

Dr. Ambedkar Institute of technology, Bengaluru-56
Department of Civil Engineering

The enclosed documents are verified & approved.



Prof & Head

Dr. S. Vijaya

Department of Civil engineering


Professor and Head


Department of civil Engineering

Dr. Ambedkar Institute of Technology

Bangalore - 560 056

NAAC CO-ORDINATORS:

MARY BHAGYA SATHI, Asst Professor 

Dr. K. Hemant Kumar, Asst Professor 



Dr. Ambedkar Institute of Technology

(An Autonomous Institution, Aided by Government of Karnataka
Affiliated to Visvesvaraya Technological University, Belgaum)

BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bangalore - 560 056

Ref. No.

Date :

M tech-Structural Engineering.

The following consists of newly added & modified subjects focussed on Employability /
Entrepreneurship/ Skill development.

SL. NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during the last five years)
1	Design of Concrete Bridge Structures	20CSE264	Employability & Skill development	2021-22
	Design of Concrete Bridge Structures	20CSE264	Employability & Skill development	2020-21
2	Self study-Massiv Open Online course (MOOC)	20CSE31	Employability & Skill development	2020-21
3	Structural Engineering Laboratory	20CSEL17	Employability & Skill development	2020-21
4	Design of Industrial Structures	18CSE422	Employability & Skill development	2019-20
4	Design of Industrial Structures	18CSE422	Employability & Skill development	2018-19
5	Masonry Structures	CSE424	Employability & Skill development	2017-18


BOS Chairman

Department of Civil Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056


Principal

PRINCIPAL
Dr. Ambedkar Institute of Technology
Bangalore-560 056

**Dr. Ambedkar Institute of Technology
Department of Civil Engineering**

Minutes of the 7th BOS meeting held on 18.06.2016

The meeting commenced at 9.00 AM on 18-06-2016 in the M Tech class room of the Silver jubilee building, Dr. AIT under the chairmanship of Dr. B. Shivakumaraswamy, HOD Civil Engineering Department. The Chairman welcomed all the members of BOS to the meeting and presented the scheme and syllabus of BE (Civil) for the approval. The following dignitaries of BOS attended the meeting

1. Dr. B. Shivakumaraswamy, Professor & Head, Dr. AIT. Bangalore
2. Dr. N.S. Kumar, VTU Nominee, Professor of Civil Engg. CED, GCE, Ramanagaram.
3. Dr. Chandrakishen, Professor of Civil Engineering, IISc, Bangalore.
4. Dr. Ganagadhar, S. Professor of Civil Engineering, CED, UVCE, Bangalore.
5. Dr. Udayashankar, Professor of Civil Engineering, CED, RVCE, Bangalore.
6. Dr. Nataraj, Professor of Civil Engineering, CED, SJCE, Mysuru.
7. Dr. K. Shantharaju, Project Head, PSC India Infrastructure Pvt Ltd, Pune
Maharashtra State
8. Ms. Mamatha ME, (PhD) Asst. Prof. EWIT, Bangalore
9. Dr. M.N. Hegde, Professor, CED, Dr. AIT. Bangalore
10. Dr. K.V.Lokesh, Professor, CED, Dr. AIT. Bangalore
11. Dr. S. Vijaya, Professor, CED, Dr. AIT. Bangalore
12. Dr. S.D. Venkataraj mohan, Professor, CED, Dr. AIT. Bangalore
13. Dr. S.G. Ramachandraiah, Associate Professor, CED, Dr. AIT. Bangalore
14. Dr. K.V. Manjunatha, Associate Professor, CED, Dr. AIT. Bangalore
15. Mr. R. Madhusudhan, Asst. Professor, CED, Dr. AIT. Bangalore
16. Mr. M. R. Suresh, Associate Professor, CED, Dr. AIT. Bangalore
17. Mr. T. Chandrashekariah, Associate Professor, CED, Dr. AIT. Bangalore
18. Mr. H.R.Srinivas, Asst. Prof. CED, Dr. AIT. Bangalore
19. Mr. H. Anantharam, Associate Professor, CED, Dr. AIT. Bangalore
20. Mr. G.P. Manjunath, Associate Professor, CED, Dr. AIT. Bangalore
21. Mr. M. Krishnamurthy, Associate Professor, CED, Dr. AIT. Bangalore
22. Mr. Ankesh, S.B, Asst. Professor, CED, Dr. AIT. Bangalore
23. Mr. Dharshan M.K, Asst. Professor, CED, Dr. AIT. Bangalore
24. Mrs. Poornima Biranagi, Asst. Professor, CED, Dr. AIT. Bangalore
25. Ms. Vaibhavi, Asst. Professor, CED, Dr. AIT. Bangalore
26. Mrs. Kavya,H.K Asst. Professor, CED, Dr. AIT. Bangalore

Agenda


- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to VIII Semester BE Civil Engineering courses to be introduced for the Academic year 2016-17.

- The BOS Chairman presented the proposed Curriculum design, the Scheme and Syllabus of BE Civil Engineering courses to be introduced for the academic year 2016-17 through power point. The hard copies of the proposed Scheme and Syllabus from I Semester to VIII semester BE Civil Engineering courses also distributed to all the members of BOS for a detailed review and sought their opinion with regard to any addition / correction / deletion / modification in the proposed syllabus and accordingly all the members of BOS after a thorough review and discussion made the following suggestions / corrections / modification as detailed below:
 1. Dr. Chandrakishen, Professor IISc, Bengaluru, suggested shifting analysis of trusses from unit 2 to unit 1 and deflection of beams (moment area method and conjugate beam method) from unit 1 to unit 2. Also suggested to change the title of the unit 5 as Analysis of indeterminate arches.
 2. In addition to the study of kinematics of rectilinear motion, Projectiles and kinetics of rigid bodies, the super elevation and banking portion is introduced in ECE and Engg. Mechanics of I Sem. BE for all branches of Engineering as per the decision taken in the departmental BOS meeting. The Board has accepted to include the suggestions.
 3. Dr. Chandrakishen, Professor IISc / BOS has suggested to modify the title of the subject CV31 Building Materials and Construction instead of Building Materials and Construction Technology and the suggestion has been incorporated.
 4. Dr. N S Kumar, member of VTU nominee has suggested including derivation of equations for thick and thin cylinders in addition to application in unit 4 in Strength of Materials.
 5. Dr. Udayashankar, Prof. of RVCE has suggested to give more credit to Structures subject but the members expressed to give maximum of 4 credits per subject.
 6. Dr. Nataraj has suggested to change the title of unit 4 in Fluid Mechanics as flow through pipes and suggested some reference books and the BOS has accepted.
 7. Dr. Chandrakishen, Professor IISc / Dr. K. Shantharaju / Dr. Gangadhar have advised to change load for footing as Proportioning of footing for equal settlement and the suggestion has been incorporated.

