



NANDHA ENGINEERING COLLEGE, ERODE – 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and Approved by AICTE New Delhi)

Department of Civil Engineering

| 12th BoS Meeting on 01.06.2024 (Saturday) @ 10.00 am | |
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| AGENDA | |
| Item 12.01 | Introduction of members |
| Item 12.02 | Review of Institute Vision and Mission |
| Item 12.03 | Review of Department Vision, Mission, PEOs and PSOs |
| Item 12.04 | Review and Approval of the 11 th BoS Meeting Minutes and ATR |
| Item 12.05 | Review and Approval of the PAC and DAB Meeting Minutes |
| Item 12.06 | Curriculum and Syllabus Review / Approval <ul style="list-style-type: none">• 5th to 8th semester syllabus (R22) with CO – PO/PSO mapping• Verticals - Honor and Minor Courses (R22) |
| Item 12.07 | Review on R22 Curriculum and Syllabus ratification for 1 st to 4 th semesters, if any |
| Item 12.08 | Review on R22 Regulations |
| Item 12.09 | Review on Result Analysis and Attainment of CO- PO/PSO (Target Fixed and attained) for the Odd Semester 2023-24 (I, II,III & IV year) |
| Item 12.10 | Review and Approval of One Credit / Value Added Courses |
| Item 12.11 | Approval of Panel of Examiners |
| Item 12.12 | Review of AICTE Model Curriculum and National Education Policy (NEP) |
| Item 12.13 | Discussion on Curriculum Development - New Draft NBA SAR (June 2024) |
| Item 12.14 | Discussion on Strategic Plan |
| Item 12.15 | Discussion on syllabus references from Professional Societies |
| Item 12.16 | Discussion on Teaching Learning Process - Changes in assessment pattern and Teaching Pedagogy |
| Item 12.17 | Review on best practices in the department |
| Item 12.18 | Any other matters |



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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE BOARD OF STUDIES (BoS) MEETING

The 12th BoS meeting for the AY 2023-24 was held on 01.06.2024 (Saturday) at 10.00 am in IQAC meeting hall. The Chairman of the BoS, Dr. E. K. Mohanraj, welcome the members of the meeting followed by the items listed below taken for discussion.

The proceedings of BoS started and the minutes of the meeting were recorded as follows:

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| Item 12.01 | Introduction of members |
| Introduction | BoS Chairman Dr. E. K. Mohanraj welcome the University Nominee, Subject Experts (from Academic), representative from industry, Alumni and internal faculty members. |
| Item 12.02 | Review of Institute Vision and Mission |
| Discussion | <u>Vision</u> To be an Institute of excellence providing quality Engineering, Technology and Management education to meet the ever-changing needs of the society. <u>Mission</u> <ul style="list-style-type: none">• To provide quality education to produce ethical and competent professionals with social responsibility.• To excel in the thrust areas of Engineering, Technology and Entrepreneurship by solving real- world problems.• To create a learner centric environment and improve continually to meet the changing global needs. |
| <i>Resolution</i> | <i>Resolved to record.</i> |
| Item 12.03 | Review of Department Vision, Mission, PEOs and PSOs |
| Discussion | The department vision and mission, PEOs and PSOs were presented to the members. |
| <i>Resolution</i> | <i>Vision and mission, PEOs and PSOs were recommended.</i> |
| Item 12.04 | Review and Approval of the 11 th BoS Meeting Minutes and ATR |
| Discussion | The 11 th BoS meeting minutes and ATR were reviewed. |
| <i>Resolution</i> | <i>Resolved to approve the 11th BoS meeting minutes and ATR.</i> |
| Item 12.05 | Review and approval of the PAC and DAB meeting minutes |
| Discussion | The PAC and DAB meeting minutes were reviewed. |
| <i>Resolution</i> | <i>Resolved to approve the PAC and DAB meeting minutes.</i> |

