

Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109



**MINUTES OF THE 6th MEETING, 2017 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 12/07/2017 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering co directs the meeting as the chair person.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies discuss the agenda as follows.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 20/01/2017 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 20/01/2017 was approved and circulated (Annexure I).

Agenda –3

Approval of syllabus upto For Ellective subjects

Resolution:

Head of the department informed it to the BOS committee that the syllabus is already prepared for the elective subjects as per curriculum and approved in the Departmental Academic Committee (DAC). All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval.

Agenda –4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Approved by BOS committee, No further action is required.

Agenda –5

Discussion about attainment of courses and gap analysis

Approved by BOS, No further action is required

Agenda –6

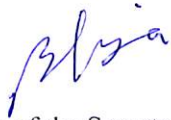
Discussion about achievement of the department

BOS is satisfied with the achievement.

Agenda -7

Formation of PAC

The PAC has been formed for monitoring of different departmental activities. The PAC consists of HOD and other departmental and non departmental faculty members, who will be periodically monitoring the departmental activities and evaluate different parameters. (Annexure II).



Signature of the Secretary

BOS, ME Department

Signature of the chairperson

BOS, ME Department



H.O.D.
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
83, Nilgunge Road, Agarpara, Koi-109

Annexure-I

Action taken report on 12.07.17 for the minutes of Board of Studies (BOS) held on 20.01.17

BOS no.	Agenda no.	Action taken
5	5/1 / To confirm the Minutes of BOS meeting held on 20.01.17 at 11.30 am	No further action is required
	5/2 To report action taken on the minutes of Board of Studies held on 20.01.17 at 11.30 am	Action has been taken accordingly.
	5/3 Approval of syllabus upto 8 th sem	BOS has approved, forwarded to Academic Council (AC) for approval
	5/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 2 nd year classes	Approved by BOS, No further action is required
	5/5 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	5/6 Discussion about achievement of the department	BOS is satisfied with the achievement

Annexure II

Program Assessment Committee (PAC)

2017-18

The PAC has been formed for monitoring of different departmental activities. The PAC consists of HOD and other departmental and non departmental faculty members, who will be periodically monitoring the departmental activities and evaluate different parameters. Following are the members of PAC.

Sl. No.	Name	Designation
1	Dr. Sumit Chabri, Associate Prof. & Head, ME, NIT	Convener
2	Dr. Amit Datta, Associate Prof., ME, NIT	Member
3	Dr. Bikash Panja, Assistant Prof., ME, NIT	Member
4	Dr. B.K. Medya, Professor, IT, NIT	Member

Roles and responsibilities of the PAC

1. Monitoring the activities of the department to check whether they are achieving the vision and mission.
2. Suggesting way and means to reduce the curriculum gaps in achieving POs and PSOs.
3. Evaluating program effectiveness and proposing necessary changes.
4. Measuring the extent of adherence to planned activities and calendar of events.

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**MINUTES OF THE 7th MEETING, 2018 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 15/02/2018 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 12/7/2017 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 12/7/2017 was approved and circulated (Annexure I).

Agenda –3

Approval of the new curriculum for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee that the proposed curriculum (Annexure II) is by now discussed and approved in the Departmental Academic Committee (DAC). All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval. HOD also pointed out that as per the suggestion of the BOS members in the last meeting, course outcomes (based on outcome based education (OBE)) for all the courses have been prepared and also mapping with POs and PSOs (approved by BOS earlier) are defined.

Agenda -4 Identification of Courses in R18 Curriculum, which are having focus on Employability, Industrial need, Higher studies, Entrepreneurship

Resolution:

As per the suggestion of the BOS member in the last meeting courses for Employability/Higher Studies/Advanced Skill Development/ Entrepreneurship introduced in R18 have been identified and listed in Annexure-III for ready reference.

Agenda -5: Identification of new courses in R18 Curriculum.

Resolution:

As per the suggestion of the BOS member in the last meeting courses which have been introduced in R18 have been identified and listed in Annexure-IV for ready reference

Agenda -6

Discussion on the required modifications on Vision, Mission of the departments & Program Educational Objectives (PEO)

Resolution:

Head of the department notified the BOS about the proposed modifications in Vision, Mission of the departments & Program Educational Objectives (PEO) (Annexure V) by the Departmental Academic Committee (DAC). All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval.

