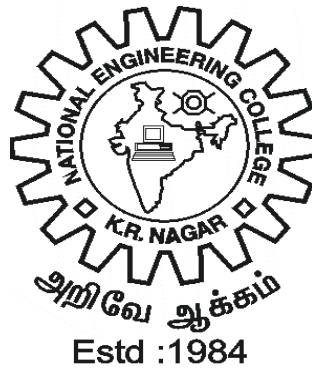


NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University Chennai)

K.R.NAGAR, KOVILPATTI – 628 503



13th BOARD OF STUDIES MEETING – MINUTES

Google Online Meet
PERIOD - MAY 2020

Department of Mechanical Engineering

MINUTES of 13th Meeting of the Board of studies held on
23rd May, 2020 at 10.30 a.m.

Mode: Through Online (**Meeting Link: meet.google.com/xmo-ejcd-dkj**)

National Engineering College, K.R.Nagar, Kovilpatti – 628503
(An Autonomous Institution -Affiliated to Anna University, Chennai)
www.nec.edu.in

Department of Mechanical Engineering

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

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

www.nec.edu.in

13th Board of studies Meeting in the Department of **Mechanical Engineering**

Mode: Through Online (**Meeting Link: meet.google.com/xmo-ejcd-dkj**)

Venue: Smart Class Room, Department of Mechanical Engineering,
National Engineering College,

Date & Time: 23.05.2020 & 10.30 a.m.

AGENDA

The 13th Board of studies Meeting is convened to get the approval for the various activities that are carried out through online to engage the students academically during the COVID -19 lockdown periods.

BoS / MECH13.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Mechanical Engineering
BoS / MECH13.2	:	Confirmation of the Minutes of the 12 th meeting of Board of studies in the department of Mechanical Engineering held on November 9, 2019 and Action taken report of 12 th meeting of Board of studies
BoS / MECH13.3	:	Business brought forward by the Chairman, Board of studies
		13.3.1. Inclusion of New one-credit courses under R2015 1) Digital Manufacturing 2) CDIO Approach in Product Design and Project Management 3) Codes and Standards
		13.3.2 Conducting classes for the remaining portion of the regular courses left out due to lockdown and internal assessment test through online LMS during Phase-I COVID-19 lockdown period for UG and PG programme

	13.3.3.	Offering an additional one-credit course for the VI semester students during the Phase II COVID-19 lockdown period and conducting end semester examination for the course along with the current semester courses
	13.3.4.	Offering one open elective course (Trans-disciplinary) for the VI semester students during the Phase III & IV COVID-19 lockdown period and conducting end semester examination for the course along with the current semester courses
	13.3.5	Conducting practical courses of seventh semester such as Mini project, Research paper and patent review-seminar for the VI semester students during Phase III & IV COVID-19 lockdown period and conducting end semester examination in the next semester (November/December-2020).
	13.3.6	Offering the following Internship programs for the VI semester students during the Phase III & IV COVID-19 lockdown period as per the AICTE recommendations <ol style="list-style-type: none"> 1) Hands on Training on Solid Modelling and Mechanism Simulation 2) Hands on Training on Engineering Simulations 3) Hands on Training on Design of Heat Exchanger 4) CNC Programming and Training 5) Hands on Training on Industrial Automation
	13.3.7	Offering two one-credit courses for the IV semester students during the Phase II COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses
	13.3.8	Offering one core course and two open elective courses for the IV semester students during the Phase III & IV COVID-19 lockdown period and conducting end semester examination for

		<p>these courses along with the current semester courses</p> <p>13.3.9 Increasing maximum credits to be earned from 30 to 35 per semester for the IV and VI semesters in the UG Programme under R2015</p> <p>13.3.10 Conducting End semester evaluation for the VIII semester course 15ME82C-Project Work through online.</p> <p>13.3.11 Syllabus for Open elective course – I under Regulation 2019.</p> <ol style="list-style-type: none"> 1) Laser Technology 2) Fundamentals of Nano Science 3) Corrosion Science and Engineering 4) Polymer Science and Technology <p>13.3.12 Syllabus for Additional elective under Regulation 2019</p> <ol style="list-style-type: none"> 1) Advance Vibration Engineering 2) Machinery Fault Diagnosis 3) Rotor Dynamics 4) Optimization Techniques
BoS / MECH13.4	:	Suggestions given by the BOS Members
BoS / MECH13.5	:	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

23rdMay, 2020

Dear Sir/Madam,

Sub: *Minutes of the 13th Meeting of the Board of studies in Mechanical Engineering - Reg.*

Kindly find the attached herewith the Minutes of the 13th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 23rd May 2020 at 10.30 a.m. through online.

It is requested that comments on the Minutes, if any, may please be sent by email at hodmech@nec.edu.in 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.Manisekar)

Department of Mechanical Engineering

MINUTES OF THE MEETING

The 13th Meeting of the Board of studies of the Mechanical Engineering was held on 23rd May 2020 at 10.30 am through online.

1. The following members were present:

1.	Dr.K.Manisekar, Professor Prof & Head	Chairman
2.	Dr. D.Ravindran, Professor	Internal Members
3.	Dr.S.Iyah Raja, Asso. Professor	
4.	Dr.D.Venkat Kumar, Asso. Professor	
5.	Dr. M.Kathiresan, Asso. Professor	
6.	Mr.P.Ramanan, Assistant Professor (S.G)	
7.	Dr.D. Vignesh Kumar, Asst. Prof. (SG)	
8.	Dr.I. Sankar, Assistant Professor (S.G)	
9.	Dr.F.Michael Thomas Rex, Asst. Prof. (SG)	
10.	Dr. P. Hariharasakthisudhan, Asst. Prof. (SG)	
11.	Mr. M.Vivekanandan, Adjunct Faculty	
12.	Mr.S.S.Ananthan, Adjunct Faculty	
13.	Dr.D.Mohanlal, Professor, Department of Mechanical Engineering, CEG Campus, Anna University, Chennai-600 025	University Nominee
14.	Dr. R. Velraj Professor & Director, Institute for Energy Studies, CEG Anna University, Chennai	Academic Experts
15.	Dr.-Ing. M. Duraiselvam Professor, Department of Production Engineering, National Institute of Technology, Trichy	
16.	Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai	Industrial Expert related to Placement
17.	Mr. S. Suresh Senior Vice President and Business Head (EM), Wheels India Limited, Padi, Chennai	

18.	Dr. K. Murugan Scientist –E, Centre for Engineered Coatings (CEC), ARCI, Hyderabad – 500 005, Telangana	Meritorious Alumnus Nominated by the Principal
19.	Dr. A.Arockiarajan Professor, Department of Applied Mechanics, Indian Institute of Technology, Chennai	Special Invitees
20.	Mr.P.Muniyandi Principal Scientific Officer Bharat Earth Movers Limited New Thippasandra, Bengaluru – 56007	
21.	Mr.P.S.Sriram Vice President – Operations (Plant – Head) Daimler india commercial vehicles, Chennai.	
22.	Mr. Vinoth Kumar. M Plant Head, Interplex Electronics India Pvt. Ltd., Chennai	
23.	Mr.P. Dayalen, II Year Student	Student Members
24.	Mr. S. Venkatesh, II Year Student	
25.	Mr. M. Ajees Aboobucker, III Year Student	
26.	Mr. T. Ari Sankar, III Year Student	

The Academic Expert Dr. S.Venugopal, Former Director, Materials Group, IGCAR, Visiting Professor, Indian Institute of Technology, Chennai Industrial Expert Mr. Raju Sreeram N. D, Managing Director, Vijaya Lakshmi Mills Pvt. Ltd, Rajapalayam could not attend the meeting due to his prior commitments and unavoidable reasons and were granted leave of absence.

BoS / MECH13.1	:	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 13 th Board of Studies and thanked each of them for sparing their valuable time to attend the meeting.
BoS / MECH 13.2	:	TO CONFIRM THE MINUTES OF TWELFTH BOS MEETING HELD ON 9 th November, 2019

		The minutes of the Twelfth Board of Studies meeting held on 9 th November, 2019 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 12 th Academic council.
BoS / MECH 13.3.1	:	TO CONFIRM AND APPROVE the syllabus of new one-credit courses in B.E. Mechanical Engineering Programme under Regulation 2015
		➤ RESOLVED TO APPROVE the syllabus of new one-credit courses in B.E. Mechanical Engineering Programme under Regulation 2015
BoS / MECH 13.3.2	:	TO CONFIRM AND APPROVE for conducting classes for the remaining portion of the regular courses left out due to lockdown and internal assessment tests through online LMS during Phase-I COVID-19 lockdown period for UG and PG programmes.
		➤ RESOLVED TO APPROVE for conducting classes for the remaining portion of the regular courses left out due to lockdown and internal assessment tests through online LMS during Phase-I COVID-19 lockdown period for UG and PG programmes
BoS / MECH 13.3.3	:	TO CONFIRM AND APPROVE for offering an additional one-credit course for the VI semester students during the Phase II COVID-19 lock down period and conducting end semester examination for the course along with the current semester courses
		➤ RESOLVED TO APPROVE for offering an additional one-credit course for the VI semester students during the Phase II COVID-19 lock down period and conducting end semester examination for the course along with the current semester courses
BoS / MECH 13.3.4	:	TO CONFIRM AND APPROVE for offering one open elective course (Trans-disciplinary) for the VI semester students during the Phase III & IV COVID-19 lock down period and conducting end semester examination for the course along with the current semester courses

