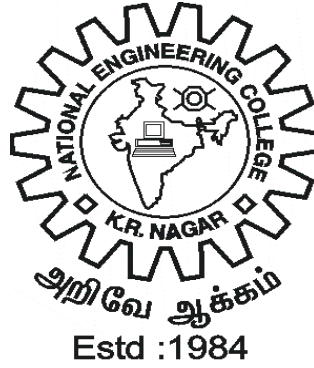


NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University Chennai)

K.R.NAGAR, KOVILPATTI – 628 503



ELEVENTH BOARD OF STUDIES MEETING – MINUTES



Venue: Conference Hall in the Administrative Block

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

11th Board of studies Meeting in the Department of **Mechanical Engineering**

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

Date & Time: 25.05.2019 & 10.30 a.m.

Agenda

BoS / MECH 11.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Mechanical Engineering
BoS / MECH 11.2	:	Confirmation of the Minutes of the 10 th meeting of Board of studies in the department of Mechanical Engineering held on November 16, 2018 and Action taken report of 10 th meeting of Board of studies
BoS / MECH 11.3	:	Business brought forward by the Chairman, Board of studies 11.3.1. The syllabus of II year B.E. Mechanical Engineering Programme under Regulation 2019 11.3.2. The syllabus of M.E Energy Engineering Programme under Regulation 2019 11.3.3. List of Examiners for Question paper setting, Project work and Laboratory courses
BoS / MECH 11.4	:	Suggestions given by the BOS Members
BoS / MECH 11.5	:	Any other items

Department of Mechanical Engineering

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

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

www.nec.edu.in

F. No. 1-1/NEC/ MECH

25th May, 2019

Dear Sir/Madam,

Sub: Minutes of the 11th Meeting of the Board of studies in the Mechanical Engineering - Reg.

Kindly find attached herewith the Minutes of the 11th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 25th May 2019 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 11th Meeting of the Board of studies held on
25th May 2019 at 10.30 AM

Venue: Seminar Hall, Dept. of Mechanical Engineering
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

MINUTES OF THE MEETING

The 11th Meeting of the Board of studies of the Mechanical Engineering was held on 25th May 2019 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.S.Iyah Raja, Asso. Professor	
5.	Dr.D.Venkat Kumar, Asso. Professor	
6.	Dr. M.Kathiresan, Asso. Professor	
7.	Dr. R.Harichandran, Asso. Professor	
8.	Mr.P.Ramanan, Assistant Professor (S.G)	
9.	Dr.I. Sankar, Assistant Professor (S.G)	
10.	Dr.F.Michael Thomas Rex, Asst. Prof. (SG)	
11.	Mr.M.Vivekanandan, Adjunct Faculty	
12.	Dr. R. Velraj Professor & Director, Institute for Energy Studies, CEG Anna University, Chennai	Academic Experts
13.	Dr.-Ing. M. Duraiselvam Professor, Department of Production Engineering, National Institute of Technology, Trichy	
14.	Mr. S. Suresh Senior Vice President and Business Head (EM) Wheels India Limited, Padi, Chennai-600050	Industrial Expert

15.	Dr. K. Murugan Scientist –E, Centre for Sol-Gel Coatings, ARCI, Hyderabad – 500 005, Telangana	Meritorious Alumnus Nominated by the Principal
16.	Mr.P.Muniyandi Principal Scientific Officer Bharat Earth Movers Limited New Thippasandra, Bengaluru – 56007	Special Invitees
17.	Mr.P.Sutharsanan CEO, Dynamic Plastics and Assembly, Thirumudivakkam, Chennai – 600044	
18.	Mr.P.S.Sriram Vice President – Operations (Plant – Head) Daimler india commercial vehicles, Chennai.	
19.	Mr.Praveenkrishna.K.R, IV Year	Student Members
20.	Mr. Periyayanaganathan.P, IV Year	

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

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

BoS / MECH 11.1	:	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 11 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / MECH 11.2	:	TO CONFIRM THE MINUTES OF TENTH BOS MEETING HELD ON 16 th NOVEMBER, 2018
		The minutes of the Tenth Board of Studies meeting held on 16 th November, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 10 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure D</i>)
BoS / MECH 11.3.1	:	TO CONFIRM AND APPROVE the syllabus of II year B.E. Mechanical Engineering Programme under Regulation 2019
		➤ RESOLVED TO APPROVE the syllabus of II year B.E. Mechanical Engineering Programme under Regulation 2019
BoS / MECH 11.3.2	:	TO CONFIRM AND APPROVE the syllabus of M.E Energy Engineering Programme under Regulation 2019
		➤ RESOLVED TO APPROVE the syllabus of M.E Energy Engineering Programme under Regulation 2019
BoS / MECH 11.3.3	:	TO CONFIRM AND APPROVE the list of Examiners for Question paper setting, Project work and Laboratory courses

	➤ RESOLVED TO APPROVE the list of Examiners for Question paper setting, Project work and Laboratory courses
BoS / MECH 11.4	: Suggestions Given by the Members for UG Syllabus
11.4.1	: Credit may be given for the course “Safety, Health and Environmental Engineering”.
11.4.2	: The syllabus content may be given elaborately for the course Manufacturing Technology-I
11.4.3	: Four pillars of constitution and Procedure in VISA application may be included in the course “Constitution of India”.
11.4.4	: The third and fourth year courses “Strength of materials” and “kinematics of machinery” may be interchanged.
11.4.5	: Toastmaster clubs may be included in Communication Skills Laboratory.
	Suggestions Given by the Members for PG Syllabus
11.4.6	: The elective course “Energy Efficient Buildings” may be included as core course.
11.4.7	: General elective courses that are offered to the research scholars may be categorized as other elective courses in the curriculum.
11.4.8	: Advanced fluid mechanics concepts may be included in the core course “Advanced Thermal Engineering”.
11.4.9	: Applications of Solar PV may be included in the core course “solar energy utilization”.
11.4.10.	: The elective course “Solar photovoltaic power plants: Planning, Design and Balance of system” may be offered as core course in the second semester.



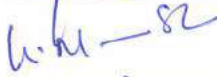






The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.