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| Item 12.06 | <p>Curriculum and syllabus Review / Approval</p> <ul style="list-style-type: none"> • 5th to 8th semester Syllabus (R22) with CO - PO/PSO Mapping • Verticals - Honor and Minor Courses (R22) |
| Discussion | <p>BoS Chairman presented R22 curriculum, Semester 5th to 8th syllabi of courses and verticals</p> <p><u>Semester - 5</u> Course 1: Design of RC Structures – Recommended Course 2: Foundation Engineering - Recommended Course 3: Design of Steel Structures - Recommended Course 4: Concrete Technology Laboratory Course 5: Design and Drawing Laboratory ➤ <i>Members suggested to include Irrigation and Environmental Structural Designs.</i></p> <p><u>Semester - 6</u> Course 1: Estimating and Costing - Recommended Course 2: Pre Engineering Buildings - Recommended Course 3: Computer Aided Structural Design Laboratory - Recommended Course 4: Survey Camp – Recommended</p> <p><u>Semester - 7</u> Course 1: Design Project – Recommended Course 2: Internship/ Industrial Training – Recommended</p> <p><u>Semester – 8</u> Course 1: Project Work - Recommended</p> <p><u>Verticals:</u></p> <p><u>Vertical 1 - Structures</u> Course 1: Advanced Steel Design - Recommended Course 2: Prefabricated Structures – Recommended Course 3: Prestressed Concrete Structures - Recommended Course 4: Distress Monitoring and Rehabilitation of Structures- Recommended Course 5: Dynamics and Earthquake Resistant Structures - Recommended Course 6: Introduction to Finite Element Method – Recommended Course 7: Advanced Structural Analysis - Recommended Course 8: Steel Concrete Composite Structures – Recommended</p> <p><u>Vertical 2 - Construction Engineering and Management</u> Course 1: Construction Equipment and Management - Recommended Course 2: Sustainable and Lean Construction - Recommended Course 3: Safety in Construction practices - Recommended Course 4: Advanced Construction Techniques - Recommended Course 5: Energy Efficient Buildings - Recommended Course 6: Construction Engineering and Management - Vertical title and the course title are found to be same, Can be changed with Construction Planning and Scheduling / Project Formulation and Appraisal. Course 7: Architecture and Town Planning - Recommended Course 8: Contract Management - Recommended</p> <p><u>Vertical 3 - Infrastructure Engineering</u> Course 1: Airports and Harbours - Recommended Course 2: Traffic Engineering and management – Recommended</p> |