		<p>➤ RESOLVED TO APPROVE for offering one open elective course (Trans-disciplinary) for the VI semester students during the Phase III & IV COVID-19 lock down period and conducting end semester examination for the course along with the current semester courses</p>
BoS / MECH 13.3.5	:	<p>TO CONFIRM AND APPROVE for conducting practical courses of the seventh semester such as Mini project, Research paper and patent review-seminar for the VI semester students during Phase III & IV COVID-19 lockdown period and conducting end semester examination in the next semester (November/December-2020).</p>
		<p>➤ RESOLVED TO APPROVE for conducting practical courses of the seventh semester such as Mini project, Research paper and patent review-seminar for the VI semester students during Phase III & IV COVID-19 lockdown period and conducting end semester examination in the next semester (November/December-2020).</p>
BoS / MECH 13.3.6	:	<p>TO CONFIRM AND APPROVE for offering Internship for the VI semester students during the Phase III& IV COVID-19 lockdown period as per the AICTE recommendations</p>
		<p>➤ RESOLVED TO APPROVE for offering Internship for the VI semester students during the Phase III& IV COVID-19 lockdown period as per the AICTE recommendations.</p>
BoS / MECH 13.3.7	:	<p>TO CONFIRM AND APPROVE for offering two one-credit courses for the IV semester students during the Phase II COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses</p>
		<p>➤ RESOLVED TO APPROVE for offering two one-credit courses for the IV semester students during the Phase II COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses</p>
BoS / MECH 13.3.8	:	<p>TO CONFIRM AND APPROVE for offering one core course and two open elective courses for the IV semester students</p>

		during the Phase III & IV COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses
		➤ RESOLVED TO APPROVE for offering one core course and two open elective courses for the IV semester students during the Phase III & IV COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses
BoS / MECH 13.3.9	:	TO CONFIRM AND APPROVE for increasing maximum credits to be earned from 30 to 35 per semester for the IV and VI semesters in the UG Programme under R2015
		➤ RESOLVED TO APPROVE for increasing maximum credits to be earned from 30 to 35 per semester for the IV and VI semesters in the UG Programme under R2015
BoS / MECH 13.3.10	:	TO CONFIRM AND APPROVE for Conducting End semester evaluation for the VIII semester course 15ME82C-Project Work through online.
		➤ RESOLVED TO APPROVE for conducting End semester evaluation for the VIII semester course 15ME82C-Project Work through online.
BoS / MECH 13.3.11	:	TO CONFIRM AND APPROVE the syllabus of new open elective-I courses in B.E. Mechanical Engineering Programme under Regulation 2019
		➤ RESOLVED TO APPROVE the syllabus of new open elective-I courses in B.E. Mechanical Engineering Programme under Regulation 2019
BoS / MECH 13.3.12	:	TO CONFIRM AND APPROVE the syllabus of new additional elective courses in M.E. Energy Engineering Programme under Regulation 2019
		➤ RESOLVED TO APPROVE the syllabus of new additional elective courses in M.E. Energy Engineering Programme under Regulation 2019
BoS / MECH 13.4	:	Suggestions Given by the Members

13.4.1	:	The limitations of digital manufacturing and machine learning concepts can be included in the syllabus of one credit course “Digital Manufacturing”.
13.4.2	:	All kind of standards may be incorporated into the syllabus of one credit course “Codes and Standards”
13.4.3	:	The syllabus of open elective course “Laser Technology” may be revised. The applications of laser technology in mechanical engineering like laser cutting, laser welding and surface modification using lasers may be added in the syllabus. The laser selection procedure for a particular material may also be added to the syllabus. The hologram topics may not be suitable for mechanical students and may be removed.
13.4.4	:	Engineering applications of Nano-technology may be incorporated in the syllabus of the open elective course “Fundamentals of Nano science”.
13.4.5	:	FTIR analysis and mechanical testing of polymers can be included in the syllabus of the open elective course “Polymer Science and Technology”. The title of Unit-V may be renamed as “synthesis of polymers”.
13.4.6	:	The title of the Unit-V may be modified as “Recent advancements in corrosion protection technique” in the open elective course “Corrosion Science and Engineering”
13.4.7	:	The Members of BOS appreciated the efforts taken by the department during COVID-19 lockdown period and advised the department to plan for conducting the next semester courses.

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) Syllabus of new one credit courses in B.E. Mechanical Engineering

Programme under Regulation 2015

- b) Conducting classes for the remaining portion of the regular courses and internal assessment tests through online LMS during Phase-I COVID-19 lockdown period for UG and PG programme
- c) Offering an additional one-credit course **for the VI semester** students during the Phase II COVID-19 lockdown period and conducting end semester examination for the course along with the current semester courses
- d) Offering one open elective course (Trans-disciplinary) **for the VI semester** students during the Phase III & IV COVID-19 lockdown period and conducting end semester examination for the course along with the current semester courses
- e) Conducting practical courses of the seventh semester such as Mini project, Research paper and patent review-seminar **for the VI semester students** during Phase III & IV COVID-19 lockdown period and conducting end semester examination in the next semester (November/December-2020).
- f) Offering Internship **for the VI semester students** during the Phase III & IV COVID-19 lockdown period as per the AICTE recommendations
- g) Offering two one-credit courses **for the IV semester students** during the Phase-II COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses
- h) Offering one core course and two open elective courses **for the IV semester students** during the Phase III & IV COVID-19 lockdown period and conducting end semester examination for these courses along with the current semester courses

- i) Increasing maximum credits to be earned from 30 to 35 per semester for the IV and VI semesters in the UG Programme under R2015
- j) Conducting End semester evaluation for the VIII semester course 15ME82C-Project Work through online.
- k) Syllabus of new open elective-I courses in B.E. Mechanical Engineering Programme under Regulation 2019
- l) Syllabus of new additional elective courses in M.E. Energy Engineering Programme under Regulation 2019

Dr.S.Iyah Raja, Associate professor (SG) thanked all the members for their kind cooperation and the meeting came to an end.

**CHAIRMAN
BOARD OF STUDIES**

Department of Mechanical Engineering on 23.05.2020

Google online meet link: <https://meet.google.com/xmo-ejcd-dkj>

The screenshot shows a Google Meet window with a presentation slide titled "HANDS ON TRAINING ON INDUSTRIAL AUTOMATION". The slide content is as follows:

Outcome:

Upon completion of this internship, the students will be able to

a) design and develop pneumatic circuits for specific industrial application such as earth movers, simple lathe, packing circuits etc.

1. Basic of Industrial Automation and Its components	20
2. Simulation of Hydraulic and Pneumatic Circuits using Simulation Software	10
3. Fault Finding of Hydraulic and Pneumatic Systems	10
4. Basics of PLC Design	10
5. Hands on Training (includes industrial training)	70

The meeting interface includes a "REC" button, a "HOD Mech NEC is presenting" notification, and a list of participants: "michel mach and 17 more", "VELRAJ RAMALINGAM", and "K Marugan".

This screenshot shows a close-up of a participant in a white shirt and glasses. The meeting interface includes a "REC" button, a "SRI PAN-SUN and 13 more" notification, and a list of participants: "K Marugan", "sas ajiaraj", "Kandasubburaj", "Andrews A", and "HOD Mech NEC". A notification at the bottom right states "HOD Mech NEC joined".

Department of Electronics and Communication Engineering

MINUTES 13th Meeting of the Board of studies held on
21st May, 2020 at 03.00PM

Venue: Conference Hall,
National Engineering College, K.R.Nagar, Kovilpatti– 628503
(through Google meet)

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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Department of Electronics and Communication Engineering

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

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

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13th Board of studies Meeting in the Department of
Electronics and Communication Engineering

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: <https://meet.google.com/smy-hhnn-jjc>

Date & Time: 21.05.2020 & 03.00 p.m.

AGENDA

ECE/BoS13.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Electronics and Communication Engineering
ECE/BoS 13.2	:	Confirmation of the Minutes and action taken report of the 12 th meeting of Board of studies in the Department of Electronics and Communication Engineering held on 2 nd November 2019.
ECE/BoS13.3	:	Business brought forward by the Chairman, Board of studies 13.3.1. Online Learning Management System (LMS) during Phase-I COVID-19 Lockdown period for UG-IV, VI, VIII Semester courses (R- 2015) and PG-II, IV semester courses. 13.3.2. Conduction of one credit courses (R-2015) during Phase II COVID -19 Lockdown period 13.3.3. Mini project, Research paper and Patent review, Comprehension (R-2015) conducted during Phase-II COVID-19 Lockdown period

		<p>13.3.4. Conduction of elective courses during Phase-III COVID-19 Lockdown period.</p> <p>13.3.5. Change in the maximum credit limit to be earned in a semester.</p> <p>13.3.6. Transfer of credits earned through online courses.</p> <p>13.3.7. Approval to Conduct Final year UG & PG project Viva without external examiner</p>
ECE/BoS 13.4	:	Any other items
ECE/BoS13.5	:	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. 1-2/NEC/Branch/ECE

22ndMay, 2020

Dear Sir/Madam,

Sub: *Minutes of the 13th Meeting of the Board of studies in Electronics and Communication Engineering - Reg.*

Kindly find attached herewith the minutes of the 13th Meeting of Board of studies of the Electronics and Communication Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 21st May, 2020 at 03.00PM in the conference hall of National Engineering college through google meet.

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) 22/5/2020

Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 12th Meeting of the Board of studies of the Electronics and Communication Engineering was held on 21st May, 2020 at 03.00 PM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti – 628503.

1. The following members were present:

1.	Dr.A.Shenbagavalli Professor & Head	Chairman
2.	Dr.S.Shunmugavel, Professor	Internal Members
3.	Dr.V.Vijayarangan, Professor	
4.	Dr.S.TamilSelvi, Professor	
5.	Dr.V.R.S.Mani, Asso. Prof. (SG)	
6.	Dr.T.S.Arun Samuel, Asso. Prof.	
7.	Mr.Deva Kumar, Asst. Prof. (SG)	
8.	Mr.T.Vijayanandh, Asst. Prof. (SG)	
9.	Dr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)	
10.	Mr. A.Saravana Selvan, Asst. Prof. (SG)	
11.	Mrs.R.Manjula Devi, Asst. Prof. (SG)	
12.	K.Subramanian, Asst. Prof. (SG)	
13.	Mr.C.Balamurugan, Asst. Prof. (SG)	
14.	Mr.M.Satheesh Kumar, Asst. Prof. (SG)	
15.	Mr.M.Sathishkumar, Asst. Prof	
16.	Dr. M. Meenakshi, Professor, Department of ECE, College of Engineering, Guindy Campus, Chennai.	Academic Expert
17.	Dr.M.Ganesh Madhan, Professor, Department of ECE Madras Institute of Technology, Anna University, Chennai.	
18.	Dr.Klutto Milleth, Chief Technologist	Alumni

	Centre of Excellence in Wireless Technology IIT Madras IIT Madras Research Park Taramani Chennai .	Member
19.	Mr.S.VijayBharat, Associate Vice President, Mistral Solutions Pvt Ltd, Bangaluru.	Industrial Experts
20.	Mr.Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran, Bangalore.	
21.	Mr. R Ravishankar, Associate Vice President, K7Computing, Chennai.	
22.	Mr.L.S.Lakshmanan, Senior HR, VVDN Technologies Pvt. Ltd., Chennai.	
23.	Mr.G.Prakash, 3 rd year ECE	Student Members
24.	Ms. Deepika, 2 nd year ECE	

2. The Industrial Expert member Mr.L.S.Lakshmanan, Senior HR, VVDN Technologies Pvt. Ltd., Chennai could not attend the meeting due to their prior commitments and unavoidable reasons.