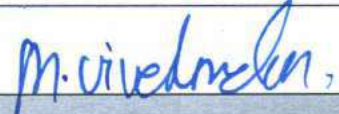






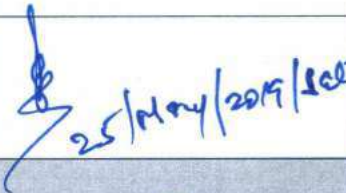


Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The syllabus of II year B.E. Mechanical Engineering Programme under Regulation 2019
- b) The syllabus of M.E Energy Engineering Programme under Regulation 2019
- c) List of Examiners for Question paper setting, Project work and Laboratory courses

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

Members Present

<i>Chairman</i>	
Dr.K.Kalidasa Murugavel Professor & Head	
<i>Internal Members</i>	
Dr. D.Ravindran, Professor	
Dr.K.Manisekar, Professor & Dean (Academic)	
Dr.S.Iyah Raja, Asso. Professor	
Dr.D.Venkat Kumar, Asso. Professor	
Dr. M.Kathiresan, Asso. Professor	
Dr. R.Harichandran, Asso. Professor	
Mr.P.Ramanan, Assistant Professor (S.G)	
Dr.I. Sankar, Assistant Professor (S.G)	

Dr. Michael Thomas Rex, Assistant Professor (S.G)	
Mr.M.Vivekanandan, Adjunct Faculty	
Academic Experts	
Dr.-Ing. M. Duraiselvam Professor Department of Production Engineering, NIT, Trichy	
Dr. R. Velraj Professor & Director, Institute for Energy Studies, CEG, AnnaUniversity, Chennai-600025	
Industrial Experts	
Mr. S. Suresh Senior Vice President and Business Head (EM) Wheels India Limited, Padi, Chennai-600050	
Alumni Nominated by the Principal	
Dr. K. Murugan Scientist - E Centre for Sol-Gel Coatings, ARCI Hyderabad - 500 005, Telangana	
Special Invitees	
Mr.P.Muniandi Principal Scientific Officer Bharat Earth Movers Limited New Thippasandra, Bengaluru - 560075	
Mr.Sudharsan CEO, Dynamic Plastics and Assembly, Thirumudivakkam, Chennai - 600044	
Mr.P.S.Sriram Vice President - Operations (Plant - Head) Daimler india commercial vehicles, Chennai.	 25/May/2019/2019
Student Members Nominated by the HOD	
Mr.Praveenkrishna.K.R, IV Year Mr. Periyannayaganathan.P, IV Year	  P. Periyannayaganathan


CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 10th BoS Meeting

As per BOS Committee suggestion,

1. Various laws of friction were included in the syllabus of Engineering Mechanics course
2. Demonstration of welding, Injection moulding, CNC machining and 3D printing process were included in the course Engineering Practices Laboratory
3. The Engineering Mechanics syllabus of the Civil Engineering Programme was rearranged to give more importance to properties of surfaces and solids.



CHAIRMAN
BOARD OF STUDIES

Department of Electronics and Communication Engineering

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

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

www.nec.edu.in

11th 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: 11.05.2019 & 10.30 a.m.

AGENDA

ECE/BoS 11.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electronics and Communication Engineering
ECE /BoS 11.2	:	Confirmation of the Minutes of the 10 th meeting of Board of studies in the department of Electronics and Communication Engineering held on November 10, 2018 and action taken report of 10 th meeting of Board of studies
ECE /BoS 11.3	:	Business brought forward by the Chairman, Board of studies 11.3.1. Second Year Syllabus under R-2019. 11.3.2. PG - Curriculum and Syllabus under R-2019. 11.3.3. List of Examiners
ECE /BoS 11.4	:	Any other items
ECE /BoS 11.5	:	Suggestions given by the BoS Members

Department of Electronics and Communication Engineering

MINUTES 11th Meeting of the Board of studies held on
11th May, 2019 at 10.30 AM

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

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

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

13th May, 2019

Dear Sir/Madam,

Sub: *Minutes of the 11th Meeting of the Board of studies in Electronics and Communication Engineering - Reg.*

Kindly find attached herewith the minutes of the 11th Meeting of Board of studies of the Electronics and Communication Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 11th May, 2019 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 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 11th Meeting of the Board of studies of the Electronics and Communication Engineering was held on 11th May, 2019 at 10.30 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

1. The following members were present:

1.	Dr.A.Shenbagavalli 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.	Dr.T.S.Arun Samuel, Asso. Prof.	
7.	Mr.T.Vijayanandh, Asst. Prof. (SG)	
8.	Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
9.	Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
10.	Mr.M.Sathish Kumar, Asst. Prof	
11.	Mr.B.Ganapathy Ram, Asst. Prof	
12.	Mrs.S.Geetha, Asst. Prof (SG)/ Mathematics	
13.	Dr.M.Meenakshi, Professor, Department of Electronics and Communication Engineering, College of Engineering, Guindy Campus, Chennai.	Academic Expert
14.	Mr.R.Ravishankar, Associate Vice President,	Industrial Expert

	K7 Computing, Chennai.	
15.	Mr.Satya Prakash Pathak, Technical Lead- ATE Test, Altran, Bangalore.	
16.	Mr.M.Chinnathambi, Senior Staff Engineer, Mbit Wireless Pvt Ltd, Chennai.	Meritorious Alumnus / Industrial Expert
17.	Mr.M. John Rupert, Verification Engineer Cadence Pvt., Ltd., Bangaluru.	
18.	Ms. P.Ganeshwari, 3 rd year ECE	Student Members
19.	Mr.A.Siva Chidhambaram, 4 th year ECE	

2. The University nominee Dr. Rahilal Bilal, Associate Professor / Dept. of ECE Thanthai Periyar Government Institute of Technology, Vellore and Industrial Expert member Mr.Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran, Bangalore could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS/ECE 11.1 : 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 11th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/ECE 11.2 : TO CONFIRM THE MINUTES OF TENTH BOS MEETING HELD ON 10th NOVEMBER, 2018

The minutes of the **Tenth Board of Studies meeting** held on 10th November, 2018 were communicated to the members. The comments received have been incorporated and placed for

confirmation. The same was approved by the 10th Academic council.

- Action Taken Report
(Enclosed in Annexure I)

BoS/ECE11.3.1 : TO CONFIRM AND APPROVE THE SECOND YEAR SYLLABUS TO BE OFFERED UNDER R-2019

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

- R-2019 Curriculum for UG (Second Year)

(Enclosed in Annexure II)

BoS/ECE11.3.2 : TO CONFIRM AND APPROVE THE PG (M.E-Embedded System Technologies) CURRICULUM AND SYLLABUS UNDER R-2019

RESOLVED TO approve the PG (M.E-Embedded System Technologies) Curriculum And Syllabus Under R-2019

- R-2019 Curriculum for PG

(Enclosed in Annexure III)

BoS/ECE 11.4 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

BoS/ECE 11.5 : SUGGESTIONS GIVEN BY THE BOS MEMBERS

11.5.1 : The BoS members reviewed the proposed syllabus of second year under R-2019 for Undergraduate Electronics and Communication Engineering Program based on the AICTE model curriculum.

11.5.2 : Digital System Design course content of third semester may be reduced; unit II may be separated into two units and unit V may be moved to lab content.