8. The Chairman proposed to introduce computer Aided RC drawing (Part-A) and Part-B, the design as per IS: 456-2000 in Design and drawing of RC Structures (CV61) as discussed in the department board meeting and the Board has accepted the proposal.
9. Dr. Nataraju. Professor of Civil Engg. SJCE proposed to incorporate Arch dams in Unit 2 of Hydraulic structures & irrigation design – drawing and the board has accepted to incorporate the same.
10. Dr. Nataraju. Professor of Civil Engg. SJCE / Dr. Udayashankar / Mamatha. A, Alumni representative advised to increase the credit for the Extensive Survey Project in VI Sem. BE but the board has not accepted.
11. Mr. T chandrasekaraiah, Associate Professor asked for more credit for Transportation Engineering-I, but the board suggested to keep the same credit and increase the number of hours of teaching.
12. The members of BOS suggested carrying out New Tank Project and Old Tank Project surveying at SS Ghati using Total Station and the chairman accepted the suggestion and incorporated.
13. Dr. N S Kumar, member of VTU nominee has suggested to remove tubular connection in welded joints in the subject Cv71, Design of Steel Structures and the BOS members agreed for the suggestion.
14. The Chairman proposed to introduce computer Aided steel drawing (Part-A) and Part-B, the design as per IS: 800-2007 in Design and drawing of Steel Structures (CV81) as discussed in the department board meeting and the Board has accepted the proposal.
15. Dr. N S Kumar, member of VTU nominee has suggested. to remove the design of bolted plate girder in the subject design and drawing of Steel Structures of VIII Sem. BE but the board rejected the proposal and to retain the same in the syllabus.
16. Dr. K.V. Lokesh suggested to incorporate Indoor Air Pollution in the subject CV755, Air Pollution and control (Unit 4) and the board has accepted to incorporate.
17. Dr. K. Shantharaju, Industrial Expert advised to include Construction Project Management (CV758) as Core subject instead of Elective but the board has not come to any conclusion because of credit allotment in the core subjects.

18. Dr. Udayashankar B.C. Prof of RVCE, suggested adding code books in the subject CV834, Advanced design of Steel Structures and the same is incorporated.
19. Dr. SDV / HAR / Dr. K.V. Lokesh suggested including environmental impact due to the construction activities in Highway project in the subject CV836, Environmental Impact Assessment as discussed in the department meeting and the board has accepted to incorporate the same in Unit 5.
20. Dr. Chandrakishen, Professor IISc / Dr. K. Shantharaju, Industrial Expert advised to include Repair and Rehabilitation of Structures as Elective and the board has accepted to include the subject in VI Semester electives.
21. The BOS members have suggested including NDT in concrete laboratory syllabus for 7th semester B. E. Since, the equipments required are procured under VTU research grants for the project "Health monitoring, repair and rehabilitation of structures" the suggestion is considered and implemented.
22. As per the suggestions of BOS members, the Advanced concrete Technology subject has been introduced in VI Sem. BE instead of VIII Sem. because to give more time for the students to carry out their main Project.
23. The BOS members suggested to procure latest licensed version soft ware's such as Auto CAD, STAAD Pro, E-Tabs, ANSYS etc for academic purpose.

With the long discussion, all the members are agreed to make changes and modification in the syllabus for the academic year 2016-17. With this, meeting was concluded with vote of thanks to the chair by Dr. K.V. Manjunath.


(Dr. B. Shivakumara swamy)
Chairman, BOS,
Prof. & Head, Dept. of Civil Engineering
Dr. AIT, Bangalore- 56.

W/c to Copy:

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Dr. Ambedkar Institute of Technology
Department of Civil Engineering

Minutes of the 7th BOS meeting held on 25.03.2017

The meeting commenced at 10.00AM on 25-03-2017 in the M Tech class room of the Silver jubilee building, Dr. AIT under the chairmanship of Dr. B. Shivakumaraswamy, HOD Civil Engineering Department. The Chairman welcomed all the members of BOS to the meeting and presented the scheme and syllabus of BE (Civil) and M Tech (CSE) for the approval. The following dignitaries of BOS attended the meeting

