

Department of Civil Engineering

MINUTES of the 12th Meeting of the Board of Studies held on
23rd June 2021, 10:15 am

Venue: Through Google Meet (Online)

https://drive.google.com/file/d/1xhhq4M96oLdVrLoLdjgE4a_nptt_xnF8/view?usp=sharing

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

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

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

www.nec.edu.in

Department of Civil Engineering

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12th Board of Studies Meeting in the Department of
Civil Engineering

Venue: Through Google Meet (Online)

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

Date & Time: 23.06.2021 & 10.15 am

Agenda

| | | |
|-----------------|---|---|
| BoS / CIVIL12.1 | : | Welcome address and Opening Remarks by Chairman, Board of studies in the department of Civil Engineering |
| BoS / CIVIL12.2 | : | Confirmation of the Minutes of the 11 th meeting of Board of studies in the department of Civil Engineering held on 17 th December 2020 and Action taken report of 11 th meeting of Board of studies |
| BoS / CIVIL12.3 | : | Business brought forward by the Chairman, Board of studies 12.3.1 The Syllabus of part of One credit (OEC) and Programme elective (PEC) courses for UG Degree Programme under Regulation 2019. |
| BoS / CIVIL12.4 | : | Any other items |
| BoS / CIVIL12.5 | : | Suggestions given by the BoS Members |

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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F. No. 1-1/NEC/Civil Engg.

23.06.2021

Dear Sir/Madam,

Sub: *Minutes of the 12th Meeting of the Board of Studies in the Civil Engineering - Reg.*

Kindly find attached herewith the Minutes of the 12th Meeting of Board of studies of the Civil Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 23.06.2021 at 10.15 AM through Google Meet (online). 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 12th Meeting of the Board of Studies of the Civil Engineering was held on 23rd June 2021 at 10:15 am through online Google Meet conducted by Civil Department, National Engineering College, K.R.Nagar, Kovilpatti- 628503

The following members were present:

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| 1 | Dr.C.PuthiyaSekar Professor & Head | Chairman |
| 2 | Dr.A.Cyril Thomas AP(SG)-Civil | Internal Members |
| 3 | Dr.C.Chella Gifta AP-Civil | |
| 4 | Mr.S.Sebastin AP-Civil | |
| 5 | Mr.R.Sivasankar AP-Civil | |
| 6 | Mr.S.Danielraj AP-Civil | |
| 7 | Mrs.M.Balamaheshwari AP-Civil | |
| 8 | Mr.V.Arulpandian AP-Civil | |
| 9 | Mr.B.Gowtham AP-Civil | |
| 14 | Dr. S. Arul Jayachandran, Professor, Department of Civil Engineering, Indian Institute Technology Madras, Chennai -600 036. | Academic Experts |
| 15 | Dr.P.Jayabalan Professor , Department of Civil Engineering, National Institute of Technology Trichy | |
| 16 | Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar college of Engineering, Madurai- 625 015. | |
| 17 | Dr.K.Chinnaraju, Professor, Department of Civil Engineering, College of Engineering Guindy campus, Anna University, Chennai-600 025. | University Nominee |
| 18 | Dr.P.D.Arumairaj, Principal Consultant, | |

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|--|--|-------------------|
| | AlzumGeoCivil Integrated Services, Thadagam Road, Coimbatore -6414 025. | Industrial Expert |
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BoS / CIVIL 12.1 : 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 12th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CIVIL 12.2 : TO CONFIRM THE MINUTES OF ELEVENTH BOS MEETING HELD
ON 17th DECEMBER, 2020

The minutes of the **Eleventh Board of Studies meeting** held on 17th DECEMBER, 2020 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 14th Academic council meeting.

➤ **Action Taken Report**

(Enclosed in Annexure I)

BoS/CIVIL 12.3.1 : **TO CONFIRM AND APPROVE THE SYLLABUS OF PART OF ONE
CREDIT (OEC) AND PROGRAMME ELECTIVE (PEC) COURSES FOR
UG DEGREE PROGRAMME UNDER REGULATION 2019.**

RESOLVED TO approve the syllabus of part of One credit (OEC) and Programme elective (PEC) courses for UG Degree Programme under Regulation 2019.

BoS / CIVIL 12.4 : **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 Curriculum & the syllabus of Programme Elective Courses under R-2019

BoS / CIVIL 12.5 : **SUGGESTIONS GIVEN BY THE BOS MEMBERS**

The suggestions given by the BoS Members in Programme Elective Courses under R 2019.

12.5.1 In unit I of Storage Structures, BoS recommended to include the topic named as Oil storage structures along with water tank.