- 11.5.3 : In Signals and System course in third semester, MATLAB programs may be included for all the units.
- 11.5.4 : Fourier Series and Transforms course in third semester, title may be changed to Fourier Series and Mathematical Transforms.
- 11.5.5 : In Electronic Devices course of third semester, IGBT content may be included and text book edition to be mentioned.
- 11.5.6 : First unit content of Network theory course in third semester may be changed and also first topic in Unit III may be changed as series resonance circuit.
- 11.5.7 : Electronic devices practical course of third semester, experiment number 10 – ‘Series voltage Regulator’ and experiment number 11 – ‘Shunt voltage Regulator’ may be combined and offered as voltage regulators.
- 11.5.8 : Unit 1 and Unit 2 content of Electronic Circuits course in fourth semester may be reduced. Contents like Franklin and Armstrong oscillators may be removed.
- 11.5.9 : Probability and Random Processes course title in fourth semester may be changed to Probability, Random Processes and Queuing Theory and the title of unit 5 in the course may be changed as Queuing theory basics.
- 11.5.10 : In Microprocessor and Microcontrollers course in fourth semester, the instruction set from unit 2 can be moved to unit 1.

- 11.5.11 : In Analog and Digital Communication practical course of fourth semester, Experiment number 4 – ‘Implementation of channel coding using FPGA’ can be moved to VLSI lab.
- 11.5.12 : In Electronics Circuits practical course of fourth semester, Class B and Class C power amplifiers may be included.
- 11.5.13 : Industrial experts may be included in Examiner Panel list for conducting practical courses and project viva.
- 11.5.14 A one credit course JTAG may be introduced in 2015- regulation as an elective.
- 11.5.15 In 2015 regulation, Students by their own can invite problem from industries for internship programme. They can complete their intern process in Institution itself with Industry support. Student should do this process under a mentor with continuous monitoring.
- 11.5.16 : In 2015-R, the open elective syllabus content may be redefined so that other department students may opt the same.
- 11.5.17 : For PG Curriculum R-2019, Artificial Intelligence, Machine Learning, Pattern Recognition and IoT may be included as electives.
- 11.5.18 : For all the PG Syllabus under R-2019, Knowledge levels (K) may be modified appropriately for the respective Course Outcomes.
- 11.5.19 : Pedagogic course syllabus content may be redefined in the PG syllabus under R-2019.


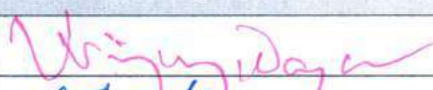
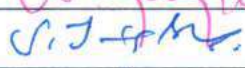



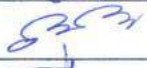




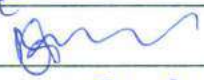
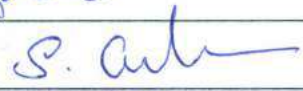

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum.





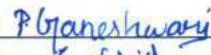

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- ❖ Second Year Syllabus under Regulation-2019
- ❖ PG Curriculum and Syllabus under R-2019
- ❖ Modification needed in the first year syllabus under R-2019
- ❖ Modification needed in electives under R-2015
- ❖ Finalization of Examiners list

Dr.T.S.Arun Samuel, Asso. Prof. /ECE 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, Professor	
Mr.N.Arumugam, Asso.Prof.	
Mr.V.R.S.Mani, Asso. Prof.	
Mr.T.Devakumar, Asst. Prof. (SG)	
Mr.T.Vijayanandh, Asst. Prof. (SG)	
Mr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
Dr.T.S.Arun Samuel, Asso. Prof.	
Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
Mr.M.Sathish Kumar, Asst. Prof.	
Mr.B.Ganapathy Ram, Asst. Prof.	
Mrs.S.Geetha, Asst. Prof. (SG) / Mathematics	
Academic Experts	
Dr.M.Meenakshi, Professor, Dept. of Electronics and Communication Engg., College of Engineering, Chennai - 600025	

<i>Special Invites / Industrial Experts</i>	
Mr. R.Ravishankar, Associate Vice President, K7Computing, Chennai.	
Mr. Satya Prakash Pathak Technical Lead · ATE Test, Altran Technologies, Bengaluru	
<i>Meritorious Alumnus / Industrial Expert</i>	
Mr.M.Chinnathambi, Senior Staff Engineer, Mbit Wireless Private Limited, Chennai	
Mr.M.John Rupert, Verification Engineer Cadence Private Limited, Bengaluru	
<i>Student Members Nominated by the HOD</i>	
Ms.P.Ganeshwari, 3 rd year ECE	
Mr.A.Siva Chidhambaram, 4 th year ECE	


CHAIRMAN

BOARD OF STUDIES

Department of Computer Science and Engineering

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

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

www.nec.edu.in

11th Board of studies Meeting in the Department of
Computer Science and Engineering

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

Date & Time: 18.05.2019 & 11.00 AM

Agenda

- BoS / CSE 11.1 : Welcome address and Opening Remarks by
Chairman, Board of studies in the department of
Computer Science and Engineering
- BoS / CSE 11.2 : Confirmation of the Minutes of the 10th meeting of
Board of studies in the department of Computer
Science and Engineering held on 17th November 2018
and Action taken report of 10th meeting of Board of
studies
- BoS / CSE 11.3 : Business brought forward by the Chairman, Board of
studies
- 11.3.1. The syllabus for II Year - B.E-CSE degree
course offered under Regulation 2019
- 11.3.2. The syllabus for M.E-CSE degree
course offered under Regulation 2019
- 11.3.3. CISCO one credit courses and Global
Certification
- 11.3.4. Panel of Examiners
- BoS / CSE 11.4 : Any other items
- BoS / CSE 11.5 : 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

18th May, 2019

Dear Sir,

Sub: *Minutes of the 11th Meeting of the Board of studies in the Computer Science and Engineering -Reg.*

Kindly find attached herewith the Minutes of the 11th Meeting of Board of studies of the Computer Science and Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 18th May 2019 at 11.00 AM in the Library AV 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 hodcse@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


Dr.V.Gomathi

Department of Computer Science and Engineering

MINUTES of 11th Meeting of the Board of studies held on
18th May, 2019 at 11.00 AM

Venue: Library AV 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 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