Agenda -7

Discussion on feedback analysis for the year 2017-18

Resolution:

Feedback of the students are analysed and action has been taken accordingly. Composites, IoT courses are incorporated

Agenda -8

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda -9

Discussion on training needs analysis of Faculty, TAs and students

Resolution:

Action has been taken accordingly. Faculties, TAs and students should be encouraged to enroll in MOOCs courses. Students should be encouraged to do training on aptitude, soft skills, and technical skills for campus interviews.

Agenda -10

Discussion about attainment of courses and gap analysis

Resolution:

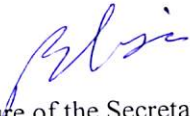
Approved by BOS, No further action is required

Agenda -11

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.



Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department



H.O.D.
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
81, Nilgunge Road, Agarpara, Kol-109

Annexure-I

Action taken report on 15.02.18 for the minutes of Board of Studies (BOS) held on 12.07.17

BOS no.	Agenda no.	Action taken
6	6/1 / To confirm the Minutes of BOS meeting held on 12.07.17 at 11.30 am	No further action is required
	6/2 To report action taken on the minutes of Board of Studies held on 12.07.17 at 11.30 am	Action has been taken accordingly.
	6/3 Approval of syllabus upto For Ellective subjects	BOS has approved, forwarded to Academic Council (AC) for approval
	6/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes	Approved by BOS, No further action is required
	6/5 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	6/6 Discussion about achievement of the department	BOS is satisfied with the achievement
	6/7 Formation of PAC	Approved by BOS, No further action is required

Annexure III

New courses in 18 curriculum

Composite Materials (ME)	ME 505 A
Solid Mechanics (ME)	ME 505 B
Computer Aided Design (ME)	ME 505 C
Project-V (ME)	PR 591
Innovative activities-IV (ME)	PR 592
Total Quality Management (ME)	ME 602 C
Database Management System (ME)	ME 603 B
Internet of Things (ME)	ME 603 C
Fluid Power control (ME)	ME 604 C
Computational Fluid Dynamics Lab (ME)	ME 692B
Innovative activities-V (ME)	PR 692
Automation in Manufacturing (ME)	ME701
3D Printing and Design (ME)	ME702C
Nanotechnology, Science and Applications (ME)	PH(ME)704B
Turbulent Combustion: Theory and Modelling (ME)	ME802C
Microprocessors in Automation (ME)	ECE(ME)803A
Fundamentals of Artificial Intelligence (ME)	CS(ME)803C
Industrial & Financial Management (ME)	HU805

Annexure IV

Heat Transfer	ME 501
Manufacturing Technology	ME 502
Design of Machine Elements	ME 503
Refrigeration and Air Conditioning	ME 504
Composite Materials	ME 505A
Solid Mechanics	ME 505B
Computer Aided Design	ME 505C
Heat Transfer and Refrigeration Lab	ME591
Technical Seminar Presentation	MC 581
Internal Combustion Engine and Gas Turbine	ME601
Power Plant Engineering	ME602A
Finite Element Analysis	ME602B
Total Quality Management	ME602C
Electrical Machines	ME 603A
Data Base Management System	ME 603B
Internet Of Things	ME 603C
Mechatronics Systems	ME 604A
Computational Fluid Dynamics	ME 604B
Fluid Power control	ME 604C
Advanced Manufacturing Technology	ME 701
Materials Handling	ME 702A
Design Of Transmission System	ME 702B
Nuclear Power Generation & Supply	ME 702C
Renewable Energy System	ME 703A
Tribology	ME 703B
Reliability & Maintenance	ME 703C
Operation Research	ME 704A
Robotics	ME 704B
Biomechanics & Biomaterials	ME 704C
Industrial & Financial Management	HU 803
Automobile Engineering	ME 801A
Turbomachinery	ME 801B
Gas Dynamics & Jet Propulsion	ME 801C
3D Printing and Design	ME802A
Nanotechnology	ME802B
Industrial Instrumentation	ME802C
Energy Conservation & Management	ME802D
Artificial Intelligence	ME803A
Safety & Occupational Health	ME803B

Annexure V

VISION

To develop responsible citizens who would 'think global and act local' and become the change agents of society to meet the challenges of future.