BoS/ECE13.1 : 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 12th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/ECE 13.2 : TO CONFIRM THE MINUTES OF TWELFTH BOS MEETING HELD ON 02ND NOVEMBER 2020.

The minutes of the Twelfth Board of Studies meeting held on 2nd November 2020 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 12th Academic

council.

➤ Action Taken Report

(Enclosed in Annexure D)

BoS/ECE13.3.1 : Approval for conduction of left-over portions of regular courses, Internal Assessment Test 2 (IAT) and the evaluation through online Learning Management System (LMS) during Phase-I COVID-19 Lockdown period for all UG and PG Programmes.

Resolved to approve the online Learning Management System (LMS) during Phase-I COVID-19 Lockdown period for the UG and PG Programme in the Department.

BoS/ECE13.3.2 : Approval for course registration and conduction of one credit courses of the ensuing semester (odd semester academic year 2020-2021) including assessment of CO through online LMS during Phase II COVID -19 Lockdown period for Present II& III Year B.E./B.Tech Students and to conduct the end semester examination in this semester itself.

Resolved to approve the course registration and conduction of one credit courses of the ensuing semester.

BoS/ECE13.3.3 Approval for handling of ensuing semester practical courses of seventh semester (Mini project, Research paper and Patent review – seminar, Comprehension) during Phase-II COVID-19 Lockdown period for present III Year students and to conduct the end semester examination in the next semester.

Resolved to approve the handling of ensuing semester practical courses of seventh semester (Mini project, Research paper and Patent review – seminar, Comprehension) for present III Year students.

BoS/ECE13.3.4 Approval for course registration and conduction of one or two programme elective courses, open elective courses of the ensuing semester during Phase-III COVID-19 Lockdown period for II and III Year B.E./B.Tech. students complete the academic process through online LMS before 15th June 2020 and to conduct the end

semester examination in this semester itself.

Resolved to approve the course registration and conduction of one or two programme elective courses, open elective courses of the ensuing semester for II and III Year B.E./B.Tech. students.

BoS/ECE13.3.5 **Approval for increase of maximum credits to be earned as 36 for present II and III Year B.E./B.Tech. students in current IV and VI Semester respectively.**
Suggestions given by the BoS members as per the Appendix 13.5.4.

BoS/ECE13.3.6 **Approval for transfer of credits earned through online courses if any.**
Resolved to approve the transfer of credits earned through online courses like NPTEL.

BoS/ECE13.3.7 **Approval to conduct Final year UG & PG project Viva without external expert.**
Suggestions given by the BoS members as per the Appendix 13.5.6.

BoS/ECE 13.4 : **ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS**
Online Classes can be regularized during the upcoming semesters.

BoS/ECE 13.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

13.5.1 : Most of the theory-based learning and discussion orientated classes can be offered online mode. However, after relaxation, the students can have few staggered classes with discussions moderated by faculties before end semester exam.

13.5.2 : Since practical courses involve lab and requirement of equipment and team member interaction, the members suggested that

students can access the labs and college facilities in staggered mode to enable them to conduct outcome-based activities.

- 13.5.3 : Can approve 1-Credit and 3-Credit online courses, but conducting exams is of concern.
- 13.5.4 Regarding the increase of maximum credits to be earned as 36, the upper limit for the credit may be discussed with the University Academic affairs section.
- 13.5.5 : Recorded online classes in the form of video format may be disseminated to the students those who were not able to attend the classes lively due to internet problem.
- 13.5.6 : End Semester project viva voce for final year UG and PG (R-2015) maybe conducted with external members through online mode.
- 13.5.7 : It is recommended for one credit courses involved during lockdown period; the end semester exam for the same may be conducted along with the current semester paper (Even semester).
- 13.5.8 : The end semester exam for the 3- credit courses engaged during the lockdown period may be conducted during the next semester (Odd semester)

Dr.T.S.Arun Samuel, Associate Professor thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

Dr.A.Shenbagavalli, Professor& Head, Chairman
<i>Internal Members</i>
Dr.S.Shunmugavel, Professor
Dr.V.Vijayarangan, Professor
Dr.S.TamilSelvi, Professor
Dr.V.R.S.Mani, Asso. Prof. (SG)
Dr.T.S.Arun Samuel, Asso. Prof.
Mr.T.Deva Kumar, Asst. Prof. (SG)
Mr.T.Vijayanandh, Asst. Prof. (SG)
Dr.K.J.Prasanna Venkatesan, Asst. Prof. (SG)

Mr.A.Saravana Selvan, Asst. Prof. (SG)
Mrs.R.Manjula Devi, Asst. Prof. (SG)
K.Subramanian, Asst. Prof. (SG)
Mr.C.Balamurugan, Asst. Prof. (SG)
Mr.M.Satheesh Kumar, Asst. Prof. (SG)
Mr.M.Sathish Kumar, Asst. Prof
<i>Academic Experts</i>
Dr.M.Ganesh Madhan, Professor, Department of ECE Madras Institute of Technology campus, Anna University, Chennai
Dr. M. Meenakshi, Professor, Department of ECE, College of Engineering, Guindy Campus, Chennai
<i>Industrial Experts</i>
Mr.S.VijayBharat, Associate Vice President, Mistral Solutions Pvt Ltd, Chennai
Mr. R Ravishankar, Associate Vice President, K7Computing, Chennai.
Mr. Neelakandan Eswaran, Technical Unit Manager - ATE Test, Altran Technologies Pvt., Ltd., Bangalore.
<i>Alumni Member</i>
Dr.KluttoMilleth, Chief Technologist Centre of Excellence in Wireless Technology IIT Madras IIT Madras Research Park Taramani, Chennai.
<i>Student Members Nominated by the HOD</i>
Ms. G.Prakash, 3rd year ECE
Ms.Deepika, 2 nd year ECE


 CHAIRMAN 2/5/2020
 BOARD OF STUDIES

Annexure - I

Minutes of 12th BoS Meeting - Action Taken Report

S. No	Suggestion given by expert members	Action taken
1.	In Electromagnetic Waves course (5 th Semester), the content of the unit II and unit III may be swapped.	Implemented
2.	In computer architecture course (5 th Semester), title of unit IV may be changed from "Parallelism" to "Parallel Processing". Abbreviated words may be expanded in the overall course content.	Implemented
3.	In Linear integrated circuits course (5 th Semester), the title of unit I may be changed from "IC Fabrication and Circuit Configuration for Linear ICs" to "Overview of LIC". Linear regulator topic may be included in unit V	Implemented
4.	In digital signal processing course (5 th Semester), relation between DTFT & DFT and Z transform may be included in unit I.	Implemented
5.	The practical course titled Electromagnetic Waves Laboratory (5 th Semester), the experiments related to antenna may be removed. Experiments related to impedance matching based on smith chart may be included.	Implemented
6.	The practical course titled Digital Signal Processing Laboratory (5 th Semester), 3 rd experiment quality may be improved. Simple experiments may be clubbed in to single experiment. Repetitions may be removed in experiment content 4 and 5.	Implemented

7.	Measurement experiments may to be included in practical course titled Linear IC and Measurement Laboratory (5 th Semester).	Implemented
8.	In control system course (6 th Semester), unit II and unit III titles may be changed as time domain and frequency domain analysis respectively	Implemented
9.	In computer networks course (6 th Semester), the guided and unguided transmission media topics of unit I have to be more specific. In unit II, Wireless LANs topic may be changed as WLAN overview In unit V, the way of presenting the content may be changed as a statement from question format.	Implemented
10.	In VLSI course (6 th Semester), "SPICE tutorial" topic of unit I should be as "Introduction to SPICE". In unit V, the title may be changed to "Introduction to HDL".	Implemented
11.	In Antenna And Wave Propagation course (6 th Semester), MIMO antennas and beam forming can be included in Unit II. Antenna design, alignments and measurements have to be included in unit IV. Topics in unit IV related to beam forming may be moved to unit II.	Implemented
12.	The practical course titled Computer Networks Laboratory (6 th Semester), experiment no 9 may be removed and some new experiment may be included.	Implemented
13.	Mistral Solutions Private Limited, Bengaluru have proposed 5 courses. Embedded	Implemented

	architecture course may be introduced as a first course.	
14.	In M.E. Embedded System Technologies of PG R2019, the total content have to be re-modified in the special elective course "Modern Wireless Communications"	Implemented

Annexure – II

Courses Conducted in online mode during Lockdown

Programme Elective Courses

Course Code	Course Title	No. of students registered
15EC01E	Fundamentals of Digital Image Processing	28
15EC25E	Medical Electronics	40
15EC35E	Principles of Operating System	51

Open Elective Courses

Course Code	Course Title	No. of students registered
15ID02E	Disaster Management	69
15ID03E	Energy Engineering	17
15IT15E	Internet of Things	07
15IT21E	Social Networking	22

One Credit Courses

Subject Code	Subject Title	No. of students registered
15EC12L	Practical Antenna Design : From theory to Practice (T)	28
15EC17L	Printed Circuit Board Design(T)	56
15EC26L	Core Java Fundamentals (P)	22
15EC10L	Introduction to OFDM (T)	05
15EC18L	Memory Built in Self Test (T)	18
15EC24L	Joint Test Action Group (T)	04
15EC25L	Python Programming and its applications (P)	35
15EC28L	Malware analysis and Reverse Engineering (P)	37

Transdisciplinary Courses

Subject Code	Subject Title	No. of students registered
15TD02E	Leadership and Personality Development	67
15TD10E	Global Challenges and issues	110
15TD14E	Women in Indian Society	27
15TD15E	Indian Constitution	36


 Board Chairman

Department of Electronics and Communication Engineering on 21.05.2020

Google online meet link: <https://meet.google.com/xmo-ejcd-dkj>

Year/Sem	Course code, Title	Credit	No. of Students registered
IV/VII	15HD02E- Disaster Management	3	69
IV/VII	15HD03E- Energy Engineering	3	17
IV/VII	15H15E- Internet of Things	3	07
IV/VII	15H21E- Social Networking	3	22
IV/VII	15TD02E- Leadership and Personality Development	3	31
IV/VII	15TD10E- Global Challenges and issues	3	53
IV/VII	15TD14E- Women in Indian Society	3	19
IV/VII	15TD15E- Indian Constitution	3	18

Online Learning Management System

- Content Delivery**
Approval for conduction of left-over portions of regular courses through moodle, google class room and other online modes.
- Assessment and Evaluation**
Internal Assessment Test 2 (IAT) conducted for UG and PG courses through online and papers corrected, shown to the students internal marks calculated and submitted to the CoE section.
This content delivery, assessment and evaluation may be approved

(22)

- Sathesh Kumar ECE (You)
- arunsamuel ece
- hod eceug
- Klutto Milleth

Others in the meeting (18)

(20)

- Sathishkumar ECE
- Tamil Selvi S
- Vijay Bharat S
- Vijayarangan Venkatapathy
- Viswalakshmi.S ECE-Adjunct...