MINUTES OF THE MEETING

The 11th Meeting of the Board of studies of the Computer Science and Engineering was held on 18th May, 2019 at 11.00 AM in the Library AV 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.V.Kavidha, Associate Professor	
6.	Dr.S.Maheswari, Associate Professor	
7.	Ms.M.Bhuvanewari, Assistant Professor (SG)	
8.	Ms.J.Naskath, Assistant Professor (SG)	
9.	Ms.M.Jayalakshmi, Assistant Professor (SG)	
10.	Ms.R.Rajakumari, Assistant Professor (SG)	
11.	Ms.S.Kalaiselvi, Assistant Professor (SG)	
12.	Ms.G.R.Hemalakshmi, Assistant Professor (SG)	
13.	Mr.V.Sivakumar, Assistant Professor	
14.	Dr. S. Valli, Professor, Dept of Computer Science and Engineering, Anna University, Chennai	Academic Expert
15.	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
16.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd. Chennai.	Industrial Expert

17.	Mr.Manikanda Raman Viswanathan, Principal Architect, Cognizant Digital Operations, CTS,Chennai.	Industrial Expert
18.	Ms. Preethi.S , III year CSE	Student Members
19.	Mr. Vigneshwaran.R, III year CSE	Nominated by the HOD

2. Dr.K.A. Abdul Nazeer, Professor, Department of CSE, National Institute of Technolgy,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 11.1 : 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 11th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CSE 11.2 : TO CONFIRM THE MINUTES OF TENTH BOS MEETING HELD ON 17th November, 2018

The minutes of the **Tenth Board of Studies meeting** held on 17th November, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 10th Academic council.

➤ **Action Taken Report**

(Enclosed in Annexure I)

BoS/CSE 11.3.1 : TO CONFIRM AND APPROVE THE SYALLABUS FOR THE SECOND YEAR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO approve the Syllabus for the second year UG degree programme to be offered under R-2019

➤ **R-2019 B.E-CSE Second Year Syllabus**

(Enclosed in Annexure II)

BoS/ CSE 11.3.2 : **TO CONFIRM AND APPROVE THE SYLLABUS FOR THE PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019**

➤ **R-2019 M.E-CSE Syllabus**

(Enclosed in Annexure III)

BoS/ CSE 11.3.3 : **CISCO One credit Courses and Global Certification**

(Enclosed in Annexure IV)

BoS/ CSE 11.3.4 : **Panel of Examiners** (Enclosed in Annexure V)

BoS / CSE 11.4 : **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 11.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

- 11.5.1 : Text Books and reference books or Reprint may be within five years.
- 11.5.2 : Agile and DevOps may be offered in unit V in Software Engineering Methodologies course
- 11.5.3 : Digital Fundamentals by Thomas L. Floyd book may be included as references in Digital principles and system design course.
- 11.5.4 : In OOPS lab, Visual Studio and codebase IDE may be added
- 11.5.5 : Computer Networks by Larry L. Peterson book may be included as textbook in the computer networks course.
- 11.5.6 : In ME-CSE, Block Chain technology laboratory course may be included as Elective
- 11.5.7 : If a student has successfully completed the CCNA industrial global certification examination, then it can be equivalently considered as completion of internship/Inplant Training or relaxing a 3 credit elective course (Inter disciplinary/program Elective) from 2019-20 onwards.
- 11.5.8 : Removal of Globally accepted certification course category (NCG26) from Annexure II of Non -CGPA course categories.


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

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

- The Syllabus for B.E. (Computer Science and Engineering, II Year) degree course offered under Regulation 2019.
- The Syllabus for M.E. (Computer Science and Engineering) degree course offered under Regulation 2019.
- CISCO One Credit Courses and Global Certification
- Panel of Examiners

Ms.J.Naskath, 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. 18/5/19
Internal Members	
Dr.K.G.Srihivasagan Professor	
Dr.V.Kalaivani Professor	V. Kalai
Dr.K.Mohaideen Pitchai Associate Professor (SG)	K. Pitchai
Dr.V.Kavidha Associate Professor	Kavidha 18/5/19
Dr.S.Maheswari Associate Professor	Smaheswari
Ms.M.Bhuvaneshwari Assistant Professor (SG)	M. Bhuvaneshwari
Ms.J.Naskath Assistant Professor (SG)	J. Naskath
Ms.M.Jayalakshmi Assistant Professor (SG)	M. Jayalakshmi 18/05/19
Ms.R.Rajakumari Assistant Professor (SG)	R. Rajakumari 18/5/19
Ms.S.Kalaiselvi Assistant Professor (SG)	S. Kalaiselvi
Ms.G.R.Hemalakshmi Assistant Professor (SG)	G. R. Hemalakshmi
Mr.V.Sivakumar Assistant Professor	V. Sivakumar

Academic Expert	
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.	<i>CPM 18/5/2019.</i>
Academic Expert	
Dr. S. Valli, Professor, Dept of Computer Science and Engineering, Anna University, Chennai.	<i>Salli 18/5/19</i>
Industrial Experts	
Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd., Chennai.	<i>Subhale 18/5/2019</i>
Alumni Nominated by the Principal	
Mr.Manikanda Raman Viswanathan, Principal Architect, Cognizant Digital Operations, CTS, Chennai.	<i>V.M.R. R 18/5</i>
Student Members Nominated by the HOD	
Ms. Preethi.S , III year CSE	<i>P.Preethi</i>
Mr. Vigneshwaran.R, III year CSE	<i>R.vignesh</i>

V. L. A.
18/5/19
CHAIRMAN
BOARD OF STUDIES

Annexure I

Actions Taken Report for Minutes of 10th BOS

As per BOS committee suggestions,

- Python Programming is offered in I semester.
- Problem Solving Techniques course and its Lab are included in the II Semester..
- OOPs with C++ course is included in the III Semester.
- Advanced Java Programming, Software Design Architecture are offered as elective.
- In the M.E CSE Curriculum, Machine Learning and Deep Learning are framed as separate course. Elective courses are grouped as E-I, E-II, etc..

Department of Electrical and Electronics Engineering

MINUTES 11th Meeting of the Board of studies held on
18th May, 2019 at 10.30 AM

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

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

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

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

11th Board of studies Meeting in the Department of Electrical and Electronics Engineering

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

Date & Time: 18.05.2019 & 10.30 AM

AGENDA

BoS / EEE 11.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electrical and Electronics Engineering
BoS / EEE 11.2	:	Confirmation of the Minutes of the 10 th meeting of Board of studies in the department of Electrical and Electronics Engineering held on November 10 th 2018, and Action taken report of 10 th meeting of Board of studies
BoS / EEE 11.3	:	Business brought forward by the Chairman, Board of studies 11.3.1 Second year UG (B.E. – EEE) syllabus under R-2019 11.3.2 Audit Course for PG (M.E – HVE) under R-2019 11.3.3 One Credit Course for UG (B.E. – EEE) syllabus under R-2015 11.3.4 List of Examiners
BoS / EEE 11.4	:	Any other items
BoS / EEE 11.5	:	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.

