



**Faculty of Engineering and Applied Sciences
Department of Mechanical Engineering**

Minutes of meeting of Board of studies held on 3rd June 2022

Ref. UMU/FEAS/ME/2022/01

Date: 03/06/2022

A meeting with Board of Studies (BoS) of the Department of Mechanical Engineering was held on 03-06-2022 at 11.00 am on online mode at 1:00 pm to review the course curriculum/syllabus of B.Tech Program (MECH) to be effective from 2022-23 AY
Meeting Link: <https://meet.google.com/ywd-htxr-cvv>

The following members were present:

- | | |
|---|--------------------------|
| 1. Dr. Asim Ahmad | Chairperson |
| 2. Dr. Vinay Sharma | External Academic Expert |
| 3. Dr. Saroj Kumar Sarangi | External Academic Expert |
| 4. All internal faculty members of the department | present on that day |

The chairperson of the Board of Studies (BoS) welcomed all of the members and thanked the external expert for their time. The items were covered according to the agenda.

Item No. 1: To confirm the minutes of the meeting of Board of Studies held on 19 June 2021.

(Annexure-1)

The BoS members confirmed the minutes.

Item No. 2: To report the action taken on the minutes of Board of Studies held on 19th June 2021.

(Annexure-1)

The members of Board of Studies (BoS) noted the action taken on the decision on the previous meeting and expressed its appreciation for the efforts.

Asim Ahmad

Abstract of BoS Meeting of B.Tech (Mechanical) program for 2022-23 AY

B.Tech in Mechanical (2022-23)

Item No.3: To examine the feedback collected for the B.Tech (ME) program and approve the action taken on the feedback analysis.

(Annexure-2)

The members of the BoS were satisfied with the feedback collected from the different stakeholders. BoS recommended the changes in the curriculum based on the ATR of the feedback analysis.

Item No.4: To consider and adopt the curriculum of B.Tech in Mechanical Engineering for 2022-2026, 2021-25 batch & 2020-24 batch.

Based on the feedback analysis and action taken report, the Board of Studies members recommended the following:

- i) As per discussion, the department decided to carry forward the curriculum of the B.Tech (ME) program without any changes for the 2021-25 & 2020-2024 batch as mentioned below.
- ii) As per the recommendation of members to adopt the curriculum of B.Tech (ME) for 2022-26 batch as mentioned below.

i) B.Tech (Mechanical Engineering) for 2021-25 & 2020-2024 batch

(Annexure 3)

The members of BoS recommended adopting the curriculum of B.Tech in Mechanical Engineering as approved earlier.

ii) B.Tech (Mechanical Engineering) for 2020-24 batches

(Annexure 3)

Based on the AICTE guidelines the course structure recommended in BoS for the 3rd years of 2020-24 batches is mentioned in Annexure 3. The courses offered in 5th & 6th semesters are mentioned below.

List of new courses in curriculum of 3rd year of B.Tech (Mechanical) 2022-23 AY.	
	Addition
Semester Fifth:	Heat & Mass Transfer (MEC501) Dynamics of Machine (MEC502) Design of Machine Element –I (MEC 503) Industrial Engineering & Management (MEC 504) Machining Science & Technology (MEC 505)

Asim Ahmad

Abstract of BoS Meeting of B.Tech (Mechanical) program for 2022-23 AY

B.Tech in Mechanical (2022-23)

	Constitution of India *(MDC501) Composite Material (MEC 503E) Heat Transfer Lab (MEC 511) Dynamics and Measurement Lab (MEC 512) Summer Training (MEC513)
Semester Sixth:	Internal Combustion Engines and Gas Turbine (MEC 601) Meteorology, Quality Control and Reliability (MEC 602) Design of Machine Elements-II (MEC 603) Industrial Automation & Robotics (MEC606E) Soft Skills & Interpersonal Development (OEC -ME 601) Professional Communication and Technical Writing(HSC 601) I C Engine Lab (MEC 611) Machining and Meteorology Lab (MEC 612)

The members of BoS recommended the curriculum of the courses offered in 5th & 6th semester as mentioned in Annexure 3.

Item No. 5: To consider & approve the value added courses offered by the Department of Mechanical Engineering.

(Annexure-4)

The BoS members confirmed the same.

Item No. 6: To consider the implement the input the qualitative initiative as per the directions of IQAC.