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES of 13th Meeting of the Board of studies held on
30th May, 2020 at 10.30 AM

Meeting Mode: Through online (Google Meet)

Google Meet Link: <https://meet.google.com/ysi-wiez-cpx>

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

13th Board of studies Meeting in the Department of
Computer Science and Engineering

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: <https://meet.google.com/ysi-wiez-cpx>

Date & Time: 30.05.2020 & 10.30 AM

Agenda

BoS / CSE 13.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Computer Science and Engineering
BoS / CSE 13.2	:	Confirmation of the Minutes of the 12 th meeting of Board of studies in the department of Computer Science and Engineering held on 23 th November 2019 and Action taken report of 12 th meeting of Board of studies
BoS / CSE 13.3	:	Business brought forward by the Chairman, Board of studies 13.3.1. Approval of conduct of courses in online mode during COVID-19 lockdown periods 13.3.2. Approval for increase of maximum credits to be earned as 36 13.3.3. Approval for transfer of credits earned through online courses
BoS / CSE 13.4	:	Any other items
BoS / CSE 13.5	:	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

30th May, 2020

Dear Sir,

Sub: Minutes of the 13th Meeting of the Board of studies in the Computer Science and Engineering -Reg.

Kindly find attached herewith the Minutes of the 13th Meeting of Board of studies of the Computer Science and Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 30th May 2020 at 10.30 AM through GoogleMeet. 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


30/5/2020
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)
www.nec.edu.in

MINUTES OF THE MEETING

The 13th Meeting of the Board of studies of the Computer Science and Engineering was held on 30th May, 2020 at 10.30 AM through Google Meet.

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.	Dr.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.	Mr.D.Vijayakumar, Assistant Professor (SG)	
12.	Ms.S.Kalaiselvi, Assistant Professor (SG)	
13.	Ms.G.Sivakamasundari, Assistant Professor (SG)	
14.	Ms.G.R.Hemalakshmi, Assistant Professor (SG)	
15.	Ms.V.Anusuya Devi, Assistant Professor	
16.	Dr. K. S. Easwarakumar Professor, Dept. of Computer Science and Engineering, CEG Campus Anna University, Chennai .	University Nominee
17.	Dr. C.Krishna Mohan Professor & Head Dept. of Computer Science and Engineering, Indian Institute of Technology Hyderabad, Hyderabad.	Academic Experts

18.	Dr. C. Mala Professor, Dept. of Computer Science and Engineering, National Institute of Technology Trichy, Trichy.	
19.	Dr.G.R.Karpagam, Professor, Dept. of Computer Science and Engineering, PSG College of Technology, Avinashi Road, Peelamedu. Coimbatore.	
20.	Dr.G.Kousalya , Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore.	
21.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd.,Chennai.	Industrial Experts
22.	Mr.Srinivasan Rajendren, Service Delivery Manager, Tata Consultancy Services,Chennai.	
23.	Mr.Lawrence Mohanraj, Country Lead – Academic Initiative, IBM India Pvt. Ltd, IBM Towers, Chennai	
24.	Mr.D.Siddharthan, Delivery Manager, Wipro Technologies Pvt. Ltd, Chennai.	
25.	Ms.G.Maria Justin Mary IT-Lead Remedy Application, Honeywell Technology Solutions, Madurai.	Alumni
26.	Mr.Somu Chockalingam President ,Doyen Systems Pvt Ltd, Chennai.	
27.	Mr.Manikanda Raman Viswanathan, Principal Architect, Cognizant Digital Operations, CTS,Chennai.	Adjunct faculty & Alumni
28.	Ms. Rajanayaki . S, III year CSE	Student Members
29.	Mr. Gokul Raja .J , III year CSE	Nominated by the HOD

BoS / CSE 13.1 : 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 13th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CSE 13.2 : TO CONFIRM THE MINUTES OF TWELFTH BOS MEETING HELD ON 23th November, 2019

The minutes of the **Twelfth Board of Studies meeting** held on 23th November, 2019 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 12th Academic council.

➤ **Action Taken Report**

(Enclosed in Annexure I)

BoS/CSE 13.3.1 : TO CONFIRM AND APPROVE CONDUCT OF COURSES IN ONLINE MODE DURING COVID-19 LOCKDOWN PERIODS

RESOLVED TO conduct of courses in online mode during covid-19 lockdown periods

➤ **Conduct of courses in online mode during covid-19 lockdown periods**

(Enclosed in Annexure II)

BoS/ CSE 13.3.2 : TO CONFIRM AND APPROVE FOR INCREASE OF MAXIMUM CREDITS TO BE EARNED AS 36

RESOLVED TO approve for increase of maximum credits to be earned as 36

➤ **Maximum credits to be earned as 36**

(Enclosed in Annexure III)

BoS/ CSE 13.3.3 : TO CONFIRM AND APPROVE FOR TRANSFER OF CREDITS EARNED THROUGH ONLINE COURSES

RESOLVED TO transfer of credits earned through online courses

➤ **Transfer of credits earned through online courses**

(Enclosed in Annexure IV)

BoS / CSE 13.4 : 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 by the students(if any) should be periodically discussed with them. They also congratulated the faculty members for their team efforts towards continuing Education.

BoS / CSE 13.5 : SUGGESTIONS GIVEN BY THE BOS MEMBERS

- 13.5.1 : Gap may be given between the regular examinations and Examination for additional courses conducted during the lockdown period.
- 13.5.2 : Lightweight courses like communication skills, placement preparation, programming languages and domain oriented courses may be offered during further lockdown period.
- 13.5.3 : 95% of students attendance is appreciated for the additional courses conducted during lockdown
- 13.5.4 : Mandatory additional courses are overloaded during lockdown period and Internships and trans-disciplinary courses may be offered based on student's interest.
- 13.5.5 : Relaxations may be given to rural area students who are lagging in infrastructure facilities.
- 13.5.6 : During the lockdown, projects may be assigned in each course and 10 students may be assigned per faculty.
- 13.5.7 : 15CS81C-Project Work Viva voce may be conducted online as per the recommendations of Anna University, Chennai.
- 13.5.8 : The effort taken by faculty for their own video lectures is appreciated and suggested to utilize the available OER instructional resources.

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. Approval of conduct of courses in online mode during COVID-19 lockdown periods
- b. Approval for increase of maximum credits to be earned as 36
- c. Approval for transfer of credits earned through online courses

V. L. J.
30/5/2020
CHAIRMAN
BOARD OF STUDIES

Annexure I

Action Taken Report for Minutes of 12th BOS

As per BOS committee suggestions,

- A basic concept of programming course is included in the all department students.
- Embedded programming course was renamed as Embedded Systems.
- Six theory and two or three laboratory courses fixed in a semester.
- Machine Learning, Deep Learning, and Data Analytics laboratory courses are included as one credit courses.
- The laboratory course syllabuses are updated accordingly.

V. L. 
CHAIRMAN
BOARD OF STUDIES
30/5/2020

National Engineering College, K.R.Nagar, Kovilpatti
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Department of Computer Science and Engineering

Annexure - II

Courses Conducted in online mode during Lockdown

Programme Elective Courses

Course Code	Course Title	No. of students registered
15CS09E	Artificial Intelligence and Expert Systems	33
15CS30E	Internet of Things	54
15CS36E	Business Intelligence	26

One Credit Courses

Subject Code	Subject Title	No. of students registered
15CS01L	Python Programming	21
15CS09L	Creative Image Manipulation	10
15CS10L	3D Animation	49
15CS19L	APP Development Using Android	38
15CS28L	Scaling Networks	04

Open Elective Course

Subject Code	Subject Title	No. of students registered
15ID03E	Energy Engineering	124

Trans-disciplinary Courses

Subject Code	Subject Title	No. of students registered
15TD02E	Leadership and Personality development	56
15TD03E	International Business Management	06
15TD04E	Basics of Marketing	34
15TD07E	Indian economy	05
15TD10E	Global Challenges and Issues	49
15TD11E	Indian Culture and Heritage	42
15TD12E	Indian History	21
15TD13E	Sustainable Development and Practices	24



Board Chairman

Department of Computer Science and Engineering on 30.05.2020

Google online meet link: <https://meet.google.com/ysi-wiez-cpx>

AGENDA for 13th BOS Meeting
(30.05.2020)

- ❖ Approval of conduct of courses in online mode during COVID-19 lockdown periods
- ❖ Approval for increase of maximum credits to be earned as 36
- ❖ Approval for transfer of credits earned through online courses.
- ❖ Any other matter

Department of CSE
30 May 20

Approval for conduction of project viva with External examiners through online for current final year students (2016-2020 batch)

S.No	Year	Total No of Students	Total No of Batches
1.	IV	124	46

Department of CSE
30 May 20



Department of Electrical and Electronics Engineering

MINUTES 13th Meeting of the Board of studies held on
27th May 2020 at 10.00 AM

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: <https://meet.google.com/bss-gfai-wvt>

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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13th Board of studies Meeting in the Department of Electrical and Electronics Engineering

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: <https://meet.google.com/bss-gfai-wvt>

Date & Time: 27.05.2020 & 10.00 AM

AGENDA

- BoS / EEE 13.1 : Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Electrical and Electronics Engineering
- BoS / EEE 13.2 : Confirmation of the Minutes of the 12th meeting of Board of Studies in the Department of Electrical and Electronics Engineering held on November 8th 2019, and Action Taken report of 12th meeting of Board of studies
- BoS / EEE 13.3 : Business brought forward by the Chairman, Board of studies
- 13.3.1 One Credit Elective course for UG (B.E. – EEE) under R-2015.
- 13.3.2 Approval for the courses conducted online during lockdown period.
- 13.3.3 Conduct of project viva with external expert through online for current final year students.
- BoS / EEE 13.4 : Any other items
- BoS / EEE 13.5 : 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.