18th May, 2019

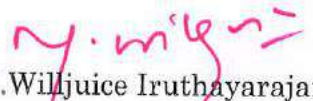
Dear Sir/Madam,

Sub: Minutes of the 11th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 11th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 18th May, 2019 at 10.30 AM in the Conference Hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely


Dr.M.Willjuice Iruthayarajan

Department of Electrical and Electronics Engineering

MINUTES OF THE MEETING

The 11th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 18th May 2019 at 10.30 AM in Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

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.G.Kannayeram Assistant Professor(S.G) / EEE	
6.	Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	Academic Expert
7.	Dr. M. Saravanan Professor/EEE, Thiagarajar College of Engineering, Madurai.	
8.	Dr. V. Sankaranarayanan Associate Professor/EEE, National Institute Technology, Trichy	University Nominee
9.	Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli.	
10.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	Industrial Expert
11.	Dr.Hariram satheesh, Principal Scientist, ABB Global Industries and Services Ltd, Bangalore	
12.	Mr. M. Ramesh Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	
13.	Mr.R.Jayakumar, Delivery Manager, Ford Motor Company, Chennai.	

14.	Mr.K.Shunmuga Sundaram, Pre-Final Year / EEE	Student Members
15.	Ms.M.Vavuniya, Pre-Final Year / EEE	

The Industrial Expert Mr.S.Subramanian, Senior Maintenance Engineering (I), Kudankulam Nuclear Power Project, Kudankulam, the Meritorious Alumnus Dr.G.Venkatesan Professor/EEE,Karpagam College of Engineering, Coimbatore, and the Internal member Dr.N.B.Prakash, Associate Professor / EEE could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS / EEE 11.1 : 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 11th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / EEE 11.2 : TO CONFIRM THE MINUTES OF TENTH BOS MEETING HELD ON 10th NOVEMBER 2019

The minutes of the Tenth Board of Studies meeting held on 10th November 2018 were communicated to the members vide letter No. F. No. 1-1/NEC/EEE, Dated 10.11.2018. The comments received have been incorporated and placed for confirmation. The same was approved by the 10th Academic council.

➤ Minutes of 10th Board of Studies

➤ Action Taken Report

(pdf file attached in hyperlink)

BoS / EEE 11.3.1 : TO CONFIRM AND APPROVE THE SECOND YEAR SYLLABUS (UG) UNDER REGULATION 2019

RESOLVED TO approve the Second year syllabus (UG) under Regulation 2019

R-2019 Syllabus for Second year

- BoS / EEE 11.3.2 : TO CONFIRM AND APPROVE THE AUDIT COURSES FOR M.E-HIGH VOLTAGE ENGINEERING (PG) UNDER REGULATION 2019
RESOLVED TO approve the audit courses for m.e-high voltage engineering (PG) under regulation 2019
R-2019 Audit courses syllabus for PG
- BoS / EEE 11.3.3 : TO CONFIRM AND APPROVE THE ONE CREDIT COURSE FOR UG UNDER REGULATION 2015
RESOLVED TO approve the one credit course for UG under regulation 2015
R-2015 One Credit course syllabus for UG
- BoS / EEE 11.3.4 : TO CONFIRM AND APPROVE THE LIST OF EXAMINERS FOR UG & PG UNDER REGULATION 2019
RESOLVED TO approve the list of examiners for UG & PG under regulation 2019
R-2019 List of examiners
- BoS / EEE 11.4 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS
The BoS members interacted with the chairman, internal members and student members regarding syllabus formation under Regulation 2019. They insisted to include students feedback in framing the syllabus.
- BoS / EEE 11.5 : SUGGESTIONS GIVEN BY THE BOS MEMBERS
- 11.5.1 : In the course "Electrical Circuit Analysis", the syllabus may be completely refined similar to R-2015 with some inclusions of topics such as real and reactive power, power factor and two port networks.


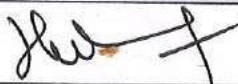


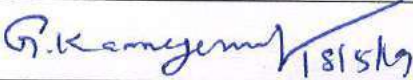
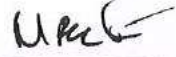
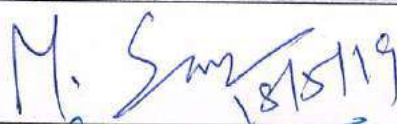


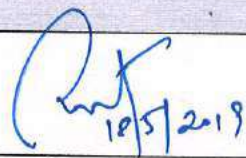

- 11.5.2 : In the course "Analog Electronics", the content related to JFET may be removed. Digital to analog conversion topic should be included. The credit may be increased from 3 to 4.
- 11.5.3 : In the course "Analog Electronics Laboratory", the experiment related to transistor biasing, integrator and differentiator may be removed. Regulator experiments may be included.
- 11.5.4 : In the course "Electrical Machines I", the contents related to transformers such as vector groups and standards may be included.
- 11.5.5 : In the course "Electromagnetic Fields", the content related to application of EMI/EMC (qualitative) may be included.
- 11.5.6 : In the course "Digital Electronics", the contents related to recent converters, EEPROM and Flash memory size calculation may be included. Title of unit-V may be renamed as hardware programming language.
- 11.5.7 : In the course "Digital Electronics Laboratory", the experiment of VHDL coding for simple circuits may be included.
- 11.5.8 : In the course "Measurement and Instrumentation", the contents such as optical CT, CVT, IVT, Rogowski-hall sensor and introduction to virtual instrumentation may be included. Title of unit-V may be renamed as digital instrumentation.
- 11.5.9 : In the course "Measurement and Instrumentation Laboratory", the experiment on hall effect sensor may be included.
- 11.5.10 : In the course "signals and systems", the contents such as unit impulse and notion of frequency response and its relation to the impulse response may be included.

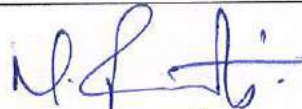
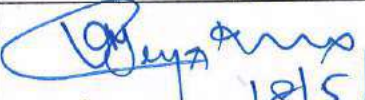


The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.