1. Dr. B. Shivakumaraswamy, Professor & Head, Dr. AIT. Bangalore
2. Dr. Chandrakishen, Professor of Civil Engineering, IISc, Bangalore.
3. Dr. Renukadevi, VTU Nominee, Professor of Civil Engg. CED, RVCE, Bengaluru
(23/03/2017).
4. Dr. Ravikumar A. S. Professor of Civil Engineering, CED, UVCE, Bangalore.
5. Dr. Mayanaik, Professor and Head, Civil Engineering, CED, BMSCE, Bangalore.
6. Prof. S. Bhavanishankar Professor of Civil Engineering, CED, UVCE, Bangalore.
7. Sri. Chinnasomaiah, Chief Engineer (Civil), KPC, Bengaluru
8. Mr. Rajagopal R.S, Scientist E, NAL, Bengaluru
9. Mr. Arunkumar ME, (PhD) Asst. Prof. EWIT, Bangalore
10. Dr. S. Vijaya, Professor, CED, Dr. AIT. Bangalore
11. Dr. S.D. Venkataraj mohan, Professor, CED, Dr. AIT. Bangalore
12. Dr. S.G. Ramachandraiah, Associate Professor, CED, Dr. AIT. Bangalore
13. Mr. R. Madhusudhan, Asst. Professor, CED, Dr. AIT. Bangalore
14. Mr. H.R. Srinivas, Associate. Prof. CED, Dr. AIT. Bangalore
15. Mr. M. R. Suresh, Associate Professor, CED, Dr. AIT. Bangalore
16. Dr. Chandraashekar, Associate. Prof. CED, Dr. AIT. Bangalore
17. Mr. T. Chandrashekariah, Associate Professor, CED, Dr. AIT. Bangalore
18. Dr. K.V. Lokesh, Professor, CED, Dr. AIT. Bangalore
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24. Mr. Darshan M.K, Asst. Professor, CED, Dr. AIT. Bangalore
25. Miss Poornima, Asst. Professor, CED, Dr. AIT. Bangalore
26. Smt. Kavya H.K, Asst. Professor, CED, Dr. AIT. Bangalore
27. Smt. Vaibhavi B.D, Asst. Professor, CED, Dr. AIT. Bangalore
28. Smt. Supritha, Asst. Professor, CED, Dr. AIT. Bangalore

Agenda

- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to VIII Semester BE Civil Engineering courses to be introduced for the Academic year 2017 - 18.

- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to IV Semester M Tech structural Engineering courses to be introduced for the Academic year 2017 - 18.
- The BOS Chairman presented the proposed Curriculum design, the Scheme and Syllabus of BE Civil Engineering courses and also M Tech (Structural Engineering) to be introduced for the academic year 2017-18 through power point. The hard copies of the proposed Scheme and Syllabus from I Semester to VIII semester BE Civil Engineering courses also distributed to all the members of BOS for a detailed review and sought their opinion with regard to any addition / correction / deletion / modification in the proposed syllabus and accordingly all the members of BOS after a thorough review and discussion made the following suggestions / corrections / modification as detailed below:
 1. Dr. Chandrakishen, Professor of Civil Engineering, IISc suggested to introduce numerical problems in D'Alembert's Principle in the subject ECE and Engineering. Mechanics of I Sem. BE for all branches of Engineering (common subject for I year). The Board has accepted to include the suggestions.
 2. Prof. S. Bhavanishankar suggested to incorporate Cement Concrete blocks, Stabilized mud blocks, Sizes requirement of good blocks, Mortar- types and requirements content in the I unit of Building materials and Construction. Timber chapter is included in unit 3 which consists of doors and windows. The Board has accepted the suggestion.
 3. Dr. Ravikumar suggested to include the measurement of fluid flow through Venturi flume in the Fluid mechanics theory and the Board has accepted the suggestion.
 4. In the Surveying Practice-II syllabus, the contents such as difference in elevation between two points and gradient, Distance between two inaccessible points using Total Station is introduced as per the suggestion made by Chinnasomaiah, Industrial expert and the Board also accepted the same.
 5. Mr. M. R. Suresh expressed to include X-ray diffraction technique of identification of clay minerals, confined and un confined aquifer in unit 3 of Geotechnical engineering -I of V Sem BE, The Board has accepted after discussion.
 6. Dr. Ravikumar and Dr. Chandrakishen have suggested to introduce study of performance of Multi-stage centrifugal pump and Performance characteristics of

Francis Turbine in Fluid mechanics Lab since the equipments are available and the Board has accepted.

7. Description of Mano rail to introduce in transportation engineering –I has been accepted by the board as per the suggestion made by Mr. R. S Rajagopal Scientist E, NAL.
8. Dr. Chandrakishen, Professor IISc advised to include two reference books for Strength of Materials and Structural Analysis by Hibbeler.
9. Pile foundation unit is modified as per the advice of Internal and External BOS members in Geotechnical engineering II subject and the board has accepted the modifications.
10. The relative density for sand and determination of free swell and differential swell for soils, and assessing SBC of soil has been introduced in the subject Geotechnical engineering lab as per the discussion held in the meeting and the board has accepted.
11. The BOS members have suggested to have four CO's in the subject CV62 Transportation Engineering-II and the same is considered.
12. The syllabus content of the mini project has been discussed and accepted by the board.
13. DESIGN AND COMPUTER AIDED DRAWING OF STEEL STRUCTURES for VIII Sem. BE (Civil) has been introduced in place of Design and drawing of steel Structures. Here Part-A, Drawing shall be done using CAD and Practical examination is to be conducted separately for 40 marks. Part-B Design and drawing as per IS:800-2007 and Theory examination shall be conducted separately for 60 marks in 3 hours, the Board has accepted the modification.
14. The syllabus content of main project and seminar has been discussed in detail for VIII Sem. BE and accepted by the board.
15. The subject Advanced concrete Technology is shifted from VIII sem. BE to VII Sem. BE of 2014-15 batch to reduce the number of credits in VIII sem. BE as per the suggestions by the BOS members.
16. Dr. Renukadevi suggested one reference book "Engineering Mechanics by Ferdinand Singer for I semester BE Civil and it is incorporated.
17. Dr. Chandrakishen, suggested to have Advanced Design of Steel Structures as core subject than Design of Plates and shells in M Tech Second semester. The board has accepted the suggestion.

18. The board members discussed the syllabus content of mini project work and also main Project for M Tech (CSE) and accepted the same.
19. Dr. Chandrakishen and Sri. Chinnasomaiah have suggested to include Derivation of fourth order differential equation, relationship between moment and curvature and deflection and Raleigh-Ritz .method in design of Plates and Shells of II Semester M Tech and the board has accepted after thorough discussion.
20. Dr. Renukadevi Opined that Project Management and maintenance subject is essential for M Tech students and is to be incorporated in the syllabus. The BOS members agreed for the suggestion and it will be incorporated in the next academic year.
21. The BOS members suggested to procure latest Licensed version soft ware's such as Auto CAD, STAAD Pro, E-Tabs, Ansys etc for academic purpose. The BOS members expressed their happiness for having Research Methodology and Thesis writing in II Sem. M Tech (CSE).