27th May, 2020

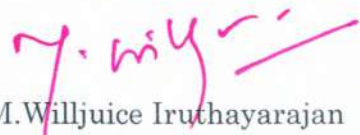
Dear Sir/Madam,

Sub: Minutes of the 13th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 13th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 27th May, 2020 at 10.00 AM in the Conference Hall of National Engineering college, through GoogleMeet. 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 12th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 27th May, 2020 at 10.00 AM in the Conference Hall of National Engineering college, through GoogleMeet.

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.Kannayeram Assistant Professor(S.G) / EEE	
7.	Dr.M.P.E.Rajamani Assistant Professor (S.G) / EEE	Academic Expert
8.	Dr. V. Suresh Kumar, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai, Tamilnadu.	
9.	Dr. Rajesh Joseph Abraham Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, Kerala.	University Nominee
10.	Dr. S. Usa, Professor, Department of Electrical and Electronics Engineering, CEG Campus, Anna University, Chennai.	

11.	Dr. S. Paramasivam, R&D Head, Electrical Drives, Danfoss Industries Ltd., Chennai	Industrial Expert
12.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	
13.	Dr. Hariram Satheesh, Principal Scientist, ABB Global Industries and Services Ltd, Bangalore.	
14.	Mr. M. Ramesh Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	
15.	Mr. R. Jayakumar, Assistant Vice President, Wipro Technology Ltd., Bangalore	Meritorious Alumnus
16.	Mr. S. Joseph Francis, Pre-Final Year / EEE	Student Members
17.	Ms. H. Selvadevi, Pre-Final Year / EEE	

The Industrial Expert **Mr.S.Subramanian**, Senior Maintenance Engineering (I), Kudankulam Nuclear Power Project, Kudankulam, could not attend the meeting due to his prior commitments and unavoidable reasons and were granted leave of absence.

BoS / EEE 13.1 : 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 13th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / EEE 13.2 : TO CONFIRM THE MINUTES OF TWELFTH BOS MEETING HELD ON 8th November 2019
The minutes of the Twelfth Board of Studies meeting held on 8th November 2019 were communicated to the members vide letter No. F. No. 1-1/NEC/EEE, Dated 08.11.2019.

The comments received have been incorporated and placed for confirmation. The same was approved by the 12th Academic council.

Action Taken Report

(Enclosed in Annexure I)

BoS / EEE 13.3.1 : TO CONFIRM AND APPROVE THE SYLLABUS OF ONE CREDIT ELECTIVE COURSE FOR UG (B.E. – EEE) PROGRAMME UNDER R-2015

RESOLVED TO approve the syllabus of one credit elective course “INSTRUMENTATION PRACTICES IN INDUSTRIES” for UG (B.E. – EEE) PROGRAMME under R-2015.

Bos/EEE 13.3.2 : TO CONFIRM AND APPROVE COURSES CONDUCTED IN ONLINE MODE DURING COVID-19 LOCKDOWN PERIODS
RESOLVED TO approve courses conducted in online mode during covid-19 lockdown periods

Courses Conducted in online mode during Lockdown

(Enclosed in Annexure II)

Bos/EEE 13.3.3 : TO CONFIRM AND APPROVE FOR INCREASE OF MAXIMUM CREDITS TO BE EARNED AS 36

RESOLVED TO approve for increase of maximum credits to be earned as 36 in 4th and 6th semester UG (B.E. – EEE) programme under R-2015.

Bos/EEE 13.4 : ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS

13.4.1 : The BoS chairman proposed to conduct Project Work viva voce examinations for final year UG (B.E. – EEE) & PG (M.E – HVE) through online mode as per the recommendations of Anna University, Chennai.

13.4.2 : For the one credit elective course “15EE18L PCB Design and Fabrication”, it is proposed to consider as practical course with ‘L T P C’ as ‘0 0 2 1’ with total of 30 periods. Hence it is further propose to conduct End Semester Examination as practical examination.

Bos/EEE 13.5 : SUGGESTIONS GIVEN BY THE BOS MEMBERS

13.5.1 : In the course “Instrumentation Practices in Industries”, the title may be changed to “Quality Practices for Safety Critical Instrumentation System” and suggested to include standards and calibration of measuring instruments in the syllabus.

13.5.2 : BOS members suggested that relaxations may be given to rural area students who are lagging in internet facilities regarding online learning management systems.


13.5.3 : BOS members insisted to make proof for every lectures, assessments conducted through online during lockdown period.

13.5.4 : BOS members insisted that conduction of End Semester examination through online mode may be avoided.

13.5.4 The effort taken by faculty for their own video lectures, conducting assessments for the courses is appreciated by the external members.

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


CHAIRMAN
BOARD OF STUDIES

Annexure – I

Action Taken on Suggestions from 12th BOS Meeting

Suggestions	Action Taken
In the course “Power Systems – I and Power Systems – II”, the syllabus may be completely refined to include “Switchgear and Protection” as a separate core course instead of one open elective course and proposed to present in the upcoming BoS meeting for approval.	Curriculum revised. Syllabus will be presented in next BOS meeting
In the course “Control System”, the topic compensator design using Bode plot may be specified in the Unit – V.	
In the course “Microprocessor and Microcontroller Laboratory”, the experiment related to PWM generation may be included.	
In the course “Power System Simulation and High Voltage Laboratory”, the title of experiments may be rephrased.	
In the course “Power Electronics”, the syllabus may be refined to include, Protection circuit in Unit – I, RL load for phase controlled rectifiers in Unit – II, Control strategies of DC-DC converters in Unit – III, Isolated converter in Unit – IV. Application of power electronics circuit in Unit – V.	
In the course “High Voltage Engineering”, the topics such as estimation of over voltage, reflection and refraction of travelling waves, insulation coordination may be included in Unit – I. The title of Unit – II may be modified as “Dielectrics and Breakdown Mechanism”, and further the topics such as properties of dielectrics, applications and maintenance of dielectrics may be included. In Unit – IV digital measurement techniques may be included.	
In the course “Power Electronics Laboratory”, simulation of power converters may be included.	
In the elective course “Electrical Drives”, classes of duty in Unit – I, chopper fed drive in Unit – II, and concept of vector control in Unit – IV may be included. Unit – III may be refined.	
In the elective course “HVDC Transmission Systems”, topics such as harmonic analysis and filters may be included in Unit – II.	

All corrections are incorporated in the syllabus as per suggestions


EEE Board Chairman

Annexure – II

Courses Conducted in online mode during Lockdown

Programme Elective Courses

Subject Code	Subject Title	No. of students registered
15EE02E	Special Electrical Machines	41
15EE03E	Power Electronics for Renewable Energy Systems	29
15EE04E	CAD of Electrical Apparatus	20
15EE06E	Advanced Switchgear	21
15EE07E	Solar Photovoltaic Fundamentals and Applications	24
15EE08E	Energy Auditing and Management	91
15EE09E	Power Quality	7
15EE10E	Energy Studies	8
15EE12E	Insulation Technology	68
15EE25E	Automotive Electrical and Electronics	45

One Credit Courses

Subject Code	Subject Title	No. of students registered
15EE04L	LVDC wiring	123
15EE10L	Earthing design	89
15EE18L	PCB design and fabrication	63
15EE22L	Electrical Power Capacitors	7
15EE24L	High Voltage Testing Techniques	36
15EE23L	Internet of Things and Embedded Systems	57
15EE09L	HVDC Circuit Breakers	5

Transdisciplinary Courses

Subject Code	Subject Title	No. of students registered
15TD02E	Leadership and Personality development Skill	93
15TD10E	Global Challenges and Issues	9
15TD11E	Indian Culture and Heritage	24
15TD14E	Women in Indian Society	2
15TD15E	Indian Constitution	4


Board Chairman

13th BOS Meeting – 27.05.2020

REC hod ee is presenting

Will you allow meet.google.com to see your screen?
Window or Screen to share
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Remember this decision

Department of Electrical and Electronics Engineering

13th Board of Studies
27/05/2020, Wednesday

National Engineering College
(An Autonomous Institution, Affiliated to Anna University - Chennai)
K.R. Nagar, Kovilpatti - 679 502

Prakash N.B joined

People (14)
Chat (2)
Dr V SureshKumar
Hariram Dathesh
hod ee (Presentation)
hod ee
Kannayaram Ganapathy
maheswari ee
param sathya
Prakash N.B
Rajamani M.PE
Ramesh M
Santosh Kumar

Type here to search

10:25 AM 5/27/2020

REC hod ee is presenting

15EE25L INSTRUMENTATION PRACTICES IN INDUSTRIES

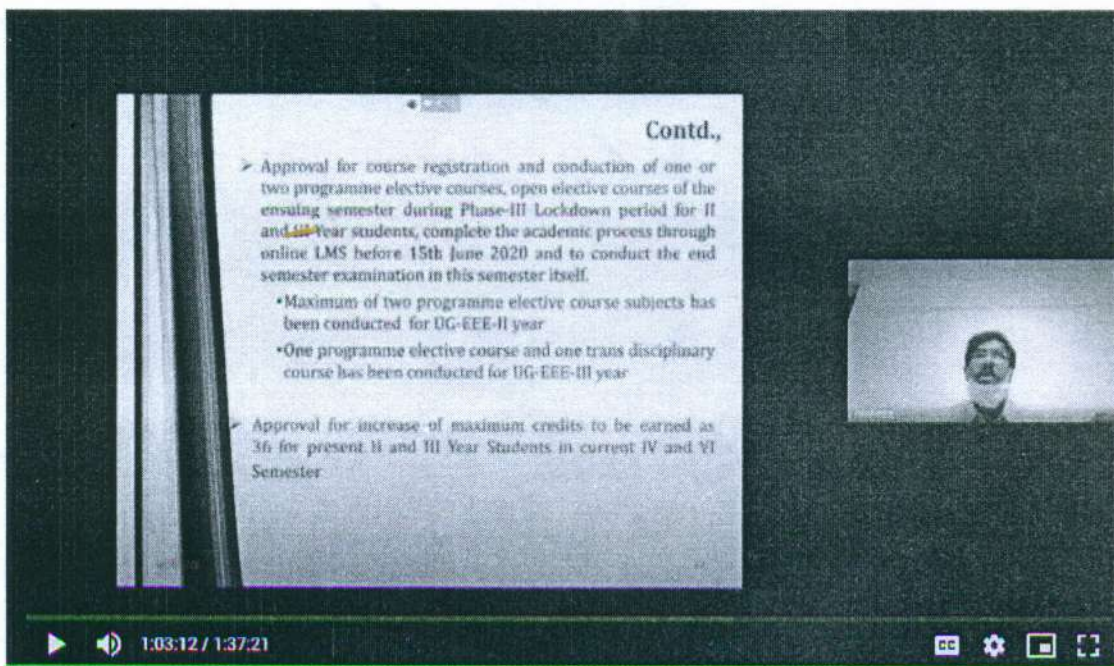
No. of Credits: 1 (15 hours)

Course Objectives:

1. To expose the students to requirement of standards and calibration techniques, safety and reliability mechanisms used in process industries.
2. To impart knowledge about EMI and EMC problems in industrial measurements.
3. To make the students to draw the specification of the industrial instruments and prepare the instrumentation project documents.

