and its application is given as core subject in I semester.
For M.E. High Voltage Engineering, the topics related to, <ul style="list-style-type: none"> • Finite Difference Method, • Charge Simulation Method and • Boundary Element Method may be taught in detail to clearly understand the design concepts of electrical apparatus 	The topics have been incorporated in advanced electromagnetic field in detail


 HOD/EEE

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES of 10th Meeting of the Board of studies held on
16th November, 2018 @ 10.30 AM

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

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

Department of Mechanical Engineering

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

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

www.nec.edu.in

10th Board of studies Meeting in the Department of
Mechanical Engineering

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

Date & Time: 16.11.2018 & 10.30 a.m.

Agenda

BoS / MECH 10.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Mechanical Engineering
BoS / MECH 10.2	:	Confirmation of the Minutes of the 9 th meeting of Board of studies in the department of Mechanical Engineering held on May 10, 2018 and Action taken report of 9 th meeting of Board of studies
BoS / MECH 10.3	:	Business brought forward by the Chairman, Board of studies 10.3.1. First year syllabus of B.E. Mechanical Engineering under Regulation 2019 10.3.2. Syllabus of "Engineering Mechanics" course of B.E. Civil Engineering under Regulation 2019 10.3.3. Curriculum of M.E. Energy Engineering under Regulation 2019
BoS / MECH 10.4	:	Suggestions given by the BOS Members
BoS / MECH 10.5	:	Any other items

Department of Mechanical Engineering

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

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

www.nec.edu.in

F. No. 1-1/NEC/ MECH

16th November, 2018

Dear Sir/Madam,

Sub: Minutes of the 10th Meeting of the Board of studies in the Mechanical Engineering - Reg.

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 16th November 2018 at 10.30 a.m. in Conference hall, National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely



(Dr.K.Kalidasa Murugavel)

Department of Mechanical Engineering

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Mechanical Engineering was held on 16th November 2018 at 10.30 a.m. in the Conference Hall, National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

1.	Dr.K.Kalidasa Murgavel, Prof & Head	Chairman
2.	Dr. D.Ravindran, Professor	Internal Members
3.	Dr.K.Manisekar, Professor	
4.	Dr.H.Kanagasabapathy, Professor	
5.	Dr.T.Vigraman, Asso. Prof. (SG)	
6.	Dr.S.Iyah Raja, Asso. Prof.	
7.	Mr.P.Ramanan, Asst. Prof. (SG)	
8.	Mr.F.Michael Thomas Rex, Asst. Prof. (SG)	
9.	Dr. R. Velraj, Professor Institute for Energy Studies, CEG Anna University, Chennai	Academic Experts
10.	Dr. Ing. M. Duraiselvam Professor Dept. of Production Engineering, National Institute of Technology, Trichy	
11.	Dr. K. Murugan Scientist -E, Centre for Sol-Gel Coatings, ARCI, Hyderabad – 500 005, Telangana	Meritorious Alumnus
12.	Dr. A.Arockiarajan Professor Department of Applied Mechanics Indian Institute of Technology, Chennai	Special Invitees

13.	Dr. S.Rajendra Boopathy Professor Dept. of Mechanical Engineering Anna University, Chennai	
14.	Mr. T. Hariharan, Third Year	Student Members
15.	Mr. K. Ganesh Kumar, Third year	

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

1.	Dr.R. Arularasan, Assistant Professor (SG), Department of Mechanical Engineering, University college of Engineering, Arni, Chennai	University Nominee
2.	Dr. S.Venugopal Former Director, Materials Group, IGCAR Visiting Professor, Indian Institute of Technology - Madras Chennai	Industrial Experts
3.	Mr. Raju Sreeram N. D Managing Director, Vijaya Lakshmi Mills Pvt. Ltd, Rajapalayam	
4.	Mr. S. Suresh Vice President and Business Head (EM) Wheels India Limited, Padi, Chennai	
5.	Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai	Industrial Expert related to Placement

BoS / MECH 10.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF MECHANICAL ENGINEERING
		The Chairman, BOS of the Mechanical Engineering welcomed and introduced the members of 10 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / MECH 10.2	:	TO CONFIRM THE MINUTES OF NINTH BOS MEETING HELD ON 10 th MAY, 2018
		The minutes of the Ninth Board of Studies meeting held on 10 th May, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure D</i>)
BoS / MECH 10.3.1	:	TO CONFIRM AND APPROVE the First year syllabus of B.E. Mechanical Engineering under Regulation 2019
		➤ RESOLVED TO APPROVE the First year syllabus of B.E. Mechanical Engineering under Regulation 2019
BoS / MECH 10.3.2	:	TO CONFIRM AND APPROVE the syllabus of course "Engineering Mechanics" of B.E. Civil Engineering under Regulation 2019
		➤ RESOLVED TO APPROVE the syllabus of course "Engineering Mechanics" of B.E. Civil Engineering under Regulation 2019
BoS / MECH 10.3.3	:	TO CONFIRM AND APPROVE the curriculum of M.E. Energy Engineering under Regulation 2019
		➤ RESOLVED TO APPROVE the curriculum of M.E. Energy Engineering under Regulation 2019
BoS / MECH 10.4	:	Suggestions Given by the Members

10.4.1	:	Application of Engineering Graphics course has to be included based on the engineering discipline
10.4.2	:	Various laws of friction have to be included in the Engineering Mechanics course
10.4.3	:	Demonstration of welding processes, Injection moulding, CNC machining and 3D printing have to be included in the course Engineering Practices Laboratory
10.4.4	:	The Engineering Mechanics syllabus of the Civil Engineering Programme has to be rearranged to give more importance to properties of surfaces and solids.








