

## **K L (Deemed to be University)**

### **Department of Civil Engineering**

#### **Minutes of BoS Meeting held on 28-06-2018 at HoD-CE Chamber**

The following points have been suggested/discussed in BoS Meeting by the committee **and the same has been approved by BoS committee.**

1. Dr G.Appa rao appreciated that overall structure of the B.Tech is Good and suggested to cover the basic concepts in professional core courses and anything is required to cover extra, it is to be covered in the form of professional electives. Ensure that there is no repetition in the content
2. Dr Prasada rao advised that we need not to meticulously follow the structure & syllabus suggested by AICTE. We can take it as a guideline only
3. Er.M.H.Reddy expressed to give more weightage for transportation engineering domain also as lot of works related to transportation are going on in CRDA region and there is a shortage of Civil engineers having adequate knowledge in Transportation Engineering. Engineers working for transportation projects in CRDA region are missing several important concepts related to soil stabilization, and machinery used in Transportation. He also suggested incorporating Ground treatment and improvement techniques in Engineering Geology also. Also make students to be strong in pavement materials and other construction materials. Incorporate all innovative materials being used in construction in the syllabus.
4. Dr.G.Apparo also suggested to incorporate all the building & Construction materials that are being used in the syllabus.
5. Mr.K.Hemantharaja expressed that students should be conversant with MX-Roads software.
6. Er.M.H.Reddy suggested to incorporate bituminous mix design in Highway Engineering , Mr.K. Hemantharaja replied that it is already incorporated in the syllabus
7. Dr.G.Apparo suggested that this highway engineering course should be completed in third year itself
8. Er.M.Sreenivasa Swamy Naidu enquired about softwares being offered by the department to the students . Mr.K.Hemantharaja replied that department is offering Auto-CAD, Staad-Pro, STRUDS, MIDAS, Arc-GIS, Primavera and E-tabs.

9. Er.M.Sreenivasa Swamy Naidu enquired about softwares for Sewerage & Strom water pipelines and for water distribution. Mr.K.Hemantharaja replied that department is not having any software for water distribution, Sewerage & Strom water pipelines.
10. Er M H Reddy suggested to incorporate testing of pavement materials ,pavement design and evaluation in the syllabus of transportation engineering course.
11. Dr.G.Apparo and Dr Prasada rao suggested to keep design of steel structures as compulsory course and bring it under professional core courses and show advanced structural analysis as professional elective and make it compulsory. They also suggested to float one professional core course or professional elective in the name of advanced structural analysis and design. In that both steel and R.C.C related to be incorporated. Topics not covered in design of R C C structures and design of steel structures to put in advanced structural analysis and design
12. Dr.G.Apparo suggested to ensure that no repetition of syllabus is taking place and maintain continuity of the course. He also suggested to have two courses for surveying with an LTP structure of 2-0-2=3 credits as surveying –I, 2-0-2=3 as surveying-II preferably.
13. Dr.G.Apparo expressed that credits allotted for project (2+8) are not sufficient. He also suggested to introduce one comprehensive course that covers review of all core courses at the end of third year with LTP structure of 1-0-0
14. Dr.G.Apparo enquired whether any course is being floated covering elements of electrical and mechanical engineering. BOS chairman Dr P Polu Raju replied that introduction to engineering is being offered and it is covering few topics related to electrical and mechanical. Also suggested to conduct surprise tests to assess the knowledge of the students relevant to important IS –codes.
15. Dr.G.Apparo suggested to have two standard text books to be prescribed for every course, out of two textbooks one should be of international level text book
16. Er M H Reddy suggested to incorporate few courses that cover communication skills required for civil engineers in construction industry.
17. Mr.K.Hemantharaja and Dr K Rajasekhara Reddy replied that the proposed structure is comprising of courses related to communication skills.
18. Dr.G.Apparo suggested to include topics related to arbitration in project estimation and contract course. If faculty are not ready to teach arbitration, we can invite experts from industry to deliver guest lectures on arbitration