The members of BoS recommended adopting the quality initiatives suggested by IQAC.

Item No. 7: To consider and implement the input recommended by Academic forum.

The members of BoS recommended adopting the input recommends by academic forum.

The members of BoS authorized the other person of BoS for any kind of revision/change if needed.

The meeting is ended with thanks to all the members.

Date: 03-06-2022

Asim Ahmad
Chairperson

Abstract of BoS Meeting of B.Tech (Mechanical) program for 2022-23 AY

B.Tech in Mechanical (2022-23)

Members Present with Signature

1. Dr. Asim Ahmad
2. Dr. Vinay Sharma
3. Dr. Saroj Kumar Sarangi

Copy To:

Vice Chancellor, UMU for kind information
Pro-Vice Chancellor, UMU for kind information
Registrar, UMU for kind information
All members of the BOS

Chairperson

Asim Ahmad

External Academic Expert

V. Sharma

External Academic Expert

Saroj. Sarangi

Sariloch

V. Mishra



**Department of Mechanical Engineering
Faculty of Engineering and Applied Sciences**

Minutes of meeting of Board of studies held on 10th June 2020

Ref. UMU/FEAS/ME/2020/01

Date: 10/06/2020

A meeting with members of the Board of Studies (BoS) of the Department of Mechanical Engineering was held on 10-06-2020 at 1:00 pm to **review the course curriculum/syllabus of B.Tech Program (MECH) to be effective from 2020-21 AY**

Meeting Link: <https://meet.google.com/vsh-uvns-snu>

The following members were present:

1. Dr. Venkata Naga Lakshmi Durga Chairperson
2. Dr. Vinay Sharma External Academic Expert
3. Dr. Saroj Kumar Sarangi External Academic Expert
4. All internal faculty members of the department present on that day

The chairperson of the Board of Studies (BoS) welcomed all of the members and thanked the external expert for their time. The items were covered according to the agenda.

Item No. 1: To discuss the eligibility criteria for admission in B.Tech (MECH).

Members of the BoS have approved the eligibility of B.Tech in Mechanical Engineering in Regular as well as Lateral entry programme.

(Annexure-1)

Item No. 2: To discuss the course structure of B.Tech (MECH) as per the CBCS guidelines of AICTE.

The board members have decided that the course structure of B.Tech (MECH) will be adopted as per AICTE guidelines. The course structure of B.Tech (MECH) program of 2020-24 batches is attached in Annexure 2

Item No.3: To discuss the vision and mission of the faculty of Engineering & Applied Science

V. Durga

Abstract of BoS Meeting of B.Tech (Mechanical) program for 2020-21 AY

B.Tech in Mechanical (2020-21)

The members of BoS have approved the vision and mission of the Faculty of Engineering & Applied Science mentioned in Annexure 3.

Item No.4: To discuss and finalize the PEOs, POs, and PSOs for the B.Tech (MECH).Program

The members of BOS have approved the PEOs, POs, and PSOs for the B.Tech Program mentioned in Annexure 3.

Item No. 5: To consider and adopt the Syllabus of New Core courses offered in 2nd year of the B.Tech program for the 2019 batch.

To discuss the eligibility criteria for admission in B.Tech (MECH).

The members of BoS has approved the eligibility of B.Tech in Mechanical Engineering in Regular as well as Lateral entry programme.

(Annexure-1)

Item No. 2: To discuss the course structure of B.Tech (MECH) as per the CBCS guidelines of AICTE.

The board members have decided that the course structure of B.Tech (MECH) will be adopted as per AICTE guidelines. The course structure of B.Tech (MECH) program of 2020-24 batches is attached in Annexure 2.

(Annexure-2)

Item No. 3: To consider and adopt the New courses offered in 1st year of B.Tech in Mechanical Engineering effective for 2020 batch.

Based on the guidelines provided by AICTE, suggestions from stakeholders, the BOS members recommended the following courses to be offered in 1st year of the B.Tech (Mechanical Engineering) program.