With the long discussion, all the members are agreed to make changes and modification in the syllabus for the academic year 2017-18. With this, meeting was concluded with vote of thanks to the chair.



(Dr. B. Shivakumara swamy)
Chairman, BOS,
Prof. & Head, Dept. of Civil Engineering
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**ADr. Ambedkar Institute of Technology
Department of Civil Engineering**

Minutes of the 8th BOS meeting held on 25.06.2018

The meeting commenced at 9.30AM on 25-06-2018 in the M Tech class room of the Silver jubilee building, Dr. AIT under the chairmanship of Dr. B. Shivakumaraswamy, HOD Civil Engineering Department. The Chairman welcomed all the members of BOS to the meeting and presented the scheme and syllabus of BE (Civil) and M Tech (CSE) for the approval. The following dignitaries of BOS attended the meeting

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4. Dr. Mayanaik, Professor and Head, Civil Engineering, CED, BMSCE, Bangalore.
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12. Mr. H.R. Srinivas, Associate. Prof. CED, Dr. AIT. Bangalore
13. Mr. M. R. Suresh, Associate Professor, CED, Dr. AIT. Bangalore
14. Mr. T. Chandrashekariah, Associate Professor, CED, Dr. AIT. Bangalore
15. Dr. K.V. Manjunatha, Associate Professor, CED, Dr. AIT. Bangalore

Agenda

- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to VIII Semester BE Civil Engineering courses to be introduced for the Academic year 2018 – 19.
- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to IV Semester M Tech Structural Engineering courses to be introduced for the Academic year 2018 - 19.
- The BOS Chairman presented the proposed Curriculum design, the Scheme and Syllabus of BE Civil Engineering courses and also M Tech (Structural Engineering) to be introduced for the academic year 2018-19 through power point. The hard copies of the proposed Scheme and Syllabus from I Semester to VIII semester BE Civil Engineering courses and M Tech also distributed to all the members of BOS for a detailed review as per AICTE / VTU guide lines and sought their opinion with regard to any addition / correction / deletion / modification in the proposed syllabus and accordingly all the members of BOS after a thorough review and discussion made the following suggestions / corrections / modification as detailed below:

1. The chairman draw the attention of BOS members regarding the limitations of credits and number of subjects as per the AICTE/VTU guide lines and emphasized on change of credits for few subjects in the benefit of students to introduce new syllabus.
2. As per the discussion in the college council meeting to reduce number of credits from 150 to 135 for Civil engineering courses (III Sem. to VIII Sem. BE) and 100 to 88 for M Tech (CSE) from the academic year 2018 – 19 onwards, the chairman presented and sought their approval.
3. The title of the some of the courses from existing scheme was re-named/changed and they are presented in the scheme of study.
4. Some of the existing courses are merged and made it as a single course / subject as presented in the scheme of study.
5. The scheme and syllabus for first/second semester common to students of all branches, 18CV14 / 24 Civil engineering and mechanics for three credits was discussed and got approval.
6. Dr. Renukadevi suggested to include applications in third unit of 18CV14/24 and it was approved also suggested one reference book “Engineering Mechanics by Ferdinand Singer it is incorporated..
7. In the present curriculum (2018-19) HS01 Environmental studies is introduced in third and fourth semester of BE for all branches.
8. Prof. S. Bhavanishankar suggested incorporating construction chemicals and new materials of construction in the subject 18CV31. Though it is relevant considering the advancement in the technology, but some of the members after going through the syllabus content opined that it is voluminous hence it is not included. He also suggested to include self compacting concrete (SCC) in the subject 18CV41 and the board has accepted.
9. Dr. K V Manjunath suggested shifting unit 1 of 18CV41 to 18CV31 and the board has not accepted.
10. Chinnasomaiah, Industrial expert suggested to change the teaching methodology from conventional to computer aided (Auto CAD) for the course Building planning and drawing and the board has accepted and the subject is renamed as computer Aided Building planning and drawing for the same credit for the students admitted to 2018-19.
11. Concrete and Highway materials lab is allotted to IV Sem. BE civil curriculum as per the suggestion of BOS members.

12. The extensive survey was converted as Advanced survey practice as a non credited course in the VI Sem. BE.
13. The course Hydraulic structures and Irrigation drawing is made it as departmental elective due to shortage of credits. However, Dr. Ravikumar suggested to include Reservoir planning in the core course Hydrology and Irrigation and the board has accepted.
14. The Electives in the various groups are discussed and one of the BOS member Sri Rajagopal R S suggested to keep Advanced Pre-stressed concrete Structure in group 5 and the board has accepted.
15. Prof. S. Bhavanishankar suggested incorporating, the assessment of residual strength of distressed structural elements in the main project of BE and M Tech and the board has accepted.
16. The board members suggested to give seminar / mini project topics from the important units of electives and the board has accepted.
17. Description of Mano rail in the course Railway, Airport and Harbour engineering has been accepted by the board as per the suggestion made by Mr. R. S Rajagopal Scientist E, NAL.
18. The BOS members are suggested to procure equipments for the structural engineering lab,(M Tech) to measure natural period, frequency and mode shapes and the board has accepted. The BOS members expressed their happiness for having Research Methodology and Thesis writing in II Sem. M Tech (CSE).
19. The BOS members expressed their views to modify the syllabus content of newly introduced subject Design of composite Structural Elements as an elective in IV Sem. M Tech. and Dr. Renukadevi suggested to keep Advanced Structural Analysis instead of the above subject.
20. The BOS members suggested to send M Tech students to CPRI Bengaluru or SERC Chennai to do their M Tech projects on transmission towers and advanced research and the board has accepted. Also The BOS members suggested to procure latest Licensed version soft ware's such as STAAD Pro, NASTRON (Analysis software) etc for academic purpose.

