

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
DEPARTMENT OF CIVIL ENGINEERING
MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 06.06.2022

Lr. No. VCE/CED/A08/2021-22/473

Date: 07.06.2022

Members Present:

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| 1 Dr. B.Sridhar | Professor, Department of Civil Engineering, VCE |
| 2 Dr. M. Kumar | Principal, College of engineering, Osmania University, Hyderabad |
| 3 Prof. M.A. Prasad | Professor and Head, Department of Civil Engineering, OU College of Engg. |
| 4 Dr. T. Shashidhar | Professor, Department of Civil Engg., IIT Hyderabad |
| 5 Dr. Anasua Guharay | Assistant Professor, Department of Civil engineering, BITS, Hyderabad |
| 6 Er. P. Suryaprakash | CEO, M/s. Satyavani Projects, Hyderabad |
| 7 Dr. M.V. Rama Rao | Professor, Department of Civil Engineering, VCE |
| 8 Dr. T. Srinivas | Associate Professor, Department of Civil Engineering, VCE |
| 9 Dr. C. Mohanlal | Associate Professor, Department of Civil Engineering, VCE |
| 10 Sri. S. Vijaya Kumar | Associate Professor, Department of Civil Engineering, VCE |
| 11 Dr.M.V.S.S. Sastri | Associate Professor, Department of Civil Engineering, VCE |
| 12 Dr. K.Jayasree | Assistant Professor, Department of Civil Engineering, VCE |
| 13 Mrs. P.Dhatri | Assistant Professor, Department of Civil Engineering, VCE |
| 14 Mr. S. Kesav Kumar | Assistant Professor, Department of Civil Engineering, VCE |
| 15 Mr. J. Chaitanya | Assistant Professor, Department of Civil Engineering, VCE |
| 17 Mrs. Krati Sharma | Assistant Professor, Department of Civil Engineering, VCE |

At the outset, the Chairman of BOS& HOD welcomed the members for attending the Board of Studies Meeting. The Chairman further expressed special thanks to all the members for sparing the time from their busy schedule to attend the meeting. After that the agenda items were taken up and the board decided/ recommended as under:

1. The vision, mission, PEOs and PSOs of the Civil Engineering department were reviewed. The board has approved the existing vision, mission, PEOs and PSOs.
2. Dr. T. Shashidhar suggested to include acts on consumerism, women and child protection act and biodiversity act in Environmental science course. Dr. M.Kumar suggested to modify syllabus of Environmental Science course and improve it to higher level based on practical applications. Dr. T. Shashidhar suggested to combine ecosystem and biodiversity topics. He also suggested to include various types of ecosystems like terrestrial , forest etc in the course. Dr.Shashidhar informed that he will send the modified syllabus that is required for the course as there are lot of contents that require modification.
3. Dr. Anasua Guharay suggested to modify course outcomes of Soil mechanics course .

4. Dr. M. Kumar suggested to introduce Autocad in Drawing subjects . All experts have suggested it as a need of the hour to make drawing through Autocad. They said that all institutions including premier institutions have adopted Autocad based learning process. Prof. M.A. Prasad suggested to keep one unit of manual drawing and remaining units on Autocad. Dr.Shashidhar suggested that there are drawing papers with horizontal and vertical lines and they can be used during lecture hours. And during practical hours, Autocad based drawing may be adopted. Dr.M. Kumar suggested to conduct two days workshop at the beginning of the semester for the faculty to have preparedness to handle Autocad based drawing. Dr.Kumar suggested to modify the syllabus of Drawing subjects if it is decided to make Autocad based drawing.
5. Prof. M.A. Prasad informed that syllabus can be framed beyond AICTE curriculum. He suggested to include GATE and IES syllabus in the curriculum
6. Dr.Shashidhar and Dr.Prasad suggested to include atleast one session on Geology lab other than the lecture hours to have practical demonstration of the experiments
7. Dr.M.Kumar suggested to modify the latest references in all the courses
8. Dr.M.Kumar and Prof. Prasad suggested to remove concrete and reinforcing steel in Building materials and construction course as they can be covered in concrete technology course.
9. Prof Prasad suggested to offer Green buildings as a separate course to Civil engineering students.
10. Dr. Shashidhar has suggested to view a course on "Eco system based disaster risk reduction (Eco DRR)" developed by experts from the United Nations Environment Programme (UNEP) and the Partnership of Environment and Disaster Risk Reduction (PEDDR) for modifying the syllabus of Disaster Management course.
11. Prof Prasad and Dr. Shashidhar suggested to make all the course outcomes very crisp and short.
12. Dr. Shashidhar has suggested to check the experiments in Chemistry laboratory and if there is repetition of any experiments like alkalinity, turbidity etc in Environmental engineering laboratory, they can be removed and replaced with some new experiments. He suggested to add experiments on calorific value for anaerobic digestion , dual medium filter and sludge volume index in Environmental engineering lab.
13. Prof Prasad suggested to modify the syllabus of Modelling and analysis of uncertainty as the titles and syllabus are not matching
14. Dr.M.Kumar suggested to include introductory concepts of pavement evaluation in Highway engineering course