New Courses offered in B.Tech (Mechanical Science) for 2020 batch.	
	Courses offered in 2020-21 AY
Semester first:	Physics (GSC101) & Physics Lab (GSC111) Mathematics-I (GSC102) Basic Electrical Engineering (GEC101) & Basic Electrical Engineering (GEC111) Engineering Graphics and Design (GEC102) & Engineering Graphics and Design (GEC112)
Semester Second:	Chemistry (GSC201) Chemistry Lab (GSC211) Mathematics-II (GSC202) Programming for Problem Solving (GEC201) Programming for Problem Solving Lab (GEC211) Workshop/ Manufacturing Process (GEC202) Workshop/ Manufacturing Process Lab (GEC212) English (HSC201)

V. Durga

Abstract of BoS Meeting of B.Tech (Mechanical) program for 2020-21 AY

B.Tech in Mechanical (2020-21)

English Lab (HSC211)

BoS members recommended adopting the curriculum/ syllabus of 1st semester B.Tech (MECH) as mentioned in Annexure 3.

(Annexure-3)

Item No. 4: To discuss the vision and mission of the Mechanical Engineering department

BOS members have approved the vision and mission of the Mechanical Engineering department mentioned in Annexure 4.

(Annexure-4)

Item No. 5: To discuss and finalise the PEOs, POs and PSOs for the B.Tech (MECH) Program

BoS members have approved the PEOs, POs and PSOs for the B.Tech (MECH) Program mentioned in Annexure 4.

(Annexure-4)

Item No. 6: To decide about the Continuous Assessment process for the theory and laboratory course of B.Tech (MECH) program.

The BoS members has discussed and decided to adopt the assessment system in the ratio of 40:60 for both theory and practical course. It was decided that the continuous assessment or the Mid-term evaluation will be will be of 40% and end term assessment will be of 60%.

The Continuous Assessment of Theory course is of *40 marks* and will be of the following form:

Mid-Semester: 25 marks

Assignment: 10 marks

Attendance: 5 marks

The Continuous Assessment of Laboratory course is of *40 marks* and will be of the following form:

Lab Record: 20 marks

Quiz/ Class Test: 15 marks

Attendance: 5 marks

Item No. 7: To discuss and finalise the End semester question paper format, evaluation process of Theory & Laboratory course.

The end semester question paper will be in the format of 100 marks whose composition is mentioned below. The question paper will be of 2 sections that is Section A and section B. Section A will consists of two parts Part-I and Part-II. Part-I consists of MCQ questions of total 20 marks. Part-II consists of 06 questions; out of which 04 questions have to answer and total marks of Part-II is 20 marks. Section B will consist of total 60 marks; where there are total 6 questions and student have to attempt any 4 questions. Each question carries 15 marks.

In end semester, the laboratory course is evaluated out of 60 marks which is divided in two parts. 40 marks for writing and execution of the programs and 20 marks for viva-voce.

V. Dwya

Abstract of BoS Meeting of B.Tech (Mechanical) program for 2020-21 AY

B.Tech in Mechanical (2020-21)

Item No. 8: To consider and approve the Ordinance for four-year B.Tech in Mechanical Engineering program (B.Tech-MECH)

BoS members approved the Ordinance of 4-year B.Tech (MECH) program as proposed.

(Annexure-5)

Item No. 9: To consider & approve the value added courses offered by the Department of Mechanical Engineering.

The BoS members confirmed the same.

(Annexure-6)

Item No. 10: To consider the implement the input the qualitative initiative as per the directions of IQAC.

The BoS members recommended adopting the quality initiatives suggested by IQAC.

(Annexure-7)

Item No. 11: To consider and implement the input recommended by Academic forum.

The BoS members recommended adopting the input recommends by academic forum.

The meeting is ended with thanks to all the members.

Date: 10-06-2020

Chairperson

Members Present with Signature

1. Dr. Venkata Naga Lakshmi Durga
2. Dr. Vinay Sharma
3. Dr. Saroj Kumar Sarangi

Chairperson

V. Durga

External Academic Expert

V. Sharma

External Academic Expert

Saroj . Sarangi

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All members of the BOS



Department of Mechanical Engineering
Faculty of Engineering and Applied Sciences

Minutes of meeting of Board of studies held on 19th June 2021

Ref. UMU/FEAS/ME/2021/01

Date: 19/06/2021

A meeting with members of Board of Studies (BoS) of the Department of Mechanical Engineering was held on 19-06-2021 at 11.00 am on online mode at 1:00 pm to review the course curriculum/syllabus of B.Tech Program (MECH) to be effective from 2021-22 AY

Meeting Link: <https://meet.google.com/gbh-drdp-dxi>

The following members were present:

1. Dr. Venkata Naga Lakshmi Durga Chairperson
2. Dr. Vinay Sharma External Academic Expert
3. Dr. Saroj Kumar Sarangi External Academic Expert
4. All internal faculty members of the department present on that day

The chairperson of the Board of Studies (BoS) welcomed all of the members and thanked the external expert for their time. The items were covered according to the agenda.

