

## Mukesh Patel School of Technology Management and Engineering

**Minutes of Meeting of Board of Studies in Department of Civil Engineering held on 8<sup>th</sup> February 2019**

A meeting of Board of Studies in Department of Civil Engineering of MPSTME was held on 8<sup>th</sup> February 2019 at 9.00 a.m. at Mukesh Patel School of Technology Management and Engineering, Vile-Parle (W), Mumbai.

**Following members were present:**

1. Dr. N. T. Rao (In the Chair)
2. Dr. Tanuja Bandivadekar, Head, Civil Engineering, MPSTME, Mumbai
3. Dr. A. A. Bage, Professor, Sardar Patel College of Engineering
4. Er. Neelkanth Joshi, M/s D. S. Joshi Consultant
5. Dr. R. A. Hegde
6. Dr. Shirish Vichare
7. Er. Avadhut Kshirsagar
8. Dr. Meenal Mategaonkar

Dr. Tanuja Bandivadekar welcomed the members for the meeting and briefed the members about the purpose of the meeting. She briefed the members about ABET accreditation process. Following points were discussed in line with agenda.

Dr. Tanuja briefed the members about the rectification of teaching scheme of MBA Tech to meet the requirement of ABET accreditation with respect to design experience and basic science courses credit.

**Agenda 1a: To approve changes in Teaching Scheme for the subjects of "Elements of Biology" and "Numerical Methods" for MBA- Tech Programs and to approve inclusion of Project - I and Project - II in MBA- Tech program as mentioned below:**

Program	Year	Year of Passing	Semester						Remarks
			Semester V	Semester VI	Semester VII	Semester VIII	Semester - IX	Semester -X	
MBA. Tech.	5th Year	2018-19						Elements of Biology; Numerical Methods	Approved
	4th Year	2019-20				Numerical Methods	Project - I	Elements of Biology; Project - II	
	3rd Year	2020-21			Elements of Biology; Project - I	Numerical Methods; Project - II			
	2nd year	2021-22	Elements of Biology	Numerical Methods	Project - I	Project - II			

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Members approved the modification in the teaching scheme for MBA- Tech programme.

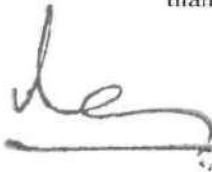
**Agenda 1b: Approval of "In-plant Training Phase I & In-plant Training Phase II" Teaching Scheme & Syllabus for B.Tech. Integrated (Civil) in Semester XI - XII.**

Members were of opinion to rephrase Course objective and Outcomes with help of Bloom's taxonomy. It was suggested by members to fill and submit the log report by Industry mentor after every 2 weeks instead of every week. The weekly progress report for 15 weeks evaluated by Industry mentor carries 100 marks as per evaluation scheme, members suggested that each week progress to be evaluated on 10 marks. Hence total for 15 weeks will be 150 which will be then scaled down to 100. The 10 marks will be evaluated for punctuality, delivery of the assigned work, behaviour etc.

With the above changes the curricula for "In-plant Training Phase I & In-plant Training Phase II" Teaching Scheme & Syllabus for B.Tech. Integrated (Civil) in Semester XI - XII can be placed before Academic Council.

**Agenda 2: Any other item with the permission of the chair.**

Since there were no other matter for discussion, meeting ended with vote of thanks.



**Dr. N. T. Rao**  
**DEAN, MPSTME**



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**Minutes of Meeting of Board of Studies (BOS) in Civil Engineering Department held on September 14<sup>th</sup>, 2019**

A meeting of Board of Studies (BOS) in Civil Engineering Department of MPSTME was held on **September 14<sup>th</sup>, 2019** at 10.00 a.m. at Mukesh Patel School of Technology Management and Engineering, Vile-Parle (W), Mumbai.

