



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. [www.cbti.ac.in](http://www.cbti.ac.in)



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**42**  
years

## MECHANICAL ENGINEERING DEPARTMENT

Dt.14.04.2021

To

Sri T.Madhusudhan,  
Engineer,BDL  
Banur

Respected Sir,

Sub: Board of Studies in Mechanical Engineering, CBIT (Autonomous) – convening the meeting of the Board of Studies in Mechanical Engineering on 17.04.2021 – Reg.





















An online meeting of the Board of studies in Mechanical Engineering will be convened on Saturday, 17<sup>th</sup> April, 2021 at 10.30 a.m to discuss the following agenda.

### AGENDA

1. To consider and approve the scheme of B.E III,IV,V,VI,VII&VIII Semester (Mechanical Engineering) under curriculum R-20.
2. To consider and approve the syllabus for B.E III and IV Semesters (Mechanical Engineering) under curriculum R-20.
3. To consider and approve the curriculum syllabus for M.E. (CAD/CAM) & M.E (Thermal Engg.) III & IV Semester under curriculum R-20
4. Any other item with the permission of the chair

I am hereby requesting you to kindly make it convenient to attend the on line meeting through zoom platform on Saturday, 17.04.2021 at 10.30 a.m. Link will be shared to your mail by 10 a.m on 17.04.2021.

Dr. P.V.R.Ravindra Reddy  
Professor & Head, MED  
Chairman – Board of Studies

 Dr. S. Satyanarayana, Imm. Past Chairman...	 Venkata Sushma Chinta	 Raju CS	 Dr. R.P. Chowdary Associate Professor	 Dr. G. Chandramohan Reddy Professor
 RATNA REDDY	 Dr. G. Lavmalah	 Chandra shekar	 PVR Ravindra Reddy	<b>Dr N V SRINIVA...</b>  Dr N V SRINIVASULU
 Dr. L. Suresh Kumar	 P. Kiran Kumar	<b>Aleem</b>  Aleem	 Dr. N. Janardhan Assistant Professor	 Dr. Y. Ravi Kumar (NIT-W)
 Dr. V.R. Seshagiri Rao Associate Professor	<b>d s madhuri</b>  d s madhuri	 Prachakar Reddy	 Dr. B.V.S. Rao Assistant Professor	 Sri P. Radhakrishna Prasad Associate Profes...
<b>T. Madhusudhan</b>  T. Madhusudhan	 DR Ravinder Reddy Pinninti	 Sandhya V	<b>Kishor K</b>  Kishor K	 murali krishna

**Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad-75**  
**Department of Mechanical Engineering**  
**Minutes of BoS meeting held on 17.04.2021**

A board of studies meeting was conducted on 17.04.2021 from 10.30 A.M to 2.00 P.M through on line mode using Zoom platform. The minutes of the meeting are as follows:

**Members Present.**

1. Dr. P. Lakshmi Narayana, Professor, OUCE
2. Dr.N.Venkata Reddy, Professor, IITH
3. Dr.Y.Ravi Kumar, Assoc.Professor, NITW
4. Dr.M.Chandra Sekhar Reddy, Professor, OUCE
5. Dr. K. Ramesh Kumar, Scientist G, DRDL
6. Dr. C. Satyanarayana Raju, SC.G, DRDL
7. Sri V.R.Sunil Kumar, Director, Ramtec Industries
8. Dr.S.Satyanarayana, Director, A.P.LMEC systems
9. Sri T.Madhusudhan, Engineer, BDL
10. Dr. P.Chandrasekhar, Technical Director, Technical Director, Tecniq Design Group
11. Prof. P. Ravinder Reddy, CBIT
12. Prof. G. Chandra Mohan Reddy, CBIT
13. Prof. .MVS Murali Krishna, CBIT
14. Prof. P.V.R. Ravindra Reddy, Chairman- BOS,MED, CBIT
15. Prof. N.V. Srinivasulu, CBIT
16. Prof. P. Prabhakar Reddy, Professor, CBIT
17. Prof. G. Laxmaiah, CBIT
18. Dr. T. Ratna Reddy, Associate Professor, CBIT
19. Dr. R.P. Chowdary, Associate, Professor
20. Dr. K. Kishor, Assoc. Professor, CBIT
21. Dr.V.V.R. Seshagiri Rao, Assoc.Professor, CBIT
22. Dr.S.Soloman Raj, Associate Professor, CBIT
23. Dr Aleem Pasha, Associate Professor, CBIT
24. Dr.B.V.S.Rao Assistant professor, CBIT