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

Dr. G.Kannayeram, Assistant Professor (Senior Grade)/EEE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.M.Willjuice Iruthayarajan, Chairman,BoS/EEE	
Internal Members	
Dr.L.Kalaivani Professor/ EEE	
Dr.R.V.Maheswari Professor/ EEE	
Dr.M.Ravindran Associate Professor (S.G) / EEE	
Dr.G.Kannayeram Assistant Professor(S.G) / EEE	
Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	
Academic Experts	
Dr. M. Saravanan, Professor/EEE, Thiagarajar College of Engineering, Madurai.	
Dr. V. Sankaranarayanan, Associate Professor/EEE, National Institute of Technology, Trichy	
University Nominees	
Dr. C. Ponmani, Assistant Professor/EEE, Government College of Engineering, Tirunelveli.	
Industrial Experts	
Dr. Santosh Kumar Annadurai, GE, GIS R&D Centre, Unit R&DHead, Padappai, Chennai.	
Dr.Hariram satheesh, Principal Scientist, ABB Global Industries and Services Ltd, Bangalore	

Mr. M. Ramesh, Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	 18/5/19.
Mr.R.Jayakumar, Delivery Manager, Ford Motor Company, Chennai.	 18/5/2019
<i>Student Members Nominated by the HOD</i>	
Mr. K. Shunmuga Sundaram, Pre-Final Year /EEE National Engineering College, Kovilpatti	 18/5/2019
Ms. M. Vavuniya, Pre-Final Year /EEE National Engineering College, Kovilpatti	 18/5/19


CHAIRMAN
BOARD OF STUDIES

Action Taken on Suggestions from 10th BOS Meeting

Suggestions	Action Taken
<p>In the course "Basic Electrical and Electronics Engineering", content related to theorems may be included as per AICTE model Curriculum. In order to update the latest development, topic "multifunction meter" in measurement unit should be given.</p>	<p>Suggestions have been carried out by including multifunction meter in unit III of the course "Basic Electrical and Electronics Engineering".</p>
<p>In the course "Basic Electrical Engineering", the topics "power converters for speed control and inverters" may be included in the syllabus.</p>	<p>Suggestions have been carried out by including the topic "Speed Control of DC Motors with Power Converters." In unit III of the course "Basic Electrical Engineering".</p>
<p>In the laboratory courses "Basic Electrical and Electronics Engineering Laboratory and Basic Electrical Engineering Laboratory", experiments related to general study should be removed</p>	<p>Suggestions have been carried out by removing general study related experiments in both laboratory courses.</p>
<p>In M.E High Voltage Engineering Curriculum "Insulation Technology" course should be given as program core course and "Design of Insulation for High Voltage Apparatus" may be moved to program elective course</p>	<p>Suggestion has been incorporated in curriculum</p>
<p>In the course "Design of Insulation for High Voltage Apparatus", the contents related to electrostatic and electromagnetic shunts and stress relieving techniques may be included.</p>	<p>Suggestions have been carried out by adding contents related to electrostatic and electromagnetic shunts and stress relieving techniques in unit II of the course "Design of Insulation for High Voltage Apparatus".</p>
<p>The course title "Electrical Power System Transients", may be renamed as "Electrical Transients in Power System". The UNIT-IV title may be changed.</p>	<p>Suggestions have been incorporated in course "Electrical Transients in Power System".</p>
<p>The course title "Fundamentals of Nano Technology", may be renamed as "Nano Technology".</p>	<p>Suggestion has been incorporated by modifying course title</p>

Handwritten signature in red ink

Department of Information Technology

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

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

www.nec.edu.in

11th Board of studies Meeting in the Department of
Information Technology

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

Date & Time: 04.05.2019 & 11.00 a.m.

Agenda

- BoS / IT 11.1 : Welcome address and Opening Remarks by Chairman, Board of studies in the department of Information Technology
- BoS / IT 11.2 : Confirmation of the Minutes of the 10th meeting of Board of studies in the department of Information Technology held on 27th OCT 2018 and Action taken report of 10th meeting of Board of studies
- BoS / IT 11.3 : Business brought forward by the Chairman, Board of studies
- 11.3.1 Finalization of Second Year Syllabus under R-2019
- 11.3.2 Finalization of M.Tech (Information and CyberWarfare) Syllabus under R-2019
- 11.3.3 One credit courses recommended to be included under R-2015
- BoS / IT 11.4 : Any other items
- BoS / IT 11.5 : Suggestions given by the BoS Members

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

F. No. 11.1/NEC/ IT/2018-19

04th May, 2019

Dear Sir/Madam,

Sub: Minutes of the 11th Meeting of the Board of studies in the Information Technology - Reg.

Kindly find attached herewith the Minutes of the 11th Meeting of Board of studies of the Information Technology of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 04thMay, 2019 at 11.00 AM in the department of Information Technology of National Engineering College. Hard copy of the Minutes is also being sent to you by speed post.

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

Yours Sincerely


(Dr.D.Manimegalai)

Department of Information Technology

MINUTES of 11th Meeting of the Board of studies held on
04thMay, 2019 at 11.00 AM

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

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 11th Meeting of the Board of studies of the Information Technology was held on 04th May 2019 at 11.00 AM in the Department of Information Technology of the National Engineering College, K.R.Nagar, Kovilpatti – 628503

1. The following members were present:

1.	Dr.D.Manimegalai	Chairman
2.	Dr.V.Seenivasagam, Prof. & COE	Internal Members
3.	Dr.B.Paramasivan, Professor	
4.	Dr.R.Muthukkumar, Asst. Prof. (SG)	
5.	Mr.V.Manimaran, Asst. Prof. (SG)	
6.	Mr.S.Vimal, Asst. Prof. (SG)	
7.	Ms.V.Anitha,AP	
8.	Ms.R.Priyadharshini,AP	
9.	Dr.P.Yogesh, Professor, Department of Information Science and Technology, Anna University, Chennai.	Academic Expert
10.	Dr. P.Latha, Professor& Head / Department of (EEE & CSE), Government College of Engineering, Tirunelveli	University Nominee
11.	Mr. Somu Chockalingam, Director, Doyen Systems Pvt Ltd Ekkatuthangal, Guindy, Chennai.	Alumni Expert
12.	Dr.A.Soundarrajan Professor, Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore.	Special Invitee
13.	Mr.Antony Arravindh, Senior Project Manager, HCL Technologies, Chennai.	Industrial Expert
14.	Dr.K.M.Suceendran, General Manager, Tata Consultancy Services, Chennai.	Industrial Expert
15.	Ram Prasath. M, Final year	Student Members
16.	Nabishathul Missriya. A, Final year	

2. The Industrial expert Mr.Ravishankar, AVP - Head of K7 Academy, Chennai and the Special Invitee Shri. E. Khalieraaj Regional Director, National Cyber Defence Research Centre (NCDRC) Team, New Delhi could not attend the meeting due to their prior commitments and unavoidable reasons and was granted leave of absence.