**Following members were present:**

1. Dr. N. T. Rao (In the Chair)
2. Dr. Tanuja Bandivadekar, Head, Department of Civil Engineering, MPSTME, Mumbai
3. Dr. M. M. Murudi, Professor, Department of Structural Engineering, SPCE, Mumbai
4. Dr. Vishal Thombare, Assistant Engineer (Costal Road) MCGM, Mumbai
5. Mrs. Manasi Nandgaonkar, Consulting Engineer
6. Dr. R. A. Hegde
7. Dr. Shirish Vichare
8. Prof. Prasad Gharat

A leave of absence is granted to  
Dr. Anuja Agarwal

Dr. Tanuja Bandivadekar welcomed the members for the meeting. All the members introduced themselves.

Following points were discussed in line with agenda.

**Agenda 1: To discuss and deliberate upon the minutes of the meeting of Departmental Advisory Board.**

Prof. Prasad Gharat presented the scheme of B.Tech. (Civil Engineering) and MBA Tech. (Civil Engineering).

Following modifications were discussed and deliberated in scheme of B.Tech. (Civil Engineering):-

- In semester IV, theory hours for the course of "Mechanics of Materials" are revised from 3 to 4 and theory hours for the course of "Concrete Technology" are revised from 3 to 2 and the same course is shifted to semester V.
- In semester IV, course title of "Mini-Projects on Building Planning and Design" is changed to "Studio on Building Planning and Design".



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- In semester V, course title of "Mini-Projects on Water Resources and Environmental Engineering" is changed to "Supplementary Instructions on Water Resources and Environmental Engineering".
- In semester VI, course title of "Financial Accounting" is changed to "Cost and Management Accounting for Engineers".
- A course of "Mini-Projects on Geotechnical Engineering" of semester V is shifted to semester VI as "Workshop on Foundation Engineering".
- A course of "Workshop on RCC and Structural Steel Detailing" of semester VI is shifted to semester VIII as "Capstone Project on Design of Structures".
- A course of "Quantity Surveying, Estimation and Valuation" of semester VIII is shifted to semester VII.
- A course of "Elements of Biology" is shifted from semester IV to semester VI.
- A course of "Soil Mechanics and Foundation Engineering" in semester V is split into two courses - "Soil Mechanics" in semester IV and "Foundation Engineering" in semester V.
- A course of "Transportation Engineering" in semester VI is shifted to semester V.
- In semester VI, course title of Elective-I "Geotechnical Engineering" is changed to "Advanced Geotechnical Engineering".
- Elective - III and Elective IV courses in semester VII & VIII are rearranged.

Following modifications were discussed and deliberated in scheme of MBA Tech. (Civil Engineering):-

- In semester IV, theory hours for the course of "Mechanics of Materials" are revised from 3 to 4 and theory hours for the course of "Concrete Technology" are revised from 3 to 2 and the same course is shifted to semester V.
- In semester IV, course title of "Mini-Projects on Building Planning and Design" is changed to "Studio on Building Planning and Design".
- In semester V, course title of "Mini-Projects on Water Resources and Environmental Engineering" is changed to "Supplementary Instructions on Water Resources and Environmental Engineering".
- In semester V, a new course "Research Methodology" is introduced.
- In semester VI, course title of "Financial Accounting" is changed to "Cost and Management Accounting for Engineers".
- A course of "Mini-Projects on Geotechnical Engineering" of semester V is shifted to semester VI as "Workshop on Foundation Engineering".
- A course of "Workshop on RCC and Structural Steel Detailing" of semester VI is shifted to semester VII as "Capstone Project on Design of Structures".
- A course of "Elements of Biology" is shifted from semester IV to semester V.
- A course of "Soil Mechanics and Foundation Engineering" in semester V is split into two courses - "Soil Mechanics" in semester IV and "Foundation Engineering" in semester V.

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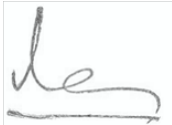
- In semester VI, course title of Elective-I "Geotechnical Engineering" is changed to "Advanced Geotechnical Engineering".
- Elective - III and Elective IV courses in semester VI & VII are rearranged.