MISSION

The missions of the Mechanical Engineering Department are following: To impart a thorough knowledge of various core engineering subjects to our entire undergraduate and postgraduate students for ascertaining their fundamental strength in mechanical engineering. To expose our students to a curriculum consisting of modern laboratories, interdisciplinary subjects and industrial trainings in such a way that they get international exposure in world class industries. To train our students with modern drafting & analysis software for developing their computational capabilities as well as promoting higher studies and research works. To strengthen our students with innovative ideas and build the potential of leadership & teamwork through various projects in their curriculum. To inhibit strong ethical qualities in the students for lifelong learning and serving the society and nation as a whole.

Program Educational Objectives (PEO)

The Program Educational Objectives (PEO) of the Mechanical Engineering Program will demonstrate the essential components of a successful engineer for the best career based professional accomplishments after graduation.

Therefore the objectives are following:

PEO 1: To teach students in such a way that they can apply relevant skills of basic science, engineering design, modeling, manufacturing, and management to real-life problems in Industries.

PEO 2: To encourage the incumbents for higher studies such that they can impart useful contribution to the field of education, research and modern technology in Mechanical Engineering as well as other allied fields.

PEO 3: To train the students in such a manner that they effectively participate in multicultural and multidisciplinary projects maintaining industrial ethics for the sustainable development of our society

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**MINUTES OF THE 8th MEETING, 2018 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 02/11/2018 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 15/02/2018 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 15/02/2018 was approved and circulated (Annexure I).

Agenda –3

Approval of the syllabus upto 4th sem for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee that the syllabus upto 4th sem is prepared and approved in Departmental Academic Committee (DAC). All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval.

Agenda –4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda –5

Discussion on training needs analysis of Faculty, TAs and students

Resolution:

Action has been taken accordingly. Faculties, TAs and students should be encouraged to enroll in MOOCs courses. Students should be encouraged to do training on aptitude, soft skills, and technical skills for campus interviews.

Agenda -6

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -7

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.

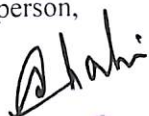


Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department



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21, Milgunge Road, Agarpara, Kol-45

Annexure-I

Action taken report on 02.11.18 for the minutes of Board of Studies (BOS) held on 15.02.18

BOS no.	Agenda no.	Action taken
7	7/1 To confirm the Minutes of BOS meeting held on 15.02.18 at 11.30 am	No further action is required
	7/2 To report action taken on the minutes of Board of Studies held on 15.02.18 at 11.30 am	Action has been taken accordingly.
	7/3 Approval of the new curriculum for B.TECH (ME)	BOS has approved, forwarded to Academic Council (AC) for approval
	7/4 Identification of Courses in R18 Curriculum, which are having focus on Employability, Industrial need, Higher studies, Entrepreneurship	Approved by BOS, No further action is required
	7/5 Identification of new courses in R18 Curriculum	Action has been taken accordingly.
	7/6 Modification on Vission, Mission of the departments & Program Educational Objectives (PEO).	Action has been taken accordingly.
	7/7 Discussion on feedback analysis for the year 2017-18	Action has been taken accordingly.
	7/8 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes	Action has been taken accordingly.
	7/9 Discussion on training needs analysis of Faculty, TAs and students	Action has been taken accordingly.
	7/10 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	7/11 Discussion about achievement of the department	BOS is satisfied with the achievement

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**MINUTES OF THE 9th MEETING, 2019 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 16/01/2019 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 02/11/2018 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 02/11/2018 was approved and circulated (Annexure I).

Agenda – 3

Approval of the syllabus upto 6th sem for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee that the syllabus of R18 is already prepared upto 6th SEM. All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval. HOD also pointed out that as per the suggestion of the BOS members in the last meeting, course outcomes (based on outcome based education (OBE)) for all the courses have been prepared and also mapping with POs and PSOs (approved by BOS earlier) are defined.