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| | <p>Course 3: Urban Planning and Development - Recommended</p> <p>Course 4: Smart Cities - Recommended</p> <p>Course 5: Intelligent Transport Systems - Recommended</p> <p>Course 6: Pavement Engineering – Recommended</p> <p>Course 7: Transportation Planning Process – Recommended</p> <p>Course 8: Transportation Economics – Recommended</p> <p><u>Vertical 4 - Environmental and Water Resources</u></p> <p>Course 1: Climate Change Adaptation and Mitigation - Recommended</p> <p>Course 2: Air and Noise pollution Control Engineering - Recommended</p> <p>Course 3: Environmental Impact Assessment - Recommended</p> <p>Course 4: Industrial Wastewater Management - Recommended</p> <p>Course 5: Solid and Hazardous Waste Management - Recommended</p> <p>Course 6: Plumbing (Water & Sanitation) – Recommended</p> <p>Course 7: Transport and Environment - Recommended</p> <p>Course 8: Groundwater Engineering – Recommended</p> <p><u>Vertical 5 - Geotechnical</u></p> <p>Course 1: Ground Improvement Techniques - Recommended</p> <p>Course 2: Engineering Geology - Recommended</p> <p>Course 3: Site Investigation and Soil Exploration - Recommended</p> <p>Course 4: Environmental Geo Technology - Can be replaced with Slope Stability and Landslides</p> <p>Course 5: Rock Mechanics - Recommended</p> <p>Course 6: Geo Environmental Engineering – Recommended</p> <p>Course 7: Offshore Engineering - Recommended</p> <p>Course 8: Pile Foundation - Can be replaced with Advanced Foundation Engg.</p> <p><u>Vertical 6 - Diversified Course</u></p> <p>Course 1: Green Buildings - Recommended</p> <p>Course 2: Building Information Modelling – Recommended</p> <p>Course 3: Total Station and GPS Surveying - Rename as Advanced Surveying</p> <p>Course 4: Remote Sensing and GIS – Recommended</p> <p>Course 5: AI in Civil Engineering - Recommended</p> <p>Course 6: Rainwater Harvesting – Recommended</p> <p>Course 7: Disaster Preparedness and Planning – Recommended</p> <p>Course 8: Construction Economics and Finance</p> |
| Resolution | <ul style="list-style-type: none"> • <i>Irrigation and Environmental Structural Designs experiments are included in the Design and Drawing Laboratory.</i> • <i>Construction Planning and Scheduling course are included instead of Construction Engineering and Management.</i> • <i>Pile Foundation course is replaced with Advanced Foundation Engineering.</i> • <i>Slope Stability and Landslides course included in curriculum instead of Environmental Geo Technology.</i> • <i>Total Station and GPS Surveying course renamed as Advanced Surveying.</i> |
| Discussion | Verticals are shuffled |
| Resolution | <i>Vertical courses will be aligned with basic courses initially and later on with advanced courses.</i> |
| Discussion | More number of tutorials can be introduced for analytical courses |

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| <i>Resolution</i> | <i>Will be included in fifth and sixth semester analytical courses</i> |
| Discussion | Courses in verticals and one credit courses are found to be same |
| <i>Resolution</i> | <i>One Credit Courses will be conducted based on industrial demand / need basis</i> |
| Item 12.07 | Review on R22 Curriculum and Syllabus ratification for 1 st to 4 th semesters, if any |
| Discussion | R22 Curriculum were reviewed |
| <i>Resolution</i> | <i>Resolved to approve the same</i> |
| Item 12.08 | Review on R22 Regulations |
| Discussion | Embedded course evaluation has to be modified |
| <i>Resolution</i> | <i>Resolved with individual evaluation of theory and practical's separately</i> |
| Item 12.09 | Review on Result Analysis and Attainment of CO- PO/PSO (Target Fixed and attained) for the Odd Semester 2023-24 (I, II, III & IV Year) |
| Discussion | Attainment Level found to be low |
| <i>Resolution</i> | <i>Resolved to improve with the students level by conducting remedial classes</i> |
| Item 12.10 | Review and Approval of One Credit / Value Added Courses |
| Discussion | Advanced courses can be introduced as value added courses |
| <i>Resolution</i> | <i>Resolved by planning for Vasthu and layout, Revit Architecture software, E-Tab courses and Plumbing, Electrical and Ventilation courses for value added and credit courses</i> |
| Item 12.11 | Approval of Panel of Examiners |
| Discussion | The Panel of Examiners was reviewed. |
| <i>Resolution</i> | <i>Resolved to approve the Panel of Examiners as such.</i> |
| Item 12.12 | Review of AICTE model Curriculum and National Education Policy (NEP) |
| Discussion | Number of credits and course exemption were reviewed |
| <i>Resolution</i> | <i>Credit courses, NPTEL and minor courses were introduced as per NEP</i> |
| Item 12.13 | Discussion on Curriculum Development – New Draft NBA SAR (June 2024) |
| Discussion | New draft SAR were reviewed |
| <i>Resolution</i> | <i>Environmental and Sustainability PO has been merged with PO6 (Engineer and Society) and total PO's has been reduced to 11 as per new draft SAR (June 2024)</i> |
| Item 12.14 | Discussion on Strategic Plan |
| Discussion | Quality Plan were reviewed |
| <i>Resolution</i> | <i>Number of courses and conferences attended can be increased according to the strength of the students</i> |
| Item 12.15 | Discussion on syllabus references from Professional Societies |
| Discussion | Syllabus references from Professional bodies were reviewed |
| <i>Resolution</i> | <i>Resolved by including inputs from professional societies for project and co-curricular activities.</i> |