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



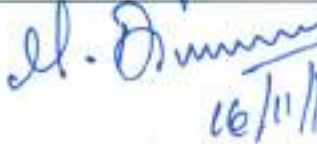





Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- The first year syllabus of B.E. Mechanical Engineering under Regulation 2019.
- The syllabus of "Engineering Mechanics" course of B.E. Civil Engineering under Regulation 2019.
- The curriculum of M.E. Energy Engineering under Regulation 2019

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

Members Present

Dr.K.Kalidasa Murugavel Professor & Head	
<i>Internal Members</i>	
Dr. D.Ravindran, Professor	
Dr.K.Manisekar, Professor	
Dr.H.Kanagasabapathy, Professor	
Dr.T.Vigraman, Asso. Professor (S.G)	
Dr.S.Iyahraja, Asso. Professor	
Mr.P.Ramanan, Assistant Professor (S.G)	

Mr. F. Michael Thomas Rex, Assistant Professor (S.G)	
Academic Expert	
Dr. R. Velraj Professor & Director , Institute for Energy Studies, CEG, AnnaUniversity, Chennai-600025	 16/11/18
Dr. Ing. M. Duraiselvam Professor & Head Department of Production Engineering, National Institute of Technology, Trichy	 16/11/18
Alumni Nominated by the Principal	
Dr. K. Murugan Scientist -E, Centre for Sol-Gel Coatings, ARCI Hyderabad - 500 005, Telangana	 16/11/18
Special Invitees	
Dr. A. Arockiarajan Professor, Department of Applied Mechanics, IIT Madras, Chennai - 600 036.	
Dr. S.Rajendra Boopathy Professor, Department of Mechanical Engineering College of Engineering, Guindy Anna University, Chennai	 16/11/18
Student Members Nominated by the HOD	
Mr. T. Hariharan, Third Year	
Mr. K. Ganesh Kumar, Third year	


CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 9th BoS Meeting

As per BOS Committee suggestion,

1. Metallurgy course is included in the curriculum to meet the need of mechanical engineering field
2. Environmental engineering course title has been modified as Safety, Health and Environmental Engineering
3. Specific courses are incorporated in the curriculum to impart management skills expected by industry



**CHAIRMAN
BOARD OF STUDIES**

Department of Electronics and Communication Engineering

MINUTES 10th Meeting of the Board of studies held on
10th November, 2018 at 11.00 AM

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

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

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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10th Board of studies Meeting in the Department of
Electronics and Communication Engineering

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

Date & Time: 10.11.2018 & 11.00 a.m.

AGENDA

ECE/BoS 10.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electronics and Communication Engineering
ECE /BoS 10.2	:	Confirmation of the Minutes of the 9 th meeting of Board of studies in the department of Electronics and Communication Engineering held on April 21, 2018 and action taken report of 9 th meeting of Board of studies
ECE /BoS 10.3	:	Business brought forward by the Chairman, Board of studies 10.3.1. First Year Syllabus under R-2019 10.3.2. Online course recommended for credit transfer through MOOC (NPTEL / SWAYAM Platform) department wise.
ECE/BoS 10.4	:	Any other items 10.4.1. Curriculum (PG) under R-2019
ECE /BoS 10.5	:	Suggestions given by the BoS Members

Department of Electronics and Communication Engineering

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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F. No. 1-1/NEC/Branch/ECE

12th November, 2018

Dear Sir/Madam,

Sub: *Minutes of the 10th Meeting of the Board of studies in Electronics and Communication Engineering - Reg.*

Kindly find attached herewith the minutes of the 10th Meeting of Board of studies of the Electronics and Communication Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 10th November, 2018 at 11.00 AM in the conference hall of National Engineering college. Hard copy of the minutes is also being sent to you by speed post.

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

Thanking You.

Yours Sincerely


(Dr. A. Shenbagavalli)

Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Electronics and Communication Engineering was held on 10th November, 2018 at 11.00 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

1. The following members were present:

1	Dr.A.Shenbagavalli Professor & Head	Chairman
2	Dr.V.Vijayarangan, Professor	Internal Members
3	Dr.S.Tamilselvi, Prof & Head(PG)	
4	Mr.N.Arumugam, Asso.Prof.	
5	Mr.V.R.S.Mani, Asso. Prof.	
6	Mrs.S.D.Jeyavathi, Asso. Prof	
7	Mr.T.Vijayanandh, Asst. Prof. (SG)	
8	Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
9	Mr. A.Saravana Selvan, Asst. Prof. (SG)	
10	Mr.S.Cammillus, Asst. Prof. (SG)	
11	Dr.T.S.Arun Samuel, Asso. Prof.	
12	Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
13	Dr.A.Panimaya Valan Rakkini, Asst. Prof./ Physics	
14	Dr.S.Thalamuthu, Asst. Prof. (SG) / Chemistry	
15	Mrs.S.Geetha, Asst. Prof. (SG) / Mathematics	
16	Dr.M.Ganesh Madhan, Professor / Dept. of ECE Madras Institute of Technology campus, Anna University, Chennai	Academic Expert
17	Dr.M.Meenakshi, Professor,	

	Department of Electronics and Communication Engineering, College of Engineering, Guindy Campus, Chennai.	
18	Mr.R.Ravishankar, Associate Vice President, K7 Computing, Chennai.	Industrial Expert
19	Mr.Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran, Bangalore.	
20	Ms. B.Sumathy, 3 rd year ECE A	Student Members
21	Mr.M.Vigneshwaran, 3 rd year ECE B	

2. The University nominee Dr. Rahilal Bilal, Associate Professor / Dept. of ECE Thanthai Periyar Government Institute of Technology, Vellore and Industrial Expert member Mr.C.Karthick, Project Manager, Microsemi India Private Limited, Hyderabad could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS/ECE 10.1 : WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Chairman, BoS of the Electronics and Communication Engineering welcomed and introduced the members of 10th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/ECE 10.2 : TO CONFIRM THE MINUTES OF NINTH BOS MEETING HELD ON 21st APRIL, 2018

The minutes of the **Ninth Board of Studies meeting** held on 21st April, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9th Academic council.