Agenda -4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda -5

Discussion on training needs analysis of Faculty, TAs and students

Resolution:

Action has been taken accordingly. Faculties, TAs and students should be encouraged to enroll in MOOCs courses as Coursera, NPTEL. Students should be encouraged to do training on aptitude, soft skills, and technical skills for campus interviews.

Agenda -6

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -7

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.



Signature of the Secretary

BOS, ME Department

Signature of the Chairperson

BOS, ME Department



H.O.D.
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
81, Nilganga Road, Agarpara, Kol-109

Annexure-I

Action taken report on 16.01.19 for the minutes of Board of Studies (BOS) held on 02.11.18

BOS no.	Agenda no.	Action taken
8	8/1 To confirm the Minutes of BOS meeting held on 02.11.18 at 11.30 am	No further action is required
	8/2 To report action taken on the minutes of Board of Studies held on 02.11.18 at 11.30 am	Action has been taken accordingly.
	8/3 Approval of the syllabus upto 4 th sem for B.TECH (ME)	BOS has approved, forwarded to Academic Council (AC) for approval
	8/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes:	Approved by BOS, No further action is required
	8/5 Discussion on training needs analysis of Faculty, TAs and students	Action has been taken accordingly.
	8/6 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	8/7 Discussion about achievement of the department	BOS is satisfied with the achievement

**Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109**



**MINUTES OF THE 10th MEETING, 2019 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 09/07/2019 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 16/01/2019 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 16/01/2019 was approved and circulated (Annexure I).

Agenda – 3

Approval of the syllabus up to 8th sem for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee that the syllabus of R18 is up to 8th SEM is prepared. All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval. HOD also pointed out that as per the suggestion of the BOS members in the last meeting, course outcomes (based on outcome based education (OBE)) for all the courses have been prepared and also mapping with POs and PSOs (approved by BOS earlier) are defined.

Agenda -4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda -5

Discussion on training needs analysis of Faculty, TAs and students

Resolution:

Action has been taken accordingly. Faculties, TAs and students should be encouraged to enroll in MOOCs courses. Students should be encouraged to do training on aptitude, soft skills, and technical skills for campus interviews.

Agenda -6

Discussion on feedback analysis for the year 2018-19

Resolution:

Feedback of the students are analysed and action has been taken accordingly. (As in Annexure II)

Agenda -7

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -8

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.

Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department

Annexure-I

Action taken report on 09.07.19 for the minutes of Board of Studies (BOS) held on 16.01.19

BOS no.	Agenda no.	Action taken
9	9/1 To confirm the Minutes of BOS meeting held on 16.01.19 at 11.30 am	No further action is required
	9/2 To report action taken on the minutes of Board of Studies held on 16.01.19 at 11.30 am	Action has been taken accordingly.
	9/3 Approval of the syllabus upto 6 th sem for B.TECH (ME)	BOS has approved, forwarded to Academic Council (AC) for approval
	9/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes:	Approved by BOS, No further action is required
	9/5 Discussion on training needs analysis of Faculty, TAs and students	Action has been taken accordingly.
	9/6 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	9/7 Discussion about achievement of the department	BOS is satisfied with the achievement

**Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109**



**MINUTES OF THE 11th MEETING, 2020 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 06/01/2020 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 9/7/2019 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 9/7/2019 was approved and circulated (Annexure I).

Agenda –3

Discussion for the new curriculum for B.TECH (ME R21)

Resolution:

Head of the department notified it to the BOS committee about the preparation of new curriculum and syllabus for the Regulation 21 .All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval..

Agenda –4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda -5

Discussion on feedback analysis for the year 2019-20

Resolution:

Feedback of the students are analysed and action has been taken accordingly. (As in Annexure II)

Agenda -6

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -7

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.



Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department



H.O.D.
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
26, Nilgunge Road, Agarpara, Kol-109

Annexure-I

Action taken report on 06.01.20 for the minutes of Board of Studies (BOS) held on 09.07.19

BOS no.	Agenda no.	Action taken
10	10/1 To confirm the Minutes of BOS meeting held on 09.07.19 at 11.30 am	No further action is required
	10/2 To report action taken on the minutes of Board of Studies held on 09.07.19 at 11.30 am	Action has been taken accordingly.
	10/3 Approval of the syllabus up to 8 th sem for B.TECH (ME)	BOS has approved, forwarded to Academic Council (AC) for approval
	10/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes:	Approved by BOS, No further action is required
	10/5 Discussion on training needs analysis of Faculty, TAs and students	Action has been taken accordingly.
	10/6 Discussion on feedback analysis for the year 2018-19	Action has been taken accordingly
	10/6 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	10/7 Discussion about achievement of the department	BOS is satisfied with the achievement

**Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109**



**MINUTES OF THE 12th MEETING, 2020 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 03/07/2020 AT 11.30 AM**

Venue: Online Platform (Google meet)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 6/1/2020 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 6/1/2020 was approved and circulated (Annexure I).

Agenda –3

Discussion on the preparation of syllabus for B.TECH (ME) R21

Resolution:

Head of the department notified it to the BOS committee about the preparation of new curriculum and syllabus for the Regulation 21 .All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval..

Agenda –4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda –5

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -6

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.

Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department

H.O.D.
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
81, Nilgunge Road, Agarpara, Kol-100

Annexure-I

Action taken report on 03.07.20 for the minutes of Board of Studies (BOS) held on 06.01.20

BOS no.	Agenda no.	Action taken
11	11/1 To confirm the Minutes of BOS meeting held on 06.01.20 at 11.30 am	No further action is required
	11/2 To report action taken on the minutes of Board of Studies held on 06.01.20 at 11.30 am	Action has been taken accordingly.
	11/3 Discussion for the new curriculum for B.TECH (ME R21)	BOS has approved, forwarded to Academic Council (AC) for approval
	11/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes:	Approved by BOS, No further action is required
	11/6 Discussion on feedback analysis for the year 2019-20	Action has been taken accordingly
	11/6 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	11/7 Discussion about achievement of the department	BOS is satisfied with the achievement

**Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109**



**MINUTES OF THE 13th MEETING, 2021 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 04/01/2021 AT 11.30 AM**

Venue: Online Platform (Google meet)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 3/7/2020 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 3/7/2020 was approved and circulated (Annexure I).

Agenda –3

Discussion on the formation of new curriculum for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee about the formation of R21 curriculum. All the BOS members express their satisfaction.

Agenda –4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda -5

Discussion on feedback analysis for the year 2020-21

Resolution:

Feedback of the students are analysed and action has been taken accordingly. (As in Annexure II)

Agenda -6

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -7

Discussion about achievement of the department

Resolution:


BOS is satisfied with the achievement.


Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department


H.O.D.
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
81, Nilgunge Road, Agarpara, Kol-109

Annexure-I

Action taken report on 04.01.21 for the minutes of Board of Studies (BOS) held on 03.07.20

BOS no.	Agenda no.	Action taken
12	12/1 To confirm the Minutes of BOS meeting held on 03.07.20 at 11.30 am	No further action is required
	12/2 To report action taken on the minutes of Board of Studies held on 03.07.20 at 11.30 am	Action has been taken accordingly.
	12/3 Discussion for the new curriculum for B.TECH (ME R21)	BOS has approved, forwarded to Academic Council (AC) for approval
	12/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes:	Approved by BOS, No further action is required
	12/5 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	12/6 Discussion about achievement of the department	BOS is satisfied with the achievement

**Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109**



**MINUTES OF THE 14th MEETING, 2021 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 24/05/2021 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Sumit Chabri, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Dr. Bikash Panja, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 04/1/2021 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 04/01/2021 was approved and circulated (Annexure I).

Agenda –3

Approval of the new curriculum for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee that the proposed curriculum (Annexure II) is by now discussed and approved in the Departmental Academic Committee (DAC). All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval. HOD also pointed out that as per the suggestion of the BOS members in the last meeting, course outcomes (based on outcome based education (OBE)) for all the courses have been prepared and also mapping with POs and PSOs (approved by BOS earlier) are defined.

Agenda -4 Identification of Courses in R21 Curriculum, which are having focus on

Employability, Industrial need, Higher studies, Entrepreneurship

Resolution:

As per the suggestion of the BOS member in the last meeting courses for Employability/Higher Studies/Advanced Skill Development/ Entrepreneurship introduced in R21 have been identified and listed in **Annexure-III** for ready reference

Agenda -5: Identification of new courses in R21 Curriculum.