People (24)
Chat
param sathya
Prakash N.B
Rajamani M.PE
Ramesh M
Ravindran M
Sangeetha R
Santosh Kumar
SELVADEVI 4
Shanmugalakshmi EEE
Tamil Selvi S
Usha SivademuThu

Type here to search



M. Wilson
EEE Board Chairman

Department of Electrical and Electronics Engineering on 27.05.2020
Google online meet link: <https://meet.google.com/bss-gfai-wvt>

The screenshot shows a Google Meet window with a presentation slide. The slide content is as follows:

Department of Electrical and Electronics Engineering

13th Board of Studies
27/05/2020, Wednesday

National Engineering College
(An Autonomous Institution, Affiliated to Anna University - Chennai)
K.R. Nagar, Kovilpatti - 629 502

Prakash N.B joined

The right sidebar shows a list of participants: Dr V SureshKumar, Hariram Satheesh, hod eee (Presentation), hod eee, Kannayeram Ganapathy, maheswari eee, param sathya, Prakash N.B, Rajamani M.P.E, Rameesh M, and Santosh Kumar.

The screenshot shows a Google Meet window with a presentation slide. The slide content is as follows:

15EE25L INSTRUMENTATION PRACTICES IN INDUSTRIES

No. of Credits: 1 (15 hours)

Course Objectives:

1. To expose the students to requirement of standards and calibration techniques, safety and reliability mechanisms used in process industries.
2. To impart knowledge about EMI and EMC problems in industrial measurements.
3. To make the students to draw the specification of the industrial instruments and prepare the instrumentation project documents.

The right sidebar shows a list of participants: param sathya, Prakash N.B, Rajamani M.P.E, Rameesh M, Ravindran M, Sangoetha R, Santosh Kumar, SELVADEVI 4, Shunmugalakshimi EEE, Tamil Selvi S, and Usa Savadamuthu.

Department of Information Technology

MINUTES of 13th Meeting of the Board of studies held on
22nd May, 2020 at 11.00 AM

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: meet.google.com/ehz-xyu-dmw

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

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

13th Board of studies Meeting in the Department of
Information Technology

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: meet.google.com/ehz-xyyu-dmw

Date & Time: 22.05.2020 & 11.00 a.m.

Agenda

BoS / IT 13.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Information Technology
BoS / IT 13.2	:	Confirmation of the Minutes of the 12 th meeting of Board of studies in the department of Information Technology held on 2 nd NOV 2019 and Action taken report of 12 th meeting of Board of studies
BoS / IT 13.3	:	Business brought forward by the Chairman, Board of studies 13.3.1 Conduction of project viva with external expert through online for current final year students. 13.3.2 Approval for the courses conducted online during lockdown period.
BoS / IT 13.4	:	Any other items
BoS / IT 13.5	:	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. 13.1/NEC/ IT/2019-20

22nd May, 2020


Dear Sir/Madam,

Sub: Minutes of the 13th Meeting of the Board of studies in the Information Technology - Reg.

Kindly find attached herewith the Minutes of the 13th Meeting of Board of studies of the Information Technology of National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 22ndMay, 2020 at 11.00 AM through Google Meet. 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


22/05/2020
(Dr.D.Manimegalai)

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 13th Meeting of the Board of studies of the Information Technology was held on 22nd May 2020 at 11.00 AM through Google Meet.

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, Asso. Prof.	
5.	Mr.S.Chidambaram, Asst. Prof. (SG)	
6.	Dr.S.Vimal, Asst. Prof. (SG)	
7.	Ms.V.Anitha, Asst. Prof.	
8.	Ms.R.Priyadharshini, Asst. Prof.	
9.	Mr.S.Rajendran, Adjunct Faculty	
10.	Dr.S.Swamynathan, Professor, Department of Information Science &Technology, Anna University, Chennai.	University Nominee
11.	Dr.P.Yogesh, Professor, Department of Information Science &Technology, Anna University, Chennai.	Academic/Alumni Expert
12.	Dr.A.Soundarrajan Professor, Department of Electronics &Electrical Engineering, PSG College of Technology,Coimbatore.	Special Invitee
13.	Mr. Somu Chockalingam, Director, Doyen Systems Pvt Ltd Chennai, Tamil Nadu	Special Invitee
14.	Mr.Antony Arravindh, Senior Project Manager, HCL Technologies, Chennai.	Alumni/Industrial Expert
15.	Dr.K.M.Suceendran, General Manager, Tata Consultancy Services, Chennai.	Industrial Expert
16.	Arun Sunder. S, Third year	Student Members
17.	Keerthana. P.J, Third year	

BoS / IT 13.1	:	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 13 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / IT 13.2	:	TO CONFIRM THE MINUTES OF TWELFTH BOS MEETING HELD ON 2 nd NOV, 2019.
		The minutes of the Twelfth Board of Studies meeting held on 2 nd Nov, 2019 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 12 th Academic council. ➤ Action Taken Report (Enclosed in <i>Annexure D</i>)
BoS / IT 13.3.1		TO CONFIRM AND APPROVE THE CONDUCTION OF PROJECT VIVA WITH EXTERNAL EXPERT THROUGH ONLINE FOR CURRENT FINAL YEAR STUDENTS.
		RESOLVED TO approve the conduction of project viva with external expert through online for current final year students.
BoS / IT 13.3.2		TO CONFIRM AND APPROVE THE COURSES CONDUCTED ONLINE DURING LOCKDOWN PERIOD.
		RESOLVED TO approve the courses conducted online during lockdown period.
BoS / IT 13.4	:	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS
		Conduction of project viva through online and the courses conducted online during lockdown period were approved by all members. They also congratulated the faculty members for their team efforts towards continuing Education.


BoS / IT 13.5	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
13.5.1	:	Student's attendance is appreciable for the additional courses conducted during lockdown.
13.5.2	:	Examinations for additional courses handled during the lockdown period may be conducted with adequate time gap from examinations of regular courses.
13.5.3	:	Viva voce for Project Work may be conducted online as per the recommendations of Anna University, Chennai.
13.5.4	:	Own video lectures of faculty members are appreciated.
13.5.5	:	Sufficient period of time may be given to students of rural area who are lagging in digital learning facilities .

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

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

- a) Conduction of project viva with external expert through online for current final year students.
- b) Approval for the courses conducted online during lockdown period.

Dr.D.Manimegalai, Prof & Head, thanked all the members for their kind cooperation and the meeting came to an end.


 CHAIRMAN
 BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 12th BoS Meeting