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

BoS/ECE10.3.1 : **TO CONFIRM AND APPROVE** THE FIRST YEAR SYLLABUS TO BE OFFERED UNDER R-2019

RESOLVED TO approve the First Year Syllabus to be offered under R-2019

➤ R-2019 Curriculum for UG (First Year)

(Enclosed in ***Annexure II***)

BoS/ECE10.3.2 : **TO CONFIRM AND APPROVE** THE ONLINE COURSES RECOMMENDED FOR CREDIT TRANSFER THROUGH MOOC (NPTEL / SWAYAM PLATFORM) DEPARTMENT WISE TO BE OFFERED UNDER R-2015

RESOLVED TO approve the Online courses recommended for credit transfer through MOOC (NPTEL / SWAYAM Platform) department wise to be offered under R-2015

BoS/ECE 10.4 : **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS**

BoS/ECE10.4.1 : **TO CONFIRM AND APPROVE** THE CURRICULAM (PG) UNDER REGULATION 2019

RESSOLVE TO approve the curriculum (PG) under Regulation 2019

➤ R-2019 Curriculum for PG

(Enclosed in ***Annexure III***)

BoS/ECE 10.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

10.5.1 : The BoS members reviewed the proposed syllabus of first year under R-2019 for Undergraduate Electronics and Communication Engineering Program based on the AICTE model curriculum (Jan 2018)

10.5.2 : Basic Electrical Engineering course content may be reduced, since the content of the syllabus is vast.

10.5.3 : Physics – II (Introduction to Electromagnetic Theory) course content may be reduced and the credit for the course may be modified.

10.5.4 : Second semester Communication Skill Laboratory may be shifted to fourth semester.

10.5.5 : The following elective course may be included for B.E ECE Program - Regulation 2015 in the department.

S.NO	COURSE NAME	CREDIT	THEORY/ LABORATORY
1	Consumer Electronics	3	Theory
2	3D Imaging And Image Set Retrieval	3	Theory
3	Network Troubleshooting and Traffic Analysis using Wireshark	1	Lab
4	Secure Network System with SNORT	1	Lab
5	Principles Of Operating System	3	Theory
6	Introduction to Machine Learning with Python	1	Theory
7	System Verilog	1	Theory
8	VHDL	1	Theory
9	Advanced Wireless Communication	3	Theory
10	OFDM System Design Using SDR	1	Lab
11	Wireless Communication System Design Using SDR	1	Lab


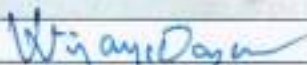



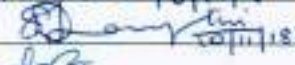




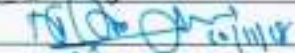
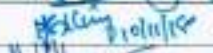

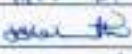
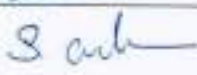
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum.

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

- ❖ First Year Syllabus under Regulation-2019
- ❖ Online course recommended for credit transfer through MOOC (NPTEL / SWAYAM Platform) department wise.

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

Members Present

Dr.A.Shenbagavalli Professor & Head Chairman	
Internal Members	
Dr.V.Vijayarangan, Professor	
Dr.S.Tamilselvi, Prof & Head(PG)	
Mr.N.Arumugam, Asso.Prof.	
Dr.V.R.S.Mani, Asso. Prof.	
Mrs.S.D.Jayavathi, Asso. Prof	
Mr.T.Vijayanandh, Asst. Prof. (SG)	
Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
Mr. A.Saravana Selvan, Asst. Prof. (SG)	
Mr.S.Cammillus, Asst. Prof. (SG)	
Dr.T.S.Arun Samuel, Asso. Prof.	
Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
Dr. A. Panimaya Valan Rakkini, Asst.Prof./ Physics	
Dr. S. Thalamuthu , Asst. Prof. (SG) / Chemistry	
Mrs.S.Geetha , Asst. Prof. (SG)/ Mathematics	

<i>Academic Experts</i>	
Dr.M.Ganesh Madhan, Professor, Department of ECE, Madras Institute of Technology campus, Anna University, Chennai - 600044	M. Gan
Dr.M.Meenakshi, Professor, Department of Electronics and Communication Engineering, College of Engineering, Guindy Campus, Chennai - 600025	M. Meenakshi
<i>Special Invites / Industrial Experts</i>	
Mr. R Ravishankar, Associate Vice President, K7 Computing, Chennai.	R. Ravishankar
Mr. Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran, Bangalore.	E. Neelakandan
<i>Student Members Nominated by the HOD</i>	
Ms. B.Sumathy, 3 rd year ECE A	B. Sumathy
Mr.M.Vigneshwaran, 3 rd year ECE B	M. Vigneshwaran