BoS / IT 11.1	:	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 11 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / IT 11.2	:	TO CONFIRM THE MINUTES OF TENTH BOS MEETING HELD ON 27 th OCTOBER, 2018
		The minutes of the Tenth Board of Studies meeting held on 27 th October, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 10 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure I</i>)
BoS / IT 11.3.1	:	TO FINALIZE THE SECOND YEAR SYLLABUS UNDER R-2019
	:	RESOLVED TO finalize the Second year Syllabus under R-2019
BoS / IT 11.3.2	:	TO FINALIZE M.TECH (INFORMATION AND CYBERWARFARE) SYLLABUS UNDER R-2019
		RESOLVED TO finalize M.Tech (Information and Cyberwarfare) Syllabus under R-2019
BoS / IT 11.3.3	:	TO RECOMMEND ONE CREDIT COURSES TO BE INCLUDED UNDER R-2015
		RESOLVED TO recommend One Credit Courses To Be Included Under R-2015
BoS / IT 11.4	:	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

		On the whole, the proposed second year syllabus and M.Tech syllabus under R-2019 was very much appreciated by all members. They also congratulated the faculty members for their team efforts towards continuing Education.
BoS / IT 11.5	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
11.5.1	:	<i>Total No. of hours for the subject Discrete Mathematics must be 12 for each Unit.</i>
11.5.2	:	<i>In Statistics and Numerical Methods unit 1,2 and 3 must include Statistics and units 4,5 should be covering Numerical Methods.</i>
11.5.3	:	<i>In Communication Skills Laboratory students must be given training for writing practices,</i>
11.5.4	:	<i>The knowledge level of the course outcome (CO1) in Data structures must be K1 or K2 and not K3. Case Study must be included as one of the exercises in Data structures Laboratory.</i>
11.5.5	:	<i>In Object Oriented Programming Laboratory some exercises are found to be more generic. So it asked to be changed into specific programs.</i>
11.5.6	:	<i>In Computer Organization and Architecture Unit-3 must comprise concepts of pipeline and parallel processing. Book named Computer System Architecture by Morris Mano is asked to be added under Reference Books.</i>
11.5.7	:	<i>A prerequisite of Computer Organization and Architecture must be added for the subject Operating Systems Operating Systems Laboratory must include exercises related to Infrastructure service, Linux Administrator.</i>
11.5.8	:	<i>In Database Management Systems CO5 must be reframed with knowledge level (K1) In Database Management Systems Laboratory CO2 must be reframed</i>
11.5.9	:	<i>Unit-5 of Computer Networks must include protocols like I2B,C2B etc.,</i>
11.5.10	:	<i>Unit-5 of Principles of Data Communication must be changed as wireless communication</i>
11.5.11	:	<i>Syllabus for M.Tech (Information and CyberWarfare) under R-2019 has been discussed</i>
11.5.12	:	<i>One credit courses that are to be included under R-2015 are also recommended</i>


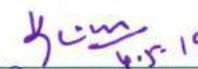

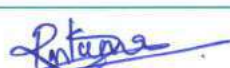
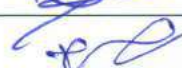

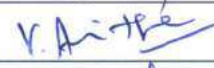


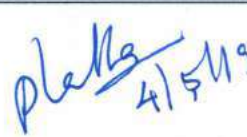

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the curriculum.

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

- a) The syllabus under Regulations 2019 for II Year B.Tech. Information Technology and M.Tech. IT - Information and Cyber Warfare
- b) The Incorporation of One credit courses proposed under Regulations 2015.

Mr.V.Manimaran, Asst. Prof. (SG) 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.B.Paramasivan, Professor	
Dr.R.Muthukkumar, Asst. Prof. (SG)	
Mr.V.Manimaran, Asst. Prof. (SG)	
Mr.S.Vimal, Asst. Prof. (SG)	
Ms.V.Anitha,AP	
Ms.R.Priyadharshini,AP	
Academic Expert	
Dr.P.Yogesh, Professor, Department of Information Science and Technology, Anna University, Chennai.	
University Nominees	
Dr.P.Latha Professor & Head, Department of (EEE & CSE), GCE, Tuirunelveli	
Industrial Expert	
Mr.Antony Arravindh, Senior Project Manager, HCL Technologies, Chennai.	

Dr.K.M.Suceendran, General Manager, Tata Consultancy Services, Chennai.	<i>Kmsuceendras</i>
Alumni Expert	
Mr. Somu Chockalingam, Director, Doyen Systems Pvt Ltd Ekkatuthangal, Guindy, Chennai.	<i>C. Somu</i>
Special Invitee	
Dr.A.Soundarrajan Professor, Department of Electrical and Electronics Engineering, PSG College of Technology,Coimbatore.	<i>A.S.</i> 4/5/19
Student Members	
Ram Prasath. M, Final year	<i>R.P.</i>
Nabishathul Missriya. A, Final year	<i>N.M.</i>

D.H.
CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 10th BoS Meeting

As per BOS Committee suggestion,

- **Information Technology Essentials** is given in Third Semester itself for the students to study the fundamentals of IT and **Principles of Data Communication** is given in Fourth Semester
- Subjects such as **Information Visualization, R programming, Cloud Computing, Compiler Design** are included under Electives.
- **Embedded System** is included in Fifth Semester



**CHAIRMAN
BOARD OF STUDIES**

Department of Civil Engineering

MINUTES of the 8th Meeting of the Board of Studies held on
03rd May 2019, 11:45 am

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

Department of Civil Engineering

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

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

www.nec.edu.in

8th Board of Studies Meeting in the Department of
Civil Engineering

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

Date & Time:03.05.2019& 11.45 am

Agenda

BoS / CIVIL8.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Civil Engineering
BoS / CIVIL8.2	:	Confirmation of the Minutes of the 7 th meeting of Board of studies in the department of Civil Engineering held on 7 th May 2018 and Action taken report of 7 th meeting of Board of studies
BoS / CIVIL8.3	:	Business brought forward by the Chairman, Board of studies 8.3.1 The Curriculum and Syllabus of Third and Fourth Semester for UG Degree Programme under Regulation 2019. 8.3.2 Modification in Curriculum R 2019. 8.3.3 Approval of List of board of examiners.
BoS / CIVIL8.4	:	Any other items
BoS / CIVIL8.5	:	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/Civil Engg.

03.05.2019

Dear Sir/Madam,

Sub: Minutes of the 8th Meeting of the Board of Studies in the Civil Engineering - Reg.