As per BOS Committee suggestion,

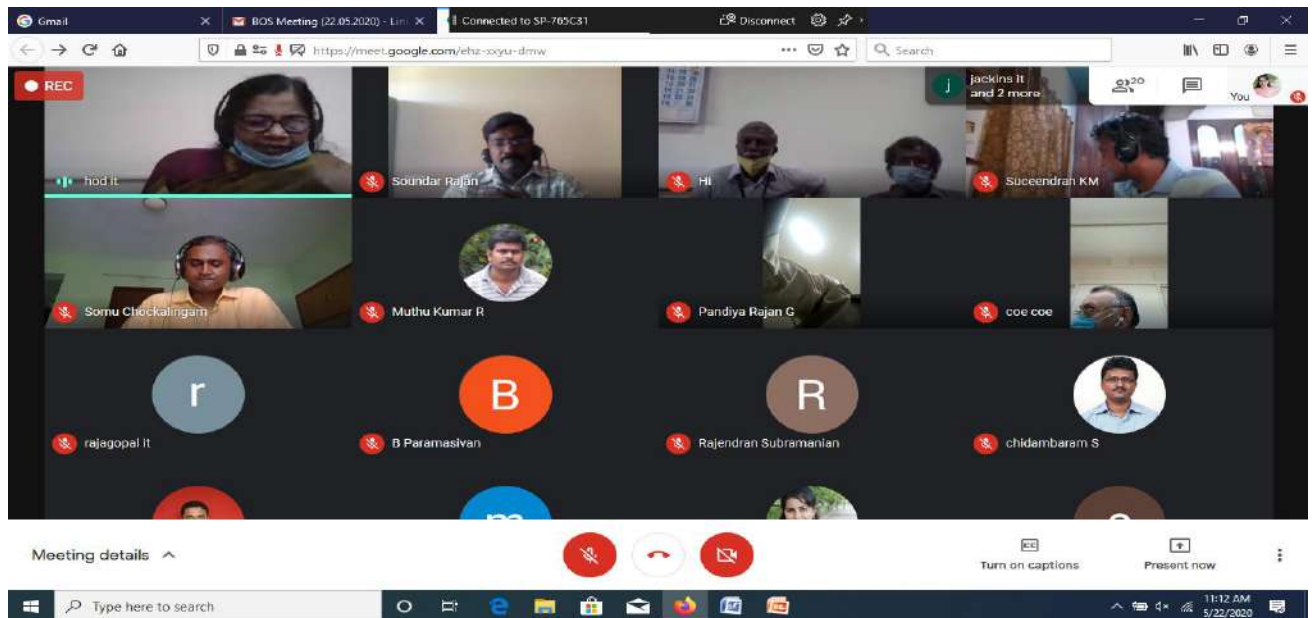
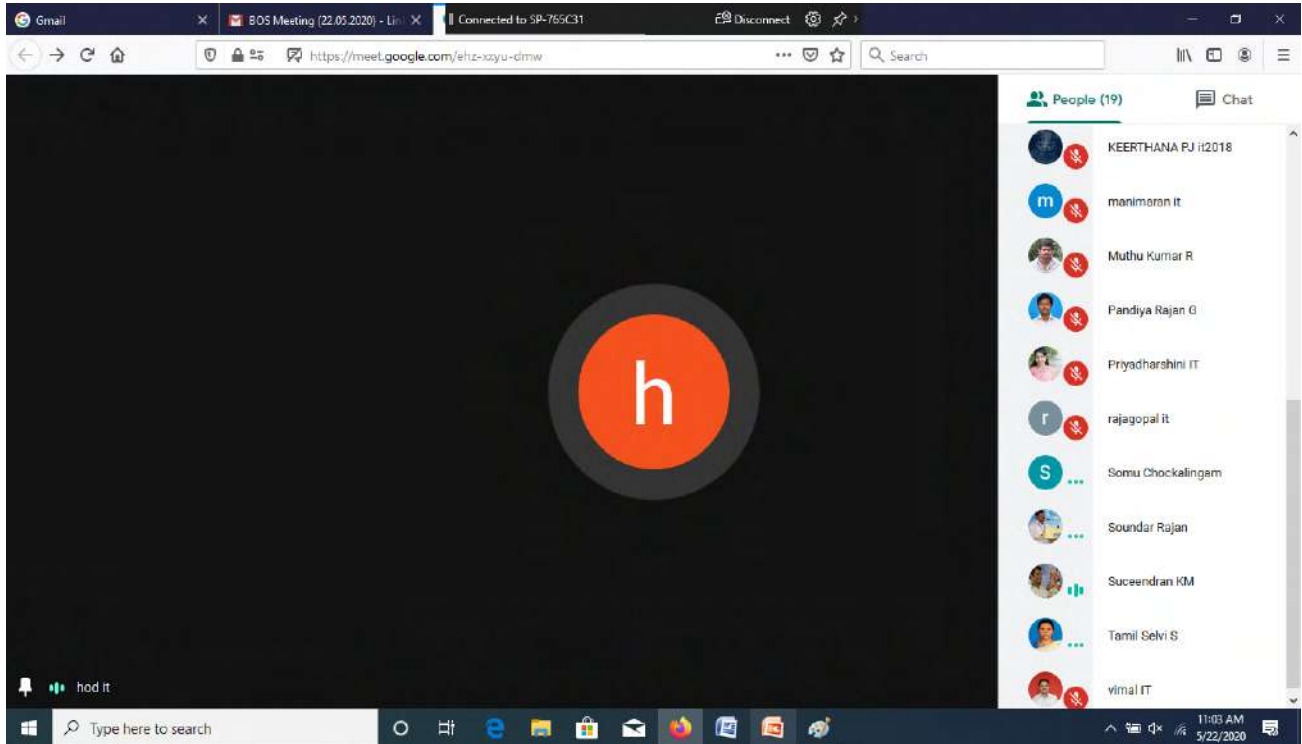
- In Object Oriented Programming Unit I to IV covers C++ and Unit V comprise Java Fundamentals.
- Information Systems is renamed and reframed as Algorithmics.
- Java Programming syllabus is reframed covering few topics such as GUI, AWT, Swing, Concurrent Programming, and Distributed Programming.
- In Software Engineering Unit IV & V has been combined together. Unit V includes topics related to Software Management.
- Internet and Web Technology is reframed covering few topics such as Servlets, JSP, Angular JS, and Node JS.
- In Embedded System more topics related to Microprocessors and microcontrollers has been added.
- In Java Programming Laboratory specific programs has been changed to Generic form.
- In Cryptography and Network Security Laboratory programs related to tools on Network Security has been included and CO's has been reframed accordingly.
- In Internet and Web Technology Laboratory programs has been reframed with reference to changes in Theory content.
- In Big Data Analytics few topics such as NoSQL, Graph, Stream Analysis Supervised and Unsupervised Data has been added.
- In Enterprise Mobility units under the Syllabus has been reordered.
- In Big Data Analysis Laboratory CO2 has been changed. Data Visualization Tools has been included.
- Web references for each Subject has been added.

D. M. L
22/05/2020
CHAIRMAN

BOARD OF STUDIES

Department of Information Technology on 22.05.2020

Google online meet link: <https://meet.google.com/bss-gfai-wvt>



Department of Civil Engineering

MINUTES of the 10th Meeting of the Board of Studies held on
11th May 2020, 11:00 am

Through CISCO Webex meeting
<https://meetingsapac4.webex.com/meet/puthiya1965>

Department of Civil Engineering

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

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

www.nec.edu.in

10th Board of Studies Meeting in the Department of
Civil Engineering

Through CISCO Webex meeting

<https://meetingsapac4.webex.com/meet/puthiya1965>

Date & Time: 11.05.2020 & 11.00 am

Agenda

- BoS / CIVIL10.1 : Welcome address and Opening Remarks by Chairman, Board of studies in the department of Civil Engineering
- BoS / CIVIL10.2 : Confirmation of the Minutes of the 10th meeting of Board of studies in the department of Civil Engineering held on 11th May 2020 and Action taken report of 9th meeting of Board of studies
- BoS / CIVIL10.3 : Business brought forward by the Chairman, Board of studies
- 10.3.1 Approval of conduct of courses through online for the left out portion of the UG regular courses.
- 10.3.2 Approval for increase of maximum credits to be earned as 31 for second years and 34 for third year students.
- 10.3.3 Approval for online internship programme
- BoS / CIVIL10.4 : Any other items
- BoS / CIVIL10.5 : 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.

03.06.2020

Dear Sir/Madam,

**Sub: Minutes of the 10th Meeting of the Board of Studies in the Civil Engineering -
Reg.**

Kindly find attached herewith the Minutes of the 10th Meeting of Board of studies of the Civil Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 11.05.2020 at 11.00 AM through Cisco online webex meeting . 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 10th Meeting of the Board of Studies of the Civil Engineering was held on 11th May 2020 at 11:00 am through Cisco online webex meeting.

The following members were present:

1	Dr.C.PuthiyaSekar Professor & Head	Chairman
2	Mr. S. Sebastin AP-Civil	Internal Members
3	Dr. C. Chella Gifta AP-Civil	
4	Mr. S. Daniel Raj AP-Civil	
5	Mrs. M. Balamaheshwari AP-Civil	
6	Mr. V. Arulpandian AP-Civil	
7	Ms. B. Anitha AP-Civil	
8	Dr. S. Arul Jayachandran, Professor, Department of Civil Engineering, Indian Institute of Technology Madras, Chennai - 600 036.	Academic Experts
9	Dr. P. Jayabalan Professor, Department of Civil Engineering, National Institute of Technology Trichy	
10	Dr. T. Velrajan, Professor, Department of Civil Engineering, Thiagarajar college of Engineering, Madurai - 625 015.	
11	Dr. P. D. Arumairaj, Principal Consultant, AlzumGeoCivil Integrated Services, Thadagam Road, Coimbatore - 6414 025.	Industrial Expert
12	Dr. Colonel. P. Nallathambi, Principal Structural Consultant, Sakthi Consultancy Pvt Ltd. Chromepet, Chennai - 600 044.	Student Members
13	Ms. Thanuja. G, Third year	
14	Mr. Mubashir Qayoom, Third year	

BoS / CIVIL 10.1 : 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 10th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CIVIL 10.2 : TO CONFIRM THE MINUTES OF NINETH BOS MEETING HELD ON 06th November , 2019

The minutes of the Nineth **Board of Studies meeting** held on 06th November, 2019 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 12th Academic council.

➤ **Action Taken Report**

(Enclosed in Annexure I)

BoS/CIVIL 10.3.1 : **TO CONFIRM AND APPROVE THE CONDUCT OF REMAINING PORTION OF REGULAR COURSES THROUGH ONLINE LEARNING MANAGEMENT SYSTEM DURING COVID 19 LOCKDOWN PERIOD. RESOLVED TO** conduct the courses through online management system during lockdown period.

➤ Conduct of regular courses in online mode during covid-19 lockdown periods

(Enclosed in Annexure II)

BoS/CIVIL 10.3.2 : **TO CONFIRM AND APPROVE THE INCREASE OF MAXIMUM CREDIT TO BE EARNED AS 31** from the already registered 22 credits for second years.

TO CONFIRM AND APPROVE THE INCREASE OF MAXIMUM CREDIT TO BE EARNED AS 34 from the already registered 28 credits for third years.

RESOLVED TO approve the increase of maximum credit to be earned as 31 for second years and 34 for third years.

➤ Courses conducted to increase maximum credits to be earned as 31 for second years

➤ Courses conducted to increase maximum credits to be earned as 34 for third years

(Enclosed in Annexure III)

BoS / CIVIL 10.3.4 : **TO CONFIRM AND APPROVE THE CONDUCT OF ONLINE INTERNSHIP PROGRAMMES DURING COVID 19 LOCKDOWN PERIOD.**

RESOLVED TO conduct the online internship programmes instructed by

AICTE mandatory internship policy.

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

The appointment of Internal faculty as a Co –Examiner for 15CE81C –Project work due to COVID19 lockdown was discussed with the expert members. On the whole, this current online delivery and pedagogical methods in higher education system was highly appreciated by all the expert members .The challenges faced by the students (if any) should be periodically discussed with them. Students attendance more than 95%, for all the online classes are highly appreciated by the expert members.They also congratulated all the faculty members for their team efforts towards continuing education during this pandemic period.

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

- 10.5.1 : Special consideration can be offered to the students living in rural areas due to the limited level of internet access.
- 10.5.2 : Online internship training programme should be conducted based on students interest in various domains engaging the students to work from their respective home during this lockdown period.
- 10.5.3 : Sufficient interval may be given between the end semester examinations conducted for regular courses and additional courses conducted during lockdown period.
- 10.5.4 : The effort taken by faculty for the preparing own video lectures is appreciated and suggested to utilize the available Open Educational resources.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately about this online teaching and learning process

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

- a) Approval of conduct of courses in online mode during COVID-19 lockdown periods
- b) Approval for increase of maximum credits to be earned as 31 for second years and 34 for third year students.
- c) Approval of conducting online internship programmes.

Ms.B.Anitha AP-Civil thanked all the members for their kind cooperation and the meeting came to an end.