12.5.2 In Theory of Plates, BoS recommended to add the following text books such as,

- a) Rudolph Szilard, "Theories and Applications of Plate Analysis", Wiley India Pvt. Ltd.
 - b) Prof. K. Bhaskar and Prof. T.K. Varadan (Retd.) Plates: Theories and Applications, 2014 John Wiley & Sons, Ltd.
 - c) Bairagi, K.A Text Book of Plate Analysis, Khanna Publisher, New Delhi
- 12.5.3 In Tall Buildings, BoS recommended to add the following text book as a reference book
- a) Wolfgang Schueller, High-rise building structures, Publisher : Wiley (January 1, 1977)
- 12.5.4 In Computer Aided Design of Structures, BoS recommended to remove Unit V Software Application and advised to include software application with each Units. Instead of that, they also suggested to split any one of the Unit into two Units to make it as the Unit V.
- 12.5.5 In Industrial Structures, BoS recommended to add the following text book as a reference book
- a) Clarence W Dunham, Planning industrial structures, Publisher : McGraw-Hill Book Co; 1st edition (January 1, 1948).
 - b) National Building codes.
- 12.5.6 In the curriculum of R 2019, BoS recommended that the course named as Smart Structures and Smart Materials to be changed as Smart Materials and Smart Structures and also suggested to include a text book such as,
- a) Sadhu Singh, " Experimental Stress Analysis " Khanna Publisher : (1 January 1981).
- 12.5.7 In Basics of Dynamics and Aseismic Design, BoS recommended to add the following text book such as,
- a) S.R. Damodarasamy and S. Kavitha , Basics of Structural Dynamics and Aseismic Design, Publisher : PHI (1 December 2009)
- 12.5.8 In Design of Shell Structures, BoS recommended to add the following text book such as,
- a) Binoy. K. Chatterji, Theory and Design of Concrete Shells, Publisher : Spon Press; Revised edition (1 November 1988)

The suggestions given by the BoS Members in One Credit Elective Courses under R 2019.

- 12.5.9 In the curriculum of R 2019, BoS recommended that the course named as Introduction to Timber Structures to be changed as Timber Structures.

- 12.5.10 In Seismic Evaluation and Retrofitting of structures, BoS recommended to include the topic named as Testing techniques for Damage Assessment.
- 12.5.11 In Tunneling Techniques, BoS recommended to include the topic named as Tunnel Grouting.
- 12.5.12 In Soil Contamination and Remediation, BoS recommended to remove the topic named as Environmental laws and regulations and also suggested to add more soil remediation methods.
- 12.5.13 In Environmental Engineering Drawing, BoS recommended to remove the topic named as Sedimentation tank and also suggested to add screening topic along with Rapid Sand Filter.
- 12.5.14 In Analytical Instrumentation, BoS recommended to remove the topic named as Radiation Analysis.

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

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

- a) The syllabus of part of one credit (OEC) and programme elective (PEC) courses for UG degree programme under R 2019.

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

External Members Present Online:

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| 1. | Dr.K.Chinnaraju, Professor, Department of Civil Engineering, College of Engineering Guindy campus, Anna University, Chennai-600 025. | University Nominee |
| 2. | Dr. S. Arul Jayachandran, Professor, Department of Civil Engineering, Indian Institute Technology Madras, Chennai -600 036. | Academic Expert |

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| 3. | Dr.P.Jayabalan, Professor, Department of Civil Engineering, National Institute of Technology, Trichy. | Academic Expert |
| 4. | Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar college of Engineering, Madurai- 625 015. | Academic Expert |
| 5. | Dr.P.D.Arumairaj, Principal Consultant, AlzumGeoCivil Integrated Services, Thadagam Road, Coimbatore -6414 025. | Industrial Expert |

Internal Members Present Online

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|--|------------------|
| Dr.C.PuthiyaSekar Professor & Head Department of civil Engineering | Chairman |
| Dr.A.Cyril Thomas AP (S.G) - Civil | Internal Members |
| Dr.C.Chella Gifta AP-Civil | |
| Mr.S.Sebastin AP-Civil | |
| Mr.R.Sivasankar AP-Civil | |
| Mr.S.Danielraj AP-Civil | |
| Mrs.M.Balamaheswari AP-Civil | |
| Mr.V.Arulpandian AP-Civil | |
| Mr.B.Gowtham AP-Civil | |



CHAIRMAN

BOARD OF STUDIES

ANNEXURE I

Action taken for Minutes of 11th BoS Meeting

As per BoS Committee Suggestions,

1. In unit I of Advanced Steel Structures, the title is changed as Introduction instead of Introduction to beam column.
2. The topic called Pre-engineering building techniques is included in unit II of Advanced Steel Structures.
3. The topic called Fire damaged building is included in unit V of Non Destructive Testing.
4. In the curriculum of R 2019, the course named as Earthquake Geotechnical Engineering is changed as Geotechnical Earthquake Engineering.
5. In unit I of Environmental Impact Assessment, the title title is changed as Introduction to EIA instead of Fundamentals and Introduction to EIA.
6. The topic called as Green building and Bio mimicry is included in unit III of Ecological Engineering.
7. The topic called Design of Machine foundation and well foundation is included in Design of Foundation elements.
8. The topic called Prestressed Prefabrication technique is included in Bridge Construction Techniques.
9. The content related to fundamental topics and Imhoff tank was removed in Decentralised Waste Water Treatment Systems (DEWATS).
10. The topic such as Setting out of building, Contour preparation and 3D scanning of building are included in Building marking.
11. In the curriculum of R 2019, the course named as Earth quake Resistance Considerations as per Indian Standards is changed as Earthquake Resistant Design.
12. In the curriculum of R 2019, the course named as Environmental Noise Pollution and Control is changed as Environmental Noise Pollution.
13. In the curriculum of R 2019, the course named as Computer aided building drawing is changed as Computer aided Building Layout drawing.