

Department of Civil Engineering

MINUTES of the 18<sup>th</sup> Meeting of the Board of Studies held on  
25<sup>th</sup> May 2024, 10:00 am

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

**National Engineering College, K.R.Nagar, Kovilpatti – 628 503**  
*(An Autonomous Institution - Affiliated to Anna University, Chennai)*  
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18<sup>th</sup> Board of Studies Meeting in the Department of  
**Civil Engineering**

Venue: Civil Department

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

Date & Time: 25.05.2024 & 10.00 am

Agenda

BoS / CIVIL18.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Civil Engineering
BoS / CIVIL18.2	:	Confirmation of the Minutes of the 17 <sup>th</sup> meeting of Board of studies in the department of Civil Engineering held on 25 <sup>th</sup> November 2023 and Action taken report of 17 <sup>th</sup> Board of studies meeting.
BoS / CIVIL18.3	:	Business brought forward by the Chairman, Board of studies  18.3.1 Consider and approve the Syllabi of IV semester and Vertical courses for B.E. Civil Engineering under R 2023.
BoS / CIVIL18.4	:	Any other items
BoS / CIVIL18.5	:	Suggestions given by the BoS Members

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F. No. 1-1/NEC/Civil Engg.

25.05.2024

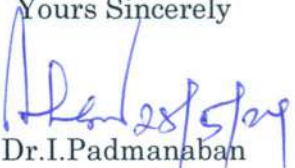
Dear Sir/Madam,

*Sub: Minutes of the 18<sup>th</sup> Meeting of the Board of Studies in the Civil Engineering - Reg.*

Kindly find attached herewith the Minutes of the 18<sup>th</sup> Board of studies Meeting of the Civil Engineering Programme of National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 25.05.2024 at 10.00 AM in Civil Engineering Department, 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](mailto: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. I. Padmanaban

## Department of Civil Engineering

### MINUTES OF THE MEETING

The 18<sup>th</sup> Board of Studies meeting of the Civil Engineering programme was held on 25<sup>th</sup> May 2024 at 10:00 am in Civil Engineering Department, National Engineering College, K.R.Nagar, Kovilpatti- 628503.

The following members were present:

1	Dr.I.Padmanaban, Professor&Head/Civil	Chairman
2	Dr.T.Baskaran, Professor, Department of Civil Engineering, Thiagarajar College of Engineering, Madurai-625 015.	University Nominee
3	Dr.R.Senthil, Professor, Department of Civil Engineering, Anna University (CEG campus), Chennai -600 025	Academic Expert
4	Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar College of Engineering, Madurai - 625 015.	
5	Dr.R.Manjula, Associate Professor, Department of Civil Engineering, National Institute of Technology (NITT), Tiruchirapalli - 620015.	
6	Dr.M.Ashok, Scientist, Corrosion and Materials Protection Division, CSIR-CECRI, Karaikudi-630003	Industrial Expert
7	Mr.P.Arun Perumal, Geo:Technical Consultant, Ayyan Associates, Chennai-82	
8	Mr.R.Satish Kumar, Sr.Manager-Detailing,	



	Aarbee Structures, Coimbatore.	
9	Dr.B.Arundsundaram, Principal Scientist, Structural Engineering Research centre, Chennai-600113	Scientist from Central Research Lab
10	Dr.V.Kannan, Asso.Prof-Civil	Internal Members
11	Dr.C.Chella Gifta, Asso.Prof-Civil	
12	Mrs. M.Balamaheswari, AP-Civil	
13	Mr.V.Arulpandian., AP-Civil	
14	Mr.B.Gowtham., AP-Civil	
15	Mr.S.Kannan., AP-Civil	
16	Mr.A.Darral Alfred., AP-Civil	
17	Mr.P.Kasirajan, AP-Civil	
18	Mr.K.Marimuthu, AP-Civil	
19	Mr.M.Ashokpandiyam, AP-Civil	
20	Ms.R.Harshani, AP-Civil	
21	Mr.G.Balamurali AP-Civil	Student Members
22	Ms.M.Akalya Laxmi, Third year	
23	Ms.M.Lakshitha, Third year	

Industrial Expert Mr.R.SatishKumar, Sr.Manager, Aarbee Structures, could not able to attend the meeting due to his prior commitment and unavoidable circumstances. However, Mr.satish kumar agreed to give his suggestions and feedback about the syllabi through mail.