CHAIRMAN

BOARD OF STUDIES

ANNEXURE I

Action taken for Minutes of 9th BoS Meeting

As per BoS Committee Suggestions,

Action taken in Fifth semester under R 2019

1. The course named as Highway Engineering to be shift to fifth position and Professional Ethics and Human Values to be shift to sixth position.
2. the course named as Structural Analysis I to be change as Basic Structural Analysis
3. The topic of analysis and behaviour study of reinforced concrete member to be remove and detailing of Reinforcement to be include behind the concepts of designs.
4. In Unit II of Design of Reinforced Concrete Elements, the title as Limit State Design of Beams (Flexure,Shear,Torsion) and the topic design of slab to be shift to unit III.
5. In Unit IV of Design of Reinforced Concrete Elements, the topics of Introduction of Short and Long Column and design of various sections of members of Short column are included.
6. In Unit IV of Design of Reinforced Concrete Elements, the topics named as Design of Long Column is removed.
7. In Unit V of Design of Reinforced Concrete Elements, the topic named as pad and sloped footing is mentioned in the design of rectangular footing.
8. In Unit V of Design of Reinforced Concrete Elements, that the topic named as standard method of detailing of RC members is removed.
9. In the syllabus of Design of Reinforced Concrete Elements, the text books under the author of Varghese PC ,Krishnaraju N is shifted to references and the books under the authors of jain AK ,Sinha is mentioned in references is shifted to Text books.
10. In the syllabus of Design of Reinforced Concrete Elements, the book under the author of ML Gambhir is included in the Text books.
11. In the syllabus of Wastewater Treatment and Management, the text book under the author of Duggal K.N is removed.
12. In the syllabus of Foundation Engineeiring, the book under the author of Varghese PC and Venkatramaiah.C is removed from the references.

13. In the syllabus of Concrete and Highway Laboratory, the number of course outcomes are increased and sieve analysis test for fine aggregates is included, CBR test for bituminous mixes.
14. In the syllabus of Soil Mechanics Laboratory, the experiment named as Relative density of sands is modified as Relative density of soils.

Action taken in Sixth semester under R 2019

15. In the curriculum, the course named as Estimation and Quantity Surveying is changed as Estimation and Costing.
16. In Unit I of Estimation and Costing, the topic named as Estimation of embankments is included in Quantity Estimation.
17. In Unit V of Estimation and Costing, the topic named as Valuation is changed as Introduction to Valuation.
18. In the syllabus of Estimation and Costing, the Unit IV named as Contracts is shifted to Construction Engineering and Management.
19. In the syllabus of Construction Engineering and Management, the Unit III & Unit IV is combined and named as Scheduling and Resource Management.
20. In Unit I of Design of Steel Structures, the topic named as Section classification is included and Design of Riveted connection is removed.
21. In Unit I of Design of Steel Structures, the topic named as Plastic Analysis of Beams is included and the word name joint is replaced by connection.
22. In the syllabus of Structural Design and Drawing, the experiment name Design of three dimensional truss system is modified as Design of steel truss system.

Action taken in the curriculum of Programme Elective & One Credit Elective Courses under R 2019.

23. The course named as Structural Analysis II is changed as Advanced Structural Analysis.
24. The course named as Higher Surveying is changed as Advanced Surveying.
25. The course named as Irrigation Engineering is added to Irrigation and Water Resource Engineering domain.
26. The course named as Advanced Structural Analysis is changed as Experimental Stress Analysis.

27. The course named as Advanced Structural Design is removed and the course named as Non Destructive Testing is added to Structural Engineering domain.
28. The course named as Building Marking is changed as Intelligent Building Marking in the curriculum of One Credit Elective Courses.

ANNEXURE II

Conduct of regular courses in online mode during covid-19 lockdown periods

Fourth semester courses

S.No	Course Code	Course Title
1	15CE41C	Strength of Materials
2	15CE42C	Applied Hydraulics and Hydraulic Machines
3	15CE43C	Professional Ethics and Human Values
4	15CE44C	Highway Engineering
5	15CE45C	Engineering Survey II
6	15CE46C	Construction Materials, Equipments and Practices

Sixth semester courses

S.No	Course Code	Course Title
1	15CE61C	Design of Steel Structures
2	15CE62C	Structural analysis II
3	15CE63C	Foundation Engineering
4	15CE64C	Waste Water Treatment and Management
5	15CE65C	Estimation and Quantity Surveying
6	15CE11E	Design of Reinforced Concrete and Brick Masonry Structures

ANNEXURE III

➤ Courses conducted to increase maximum credits to be earned as 31 for second years

S.No	Course Code	Course Title	Credits	Remarks
1	15CE01L	Recent advancements in special concretes	1	Out of this five courses, each student has selected three one credit courses
2	15CE04L	Traffic Engineering and safety	1	
3	15CE05L	Bridge construction techniques	1	
4	15CE07L	Building marking	1	
5	15CE19L	Environmental Legislations	1	
6	15ID02E	Disaster Management	3	Out of this two courses, each student has selected one three credit course
7	15ID03E	Energy Engineering	3	
8	15TD11E	Indian Culture and Heritage	3	Common to all students

➤ Courses conducted to increase maximum credits to be earned as 34 for third years

S.No	Course Code	Course Title	Credits	Remarks
1	15ID02E	Disaster Management	3	Out of this two courses each student has selected one three credit course
2	15ID03E	Energy Engineering	3	
3	15TD11E	Indian Culture and Heritage	3	Common to all students

ANNEXURE IV

Conduct of Online Internship programmes during covid-19 lockdown periods

Date	Forenoon Session		Afternoon Session	
	Expert Domain	Name of the Expert	Expert Domain	Name of the Expert
05.05.2020	Environmental Green building concepts	Er.G.Sokkanathan Banu Constructions	Structural Engineering	Er.S.Saravanan SRN Constructions
06.05.2020	Low cost Building	Er.J.George Joseph GEJAY Builders	Building Repair & Rehabilitation	Er.A.Lawrence Walter Walter Engg Cont.
07.05.2020	Building Materials	Er.T.Ragavan Shi Venkateswara Builders Kovilpatti	Building Planning	Er.M.Muthukumar Muthu Conctruction.
08.05.2020	Quality Control	Er.Ganeshkumar R.K.Constructions	Environmental Green building concepts	Er.G.Sokkanathan Banu Constructions Tiirunelveli
09.05.2020	Low cost Building	Er.J.George Joseph GEJAY Builders	Building Materials	Er.T.Ragavan Shri Venkateswara Builders Kovilpatti
11.05.2020	Quality Control	Er.Ganeshkumar R.K.Constructions	Structural Engineering	Er.S.Saravanan SRN Constructions
12.05.2020	Environmental Green building concepts	Er.G.Sokkanathan Banu Constructions	Building Materials	Er.T.Ragavan Shri Venkateswara Builders Kovilpatti
13.05.2020	Building Repair & Rehabilitation	Er.A.Lawrence Walter Walter Engg Cont	Low cost Building	Er.J.George Joseph GEJAY Builders
14.05.2020	Structural Engineering	Er.S.Saravanan SRN Constructions	Building Materials	Er.T.Ragavan Shi Venkateswara Builders
15.05.2020	Building Planning	Er.M.Muthukumar Muthu Conctruction	Quality Control	Er.Ganeshkumar R.K.Constructions
16.05.2020	Low cost Building	Er.J.George Joseph GEJAY Builders	Building Repair & Rehabilitation	Er.A.Lawrence Walter Walter Engg Cont.


CHAIRMAN BOARD

DR. P.Nallathambi,
Ph.D(Structural Engg), ME,MBA, FIE,FIV

**F1/ Accacia, 10-Bandhu Street
Ganapathy Nagar, Nagalkeni
Chromepet, Chennai 600 044.**

To

13.05.2020

Dr. Puthiya Sekar,
Professor and Head,
Department of Civil Engineering,
National Engineering College,
Kovilpatti-628503.

Dear Professor,

Subject: Requesting Approval for BOS meeting -Reg

Please refer your mail dated 12.05.2020 regarding approval for BOS meeting.

Thank you for sharing the students activities for various semesters in your college even during the difficult lockdown period of COVID 19.

As the department had done its best and I would like congratulate you and all the staff members of the college for making their best effort during this period.

As the progress of education activities are very excellent, As a member of BOS, I approve the meeting and request you to proceed further.

With Regards,



Dr. P. Nallathambi,
BOS Member.
13.05.2020



hod civil <hodcivil@nec.edu.in>

Requesting Approval for BOS meeting -Reg.

Dr T Velrajan <tvcivil@tce.edu>
To: hod civil <hodcivil@nec.edu.in>

Thu, May 14, 2020 at 12:00 PM

Dear Sir,

I have gone through the minutes of the Board of Studies meeting conducted on 11.5.2020 at your campus attended only by local members due to COVID19 lockdown. As an External member of the BoS, I very much accept the decisions of the Department in the conduct of online Teaching and Assessment initiatives taken. Hence, I approve the minutes of the BoS meeting held on 11.5.20.

Thanking you,

With warm regards,

T.Vel Rajan
Prof.&Head,
Department of Civil Engineering,
Thiagarajar College of Engineering
Madurai-625015

On Wed, May 13, 2020 at 2:06 PM hod civil <hodcivil@nec.edu.in> wrote:
[Quoted text hidden]



hod civil <hodcivil@nec.edu.in>

Requesting Approval for BOS meeting -Reg.

Arumairaj Paul Daniel <arumairajcbe@gmail.com>

Fri, May 15, 2020 at 2:18 PM

To: hod civil <hodcivil@nec.edu.in>

Dear Prof

Thank you for sending me the BOS minutes. I do appreciate the efforts put in by you for the benefit of Civil Engineering students. I hereby give my approval for the BOS minutes. Wishing you all the best

Regards,
Arumairaj

On 13-May-2020, at 2:06 PM, hod civil <hodcivil@nec.edu.in> wrote:

[Quoted text hidden]

<Approval Request Letter 13 May.doc>



hod civil <hodcivil@nec.edu.in>

Requesting Approval for BOS meeting -Reg.

aruls@iitm.ac.in <aruls@iitm.ac.in>

Wed, May 27, 2020 at 10:48 AM

To: hod civil <hodcivil@nec.edu.in>, kcraju64@gmail.com, pjeya@nitt.edu, tvciv@tce.edu, arumairajcbe@gmail.com, nalla.sakthi@gmail.com

Dear Prof Puthiya Sekar

The document of BoS is reviewed and approved from my side.

Thank you for referring the work to me. All the best.

Warm regards

Arul Jayachandran

Professor, IIT Madras

[Quoted text hidden]