Resolution:

As per the suggestion of the BOS member in the last meeting courses which have been introduced in R21 have been identified and listed in **Annexure-IV** for ready reference

Agenda -6

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes.

Resolution:

Approved by BOS committee, No further action is required.

Agenda -7

Discussion on training needs analysis of Faculty, TAs and students

Resolution:

Action has been taken accordingly. Faculties, TAs and students should be encouraged to enroll in MOOCs courses. Students should be encouraged to do training on aptitude, soft skills, and technical skills for campus interviews.

Agenda -8

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -9

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.



Signature of the Secretary

BOS, ME Department

Signature of the Chairperson,

BOS, ME Department



15.05.21
Dept. of Mechanical Engineering
NARULA INSTITUTE OF TECHNOLOGY
21, Bilgunge Road, Agarpara, Kolkata

Annexure-I

Action taken report on 24.05.21 for the minutes of Board of Studies (BOS) held on 04.01.21

BOS no.	Agenda no.	Action taken
13	13/1 To confirm the Minutes of BOS meeting held on 04.01.21 at 11.30 am	No further action is required
	13/2 To report action taken on the minutes of Board of Studies held on 04.01.21 at 11.30 am	Action has been taken accordingly.
	13/3 Discussion for the new curriculum for B.TECH (ME R21)	BOS has approved, forwarded to Academic Council (AC) for approval
	13/4 Consideration of Board of Examiners for theory and practical examination for the 1st year to 4 th year classes:	Approved by BOS, No further action is required
	13/5 Discussion about attainment of courses and gap analysis	Action has been taken accordingly.
	13/6 Discussion about achievement of the department	BOS is satisfied with the achievement

24/05/21

Annexure III

Subjects focusing on Employability, Entrepreneurship and Skill development

Professional Communication	HSMC101
Workshop & Manufacturing Practices	ME191
Theme based Project I	PR191
Skill Development I: Soft Skill	PR192
Professional Communication LAB	HSMC291
Engineering Graphics & Design Lab	ME 292
Theme based Project II	PR291
Skill Development II: Life Skill	PR292
Engineering Thermodynamics	ME 301
Manufacturing Process	ME 302
Fluid Mechanics	ME303
Engineering Mechanics	ME304
Data Structure	ME 305
Machine Drawing	ME 391
Manufacturing Process Lab	ME392
Theme based Project III	PR391
Skill Development III: Technical Seminar Presentation	PR392
Materials Engineering	ME 401
Fluid Machinery	ME 402
Strength of Material	ME 403
Applied Thermodynamics	ME 404
Numerical Methods Lab	ES 491

Material Testing Lab	ME491
Fluid Mechanics & Fluid Machines Lab	ME492
Theme based Project IV	PR491
Skill Development IV: Soft Skill & Aptitude-I	PR492
Heat Transfer	ME501
Manufacturing Technology	ME502
IC Engine & Hybrid Vehicles	ME503
Kinematics & Dynamics of Machines	ME504
Professional Elective-I	ME 505
A. Refrigeration and Air Conditioning	
B. Composite Materials	
C. Finite Element Analysis	
Heat Transfer Lab	ME 591
Manufacturing Technology Lab	ME 592
Thermal Engineering Lab	ME 593
Professional Elective-I Lab	PEC- ME591
A. Refrigeration and Air Conditioning Lab	
B. Composite Materials Lab	
C. Finite Element Analysis Lab	
Minor Project I	PR 591
Skill Development V: Soft Skill & Aptitude-II	PR 592
Intellectual Property Right	MC 501
Economics for Engineers	HSMC 604
Design of Machine Elements	ME601
Power Plant Engineering	ME602
Professional Elective-II	PEC-ME 601
A. Robotics	
B. Computational Fluid Dynamics	
C. Fluid Power control	