15. Dr. Anasuya suggested to add Unconfined compression test experiment in Soil mechanics laboratory. She suggested to merge specific gravity experiments using pycnometer and density bottle.
16. Dr.M. Kumar suggested to add a reference book on Traffic engineering by Roess Prassas Mcshane in Highway engineering course and mention it as a freely downloadable in learning resources.
17. Dr. Shashidhar suggested to include Upflow Anaerobic Sludge Blanket (UASB) and sequential batch reactor (SBR) technologies in Environmental engineering course. He suggested to move Sludge Management topic from Unit V to Unit IV. He further suggested to check common topics in Hydrology and Environmental engineering courses and reframe the syllabus accordingly.
18. Dr. Anasuya suggested to include gravity retaining wall design concepts before concepts of sheet piles are introduced in Foundation engineering course. She also suggested to include plate load test of soils in the syllabus as lot of GATE questions are asked in plate load test. She suggested to remove introduction to graphical solution topic and asked to introduce topic on introduction to Pier and well foundation.
19. Dr.M.Kumar suggested to move Job mix formula by Rothfuch method experiment from Tests on aggregates and include it in as a demonstration experiment in Transportation engineering laboratory. He also suggested to add ASTM D 6927-15 in Marshall stability experiment. He further suggested to rename Transportation engineering lab to Highway engineering lab.
20. Prof. Prasad suggested to introduce B_EST software in Estimations and Specifications course
21. Dr. M.Kumar suggested to include topics one-tendering , e-procurement , GEM (Government e Market) procurement in Estimations and Specifications course
22. Dr. Anasuya suggested to introduce reinforced retaining wall design in Unit V of Ground Improvement course.
23. Er. Surya Prakash suggested to add SSR, CPWD, MES, Railways topics to expose students to various methods of rate analysis in Estimations and Specifications course. He said that this would cover taxation part also.
24. Dr.M.Kumar has offered to give a lecture on "Impact of metrocities in India"
25. Dr.M.Kumar suggested to add recent edition of Saxena text book in Railway and Airport engineering course and make it as a first reference. He also suggested to add references based on ratings from the web resources.
26. Dr.M.Kumar suggested to add a reference book on "Introduction to operations research" by Hillier and Gerald J. Lieberman in Optimisation Techniques course. He also suggested to add linear programming topic in Unit I. He said that the entire syllabus needs modification suitable to UG students. Dr. M.Kumar said he will send the copy of the syllabus to be adopted for UG students. He further suggested another reference book on "Operations Research" by Panneer selvam for this course.

27. Dr.M.Kumar suggested to modify Advanced Transportation Engineering syllabus and include Transit Oriented Development as one unit. He suggested to include topics related to Advanced transportation and remove topics on Transportation systems management and Pavements. Dr. B. Sridhar has informed the syllabus has been modified in consultation with Prof. V. Vinayaka Ram, BITS, Hyderabad by including all specialization as one unit in Advanced Transportation Engineering Course.
28. Dr.Anasuya suggested to rename Effective stress under one dimensional flow to Two dimensional flow analysis and rearrange certain topics on two dimensional flow analysis (ie. Seepage force, downward flow etc) to one dimensional flow in Unit II.
29. Members authorised Chairman BOS to sign on behalf of the members in the syllabus books.



CHAIRMAN
BOARD OF STUDIES