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| Item 12.16 | Discussion on Teaching Learning Process - Changes in assessment pattern, Teaching Pedagogy |
| Discussion | Teaching Learning process were reviewed |
| Resolution | <i>Resolved by adding NPTEL videos and teaching methodology through experiential learning</i> |
| Item 12.17 | Review on best practices in the department |
| Discussion | Best practices of the department has been reviewed |
| Resolution | <i>Resolved by involving students in consultancy and testing activities. Presentation by bright students or topper regarding the activities he/she involved (Projects/Conference/Workshops)</i> |
| Item 12.18 | Any other matters |
| Discussion | Certification courses need not be mandatory in V and VI semester for all students. |
| Resolution | <i>Will be resolved with the interested students alone</i> |
| Discussion | Policies or Strategies can be framed for students quitting their programme as per NEP 2020. |
| Resolution | <i>Will be framed accordingly based on the students quitting the programme as per NEP by forwarding to Academic Council.</i> |
| Discussion | COs and POs mapping were reviewed |
| Resolution | <i>The entire COs must be mapped with the POs for all the courses. Hence project, Seminars and discussion can be given depending on the course content.</i> |
| Discussion | Course Outcomes order were reviewed |
| Resolution | <i>Course outcomes should be in the order of apply, analyze and design. Mapping of POs in the order of PO1, PO2, PO3 etc.,</i> |
| Discussion | <i>In semester 5, communication and Quantitative Reasoning course is included in curriculum.</i> |
| Resolution | <i>Resolved to approved</i> |

Date: 01.06.2024

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7/16/24

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Chairman
BoS - Civil Engg.
01/06/24

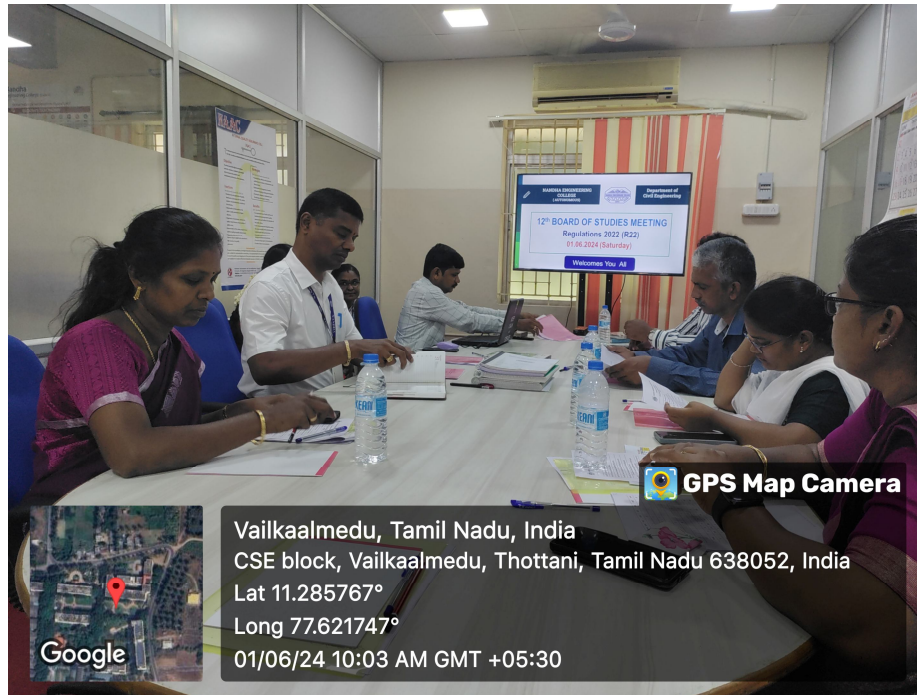


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ERODE - 638 052

Department of Civil Engineering 12th BoS Meeting on 01.06.2024 (Saturday)