 CHAIRMAN
 BOARD OF STUDIES

Annexure - I

Minutes of 9th BoS Meeting - Action Taken Report

S. No	Suggestion given by expert members	Action taken
1.	Workshop/Manufacturing practices course may be moved to semester I	Implemented
2.	The BoS members resolved to modify the course titled "Programming for Problem Solving" as "C-Programming"	Implemented
3.	Basic Electrical Engineering course may be shifted from I semester to II semester	For discussion
4.	VLSI Design and VLSI Design Laboratory courses may be included in curriculum as Core courses	Implemented
5.	Basic Electrical Engineering course content may be reduced and the credit for the course may be changed to 3	Implemented
6	The BoS members resolved to modify the course titled "Mini Project/ Electronic Design Workshop" as "Product Development Lab"	Implemented
7.	Introduction to Electromagnetic theory can be introduced as one of basic science course during the second semester in place of physics - II	Implemented
8.	The following courses are suggested as elective courses for M.E Embedded System Technologies <ul style="list-style-type: none">▪ VLSI Signal Processing▪ Multimedia Compression Techniques▪ Cognitive Radio Techniques▪ Wireless Sensor Networks▪ FPGA Based Communication System Design▪ LTE for Mobile Broadband▪ Design and Deployment of Wireless Sensor Network	Implemented

Department of Electrical and Electronics Engineering

MINUTES 10th Meeting of the Board of studies held on
10th November, 2018 at 10.30 AM

Venue: Research Simulation Lab, Department of EEE
National Engineering College, K.R.Nagar, Kovilpatti – 628 503

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

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Department of Electrical and Electronics Engineering

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

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10th Board of studies Meeting in the Department of Electrical and Electronics Engineering

Venue: Research Simulation Lab, Department of EEE, National Engineering
College, K.R.Nagar, Kovilpatti – 628 503

Date & Time: 10.11.2018 & 10.30 AM

AGENDA

BoS / EEE 10.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electrical and Electronics Engineering
BoS / EEE 10.2	:	Confirmation of the Minutes of the 9 th meeting of Board of studies in the department of Electrical and Electronics Engineering held on April 27 th 2018, and Action taken report of 9 th meeting of Board of studies
BoS / EEE 10.3	:	Business brought forward by the Chairman, Board of studies 10.3.1 First year syllabus (UG) under Regulation 2019 10.3.2 Curriculum and Syllabus (PG) under Regulation 2019 10.3.3 Change in Question Pattern (UG) under Regulation 2015 10.3.4 Online courses recommended for credit transfer through MOOC (NPTEL / Swayam platform)
BoS / EEE 10.4	:	Any other items
BoS / EEE 10.5	:	Suggestions given by the BoS Members

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

F. No. 1-1/NEC/EEE.

10th November, 2018

Dear Sir/Madam,

Sub: Minutes of the 10th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 10th November, 2018 at 10.30 AM in the Research Simulation Lab, Department of EEE of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely

M. Willjuice Iruthayarajan
Dr.M.Willjuice Iruthayarajan

Department of Electrical and Electronics Engineering

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 10th November, 2018 at 10.30 AM in the Research Simulation Lab, Department of EEE of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

1. The following members were present:

1.	Dr.M.Willjuice Iruthayarajan Professor and Head/ EEE	Chairman
2.	Dr.L.Kalaivani Professor/ EEE	Internal Members
3.	Dr.R.V.Maheswari Professor/ EEE	
4.	Dr.M.Ravindran Associate Professor (S.G) / EEE	
5.	Dr.N.B.Prakash Associate Professor/ EEE	
6.	Dr.G.Kannayeranf Assistant Professor(S.G) / EEE	
7.	Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	Academic Expert
8.	Dr. M. Saravanan Professor/EEE, Thiagarajar College of Engineering, Madurai.	
9.	Dr. V. Sankaranarayanan Associate Professor/EEE, National Institute Technology, Trichy	University Nominee
10.	Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli.	
11.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	Industrial Expert
12.	Mr. M. Ramesh Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	

13.	Dr.G.Venkatesan Professor/EEE, Karpagam College of Engineering, Coimbatore	Meritorious Alumnus
14.	Mr.K.Shunmuga Sundaram, Pre-Final Year / EEE	Student Members
15.	Ms.M.Vavuniya, Pre-Final Year / EEE	

2. The Industrial Expert Dr. Hariram Satheesh, Principal Scientist, ABB Global Industries and Services Ltd., Bangalore, Mr.S.Subramanian, Senior Maintenance Engineering(I), Kudankulam Nuclear Power project, Kudankulam and Mr. R.Jayakumar, Delivery Manager, Ford Motor Company, Chennai could not attend the meeting due to his prior commitments and unavoidable reasons and were granted leave of absence.

BoS / EEE 10.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
		The Chairman, BOS of the Electrical and Electronics Engineering welcomed and introduced the members of 10 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / EEE 10.2	:	TO CONFIRM THE MINUTES OF EIGHTH BOS MEETING HELD ON 27 th APRIL, 2018
		The minutes of the Ninth Board of Studies meeting held on 27 th April, 2018 were communicated to the members vide letter No. F. No. 1-1/NEC/EEE, Dated 27.04.2018. The comments received have been incorporated and placed for confirmation. The same was approved by the 9 th Academic council. <ul style="list-style-type: none"> ➤ Minutes of 09th Board of Studies ➤ Action Taken Report (pdf file attached in hyperlink)
BoS / EEE 10.3.1	:	TO CONFIRM AND APPROVE THE FIRST YEAR SYLLABUS (UG) UNDER REGULATION 2019
		RESOLVED TO approve the First year syllabus (UG) under Regulation 2019

BoS / EEE 10.3.2 : TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABUS (PG) UNDER REGULATION 2019

RESOLVED TO approve the Curriculum and syllabus (PG) under Regulation 2019

R-2019 Cuirriculum and Syllabus for PG

BoS / EEE 10.3.3 : TO CONFIRM AND APPROVE THE CHANGE IN QUESTION PATTERN IN UG UNDER REGULATION 2015

RESOLVED TO approve the change in question pattern for the courses "15EE17E Logic and Distributed Control System" and "15EE07E Solar Photovoltaic Fundamentals and Applications" as B and E respectively instead of C and B.