With the long discussion, all the members are agreed to make changes and modification in the syllabus for the academic year 2018-19. With this, meeting was concluded with vote of thanks to the chair.



(Dr. B. Shivakumara swamy)
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**Dr. Ambedkar Institute of Technology
Department of Civil Engineering**

Minutes of the 8th BOS meeting held on 25.05.2019

The meeting commenced at 9.30AM on 25-05-2019 in the Seminar hall of the Silver jubilee building, Dr. AIT under the chairmanship of Dr. B. Shivakumaraswamy, HOD Civil Engineering Department. The Chairman welcomed all the members of BOS to the meeting and presented the scheme and syllabus of BE (Civil) and M Tech (CSE) for the approval. The following dignitaries of BOS attended the meeting

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2. Dr. Chandrakishan, Professor, IISc, Bengaluru
3. Dr. Krishnaiah, VTU Nominee, Professor of Civil Engg. CED, MCE, Hassan
4. Dr. Renukadevi, Professor of Civil Engg. CED, RVCE, Bengaluru
5. Dr. Ramaraj, Professor and head of Civil Engineering, CED, DSCE, Bengaluru
6. Dr. M N Hegde, Professor, CED, Dr. AIT. Bengaluru
7. Dr. S. Vijaya, Professor, CED, Dr. AIT. Bengaluru
8. Dr. S.D. Venkataraj mohan, Professor, CED, Dr. AIT. Bengaluru
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11. Mr. T. Chandrashekariah, Associate Professor, CED, Dr. AIT. Bengaluru
12. Dr. K.V. Manjunatha, Associate Professor, CED, Dr. AIT. Bengaluru
13. Dr. Chandrashekar, Associate Professor, CED, Dr. AIT. Bengaluru
14. Dr. Raghunathan, Scientist E, SERC, Tower Testing research Centre
15. Sri. Chinnasomaiah, Chief Engineer (Civil), KPC, Bengaluru
16. Mrs. Nagashree MTech, (PhD), Asst. Prof. MSRIT, Bengaluru

Agenda

- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to VIII Semester BE Civil Engineering courses to be introduced for the Academic year 2019-20
- Review and approval of the proposed Scheme of Study and Syllabus from I Semester to IV Semester M Tech Structural Engineering courses to be introduced for the Academic year 2019-20.
- Review of curriculum as per the guide lines of AICTE/VTU.
- The BOS Chairman presented the proposed Curriculum design, the Scheme and Syllabus of BE Civil Engineering courses and also M Tech (Structural Engineering) to be introduced for the academic year 2019-20 through power point. The hard copies of the proposed Scheme and Syllabus from I Semester to VIII semester BE Civil Engineering courses and M Tech also distributed to all the members of BOS for a detailed review as per AICTE / VTU guide lines and sought their opinion with regard to any addition / correction / deletion / modification in the proposed syllabus and

accordingly all the members of BOS after a thorough review and discussion made the following suggestions / corrections / modification as detailed below:

1. The chairman draw the attention of BOS members regarding the reduction of credits and number of subjects as per the AICTE/VTU guide lines and emphasized on change of credits for few subjects in the benefit of students to introduce new syllabus.
2. The Curriculum design for BE Civil engineering courses (III Sem. to VIII Sem. BE) from 150 to 135 credits and M Tech (CSE) from 100 to 88 from the academic year 2019–20 onwards was presented by the chairman and sought their approval.
3. The syllabus content of few courses are merged and made it as a single course / subject as presented in the scheme of study.
4. The subject title of some of the courses from existing scheme was re-named and they are presented in the scheme of study.
5. The scheme and syllabus for first/second semester common to students of all branches, 18CV14/24 Civil engineering and mechanics for three credits was discussed and got approval.
6. Dr. Chandrakishen, Profesor IISc, Bengaluru has suggested to incorporate video clips during lecture hour in the class related to force system, cetroid, MI and friction in engineering mechanics course.
7. Chinnasomaiah, Industrial expert suggested to incorporate leadership in energy efficient design of components in Building material and construction course.
8. Mrs. Nagashree Alumni of Dr. AIT suggested including contents on re-use of building materials in CV31 course.
9. Dr. Chandrakishen, Profesor IISc, suggested reducing the syllabus in CV32 (SOM) by removing Merchant-Rankine's formula and Mohr's circle of strain.
10. Dr. Ramaraju & Dr. Chandrakishen, Profesor IISc suggested to remove chain / tape surveying, Compass surveying in Survey theory and to include the same in Surveying practice has self study component/demonstration. Also they have suggested to have one unit specially on Total Station.
11. The Internal and External members are agreed to combine Geology theory and Lab in order to reduce the number of credits as per the guide lines.
12. Dr. Chandrasekar sought to removal of EIA in HS01 subject and the members accepted the same.
13. Dr. Ramaraju suggested to include topic on method of determining the ground water quantity in the course water supply engineering