Kindly find attached herewith the Minutes of the 8th Meeting of Board of studies of the Civil Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 03.05.2019 at 11.45 AM in the 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 hodcivil@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.C.PuthiyaSekar

Department of Civil Engineering

MINUTES OF THE MEETING

The 8th Meeting of the Board of Studies of the Civil Engineering was held on 3rd May 2019 at 11:45 am in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti- 628503

1. The following members were present:

1	Dr.C.PuthiyaSekar Professor & Head	Chairman
2	Mrs.R.Venkada Lakshmi AP-Civil	Internal Members
3	Mr.S.Sebastin AP-Civil	
4	Ms.C.ChellaGifita AP-Civil	
5	Ms.S.JansiSheela AP-Civil	
6	Ms.A.Gayathri AP-Civil	
7	Mr.R.Sivasankar AP-Civil	
8	Mr.S.Daniel Raj AP-Civil	
9	Mr.M.Franchis David AP-Civil	
10	Mr.S.Parthiba Raja AP-Civil	
11	Ms.K.MuthuPrema AP-Civil	
12	Dr.P.Jayabalan Professor , Department of Civil Engineering, National Institute of Technology Trichy	Academic Expert
13	Dr.K.Premalatha, Professor, Department of Civil Engineering, College of Engineering Guindy campus, Anna University, Chennai -600025.	
14	Dr.G.Elangovan, Associate Professor, Department of Civil Engineering, University College of Engineering , Pattukkottai	University Nominee
15	Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar college of Engineering, Madurai- 625 015.	Special Invitee
16	Ms.Anushri R, Final year	Student Members
17	Ms.GomathiNayagiP, Final year	

The industrial experts, Dr.S.Selvan, Joint Chief Environmental Engineer, TNPC, Chennai, Mr.P.Venkatesan, Managing Director, Methras Industries Pvt Ltd, Chennai, Mr.Raghuraman Jeyaramalu, Larson & toubro Ltd, chennai and Special invitee Dr.T.Baskaran, Associate professor, Department of Civil Engineering , TCE , Madurai Could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

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

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

BoS / CIVIL 8.2 : TO CONFIRM THE MINUTES OF SEVENTH BOS MEETING HELD ON 7th MAY, 2018

The minutes of the **Seventh Board of Studies meeting** held on 7th MAY, 2018 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 8th Academic council.

BoS/CIVIL 8.3.1 : **TO CONFIRM AND APPROVE THE CURRICULUM AND SYLLABUS OF THIRD AND FOURTH SEMESTER FOR THE UG DEGREE PROGRAMME TO BE PROPOSED UNDER R-2019**

RESOLVED TO approve the Curriculum and Syllabus for the UG degree programme to be proposed under R-2019

BoS/CIVIL 8.3.2 **TO CONFIRM AND APPROVE THE MODIFICATION IN CURRICULUM OF REGULATION 2019**

RESOLVED TO approve the modification of Curriculum for the UG degree programme to be proposed under R-2019.

BoS/CIVIL 8.3.2 **TO CONFIRM AND APPROVE THE LIST OF BOARD OF EXAMINERS**
RESOLVED TO approve the list of Board of Examiner enclosed in *Annexure I*

BoS / CIVIL 8.4 : **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS**

The BoS members had a discussion with the internal members regarding the proposed Curriculum under R-2019

BoS / CIVIL 8.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

8.5.1 Basic Mechanical Engineering course in semester 2 is shifted to semester 3 and it is combined with Energy Science Engineering.

8.5.2 Third semester course in Engineering Survey is separated as Engineering Survey I in semester 3 and Engineering Survey II in semester 4 .

- 8.5.3 In a similar way Engineering Survey Practical in third semester course is separated as Engineering survey Practical I and Engineering Survey Practical II in third and fourth semester respectively.
- 8.5.4 The academic experts of Board of studies recommended to shift the Engineering Geology course in third semester to Program Elective Course under Geotechnical Engineering domain.
- 8.5.5 Highway Engineering course in fourth semester curriculum is suggested to be included in fifth semester courses.
- 8.5.6 It is recommended to separate the Water & Waste water treatment & Management fifth semester course as (i) Water supply treatment and management (2) Waste water treatment and management .Serial No.(1) is included in semester 4 and Serial No.(2) in fifth semester.
- 8.5.7 Instead of Highway Engineering course in fourth semester it is advised to introduce a course on Water supply treatment and management.
- 8.5.8 As per recommendation given by the academic experts of BoS meeting Project management and Finance course is shifted to 6th or 7th semester.
- 8.5.9 Construction material laboratory course in 4th semester is combined with 6th semester Highway Engineering Laboratory course and it is renamed as Concrete and Highway Engineering Laboratory as a fifth semester laboratory course.
- 8.5.10 BoS academic experts suggested to shift the 6th semester Structural Analysis II course to Programme Elective course under Structural Engineering domain.
- 8.5.11 Experts renamed the Basic Geotechnical course in fourth semester as Soil mechanics.


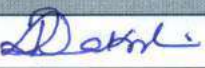
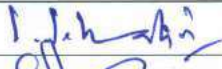


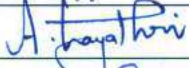

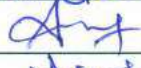
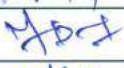
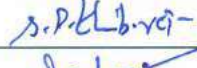


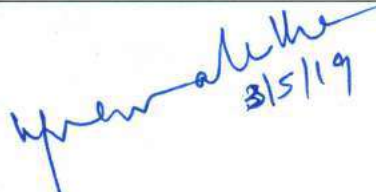

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

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

- a) The second year syllabus for UG degree programme under R 2019.
- b) The modification in curriculum under R 2019.
- c) The list of Board of Examiners.

Mrs.R.Venkada Lakshmi AP-Civil thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Board Chairman	
Dr.C.PuthiyaSekar Professor & Head, Department of civil Engineering, National Engineering college, K.R.Nagar, Kovilpatti-628503.	
Internal Members	
Mrs.R.Venkada Lakshmi AP-Civil	
Mr.S.Sebastin AP-Civil	
Ms.C.ChellaGifita AP-Civil	
Ms.S.JansiSheela AP-Civil	
Ms.A.Gayathri AP-Civil	
Mr.R.Sivasankar AP-Civil	
Mr.S.Daniel Raj AP-Civil	
Mr.M.Franchis David AP-Civil	
Mr.S.Parthiba Raja AP-Civil	
Ms.K.MuthuPrema AP-Civil	
Academic Experts	
Dr.P.Jayabalan Professor , Department of Civil Engineering, National Institute of Technology, Trichy – 620015.	
Dr.K.Premalatha, Professor, Department of Civil Engineering, College of Engineering Guindy campus, Anna University, Chennai –600025.	
University Nominees	
Dr.G.Elangovan, Associate Professor, Department of Civil Engineering, University College of Engineering , Pattukkottai – 614 701.	

Special Invitees

Dr.T.Velrajan,
Professor,
Department of Civil Engineering,
Thiagarajar college of Engineering,
Madurai- 625 015.

T. Velrajan
- 3/5/2019

Student Members Nominated by the HOD

Ms.Anushri R –Final Civil

R Anushri

Mr.GomathiNayagi P – Final Civil

G. P.

Chairman

CHAIRMAN

BOARD OF STUDIES