BoS / EEE 10.3.4 : TO CONFIRM AND APPROVE THE ONLINE COURSES FOR CREDIT TRANSFER (UG) UNDER REGULATION 2015

RESOLVED TO approve the online courses for credit transfer.

List of Online Courses

BoS / EEE 10.4 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

The BOS members had a good interaction with chairman, internal members and student members regarding syllabus formation for R-2019. They requested to include student representatives from PG for BOS meeting. They also insisted to include student feedback about curriculum and syllabus during forthcoming meeting, the student members also actively participated and shared their views for syllabus formation.

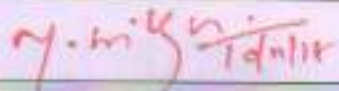


The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

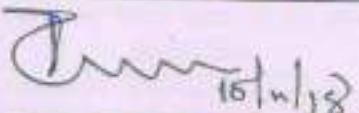


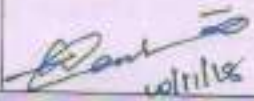

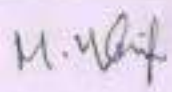
Based on the suggestions given by the members, BoS resolved to recommend the following to the Academic Council for further approval.

- First year syllabus (UG) under Regulation 2019
- Online courses recommended for credit transfer through MOOC (NPTEL / Swayam platform)
- Curriculum and syllabus (PG) under Regulation 2019

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

Members Present


Dr.M.Willjuice Iruthayarajan, Chairman,BoS/EEE	
<i>Internal Members</i>	
Dr.L.Kalaivani Professor/ EEE	
Dr.R.V.Maheswari Professor/ EEE	R. V. Maheswari
Dr.M.Ravindran Associate Professor (S.G) / EEE	M. Ravindran
Dr.N.B.Prakash Associate Professor/ EEE	Prakash
Dr.G.Kannayeram Assistant Professor(S.G) / EEE	G. Kannayeram 10/11/18
Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	M. P. E. Rajamani 10/11/18
<i>Academic Experts</i>	
Dr. M. Saravanan, Professor/EEE, Thiagarajar College of Engineering, Madurai, Tamilnadu.	M. Saravanan 10/11/18
Dr. V. Sankaranarayanan, Associate Professor/EEE, National Institute of Technology, Trichy	

<i>University Nominees</i>	
Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli.	 16/11/18
<i>Industrial Experts</i>	
Dr. Santosh Kumar Annadurai, GE, GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	
Mr. M. Ramesh, Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	
<i>Alumni Nominated by the Principal</i>	
Dr. G. Venkatesan, Professor/EEE, Karpagam College of Engineering, Coimbatore	 16/11/18
<i>Student Members Nominated by the HOD</i>	
Mr. K. Shunmuga Sundaram, Pre-Final Year /EEE National Engineering College, Kovilpatti	 K-Shunmuga Sun
Ms. M. Vavuniya, Pre-Final Year /EEE National Engineering College, Kovilpatti	 M. Vavuniya


CHAIRMAN
BOARD OF STUDIES

Action Taken on Suggestions from 9th BOS Meeting

Suggestions	Action Taken
Courses such as Workshop/Manufacturing practices and Engineering Practices may be moved to I semester	Suggestions have been carried out and given in I semester.
Applied Engineering for Electrical Engineers course can be given in II semester.	Suggestions have been carried out and given in II semester.
Mathematics can be splitted into four mathematical courses with Equal Credit Distribution instead of three as per AICTE model curriculum.	Mathematics course has been splitted into four courses with equal credits.
In the course " programming for problem solving ", the Python language may be included.	Suggestions will be incorporated in respective syllabus
For the courses, Engineering Mechanics and Biology , course content should be reduced.	
For the course, Electronic Design laboratory course content may revised.	Suggestions will be incorporated in respected syllabus and presented in upcoming BOS Meeting
High Voltage Engineering and Electric Drives and Control courses may included in Core course	High Voltage Engineering is given as core course in VI semester and Electric Drives and Control courses is given as programme elective course
Electromagnetic Interference and Electromagnetic Compatibility course may be included in Elective course.	Suggestions will be incorporated in respected syllabus and presented in upcoming BOS
Courses related to Industrial Internet of Things, Cyber Physical System may be given for Open Elective Courses.	
Power Quality course may be given as Program Elective Course.	
Software Development Life Cycle may be given as Open Elective Course.	
For M.E. High Voltage Engineering, the title for the course " Advanced Topics of High Voltage Engineering " may be modified as " Applications of High Voltage Engineering "	The subject has been modified high voltage engineering and its application is given as core subject in I semester.
For M.E. High Voltage Engineering, the topics related to, <ul style="list-style-type: none"> • Finite Difference Method, • Charge Simulation Method and • Boundary Element Method may be taught in detail to clearly understand the design concepts of electrical apparatus 	The topics have been incorporated in advanced electromagnetic field in detail


 HOD/EEE

DEPARTMENT OF SCIENCE AND HUMANITIES

MINUTES of 4th Meeting of the Board of studies held on
23rd November, 2018 at 10.30 am

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

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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**4th Board of studies Meeting in the
Department of Science and Humanities**

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

Date & Time: 23.11.2018 & 10.30 AM

Agenda

S & H / BoS 4.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Science and Humanities
S & H / BoS 4.2	:	Confirmation of the Minutes of the 2 nd meeting for the first year and 3 rd meeting for Trans-Disciplinary Elective courses of Board of studies in the department of Science and Humanities held on March 4 th , 2015 and March 18 th 2016
S & H / BoS 4.3	:	Business brought forward by the Chairman, Board of studies 4.3.1. First year Curriculum and Syllabi under R-2019
S & H / BoS 4.4	:	Any other items
S & H / BoS 4.5	:	Suggestions given by the BoS Members

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

F. No. 1-1/NEC/S & H

23rd Nov, 2018

Dear Sir/Madam,

Sub: Minutes of the 4th Meeting of the Board of studies in the Science and Humanities
Reg.