**Agenda Item 1: To consider and approve the scheme of B.E III,IV,V,VI,VII&VIII Semester (Mechanical Engineering) under curriculum R-20.**

Chairman BoS welcomed the members and started the meeting with the presentation of major changes in the syllabus revision. He informed the members that (i) mapping of the courses and the syllabus of each course are carried with NIT- Warangal, OUCE and VIT vellore. The deviations were discussed in the CEG, PAC and stake holders meetings and the scheme and syllabus are finalized. (ii) Professional electives are chosen such a way that in each professional elective there are four courses and each course refers to one specialization. The specializations chosen are Automotive & power, Additive Manufacturing and Robotics, Design innovation & entrepreneurship, and Industrial Engineering. The following are discussed under the agenda item-1

- The name of the course "Mechanics and Material Science" with code number 20PY C05 offered by the Physics department in II Semester is coinciding with the courses "Material Science and Metallurgy" with code number 20ME C04 and "Mechanics of

Materials" with code number 20ME C05". After going through the syllabus the members felt the names of courses 20ME C04 and 20ME C05 are appropriate. There was a suggestion to change the name of 20ME C05 as " strength of materials". But the name is being used by the civil department for course with a little different syllabus. Hence it can not be used. Then it is decided present the same in common BoS and resolve the issue with the Physics Department.

- It is suggested to keep the core courses first in the scheme and then the other courses.
- Open electives are recommended from 6<sup>th</sup> semester onwards instead of of V sem. It is decided to convey the same to common BoS meeting.

**Agenda item 2: To consider and approve the syllabus for B.E III and IV Semesters (Mechanical Engineering) under curriculum R-20.**

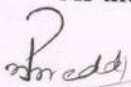
- In the course Manufacturing Processes (20ME C06), Book by Kalpak Jain or Groover may be introduced as text book. Books by G.K lal and P.N.Rao may be swapped between text books and suggested reading.
- In Material Science and Metallurgy course a few NDT techniques may be introduced. Few experiments on NDT may be added to Material Science and Metallurgy lab (20ME C07). Some experiments related to noncontact methods of inspection may be added to the lab.
- In Metal Cutting and Machine Tool Engineering course (20 ME C13) Water Jet Machining may be added.
- In Entrepreneurship course (20 ME E03), formulation of business plan , registration process, funding agencies and procedures are to be added.
- In Unit III of the course "Mechatronics and Automation"(20 ME E04) the topic microprocessor 8085 is to be replaced with "Programming and using of 8051 controller with 'C' language", as microprocessor 8085 is outdated. In unit V "Introduction to robotic automation: Artificial Intelligence (AI) based systems, IOT in manufacturing industries" may be added.

**Agenda Item 3: To consider and approve the curriculum syllabus for M.E. (CAD/CAM) & M.E (Thermal Engg.) III & IV Semester under curriculum R-20**

- In the course "Digital Manufacturing and Design" (20ME E113 Case study on "Car Manufacturing by Bosch Company" may be included in UNIT -1 to explain the concept of Introduction to Industry 4.0, Biscuit factory is suggested as an example for the topic "Digital factory and Virtual manufacturing "under Unit II. Case studies may be included in all the units where ever possible. The topic Digital design is suggested to be replaced with Digital Twins, Digital threads and Files format (STL, AMF, 3MF). Two to three examples on Industry products can be included to explain additive manufacturing , subtractive manufacturing and reverse engineering

**Agenda Item 4: Any other item with the permission of the chair**

As there is no other item to discuss the meeting is closed with vote of thanks



Chairman, BoS

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075. Telangana