BoS / CIVIL 18.1 : 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 18<sup>th</sup> Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CIVIL 18.2 : TO CONFIRM THE MINUTES OF SEVENTEENTH BOS MEETING HELD ON 25<sup>th</sup> NOVEMBER, 2023

The minutes of the Seventeenth Board of Studies meeting held on 25<sup>th</sup> November, 2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 20<sup>th</sup> Academic council meeting.

➤ Action Taken Report  
(Enclosed in Annexure I)

BoS/CIVIL 18.3 : To Consider and approve the Syllabi of IV semester and Vertical courses for B.E. Civil Engineering under R 2023.

RESOLVED TO approve the Syllabi of IV semester and Vertical courses for B.E. Civil Engineering under R 2023.

BoS / CIVIL 18.4 : 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 IV semester syllabi and vertical courses under R-2023.

BoS / CIVIL 18.5 : SUGGESTIONS GIVEN BY THE BOS MEMBERS

- 18.5.1 The members have requested to assess the appropriateness of action verbs in the course outcomes of all courses and reframe accordingly.
- 18.5.2 The members have suggested to offer 3-credit elective courses instead of 4 credits, as the number of courses offered with 4 credits is meager.
- 18.5.3 The members have suggested to provide two textbooks for each course, with additional text books to be added to the list of references.
- 18.5.4 It is suggested to adopt a different question pattern in the assessment procedure and to allocate marks according to the content of the course outcomes (COs).
- 18.5.5 Members proposed to have more number of courses under each vertical for opting professional elective courses in order to earn additional credits for securing Honors and Minor degree.

#### **IV SEM COURSES**

- 18.5.6 It is suggested to swap the content of CO3 and CO4 to maintain continuity with the previous content in the Strength of Materials course.



- 18.5.7 It is suggested to rephrase the content of CO5 in the Water Supply Engineering course to focus on the Economic Design of Networks, incorporating methods for analyzing water distribution networks. The topics such as demineralization and water softening could be moved from CO4 to CO3, with the inclusion of specific advanced treatment methods for water.
- 18.5.8 It is suggested to revise CO7 as 'Determine the Impact of Jet on Vanes' and to introduce separate COs, CO8 and CO9, for pumps and turbines, respectively, in the Hydraulics and Hydraulic Machines course.
- 18.5.9 It is suggested to reframe the course outcomes (COs) in the Advanced Surveying course. Additionally, members have requested the inclusion of a textbook covering hydrographic surveying and remote sensing.

#### *VERTICAL -STRUCTURES*

- 18.5.10 It is suggested to remove ABAQUS software from the content of CO5 in the Finite Element Techniques course.
- 18.5.11 The course title is proposed to be changed as 'Programming Techniques for Structural Design' for the Computer-Aided Design course. Additionally, it is instructed to design of structural elements by Python or C programming .
- 18.5.12 It is suggested to include all Eurocodes and American codes in the reference list for the Advanced Steel Design course.

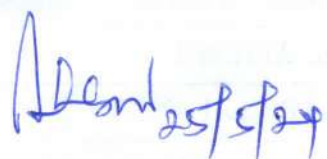

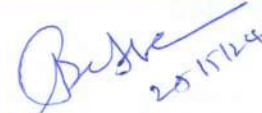
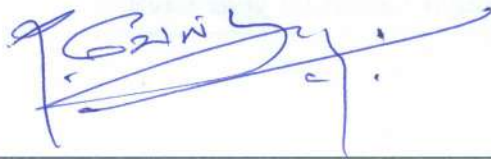

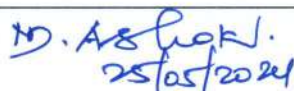



#### *VERTICAL -ENVIRONMENTAL*

- 18.5.13 It is suggested to add Environmental Policies and Legislation course under environmental electives, and remove the Environmental Instrumentation course.
- 18.5.14 The members have suggested combining municipal solid waste and hazardous waste management into a single course, rather than having two separate courses.
- 18.5.15 For the Environment Impact Assessment course, it is recommended to include the book 'Environment Impact Assessment' authored by Cander as a textbook.
- 18.5.16 It is suggested to incorporate Construction and Demolition waste management into CO5 of the Industrial waste Management course.
- 18.5.17 It is suggested to include a field visit as an experiential learning component in the Irrigation Engineering course to enhance understanding.
- 18.5.18 For the course Building Materials, CO 6 is to be reframed into two Cos.  
CO 6- collaborate and communicate effectively as a team member with proficiency in Building materials  
CO 7- Develop Knowledge on modern Building materials through field study


