



Department of M & H

Minutes of BOS meeting 2013

CBIT : Effective from the Academic year : 2013 - 2014

Date : 28/09/2013

Time : 12:00 NOON

Venue : ICS LAB, K-Block, II-Floor

Agenda

- 1) To approve the structure of the UG Engineering Curriculum Pertaining to Mathematics.
- 2) To approve the syllabi for the first year courses (Common to all Branches except chemical Engineering and Bio-Technology)
- 3) To approve the syllabi for the first year courses of Chemical Engineering and Bio-Technology
- 4) To approve the evaluation pattern (Percentage of Marks : Internal and External)
- 5) To approve the number of Lectures and Tutorials per week
- 6) To approve the list of Question Paper setters and examiners.
- 7) Suggestions (B) Proposal to Separate the departments (Maths & English)

Members :

1.) Chairman :

Sri. K. Rama Rao

Associate Professor and Head

Dept of Mathematics & Humanities

CBIT, Gandipet, Hyd

2) University Nominee :

Dr. S. Ramesh

Assistant Professor in Mathematics

Indian Institute Technology, Hyd

3) Subject Experts :

i) Dr. L. Anand Babu

Professor in Mathematics

CVR College of Engineering, Ghatkesar, R.R.Dut, A.P

GA 28/9/2013

ii) Dr. Govardham

Associate Professor

Dept of Mathematics, O.U, Hyd

28.9.2013

Industrial Representative :

Dr. B. Srivastava

Senior Scientist - F (DMRL)

Defence Metallurgical Research Laboratories, Chandrayan Gutta, Hyd.

B. Srivastava

Meritorious Alumnus :

Members :

1. Dr. M. Ganeshwar Rao

Associate Professor, Dept of Mathematics, CRIT

M. Ganeshwar Rao 28/9/13

2) Dr. Swatnamaram,

Assistant Professor, Dept of Mathematics, CRIT

Swatnamaram 28/9/13

Co-opt Members :

1) Dr. P. Raj Reddy

P. Raj Reddy

2. Dr. Narasimlu

Narasimlu 28/9/13

3. Mr. B.R. Sreedhar

B.R. Sreedhar

4. Mr. P. Suresh

P. Suresh

5) Dr. G. Deepa

G. Deepa

Proceedings : (In accordance with the sequence of items in the agenda)

Before the commencement of the meeting all the members of the BOS expressed their displeasure and frustration for not been given enough time to do the Prerequisite, exercise which is critical to make them prepare for a well thought-out subject matter and to implement effectively the changes to be done in the revised syllabus.

Some of the members have stated that they have not yet received the letters of their appointment as members of BOS.

When contacted on phone one of the members (V.C nominee) has annoyed for not being informed with adequate time and categorically denied to accept the appointment, since the revision of syllabus require combined effort, cooperation and assurance from the autonomous institution and the meeting of the BOS cannot be convened just a day before the commencement of the classes and to be a part of such a meeting is ridiculous and weird. Because, it reflects the lack of seriousness and commitment.

1) The members have really wondered how the teachers can complete the syllabus which is basically prepared and designed for 32 weeks in the year wise scheme and asking them to complete in 16 weeks of a semester. when the number of weeks is reduced by 50% logically speaking they require 6 hours per week to complete the syllabus and now assigning only 4 hours per week is outrageous and how is it justified? In fact the number of classes per week must be assigned after the BOS meeting is held, particularly when the college is attaining the autonomous status which demands a through exercise from the members of the BOS at least for the first year.

In view of the fact that the quantity of the Syllabus being the same in both Semester and year wise scheme it is advised to increase the present class work of (3 lectures + 1 tutorial) to (4 lectures + 1 tutorial) so that both teachers and the students will have just reasonable time to practically complete the syllabus. If 5 hours per week is allotted to the subject ~~with~~ then obviously or rather perceptibly the expected end result or performance from the student's side would also be praiseworthy, admirable and laudable.

Now the proposed increase of 4L+1T has been suggested by the BOS members as in the best interest of the college, the teachers in general and the students in particular; In the autonomous status the college should focus upon the standards to scale up and not to scale down and the teachers should not be blamed for the end result when they are not given sufficient time. The recommendation of at least 4L+1T was made keeping in view the tenure of each semester of 16 weeks.

