



# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

**DEPARTMENT OF MECHANICAL ENGINEERING**

## **SPECIAL BOS – MINUTES OF MEETING**

**DATE : 24<sup>th</sup> September 2022**

**VENUE : Conference Hall**

**Time : 11:00 am**

**Chairman BOS (ME Board)**  
Department of Mechanical Engineering  
New Horizon College of Engineering (Autonomous)  
Bengaluru - 560 103.

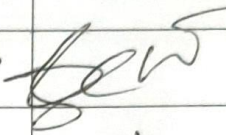

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## AGENDA FOR THE MEETING

- ❖ **Agenda - 1** Discussion on 3<sup>rd</sup> and 4<sup>th</sup> Semester Syllabus for 2021- 2025 batch - 160 credits
- ❖ **Agenda - 2** Discussion on 1<sup>st</sup> to 8<sup>th</sup> semester Scheme - 2021-2025 batch
- ❖ **Agenda - 3** Core courses comparison Matrix

## LIST OF MEMBERS PRESENT

Sl. No.	Nomination of the committee	Name of the person	Affiliated To	Signature
1.	Chairperson	Dr. Shridhar Kurse	Head of the Department, NHCE, Bangalore	
2.	Special Invitees	Dr. Manjunatha	Principal, NHCE, Bangalore	online
3.	Special Invitees	Dr. R J Anandhi	Dean Academics, NHCE, Bangalore	online
4.	Representative from Industry	Deepankar Bhattacharya	Director, Dunham Bush India Operation	online
5.	Representative from Industry	Mr. Ananthkumar Mani	Vice president PLM Practice, Capgemini	online
6.	Special Invitees	Prof. Asis Mazumdar	Professor of Water Resources Engineering School of Water Resources Engineering, Nodal Officer, Key Resource Center - Ministry of Drinking Water and Sanitation, Govt. of India Jadavpur University Kolkata -700032 West Bengal, INDIA	online
7.	Special Invitees	Mr. Allabaksh Naikodi	Head(Electric Vehicle), Royal Enfield, Chennai	online
8.	BOS Coordinator and Member	Dr. Sudarshan T A	NHCE, Bangalore	
9.	Member	Dr. Adhikary P	NHCE, Bangalore	online

## WELCOME ADDRESS BY THE CHAIRMAN OF BOS

### *Minutes*

The Board of Studies meeting for Department of Mechanical engineering was scheduled on 24-09-2022 at 11.00 AM in Conference Hall, NHCE.

At the outset, Chairperson Dr. Shridhar Kurse – Professor & Head – Department of Mechanical Engineering, welcomed the Members for attending the Board of studies meeting held in Conference Hall via offline mode.

The chairperson expressed special thanks to Mr. Deepankar Bhattacharya, Mr. Ananthkumar Mani, Prof. Asis Mazumdar, Mr. Allabaksh Naikodi for sparing the time from their busy schedule to give inputs for designing mechanical Engineering NEP syllabus.

### AGENDA - 1

**TITLE** Discussion on 3<sup>rd</sup> and 4<sup>th</sup> Semester Syllabus for 2021- 2025 batch - 160 credits

Discussion on Syllabus of 3<sup>rd</sup> and 4<sup>th</sup> Semester courses of 160 credits program was deliberated by Dr. Shridhar Kurse.

This agenda was unanimously approved by the members with few suggestions/ recommendations

### AGENDA - 2

**TITLE** Discussion on 1<sup>st</sup> to 8<sup>th</sup> semester Scheme - 2021-2025 batch

Discussion on scheme of 1<sup>st</sup> to 8<sup>th</sup> semester of 160 credit program was presented by Dr. Shridhar Kurse. This agenda was unanimously approved by the members with few suggestions/ recommendations.

### AGENDA - 3

**TITLE** Core Courses comparison Matrix

Dr. Shridhar Kurse, Professor and HOD of Department of Mechanical Engineering compared the NHCE Mechanical core Courses with various IIT/NIT's core courses.

## VOTE OF THANKS BY THE CHAIRMAN OF BOS

The Chairman – BoS, Dr. Shridhar Kurse thanked the external members, industry representatives for their fruitful participation on behalf of the Principal and the Management. He also thanked all the other members of the BOS and course coordinators for their active participation.

### RECOMMENDATIONS / SUGGESTIONS OF BOS MEMBERS

- Mr. Deepankar Bhattacharya suggested that Looking at the current trend, the following could be few relevant subjects
  - Refrigeration and Air-conditioning
  - Renewable energy
  - Robotics and automation
  - Artificial intelligence and Machine Learning
  - Electric and Hybrid Vehicle
  
- Mr. Ananth Kumar Mani have reviewed the new syllabus for ME studies and found it to be very good. There are few areas that he recommended to be considered in view of the industry demand and the future emerging trends.
  1. Introduction of an elective course on Model Based System Engineering (MBSE)
    - a. This may be offered in the 6th Semester schedule
    - b. This may be included in the category of Professional Elective-III (Hybrid & Electric Vehicles Domain) as Automotive and Aerospace industries are early adopters of MBSE practices
    - c. This course shall be offered with a lab on MBSE tools such as Dassault's NoMagic or Matlab or IBM's Rhapsody
  2. Introduction of an elective course on Design Automation
    - a. This may be offered in the 7th Semester schedule
    - b. This may be included in the category of Professional Elective-VI (Artificial Intelligence & Machine Learning Domain), since this will need basic programming skills in C/C#
    - c. This course shall be offered with a lab on Catia CAA (or) NX Open (or) Creo Toolkit
  
- Prof. Ashish Mazumdar suggested the following subjects should be made compulsory in connection to industry orientation.
  1. Renewable Energy
  2. Robotics
  3. Electric Vehicles
  4. Mechatronics
  5. Refrigeration and Air Conditioning
  
- Mr. Allabaksh Naikodi suggested the following industry oriented subjects which are interdisciplinary to mechanical engineering:
  1. EV Powertrain (including battery, drivetrain, charging, control and communication)
  2. Automotive Remote Monitoring and Diagnostics (for both EV and ICE)