Item No. 1: To confirm the minutes of the meeting of Board of Studies held on 10th June 2020.

(Annexure-1)

The BoS Members confirmed the minutes.

Item No. 2: To report the action taken on the minutes of Board of Studies held on 10th June 2020.

(Annexure-1)

The members of Board of Studies (BoS) noted the action taken on the decision on the previous meeting and expressed its appreciation for the efforts.

V. Durga

Abstract of BoS Meeting of B.Tech (Mechanical) Program for 2021-22 AY

B.Tech in Mechanical (2021-22)

Item No.3: To examine the feedback collected for the B.Tech (ME) program and approve the action taken on the feedback analysis.

(Annexure-2)

The members of the BoS were satisfied with the feedback collected from the different stakeholders. BoS recommended the changes in the curriculum based on the ATR of the feedback analysis.

Item No.4: To consider and adopt the curriculum of B.Tech in Mechanical Engineering for 2021-25 batches & 2020-24 batches.

Based on the feedback analysis and action taken report, the Board of Studies members recommended the following:

- i) As per discussion, the department decided to carry forward the curriculum of the B.Tech (ME) program without any changes for the 2021-25 batch as mentioned below.
- ii) As per the recommendation of members to adopt the curriculum of B.Tech (ME) for 2020-24 batch as mentioned below.

i) B.Tech (Mechanical Engineering) for 2021-25 batches

(Annexure 3)

The members of BoS recommended adopting the curriculum of B.Tech in Mechanical Engineering as approved earlier.

ii) B.Tech (Mechanical Engineering) for 2020-24 batches

(Annexure 3)

Based on the AICTE guidelines the course structure recommended in BoS for the 2nd years of 2020-24 batches is mentioned in Annexure 3. The courses offered in 3rd & 4th semesters are mentioned below.

List of new courses in curriculum of 2nd year of B.Tech (Mechanical) 2021-22 AY.	
	Addition
Semester Third:	Mathematics-III (GSC 301) Engineering Mechanics (GEC304) Basic Electronics (GEC303) Thermodynamics (MEC 301) Fluid Mechanics (MEC302) Environmental Science (HSC301)

V. Durga

Abstract of BoS Meeting of B.Tech (Mechanical) Program for 2021-22 AY

B.Tech in Mechanical (2021-22)

	Fluid Mechanics Lab (MEC 311) Basics of Mechanical Engineering Lab(MEC312)
Semester Fourth:	Material Science and Engineering(MEC401) Mechanics of Solids (MEC402) Basic Manufacturing Processes(MEC403) Kinematics of Machines (MEC404) Fluid Power Engineering (MEC405) Engineering Economics (HSC401) Material Testing Lab (MEC411) Machine Drawing Lab (MEC412) Fluid Power Engineering Lab(MEC413)

The members of BoS recommended the curriculum of the courses offered in 3rd & 4th semester as mentioned in Annexure 3.

Item No. 5: To consider & approve the value added courses offered by the Department of Mechanical Engineering.

(Annexure-4)

The members of BoS confirmed the same.

Item No. 6: To consider the implement the input the qualitative initiative as per the directions of IQAC.

The members of BoS recommended adopting the quality initiatives suggested by IQAC.

Item No. 7: To consider and implement the input recommended by Academic forum.

The members of BoS recommended adopting the input recommends by academic forum.

The members of BoS authorized the other person of BoS for any kind of revision/change if needed.

The meeting is ended with thanks to all the members.

Date: 19-06-2021

Chairperson

Members Present with Signature

1. Dr. Venkata Naga Lakshmi Durga

V. Durga
Chairperson

V. Durga

Abstract of BoS Meeting of B.Tech (Mechanical) Program for 2021-22 AY

B.Tech in Mechanical (2021-22)

2. Dr. Vinay Sharma
3. Dr. Saroj Kumar Sarangi

External Academic Expert V. Sharma

External Academic Expert Saroj. Sarangi

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All members of the BOS

V. Mishra

V. Durga