Snapshot of 12th Board of Studies (BoS) Meeting held on 01.06.2024 @ 10.00 am in IQAC meeting room



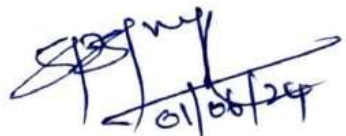
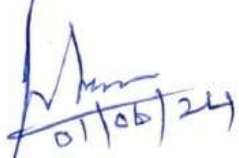


NANDHA ENGINEERING COLLEGE
(Autonomous Institution)
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

BOARD OF STUDIES

Academic Year: 2023-24 -EVEN SEMESTER

| | | | | |
|--------------|-------------------|------------------------|-------------------------------------|-----|
| Board | Civil Engineering | Meeting No. | 12 | R22 |
| Venue | IQAC MEETING HALL | Date & Time | 1 st June 2024, 10.00 AM | |

MEMBERS ATTENDED

| Sl.No | Members | Representation | Signature |
|-------|---|---------------------------------|---|
| 1 | Dr. S. P. Jeyapriya, Ph D Professor Department of Civil Engineering Government College of Technology Coimbatore - 641 013 94431 57730 jeyapriya@gct.ac.in | University Nominee |  01/06/24 |
| 2 | Dr. K. Krishnamurthy, Ph D Professor Department of Civil Engineering NIT Calicut – 673 601 95673 82944 kk@nitc.ac.in | Member (Subject Expert) |  01/06/24 |
| 3 | Dr. N. Anand, Ph D Associate Professor Karunya University, Karunya Nagar Coimbatore – 641 114 94861 15105 nanand@karunya.edu | Member (Subject Expert) | — ABSENTIA — |
| 4 | Er. M. Elgiva John, M. Tech Chief Executive Manager Endeavour Associates Tirupur 94860 84343 endeavourassociates@gmail.com | Representative from Industry |  01/06/2024 |
| 5 | Er.M.Bhuvaneshwari M.E Project Designer Clifton Infrastructure Pvt Ltd Erode | Alumni |  01.06.2024 |



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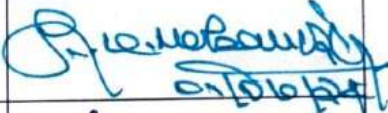
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DEPARTMENT OF CIVIL ENGINEERING

ATTENDANCE OF THE 12th BoS MEETING OF THE ACADEMIC YEAR 2023-24

01.06.2024

INTERNAL MEMBERS

| S.No | Name of the Member | Designation | Signature |
|------|---|-------------|---|
| 1 | Dr. E. K. Mohanraj, Professor & Dean | Chairman |  01/06/24 |
| 2 | Mrs. K. Selvi, Assistant Professor | Member | K. Selvi 1/6/24 |
| 3 | Mr. K. C. Denesh, Assistant Professor | Member | K. C. Denesh 1/6/24 |
| 4 | Mr. A. Abdul Hameed, Assistant Professor | Member | — ON DUTY — |
| 5 | Mr. K. L. Ravisankar, Assistant Professor | Member | K. L. Ravisankar 1/6/24 |
| 6 | Mr. S. Gnana Venkatesh, Assistant Professor | Member | S. Gnana Venkatesh 01/06/24 |
| 7 | Mr. M. Yeswanth, Assistant Professor | Member | M. Yeswanth 01/06/24 |
| 8 | Mr. KU. Manikandhan, Assistant Professor | Member | — ABSENT — |
| 9 | Mr. M. K. Kamalakkannan, Asst. Professor | Member | M. K. Kamalakkannan 01/06/24 |
| 10 | Mr. V. Aravind, Assistant Professor | Member | V. Aravind 1/6/24 |