14. Dr. Renukadevi and Dr. K V Manjunath suggested to modify the contents of Unit 4 &5 of the subject Hydrology and Irrigation and the Board has accepted the same.
15. Dr. Chandrakishen and Dr. Raghunathan suggested including the knowledge curve in determining the strength parameters in Concrete technology.
16. Chinnasomaiah, Dr. Ramaraju suggested to introduce the Advanced Sequential Batch Reactor (ASBR) technology in Wastewater Treatment and Disposal subject.
17. Dr. Chandrakishen, Dr. Raghunathan, Nagashree and Dr. Renukadevi suggested to include plastic analysis instead of Kani's method in the subject Structural Analysis.
18. Dr. Chandrakishen & Chinnasomaiah, has suggested to include Metro rail system in one of the unit in the subject Transportation Engg II.
19. Dr. Ramaraju has suggested to include Radioactive solid waste in SWM & A case study on land fill liners in ISWM subject.
20. Dr. S D Venkataraj mohan & Dr. Raghunathan, suggested to include guide lines of Real Estate Regulation Act (RERA) in Estimating and costing subject
21. Dr. Ramaraju has suggested including experiments using high volume sampler in environmental Engineering Lab.
22. Chinnasomaiah, Dr. Ramaraju & Dr. S D Venkataraj mohan have suggested to include zero level discharge industrial wastewater in Unit IV of IWWT.
23. Dr. Ramaraju & Dr. S D Venkataraj mohan suggested to include ecology contents in CVE03 subject.
24. Dr. Raghunathan, suggested to include skill based design and fabrication in the design of Steel Structure.
25. Dr. Krishnaiah suggested to register Mooc / swayam online courses for final year students and staffs of the department.
26. Dr. Raghunathan has suggested to change the title of the course Structural engg Lab II as Computational Mechanics Lab and the Board has accepted.
27. One of the BOS members suggested to keep only Stiffness matrix method in Computational Structural Mechanics and the board has not accepted.
28. Dr. Chandrakishen, Dr. Raghunathan, has suggested to include design of Strut and Tie members in Advanced design of Steel Structure.
29. Dr. Renukadevi has suggested to change the title of unit V as continuous system in 18CSE13 Mechanics of deformable bodies.
30. Dr. Raghunathan and Chinnasomaiah, has suggested to include Geopolymer concrete in unit I of Special concrete.

31. Nagashree has suggested to incorporate micro structure of concrete using SEM and the board has accepted.
32. Dr. Chandrakishen, Dr. Raghunathan and Nagashree have suggested Design of Precast and composite Structure as one of the elective in any one of the Semester.
33. Dr. Raghunathan has suggested to include prefabrication of Buildings in the elective.
34. Dr. Raghunathan and Chinnasomaiah, has suggested to include Reliability and Risk Analysis in the course Reliability analysis of Structures.
35. Dr. Chandrakishen, has suggested to include concept of Pre-engineered structural components in the subject Advanced design of structures.
36. Dr. Chandrakishen, has suggested inclusion of non-linear analysis of structures in the course Finite element Analysis.
37. Dr. Raghunathan has suggested inclusion of topic Transmission Towers in Design of Tall Structures.
38. Dr. M N Hegde suggested to include MAT Lab, Eigen Value in the Structural Engg Lab -II.
39. Dr. Chandrakishen, has suggested inclusion transver girders in III unit of Design of Tall Structures.
40. Dr. Raghunathan and Nagashree have suggested to introduce Chapters on Patents and Intellectual Property rights in Research methodology course.

With the long discussion, all the members are agreed to make changes and modification in the syllabus for the academic year 2019-20. With this, meeting was concluded with vote of thanks to the chair.



(Dr. B. Shivakumara swamy)
Chairman, BOS,
Prof.& Head, Dept. of Civil Engineering
Dr. AIT, Bangalore- 56.

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Dr. Ambedkar Institute of Technology, Bangalore-56.

DEPARTMENT OF CIVIL ENGINEERING

No. CV/200/BOS/2020-21

Dated: August 14, 2020

FINAL BOARD of STUDIES (BOS) MEETING NOTIFICATION for UG and PG PROGRAMME

Subject: - Revision in the Existing Syllabus of I, II (common subject for both semester) and IV Semester and Syllabus Proposal for the V and VI Semester and also proposal for PG I & II semester (Structural Engineering) Reg.,

The internal Board of Studies (BOS) meetings held on Jul 09, 2020 considered the recommendations of the Department Academic Program Committee (DAPC) for the changes in the existing syllabus of I, II, III and IV Semester and proposal for the V and VI semester syllabus of the upcoming Odd Semester 2020-21.

The internal BOS committee decided as under for **UG Program:**

Sl. No.	Semester	Unit	Existing Portion of the Syllabus	Modified Portion of the Syllabus	Remarks
1	I & II (18CV14 / 24)	I	Force systems in 3-D analysis	Excluded in the upcoming syllabus	It is a common subject for all branches and it is find to be difficult to complete the syllabus in stipulated time.
2		III	Screw Jacks and different Screw Jacks analysis in Friction	Excluded in the upcoming syllabus	
3		IV	Mass Moment of Inertia of Circular, Plates, Cylinders, Cone, Sphere and Hook	Excluded in the upcoming syllabus	
4		V	Curvilinear Motion, Super Elevation, D'Alembert's Principle and its application in plane motion and connected bodies	Excluded in the upcoming syllabus	
5	IV (18CVL46)	II	Introduced drawing, editing, modifying and other advanced AutoCAD tools.	Which was not include in the earlier Syllabus	Which is essential to use AutoCAD applications in Civil Engineering works.

the modifications mentioned in the above table is for your kind review and approval.

The Proposed syllabus for V & VI Semester UG for the academic year 2020-21 is attached with this for your kind reference, review and approval.

The proposed syllabus for I & II semester PG Programme for the academic year 2020-21 is attached with this for your kind reference, review and approval.

Ms. Suma B. P bearing USN **1DA16CV123** has taken change of college from Govt., Engineering College, Kushalanagara to Dr. AIT in the year 2017-18. She falls 2 credits shortage to complete required 200 credits. Internal BOS committee proposed a project based course (CVPM78 – Minor project) for 2 credits to fulfill this and she completed the course in the academic year 2019-20.

Ms. Veena T A bearing USN **1DA15CV129** has taken change of college from Govt., Engineering College, Raichur to Dr. AIT in the year 2017-18. She falls 0.5 credits shortage to complete required 200 credits. Internal BOS committee proposed a seminar course (subject code yet to finalize) for 0.5 credits to fulfill this.

In this regard the BOS approval is required for the above students. Hence I request you all to go through the matter and give the approval.

Thanking you

Yours sincerely

 14/8/2020

Professor and Head
Department of civil Engineering
(Arnbedkar Institute of Technology)
Bangalore - 560 056.

**Dr. Ambedkar Institute of Technology
Department of Civil Engineering**

17/08/2020

Minutes of the Board of Studies (BOS) Meeting.