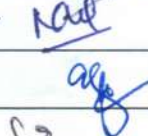
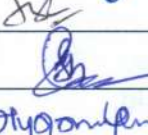
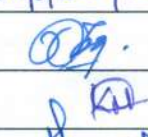

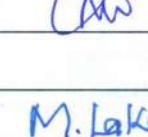
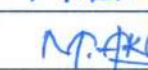







Based on the suggestions and recommendations given by the members, BoS resolved to recommend the following to the Academic Council for further approval.

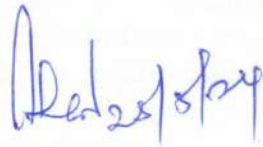
Mrs.M.Balamaheswari, AP-Civil, thanked all the members for their kind cooperation and the meeting came to an end.

**Members Present**

<b><i>Board Chairman</i></b>	
Dr.I.Padmanaban, Professor & Head, Department of civil Engineering, National Engineering college, K.R.Nagar, Kovilpatti-628503.	 25/5/24
<b><i>Academic Experts</i></b>	
Dr.T.Baskaran, Professor, (University Nominee) Department of Civil Engineering, Thiagarajar College of Engineering, Madurai-625 015.	 25/5/24
Dr.R.Senthil, Professor, Department of Civil Engineering, Anna University (CEG campus), Chennai -600 025	 25/5/24
Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar College of Engineering, Madurai – 625 015.	
Dr.R.Manjula, Associate Professor, Department of Civil Engineering, National Institute of Technology (NITT), Tiruchirapalli – 620015.	
<b><i>Industrial Expert</i></b>	
Dr.M.Ashok, Scientist, Corrosion and Materials Protection Division, CSIR-CECRI, Karaikudi-630003	 25/05/2024
Mr.P.Arun Perumal, Geo-Technical Consultant, Ayyan Associates, Chennai-82	 25/5/24
Mr.R.Satish Kumar, Sr.Manager- Detailing, Aarbee Structures, Coimbatore.	
<b><i>Scientist from Central Research Lab</i></b>	
Dr.B.Arundsundaram, Principal Scientist, Structural Engineering Research centre, Chennai-600113	



<i>Internal Members</i>	
Dr.C.ChellaGifita Asso.Professor/Civil	
Dr.V.Kannan Asso.Professor/Civil	
Mrs.M.Balamaheshwari AP/Civil	
Mr.V.Arulpandian AP/Civil	
Mr.B.Gowtham AP/Civil	
Mr.S.Kannan AP/Civil	
Mr.A.Darral Alfred AP/Civil	
Mr.P.Kasirajan AP/Civil	
Mr.K.Marimuthu AP/Civil	
Mr.M.Ashokpandiyan AP/Civil	
Ms.R.Harshani AP/Civil	
Mr.G.Balamurali AP/Civil	
<i>Student Members</i>	
M.Lakshitha III year Civil	
M.Akalya Laxmi III year Civil	

  
**CHAIRMAN**  
**Board of Studies**

## ANNEXURE I

### Action taken for Minutes of 17<sup>th</sup> BoS Meeting

As per BoS Committee Suggestions,

- 1 Building Construction Materials Course title is changed as Building Materials.
- 2 Basics of Surveying course is changed as Surveying.
- 3 Recent Edition of IS codes are updated in Building materials course.
- 4 Environmental and water resources are combined and made as a single vertical domain.
- 5 Building Byelaws and Planning rules as per CMDA are added in the Building Planning and Drawing Course.
- 6 Recent Edition of textbooks are updaed.

**18<sup>th</sup> BOARD OF STUDIES MEETING - DEPARTMENT OF CIVIL ENGINEERING ON 25.05.2024**



GPS Map Camera

Kovilpatti, Tamil Nadu, India - 628503.

Computer Centre, Department of Civil Engineering, National Engineering College, K.R.Nagar.

Lat 9.148972°

Long 77.831136°

25/05/24 11:06 AM India Standard Time

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