19. Er M H Reddy suggested to arrange at least ten lectures by senior engineers from construction industry on different topics and make this course as credited course with a weightage of one credit, various topics that can be covered are water proofing ,retrofitting, concrete mix design ,pavement mix design, valuations etc. Students need to be asked questions orally on various topics covered and their performance to be evaluated.
20. Er.M.Sreenivasa swamy Naidu suggested to have seminars delivered by the students at the end of the course on topics of students interest .
21. Dr Prasada rao suggested to have student seminars at 4-1 level
22. Dr.G.Apparo suggested that every class teacher should try to inspire the students and imbibe good things into the teaching learning process. Use scanned images and LCD so that more content can be covered in less time there by it saves time.Teachers should be concerned about the students.
23. Dr.G.Apparo suggested the faculty to apply for funding projects utilizing the experts as principal investigator from other institutions while applying for sponsor ship projects.
24. Dr.G.Apparo suggested to include advanced concrete technology as elective in place of masonry structures, also add relevant IS codes in the concerned courses.
25. .G.Apparo suggested to include pre fabricated structures as elective and one of the chapter should be of pre engineered structures.
26. Dr.G.Apparo suggested the following changes in the syllabus.
  - a) Surveying –topics related to GIS and DGPS are to be incorporate.
  - b) Structural analysis-book written by Hibler as reference book and C S Reddy a text book.
  - c) Construction materials-to incorporate all new materials, manufactured sand and pozzolona materials also.
  - d) Include the topics related to shear wall technology in any appropriate course.
  - e) Include topics related to fire design in advanced structural design
  - f) Transportation engineering – add new pavement materials and codal provisions.
  - g) R C C – use it as RC only i.e reinforced concrete
  - h) Incorporate bill of quantity (BOQ) and schedule of rates(SOR) in the syllabus of quantity survey and estimation, and get the topics delivered by local working civil engineers
  - i) Structural analysis - book written by Devadas Menon to put under reference
  - j) Bridge engineering – new book written by Chin has to be added

- k) Soil Mechanics – Soil Mechanics by Punmia, Soil Mechanics by Das and Soil Mechanics by Murthy to include in reference.
  - l) Geo technical Engineering – title to be changed as Sub structures design.
  - m) Environmental Engineering – Central Pollution Control Board norms , distribution of air pollutants, treatment and recovery and recycling of solid waste to include.
  - n) Urban water hydrology - to include preservation of old water bodies as one chapter.
  - o) Design of hydraulic structures – course title to be changed as Design of hydraulics and irrigation structures.
  - p) Urban transport systems – include Metro rail as one topic in syllabus.
  - q) identification of structural elements technical skill course – change the name as Exploration of structural elements
27. Dr.G.Apparo pointed out that standard format is not followed while prescribing text books and reference books, name of the author should come first followed by title, edition, year of publication, details of publishers. Uniformity to be maintained.

**M.Tech structural Engineering:**

28. Dr.G.Apparo suggested the following changes
- a) Tall structures-add designs for fire control and NBC provisions in the syllabus
  - b) Offer Prefabricated structures as elective
  - c) In M Tech projects have one lab of structural; engineering comprising of two credits
  - d) For better evaluation of projects it is to be evaluated for 10 credits at the end of first semester and remaining credits at the end of second semester.
  - e) Advanced structural Design----- wind related topics to be included
  - f) Prefabricated structures-this can be offered as common course to both M.Tech structural engineering and M.Tech construction technology and management
  - g) Structural health monitoring-can be made common course for both M.Tech structural engineering and M.Tech construction technology and management.
  - h) Advanced structural analysis- can be made common course for both M.Tech structural engineering and M.Tech construction technology and management.
  - i) Mass Transportation- can be made common course for both M.Tech structural engineering and M.Tech construction technology and management.

- j) Formwork for construction structures- can be made common course for both M.Tech structural engineering and M.Tech construction technology and management.

**M Tech Geo- informatics:**

29. Er.M.Sreenivasa swamy Naidu suggested that any of the laboratory mapping of water bodies to be included as one of the experiment.
30. Mapping of resources environment and pollution to be included as one of the elective
31. Alumni Mr D Naveen Kumar suggested that building management systems to be included as one subject to both M.Tech structural engineering and M.Tech construction technology and management.
32. Alumni Mr Prabhu Teja suggested the following points
- a) Estimation and costing – preparation of estimation as per state government and SSR to be included as one of the topic
  - b) Preparation of daily project report or any technical report or review paper to be included at B Tech level
  - c) In surveying course DGPS to be added as one the topic
  - d) Building planning and drawing-introduction to architectural drawing and vastu to be included
  - e) Transportation Engineering-add tube transportation as one of topic
  - f) Design for fire resistance and Blast resistance in the relevant M.Tech structural engineering course.
  - g) B Tech and MTech projects-make students to focus on major ongoing projects and case studies
  - h) Add water audit as a small project in water resources engineering
33. Recommendations from DAC are approved As per Annexure
34. Chairman of the BoS informed the members present about the Department Academic Committee (DAC) meeting held on 27 th October 2017 and highlighted the major resolutions of discussion as brought to the notice of the DAC by the student members and the board unanimously resolved to approve the recommendations made by the DAC.(Annexure-1: DAC minutes dt:27-10-2017)

35. Chairman of the BoS informed the members present about the Department Academic Committee (DAC) meeting held on 16 th March 2018 and highlighted the major resolutions of discussion as brought to the notice of the DAC by the student members and the board unanimously resolved to approve the recommendations made by the DAC.(Annexure-1: DAC minutes dt:16-03-2018)