The online Board of Studies (BOS) meeting was held on 17-08-2020 at 11.00AM through Google Meet platform under the chairmanship of Dr. S Vijaya, Professor and Head of the Department, Department of Civil Engineering, Dr.Ambedkar Institute of Technology, Bengaluru - 56. The Chairman welcomed all committee members to the meeting. As per the meeting agenda the Chairman presented the scheme and syllabus of both UG & PG for the academic year 2020-21 for the approval and approval for the students (taken change from other VTU colleges) facing shortage of credits to fulfill the requirement to award the degree as per Autonomous norms.

The following members were present during the online meeting.

1. Dr. S. Vijaya, Professor & Head, Dr. AIT, Bengaluru
2. Dr. J. M Chandrakishan, Professor, IISc, Bengaluru
3. Dr. Renukadevi, Professor and Dean, RVCE, Bengaluru
4. Dr. Ramaraj, Professor & Head, DSCE, Bengaluru
5. Dr. H C Muddaraju, Asst professor, UVCE, Bengaluru
6. Dr. Raghunathan M. D, Scientist-E, SERC, Tower Testing Research Centre, Chennai
7. Sri. Chinnasomaiah, Chief Engineer (Civil), KPC, Bengaluru
8. Mrs. Nagashree, M.Tech, (Ph.D), Asst Professor, MSRIT, Bengaluru
9. Er. Amit Singh, Invitee Member, Professor & Head, IET, Ayodhya.
10. Dr. S. G. Ramachandraiah, Professor, CED, Dr. AIT, Bengaluru
11. Dr. S. D. Venkataraj Mohan, Professor, CED, Dr. AIT, Bengaluru
12. Dr. Chandrasekar, Associate Professor, CED, Dr. AIT, Bengaluru
13. Mr. S. B. Ankesh, Asst., Professor, CED, Dr. AIT, Bengaluru
14. Mr. Shreyas K, Asst., Professor, CED, Dr. AIT, Bengaluru
15. Mr. M. Naveen Kumar, Asst., Professor, CED, Dr. AIT, Bengaluru
16. Mr. M. K. Darshan, Asst., Professor, CED, Dr. AIT, Bengaluru
17. Mrs. Kavya H. K, Asst., Professor, CED, Dr. AIT, Bengaluru

The following 2 Members have sent the mail with their feedback and suggestions.

1. Dr. Krishnaiah A. J, VTU Nominee, Professor & Head, MCE, Hassan
2. Dr. L. R. Manjunatha, Chairman, ICI, Bengaluru Centre.



The meeting started with condolence for the misfortune demise of our beloved Professor Dr. B. Shivakumaraswamy, Professor & Dean, Department of Civil Engineering, Dr. AIT.

The chairman presented Power Point Presentation (PPT) with following contents:

1. Scheme and syllabus of UG
2. Scheme and syllabus of PG and
3. Compensating Credit for students taken transfer from other colleges.

1. Scheme and syllabus of UG

The meeting started by revised contents in I and II year UG syllabus for the approval and with a detailed discussion the board given approval for the same.

Further, there was a detailed discussion regarding the proposed scheme and syllabus for III year UG (IV and V semester) for the academic year 2020-21, which has been mailed in advance to all members and a detailed review took place in the meeting as follows:

- Sri. Chinnasomaiah, Chief Engineer (Civil), KPC, Bengaluru suggested to conduct the Extensive Survey project (CVP68) **for a minimum period of two weeks** and it was supported by Dr. J M Chandrakishen, Professor, IISc, Bangalore further Chairman conveyed to the committee that with in the college policy limitations it may be considered.
- Dr. J M Chandrakishen, Professor, IISc, Bengaluru discussed about the way of learning of the blended learning portions. Chairman elaborated the way of learning of the said portion to the committee and the members accepted it for implementation.
- Dr. Ramaraju, Professor & Head, DSCE, Bengaluru advised to make paper publication should be compulsory for VIII semester BE students. The Chairman conveyed that it is already in the system and it may be made it compulsory for the coming batches.

2. Scheme and syllabus of PG

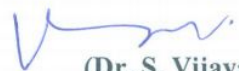
- Dr. Renukadevi, Professor and Dean, RVCE, Bengaluru and Dr. J M Chandrakishan, Professor, IISc questioned the necessity of Project Phase I, in II semester and the Chairman clarified by giving practical necessity in the system for the PG project evaluation.
- Mrs. Nagashree, M.Tech, (Ph.D), Asst Professor, MSRIT, Bengaluru has suggested to make Design of Plates and Shells as a core subject. The Chairman considered the suggestion for implementation in the future.

3. Compensating Credit for the students taken transfer from other colleges

- Sri. Chinnasomaiah, Chief Engineer (Civil), KPC, Bengaluru suggested to manage the credits by NTPL or SWAYAM courses and Dr. J M Chandrakishan, Professor, IISc discussed about the limitations and impact of credits allotment in NTPL or SWAYAM courses. The Chairman conveyed to the committee about the limitations in the Autonomous examination system and the committee accepted for the same.

By the end of the meeting the committee approved the I and II year UG syllabus (with minor modification done) and proposed III year syllabus for the implementation in the academic year 2020-21 and also for the method applied for compensating the credits for the students taken transfer from other college.

The Chairman concluded the meeting by extending the vote of thanks to all committee members with due respect.


(Dr. S. Vijaya)

Chairman, BOS,

Prof. and Head, Dept. of Civil Engineering

Dr.AIT, Bangalore-560056

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Dr. Ambedkar Institute of Technology, Bengaluru - 560056

Department of Civil Engineering,

Minutes of Board of Studies meeting (online) held on Friday, 26.11.2021 at 11.00 am to discuss the scheme and syllabus of 1st year UG courses as per NEP 2020 for the academic year 2021-22.