Professional Elective-III A. Materials Handling B. Computer Aided Design C. Nuclear Power Generation & Supply	PEC-ME 602
Open Elective-I A. Mechatronics Systems B. Data Base Management System C. Electrical Machines	OEC-ME 601
Design Lab	ME691
Professional Elective-II Lab A. Robotics Lab B. Computational Fluid Dynamics Lab C. Fluid Power control Lab	PEC-ME 691
Open Elective-I Lab A. Mechatronics Systems Lab B. Data Base Management System Lab C. Electrical Machines Lab	OEC-ME 691
Minor Project II	PR 691
Skill Development VI: Soft Skill & Aptitude-III	PR 692
Industrial Management	HSMC705
Advanced Manufacturing Technology	ME701
Professional Elective-IV A. Automobile Engineering B. Tribology C. Maintenance Engineering D. Turbomachinery	PEC-ME702
Open Elective-II A. 3D Printing and Design B. Internet Of Things C. Biomechanics & Biomaterials D. Microprocessor in Automation	OEC-ME701
Open Elective-III A. Electric Vehicles B. Industrial Instrumentation C. Operation Research D. Cyber Security	OEC-ME702

Advanced Manufacturing Lab	PC 791
Open Elective-I Lab	OEC 791
A. Mechatronics Systems Lab	
B. Data Base Management System Lab	
C. Electrical Machines Lab	
Major Project-I	PR 791
Industrial Training / Internship	PR 792*
Skill Development VII: Seminar & Group Discussion	PR 793
Entrepreneurship & Innovation Skill	MC 701
Professional Elective-V	PEC801
A. Renewable Energy System	
B. Micro and Nano Manufacturing	
C. Gas Dynamics & Jet Propulsion	
D. Design of Transmission System	
Open Elective-IV	OEC801
A. Energy Conservation & Management	
B. Artificial Intelligence	
C. Block Chain	
D. Nanotechnology	
Open Elective-V	OEC802
A. Total Quality Management	
B. Safety & Occupational Health	
C. Industrial Pollution and Control	
D. Big Data Analytics	
Major Project-II	PR 891

**Narula Institute of Technology
81 Nilgunj Road, Kolkata – 700109**



**MINUTES OF THE 15th MEETING, 2021 OF
BOARD OF STUDIES SCHEDULED TO BE
HELD ON 03/06/2022 AT 11.30 AM**

Venue: HOD'S ROOM (ME)

Dr. Bikash Panja, Head of the department of the department of Mechanical Engineering presides over the meeting as a chair person and officially welcomed the present members.

As per the request of Head of the dept., Mr. Goutam Roy, Secretary of Board of studies presented the programme elaborately through power point presentation.

The following resolutions were adopted after detail deliberation.

Agenda – 1

Confirmation of the Minutes of last Board of Studies meeting.

Resolution:

The minutes of the last meeting held on 24/05/2022 was duly confirmed and approved.

Agenda – 2

Approval of Action taken report of the resolutions taken in the last meeting

Resolution:

The action taken report of the last meeting's resolution held on 24/05/2021 was approved and circulated (Annexure I).

Agenda –3

Approval of the syllabus upto 6th sem for B.TECH (ME)

Resolution:

Head of the department notified it to the BOS committee that the syllabus of R21 is already prepared upto 6th SEM. All the BOS members express their satisfaction and approve the same to forward it to the Academic Committee (AC) for further approval. HOD also pointed out that as per the suggestion of the BOS members in the last meeting, course outcomes (based on outcome based education (OBE)) for all the courses have been prepared and also mapping with POs and PSOs (approved by BOS earlier) are defined.

Agenda –4

Consideration of Board of Examiners for theory and practical examination for the 1st year to 4th year classes:

Resolution:

Approved by BOS committee, No further action is required.

Agenda -5

Discussion on training needs analysis of Faculty, TAs and students

Resolution:

Action has been taken accordingly. Faculties, TAs and students should be encouraged to enroll in MOOCs courses as Coursera, NPTEL. Students should be encouraged to do training on aptitude, soft skills, and technical skills for campus interviews.

Agenda -6

Discussion about attainment of courses and gap analysis

Resolution:

Approved by BOS, No further action is required

Agenda -7

Discussion about achievement of the department

Resolution:

BOS is satisfied with the achievement.



Signature of the Secretary

BOS, ME Department



Signature of the Chairperson,

BOS, ME Department