With the above changes following documents can be placed before Academic Council:

1. Scheme for B. Tech. (Civil Engineering) [Pl. refer Page CIV- 7 to CIV- 9]
2. Scheme for MBA Tech. (Civil Engineering) [Pl. refer Page CIV- 10 to CIV- 12]
3. Syllabus of "Soil Mechanics", "Mechanics of Materials" and "Studio on Building Planning and Design" [Pl. refer Page CIV- 13 to CIV- 20]

**Agenda 2: Any other item with the permission of the chair.**

Since there were no other matter for discussion, meeting ended with vote of thanks.



Dr. N. T. Rao  
Dean, MPSTME



**Minutes of Meeting of Board of Studies (BOS) in Civil Engineering Department held on January 13<sup>th</sup>, 2020**

A meeting of Board of Studies (BOS) in Civil Engineering Department of MPSTME was held on January 13<sup>th</sup>, 2020 at 5.30 p.m. at Mukesh Patel School of Technology Management and Engineering, Vile-Parle (W), Mumbai.

**Following members were present:**

1. Dr. Vaishali Kulkarni (In the Chair)
2. Dr. Tanuja Bandivadekar, Head, Department of Civil Engineering, MPSTME, Mumbai
3. Dr. P. Bhave, Professor, VJTI, Mumbai
4. Dr. V. B. Deshmukh, Professor, VJTI, Mumbai
5. Mr. Kaustubh Hulyalkar, Consulting Engineer, Mumbai
6. Mr. Neelkanth Joshi, Consulting Engineer, Mumbai
7. Dr. R. A. Hegde
8. Dr. Shirish Vichare
9. Dr. Meenal Mategaonkar
10. Prof. Avadhut Kshirsagar
11. Prof. Prasad Gharat

A leave of absence is granted to  
Mr. Ajay Kanabi, Alumni

Dr. Tanuja Bandivadekar welcomed the members for the meeting. All the members introduced themselves.

Following points were discussed in line with agenda.

**Agenda 1: To discuss and approve the proposed syllabus of B. Tech. in Civil Engineering Third Year to be implemented for the first time in academic year 2020-21.**

Prof. Shirish Vichare presented the scheme of B. Tech. (Civil Engineering) and MBA Tech. (Civil Engineering).

Following modifications were discussed and deliberated in scheme of B. Tech. (Civil Engineering): -

- In semester V, the course of “Professional Ethics and Legal Aspects” will be adopted for B. Tech Civil which is finalized in MBA Tech Civil.
- It is recommended that all courses should specify at least one textbook and 5 or more reference books.
- In semester V, Hydraulics and Fluid machinery, the topic of “Open channel flow” is added, following changes are made:
  - 1 hr from Dimensional Analysis is reduced
  - Centrifugal pumps and Reciprocating Pumps are combined in unit 6 (with title as Pumps) total duration for this unit is kept as 10 hrs. Means, it is reduced from total of 13 (8-CP and 5-RP), previously