Members Present

Category	Name of Person
Chairman	Dr. S Vijaya, Professor and HOD, CED, Dr. AIT, Bengaluru.
External Subject Experts	1. Dr. J M Chandrakishen, Professor, IISc, Bengaluru. 2. Dr. M C Nataraj, Professor and Head, CED, MSRIT, Bengaluru. 3. Dr. Anjaneyappa, Professor, CED, RVCE, Bengaluru. 4. Dr. Maheshprabhu, Professor, CED, GEC, Ramanagar.
VTU Nominee	Dr. Balakrishna, VTU Nominee, Professor & Head, CED, BIT, Bengaluru.
Industry Representative	1. Sri. Nagesh Puttaswamy, Zonal Head, WT & RMDT, Ultra Tech Cement Ltd. Bengaluru. 2. Dr. M S Sudarshan, Director, Strendant Testing & Proof Checking, Bengaluru. 3. Sri. H R Girish, CEO & MD, Girish Ventures, Strategic Consultants in Construction & Infrastructure Sector – India and Middle East, Bengaluru.
Alumni with P G Degree	Mr. Bhyravraj B, M.Tech, SSS Consultant, Nagarabhavi, Bengaluru.
Internal Faculty Members with various specialization (UG + PG).	Dr. C Nanjundaswamy, Professor, CED, Dr.AIT, Bengaluru Dr. S D Venkataraja Mohan, Professor, CED, Dr.AIT, Bengaluru Dr. S S Honnanagouder, Profesor, CED, Dr.AIT, Bengaluru Dr. Chandrasekar, Associate Professor, CED, Dr.AIT, Bengaluru. Dr. M N Hegde, Adjunct Faculty, CED, Dr.AIT, Bengaluru (PG) Mr. S B Ankesh, Asst Professor, CED, Dr.AIT, Bengaluru Mr. M K Darshan, Asst. Professor, CED, Dr.AIT, Bengaluru Mrs. Purnima K Biranagi, Asst Professor, CED, Dr.AIT, Bengaluru Mrs. Supritha R M, Asst. Professor, CED, Dr.AIT, Bengaluru Mr. Shreyas K, Asst Professor, CED, Dr.AIT, Bengaluru Mr. M Naveen Kumar, Asst Professor, CED, Dr.AIT, Bengaluru
Department Academic Program committee	Dr. S Vijaya, Professor and Head Dr. C Najundaswamy, Professor Dr. S D Venkataraja Mohan, Professor Dr. Chandrasekar, Associate Professor Dr. S Honnanagoudar, Professor

<p>Mr. S B Ankesh, Assistant Professor Mr. M K Darshan, Assistant Professor Mrs. Purnima K Biranagi, Assistant Professor Mrs. Sowmya M, Assistant Professor Mrs. Supriya R M, Assistant Professor Ms. Sphoorthy S M, Assistant Professor Ms. Mary Bhagya Jyothi J, Assistant Professor Mr. Shreyas K, Assistant Professor Mr. Naveen Kumar M, Assistant Professor Mr. Sharath B, Assistant Professor Mr. Ashwin C A, Assistant Professor Dr. Rakesh C, Assistant Professor Ms. Sneha S D, Assistant Professor Mrs. Rajeshwari B, Assistant Professor Mrs. Madhu K S, Assistant Professor Mr. Tilak T N, Assistant Professor Mrs. Tejaswini B R, Assistant Professor Prof. B S Suresh Chandra, Adjunct Faculty Dr. R Madhusudhan, Adjunct Faculty Dr. H R Srinivas, Adjunct Faculty Dr. K V Manjunath, Adjunct Faculty Dr. M N Hegde, Adjunct Faculty Prof. G P Manjunath, Adjunct Faculty</p>

The online meeting was held on 26-11-2021 at 11.00AM through Google Meet platform under the chairmanship of Dr. S Vijaya, Professor and HOD, Department of Civil Engineering, Dr.AIT, Bengaluru - 56.


The Chairman welcomed all the members of BoS and faculty of the department to the meeting and presented the scheme and syllabus of 1st year UG courses as per NEP 2020 for the academic year 2021-22 for approval.

The meeting proceeded with PPT presentation and members have offered suggestions as under.

- **Dr. M C Nataraj**, suggested that assignment has to be given more importance in evaluation procedure and it should be out of text books. And this suggestion has been endorsed by **Dr. Chandrakishen**. Other members suggested to reduce the content of dynamics and asked to justify the title of the Civil Engineering and mechanics subject.
- **Dr. M C Nataraj**, also suggested to check how many CO's can be given. If number of CO's is equal for all the subjects then it would be easy to map. And verify the words of CO's.
- **Dr. M C Nataraj**, suggested to justify the role of the teacher in Unit 5 (Blended learning). He mentioned that tutorials and lecture hours should be clearly mentioned and to relook into it.
- **Dr. Chandrakishen** suggested that, in Unit 4 teaching hours is only of 10hrs but this unit has to be given more importance, hence it is better to reduce the number of teaching hours in Unit 1 and 2 and can increase the number of teaching hours for unit 4.

- **Dr. Anjaneyappa**, suggested to replace the word 'determine' in CO's and asked to modify CO2.
- **Dr. Sudarshan**, suggested that more importance should be given to Elements of Civil Engineering part than mechanics part.
- **Dr. Nataraj**, mentioned that first unit is of basic civil engineering but remaining is all about mechanics. So it has to be verified.
- **Mr. Girish H R**, suggested to give more importance on practical applications of Rural Development course (1st year Ability Enhancement Course). He also suggested that there should be 50 marks guaranteed questions in Rural Development, so that students will learn inevitably. Also suggested to include hygienic and sustainability part.
- **Dr Anjeneyappa**, suggested if possible adding solar panels in energy contents. Remove the word 'technique' and 'modern', in unit 4. Content has to be reduced as the course is for 1 credit. Site visit can be carried out instead of videos and ppts.
- **Dr. Balakrishna**, also suggested to look into the content of Rural Development course, as it seems to be more for one credit.

The HOD has informed the members that, their suggestions will be considered wherever possible and thanked all the external and internal BoS members for their kind suggestions and discussion and the meeting was concluded.



(Dr. S. Vijaya)

Chairman, BOS,

Prof. and Head, Dept. of Civil Engineering

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