Kindly find attached herewith the Minutes of the 4th Meeting of Board of studies of the Science and Humanities of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 23rd Nov 2018 at 10.30 AM in the Conference Hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely



Dr.M.A.Neelakantan

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

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

www.nec.edu.in

MINUTES OF THE MEETING

The 4th Meeting of the Board of studies of the Science and Humanities was held on 23rd Nov 2018 at 10.30 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

Dr.M.A.Neelakantan, Chairman
<i>Internal Members</i>
Dr.S.Rammurthy, Prof. / Mathematics
Dr.S.S. Mariappan Asso. Prof (SG)/Chemistry
Ms.S.Geetha AP (SG) / Mathematics
Ms.V.Ramalakshmi AP (SG) / Mathematics
Ms.P. Gomathy AP (SG)/ Physics
Ms.S.D.Selvasundari AP/ English
Dr.S. Thalamuthu AP (SG)/ Chemistry
Mr.M.Manivannan AP/ Mathematics
Mr.S.Subash AP/English
Dr.A.Nichelson AP/Physics
<i>University Nominee</i>
Dr.M.Gunasekaran Professor & Head Department of Physics Anna University, Regional Centre, Tirunelveli
<i>Academic Experts</i>
Dr. S. Narayana Kalkura Director and Professor, Crystal Growth Centre Anna University, Chennai
Dr. N. Rajendran Professor, Director, Center for International Affairs Department of Chemistry Anna University, Chennai.

Dr. S.Soundiraraj Assistant Professor Department of English Anna University, Chennai
Dr. R.Mohanraj Assistant professor Department of Mathematics University VOC College of Engineering, Thoothukudi
<i>Student Members Nominated by the HOD</i>
V.Abirama Sundari, Final year CSE
P.Mahaan, Final year Mech
R.Aravindhnan, Final year EEE

S & H / BoS 4.1: Welcome address and Opening Remarks by Chairman, Board of Studies in the department of Science and Humanities

The Chairman BoS of the Science and Humanities welcomed and introduced the Members of 4th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

S & H / BoS 4.2: TO CONFIRM THE MINUTES OF SECOND AND THIRD BoS MEETING HELD ON March 4th 2015 and March 18th 2016

The minutes of the **Second and Third Board of Studies meeting** held on March, 4th 2015 and March, 18th 2016 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 6th Academic council.

S & H / BoS 4.3: **TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABI OF FIRST YEAR UG DEGREE PROGRAMME (Based on OBE & CBCS) TO BE OFFERED UNDER R-2019**

RESOLVED TO APPROVE the curriculum and syllabi of first year UG degree programme (BASED ON OBE & CBCS) to be offered under R-2019

➤ **R-2019 Curriculum & Syllabi**

(Enclosed in Annexure)

S & H / BoS 4.4: **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BoS**

4.5.1 ENGLISH	
Reading Comprehension is added in Unit V.	
In Unit II, Tense was given as the whole initially and now have split that and given as Tense (present) in Unit I, Tense (past) in Unit II and Tense (future) in Unit V.	
CO5 outcome is reframed.	
4.5.2 MATHEMATICS	
Mathematical Foundations For Engineers <i>Semester-I (Common to all Branches)</i>	In Unit - II - Centre, Radius and Circle of curvature should be changed into Centre of curvature, Radius of Curvature and Circle of Curvature. In Unit-IV topic Solution of simultaneous linear differential equation is to be added.
Probability and Queuing theory <i>Semester -II (common to CSE & IT)</i>	Unit - I Content should start with Random Variable and to remove Gamma distribution. Unit- III – Content Start with Random Process.
Discrete Mathematics <i>Semester -III (common to CSE & IT)</i>	In UNIT- I the topic Predicate Calculus and Quantifiers are to be included.
Statistics and Numerical Methods <i>Semester -IV (Common to CSE & IT)</i>	UNIT - III Heading is to be Changed as SOLUTIONS OF ALGEBRAIC, TRANSCENDENTAL EQUATIONS AND INTERPOLATION and in the topic Interpolation - Newton's Forward & Backward Difference Formulae is to be added.
Fourier Series and Transforms <i>Semester - III (ECE)</i>	In Unit -IV Z – Transforms, Initial and Final Value Theorem is to be added
Probability and Random Processes <i>Semester - IV (ECE)</i>	In Unit-I Content should be started with Random Variables and Gamma distribution is to be deleted. In Unit – III, Normal Process is to be deleted.
Complex Analysis, Numerical Methods And Mathematical Logic <i>Semester -IV (EEE)</i>	Title of the paper is framed on the meeting as COMPLEX ANALYSIS, NUMERICAL METHODS AND MATHEMATICAL LOGIC.