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- The topic “Open channel flow is added as unit 3 for the duration of 4 hrs.
- According to the suggestions by the BOS members, following points are incorporated in the course of “Environmental Engineering” of Semester V,
  - The objective 3 & 4 are changed & the new text of objectives 3 & 4 is as under:
    - Obj 3: To understand the laboratory analysis of Water and Wastewater
    - Obj 4: To understand Role of Civil Engineer in Control and Management of Air Quality and Solid Waste
  - Similarly, Out Comes 3 & 4 are changed the text is as under:
    - Outcome 3: Discuss the laboratory analysis of Water and Wastewater
    - Outcome 4: Discuss Role of Civil Engineer in Control and Management of Air quality and Solid Waste at various stages of Project
  - Third item of Term work is deleted.
  - Modules are completely revised. Module on Air & Solid Waste management Each is added & given 5 hrs.
  - Four modules, namely, Water supply Engineering, Water Treatment, Waste Water Engineering, Waste water treatment, which were for 10 hours each are replaced by
    - Water Demand & Conveyance for 15 hrs
    - Waste water generation & conveyance for 15 hrs
  - Module on Building Plumbing which was for 5 hours is unchanged.
- In the course of “Concrete Technology” of semester V, following changes are made:
  - IS 10262 added in Unit 3
  - list of experiments added
  - Relevant IS codes are added in reference books
- According to the suggestions by the BOS members, following points are incorporated in the course of “Transportation Engineering” of Semester V,
  - the objectives have been reduced from five to four and six outcomes to four outcomes.
  - Duration of unit 1- Introduction to Highway has been reduced from 2 hours to 1 hour.
  - Unit 2- Highway planning has been split in to further two separate units as unit 2. Highway planning of 2 hours' duration and unit 3- Geometric design of highways of 12 hours.
  - As per recommendation from BOS design of highway pavements have been included in unit 3- Geometric design of highways
  - Duration of unit 4- Traffic engineering has been increased from 6 hours to 8 hours.
  - Unit 6- Docks and Harbours has been excluded from the syllabus of semester V and is offered as professional elective III (Airport and harbour engineering) in semester VII which is applicable from AY 2021-22.
  - CBR test and softening point on bitumen has been included in the list of experiments
  - Instead of six assignments, assignments covering the syllabus has been prescribed.
  - List of five reference books have been included as per BOS recommendations.



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- According to the suggestions by the BOS members, in teaching scheme practical hours for the course of “Workshop on Foundation Engineering” to be reduced from 4 to 2 in Semester VI (for AY 2021-22 and Batch 2019-23). These two hours are added as theory 1 hour each in the course of “Soil Mechanics” in Semester IV (for AY 2020-21 and Batch 2019-23) and in the course of “Foundation Engineering” semester V (for AY 2021-22 and Batch 2019-23). Thus increasing credits for “Soil Mechanics” in Semester IV and “Foundation Engineering” semester V from 2 to 3. If the teaching scheme is approved, the syllabus of “Soil Mechanics” in Semester IV and “Foundation Engineering” in semester VI to be revised.
- A course of “Research Methodology” of semester V is shifted to Semester VI as prerequisite to the course of Project – I in semester VII.

Following modifications were discussed and deliberated in scheme of MBA Tech. (Civil Engineering): -

- It is recommended that all courses should specify at least one textbook and 5 or more reference books.
- In semester V, Hydraulics and Fluid machinery, the topic of “Open channel flow” is added, following changes are made:
  - 1 hr from Dimensional Analysis is reduced
  - Centrifugal pumps and Reciprocating Pumps are combined in unit 6 (with title as Pumps) total duration for this unit is kept as 10 hrs. Means, it is reduced from total of 13 (8-CP and 5-RP), previously
  - The topic “Open channel flow is added as unit 3 for the duration of 4 hrs.
- According to the suggestions by the BOS members, following points are incorporated in the course of “Environmental Engineering” of Semester V,
  - The objective 3 & 4 are changed & the new text of objectives 3 & 4 is as under:
    - Obj 3: To understand the laboratory analysis of Water and Wastewater
    - Obj 4: To understand Role of Civil Engineer in Control and Management of Air Quality and Solid Waste
  - Similarly, Out Comes 3 & 4 are changed the text is as under:
    - Outcome 3: Discuss the laboratory analysis of Water and Wastewater
    - Outcome 4: Discuss Role of Civil Engineer in Control and Management of Air quality and Solid Waste at various stages of Project
  - Third item of Term work is deleted.
  - Modules are completely revised. Module on Air & Solid Waste management Each is added & given 5 hrs.
  - Four modules, namely, Water supply Engineering, Water Treatment, Waste Water Engineering, Waste water treatment, which were for 10 hours each are replaced by
    - Water Demand & Conveyance for 15 hrs
    - Waste water generation & conveyance for 15 hrs
  - Module on Building Plumbing which was for 5 hours is unchanged.
- In the course of “Concrete Technology” of semester V, following changes are made:
  - IS 10262 added in Unit 3
  - list of experiments added
  - Relevant IS codes are added in reference books