	Probability, Statistics And Numerical Methods <i>Semester - III (MECH)</i>	Title of Unit - IV NUMERICAL SOLUTION OF ALGEBRAIC EQUATIONS, NUMERICAL DIFFERENTIATION AND INTEGRATION is framed and Interpolation is topic is added in the content.
4.5.3	PHYSICS	
	Engineering Physics (Common to all branches)	<ul style="list-style-type: none"> • CO4 outcome is reframed • In Unit I, the topics 'crystal and amorphous' are included • In Unit III, the topic 'semiconductor laser' is added • In Unit IV, the topic 'Double crucible technique' is deleted • In Unit V, the topic 'electron microscope' is removed
	Physics of materials	<ul style="list-style-type: none"> • In Unit II, the thermal conductivity of good conductor is included
	Semiconductor Physics	<ul style="list-style-type: none"> • The Carrier transport: diffusion and drift-p-n junction in Unit II is shifted to Unit V
4.5.4	CHEMISTRY	
	Engineering Chemistry (Common to all branches)	<ul style="list-style-type: none"> • The suggestion to improve the clarity of outcome of the course. • Because of excess content in Unit V the thermo gravimetric analysis should be removed • In the reference, the author of the book is put initially.
	Chemistry for Mechanical Engineering	<ul style="list-style-type: none"> • In Unit V, the topic "bio-assisted nanocomposites" is included
	Biology for Engineers	<ul style="list-style-type: none"> • In Unit II, the molecular interaction analytic methods are included. • The topic "Lipinski's rule" is included in unit V.





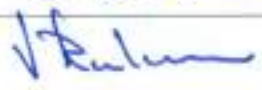






The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.






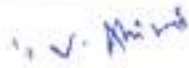


Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for B.E. / B.Tech. degree programme offered under Regulations 2019.

Dr. S.Rammurthy, Professor / Mathematics thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.M.A.Neelakantan Chairman	
<i>Internal Members</i>	
Dr.S.Rammurthy, Prof. / Mathematics	
Dr.S.S. Mariappan Asso. Prof (SG)/Chemistry	
Ms.S.Geetha AP (SG) /Mathematics	
Ms.V.Ramalakshmi AP (SG) /Mathematics	
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Dr.S. Thalamuthu AP (SG)/Chemistry	
Mr.M.Manivannan AP/Mathematics	
Mr.S.Subash AP/English	
Dr.A.Nichelson AP/Physics	

Dr.M.Gunasekaran Professor & Head Department of Physics Anna University, Regional Centre, Tirunelveli	 23/11/18
Dr. S. Narayana Kalkura Director and Professor, Crystal Growth Centre, Anna University, Chennai	
Dr. N. Rajendran Professor, Director, Center for International Affairs Department of Chemistry, Anna University, Chennai.	
Dr. S.Soundiraraj Assistant Professor Department of English Anna University, Chennai	
Dr. R.Mohanraj Assistant professor Department of Mathematics University VOC College of Engineering, Thoothukudi	
<i>Student Members Nominated by the HOD</i>	
V.Abirama Sundari, Final year CSE	
P.Mahaan, Final year Mech	
R.Aravindhhan, Final year EEE	


CHAIRMAN
BOARD OF STUDIES

Department of Information Technology

MINUTES of 10th Meeting of the Board of studies held on
27th October, 2018 at 11.00 AM

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

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

Department of Information Technology

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www.nec.edu.in

F. No. 10.1/NEC/IT/2018-19

27th Oct, 2018

Dear Sir/Madam,

Sub: *Minutes of the 10th Meeting of the Board of studies in the Information Technology - Reg.*

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Information Technology, National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 27th October, 2018 at 11.00AM in the department of Information Technology, National Engineering College. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely


(Dr.D.Manimegalai)

Department of Information Technology

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

MINUTES OF THE MEETING

The 10th Meeting of the Board of studies of the department of Information Technology was held on 27th October 2018 at 11.00 AM in the Department of Information Technology, National Engineering College, K.R.Nagar, Kovilpatti – 628503

1. The following members were present:

1.	Dr.D.Manimegalai	Chairman
2.	Dr.V.Seenivasagam, Prof. & COE	Internal Members
3.	Dr.S.Sankar Ganesh, Asso. Prof. (SG)	
4.	Dr.R.Muthukkumar, Asst. Prof. (SG)	
5.	Mr.V.Manimaran, Asst. Prof. (SG)	
6.	Ms.V.Anitha,AP	
7.	Ms.R.Priyadharshini,AP	Academic Experts
8.	Dr. S.Valli, Professor / Department of CSE Anna University, Chennai	
9.	Dr. L.Ganesan , Professor / Department of CSE, Alagappa Chettiar College of Engg. & Tech Karaikudi	University Nominee
10.	Dr. P.Latha, Associate Professor / Department of CSE, Government College of Engineering, Tirunelveli	
11.	Mr.R.Rajasekar, Director Bizpluz Tech Services Pvt. Ltd., Chennai	Alumni Member
12.	Dr.A.Soundarrajan, Associate Professor / Department of IT, PSG College of Technology, Coimbatore.	Special Invitee
13.	Mr.Rajmohan Natesan, Vice President, Ivtl Infoview Technology, Chennai.	Industrial Expert
14.	K.S.Kasieram, Final year	Student Members
15.	R.Priyadharshini, Final year	

2. The Industrial Expert member Mr. Somu Chockalingam, Director, Doyen Systems Pvt Ltd and the Special Invitee Shri. E. Khalieranj Regional Director, National Cyber Defence Research Centre (NCDRC) Team, New Delhi could not attend the meeting due to their prior commitments and unavoidable reasons.

BoS / IT 10.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF INFORMATION TECHNOLOGY
		The Chairman, BoS of the Information Technology welcomed and introduced the members of 10 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / IT 10.2	:	TO CONFIRM THE MINUTES OF NINETH BOS MEETING HELD ON 28 th APRIL, 2018
		The minutes of the Nineth Board of Studies meeting held on 28 th April, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 9 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure D</i>)
BoS / IT 10.3.1	:	TO CONFIRM AND APPROVE THE CURRICULUM FOR B.TECH IT UNDER R-2019
	:	RESOLVED TO approve the curriculum for B.Tech IT under R-2019
BoS / IT 10.3.2	:	TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABUS FOR M.TECH IT (INFORMATION AND CYBER WARFARE) UNDER R-2019
		RESOLVED TO approve the curriculum and syllabus for M.Tech IT (Information and Cyber Warfare) under R-2019
BoS / IT 10.3.3	:	TO CONFIRM AND APPROVE THE ONLINE COURSES RECOMMENDED FOR CREDIT TRANSFER THROUGH MOOC (NPTEL / SWAYAM PLATFORM)
		RESOLVED TO approve the Online courses recommended for credit transfer through MOOC (NPTEL / Swayam platform)
BoS / IT 10.4	:	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

	<p>On the whole, the proposed curriculum for R2019 was very much appreciated by all members. They also congratulated the faculty members for their team efforts towards continuing Education.</p>
BSS / IT 10.5	<p>SUGGESTIONS GIVEN BY THE BOS MEMBERS</p>
10.5.1	<p><i>Subjects which are passionable for students may be included under Humanities-I</i></p>
10.5.2	<p><i>Information Technology Essentials is to be given in Third Semester itself for the students to study the fundamentals of IT. Principles of Data Communication should be given in Fourth Semester</i></p>
10.5.3	<p><i>Students must know how to deploy the project in Product Development Laboratory</i></p>
10.5.4	<p><i>Syllabus for Biology must be framed by referring Biotechnology subjects. Naming may be given as Bioinformatics (or) Medical Informatics.</i></p>
10.5.5	<p><i>Subjects such as Information Visualization and R programming should be under Analytics Domain.</i></p>
10.5.6	<p><i>Microprocessors and Microcontrollers along with lab is given as a subject in Fifth Semester instead of Compiler Design. Compiler Design is given as an elective subject under programming domain</i></p>
10.5.7	<p><i>Web Technology is given as a subject in Sixth Semester instead of Cloud Computing. Cloud Computing is given as an elective subject under Social And Cloud Computing domain.</i></p>
10.5.8	<p><i>Web Technology Laboratory is included in Sixth Semester instead of Big Data Analytics Laboratory</i></p>
10.5.9	<p><i>As per the AICTE Model Curriculum of Engineering & Technology PG Courses the Curriculum for M.Tech [Information and Cyber Warfare] has been reframed. The suggestions given by BoS members regarding changes in syllabus is also incorporated.</i></p>

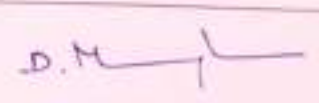
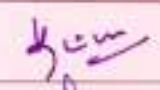



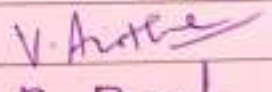
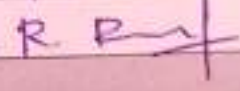
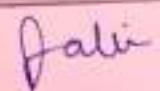
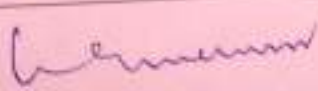
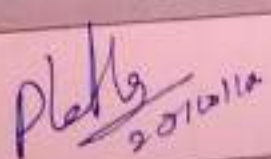

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the curriculum.

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

- a) Curriculum for B.Tech IT under R-2019
- b) Curriculum and Syllabus for M.Tech IT (Information and Cyber Warfare) under R-2019
- c) Online courses recommended for credit transfer through MOOC (NPTEL / Swayam platform)

Ms.V.Anitha,AP thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.D.Manimegalai, Prof & Head ,Board Chairman	
Internal Members	
Dr.V.Seenivasagam, Prof. & COE	
Dr.S.Sankar Ganesh, Asso. Prof.(SG)	
Dr.R.Muthukumar, Asst. Prof. (SG)	
Mr.V.Manimaran, Asst. Prof. (SG)	
Ms.V.Anitha,AP	
Ms.R.Priyadharshini,AP	
Academic Experts	
Dr.S.Valli, Professor, Dept. of CSE, Anna University, Chennai.	
Dr. L.Ganesan, Professor, Dept. of CSE, AC Tech, Karaikudi-630 004.	
University Nominees	
Dr.P.Latha Associate Professor, Department of CSE, GCE, Tuirunelveli	
Alumni Member	
Mr.R.Rajasekar, Director Bizpluz Tech Services Pvt. Ltd., Chennai	

Special Invitee

Dr. A. Soundarrajan,
Associate Professor,
Department of IT,
PSSG College of Technology,
Coimbatore.

Allex
27/10/18

Industrial Expert

Mr. Rajmohan Natesan,
Vice President,
Ivtl Infoview Technology,
Chennai.

Arjun
27/10/2018

Student Members

E.S. Kasieram, Final year

K. S. Kasieram

R. Priyadharshini, Final year

R. Priyadharshini

A. H. L.
1/10/18


CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 9th BoS Meeting

As per BOS Committee suggestion,

- Credits for Management subjects have been reframed as 3 uniformly.
- Rational rose and NS2 is added under IT Workshop.
- Compiler Design is added as one of the Open Elective Courses.
- Credits for Mini Project and Project Work have been reframed.
- C++ is given as a separate subject in Third Semester.
- Elective subjects under Social/Mobile/Analytic/Cloud Domains (SMAC) are included in the curriculum.


CHAIRMAN
BOARD OF STUDIES