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- According to the suggestions by the BOS members, following points are incorporated in the course of “Transportation Engineering” of Semester V,
  - the objectives have been reduced from five to four and six outcomes to four outcomes.
  - Duration of unit 1- Introduction to Highway has been reduced from 2 hours to 1 hour.
  - Unit 2- Highway planning has been split in to further two separate units as unit 2. Highway planning of 2 hours’ duration and unit 3- Geometric design of highways of 12 hours.
  - As per recommendation from BOS design of highway pavements have been included in unit 3- Geometric design of highways
  - Duration of unit 4- Traffic engineering has been increased from 6 hours to 8 hours.
  - Unit 6- Docks and Harbours has been excluded from the syllabus of semester V and is offered as professional elective III (Airport and harbour engineering) in semester VII which is applicable from AY 2021-22.
  - CBR test and softening point on bitumen has been included in the list of experiments
  - Instead of six assignments, assignments covering the syllabus has been prescribed.
  - List of five reference books have been included as per BOS recommendations.
- According to the suggestions by the BOS members, in teaching scheme practical hours for the course of “Workshop on Foundation Engineering” to be reduced from 4 to 2 in Semester VI (for AY 2021-22 and Batch 2019-24). These two hours are added as theory 1 hour each in the course of “Soil Mechanics” in Semester IV (for AY 2020-21 and Batch 2019-24) and in the course of “Foundation Engineering” semester V (for AY 2021-22 and Batch 2019-24). Thus increasing credits for “Soil Mechanics” in Semester IV and “Foundation Engineering” semester V from 2 to 3. If the teaching scheme is approved, the syllabus of “Soil Mechanics” in Semester IV and “Foundation Engineering” in semester VI to be revised.
- A course of “Research Methodology” of semester V is shifted to Semester VI as prerequisite to the course of Project – I in semester VII.
- As per the request of Technology Management, following changes are made in teaching scheme,
  - A course of “Project - I” is shifted from semester VI to semester VII.
  - A course of “Professional Elective - III” is shifted from semester VI to semester VII.
  - A course of “Open Elective - I” is shifted from semester VI to semester VII.

**Members approved the teaching scheme and syllabus of Pre Ph.D. Course Work for Term I & Term II.**

With the above changes following documents can be placed before Academic Council:

1. Teaching Scheme for B. Tech. (Civil Engineering) of Semester V & VI for AY 2020-21(Batch 2018-22) [Pl. refer Page CIV- 10]
2. Teaching Scheme for MBA Tech. (Civil Engineering) of Semester V & VI for AY 2020-21(Batch 2018-23) [Pl. refer Page CIV- 11]



3. Teaching Scheme for B. Tech. (Civil Engineering) of Semester IV for AY 2020-21(Batch 2019-23) and Semester V & VI for AY 2021-22(Batch 2019-23) **[Pl. refer Page CIV- 12 to CIV - 13]**
4. Teaching Scheme for MBA Tech. (Civil Engineering) of Semester IV for AY 2020-21 (Batch 2019-24) and Semester V & VI for AY 2021-22(Batch 2019-24) **[Pl. refer Page CIV- 14 to CIV - 15]**
5. Syllabus of B. Tech and MBA Tech Civil Engineering Semester V **[Pl. refer Page CIV- 16 to CIV- 32]**
6. Pre-Ph. D. teaching scheme and syllabus for Term I & Term II. **[Pl. refer Page CIV- 33 to CIV- 38]**

**Agenda 2: Any other item with the permission of the chair.**

Since there were no other matter for discussion, meeting ended with vote of thanks.



**Dr. Tanuja Bandivadekar**  
**HOD, Civil Engineering**