Moreover, the subject matter or rather the contents of the syllabus cannot be reduced since the recommended topics are the basic inputs where the students are supposed to master upon. Therefore, by reducing the course outline or pay no attention to some of its vital topics would lead us to commit gross injustice to the student fraternity.

The members of the BOS have approved the common syllabus of Mathematics - I and Mathematics - II for all the branches of B.E for the first and second semesters except for some minor changes in the topics of some units in both the papers.

The Board has approved the Structure, Syllabi (The corrected version) for the two Semesters of B.E., B.Tech (Chemical) B.Tech (Bio-Tech) Curriculum.

Evaluation pattern (distribution of marks: Internal & External) approve the number of lectures and Tutorials per week.

Approved the text books and the list of Question paper sets and examiners.

The detailed Syllabi, Question paper patterns, structure and eligibility conditions approved by the board and recommended to place it before the Academic Council.

1. DR. B. SRIVATHSA

Bhilla
28.9.13

2. DR. C. GOVERDHAN

[Signature]
28.9.2013

3. Prof. L. Anand Baln

CA [Signature]
28/9/2013

The recommended changes in the topics by the BOS members in various units have been identified and in the corrected version they have been incorporated.

(Enclosed a copy of the corrected version of M-1 & M-2 for all Branches of B.E I-year.)

- 2) In case of B.Tech Chemical engineering the members of BOS are of the opinion that the syllabus which is recommended for all Branches of B.E can as well be implemented for Chemical Engineering.

Since, comparing the syllabi of both B.E & B.Tech it is observed that there is no significant or noteworthy difference in the syllabi, except for one unit in M-1 and two units in M-2. Therefore it is advised to maintain, retain and continue with the same syllabus which is recommended for B.E. The small variations in the syllabus which were identified can be integrated and incorporated from the second year onwards.

Furthermore this will also reduce the burden on the confidential section of Examination Branch in getting two more additional question papers (which sum up to 4-sets of question papers). Thus, it saves time, money and energy.

The BOS has no objection if the Academic Council of the college wishes to have a different syllabus for Mathematics -1 and Mathematics -2 for Chemical Engineering. This issue may be left to the discretion of the Academic Council and the concerned Mathematics and Chemical engineering departments.

The Separate Syllabus of M-1 and M-2 for

B.Tech Chemical engineering was placed before the Bos it has also been approved with some minor changes. (Enclosed a copy of the charged / corrected version of M-1 and M-2 of B.Tech I year Chemical Engineering)

3) Syllabus of Bio-Technology:

The proposed Syllabus for Mathematics-1 and Mathematics-2 for B.Tech - Bio-Technology was placed before the members of Bos. It has been approved again with very minor changes. The syllabus approved is exclusively meant for the students who join the Bio-Tech course with B.P.C back ground. (A copy of M-1 and M-2 is enclosed)

4) The Bos has advised to implement 4 lectures + 1 Tutorial instead of (3 lectures + 1 Tutorial) per week. The reason for this was discussed with the first item in the agenda mentioned above.

5) The list of Question paper Setters and examiners for valuation will be communicated to the chairman Bos as and when it is required.

6) The division or percentage of marks in the Subject can be constrained to the same pattern and may go along with the model of the Affiliated University.

7) Suggestions to improve the methodology of teaching Mathematics (Number of Mathematics papers throughout the four year course of UG program)

The following are the noteworthy suggestions which must

be put in to practice for further improvement and to enhance student ability, aptitude and capability.

- A) All the constituted members of BOS unanimously voiced their concern, recommended or rather insisted upon the faculty of Mathematics expose the all the students of first year to any one of the available Mathematical software like Mathematica, Maple, Mat-lab, COMSOL and put them in to practice atleast for 1-hour in a week. For the purpose of practice the 1 hour of the tutorial class can be utilized provided if SKTIT is implemented otherwise it is impractical and unrealistic.
- B) Alternatively establish a Mathematics lab with 60 systems with power backup and this lab must be made compulsory for all Branches of First year. The department of Mathematics must be made mandatory atleast in the next review or syllabus revision meeting of BOS.
- C) All the members of BOS has expressed that the number of papers in mathematics which is as of now is restricted to four may be increased to a minimum of five papers for all UG engineering programs and the papers such as Discrete Mathematics, Discrete Structures, Quantitative Techniques, Linear Algebra etc must be transferred and reallocate them to the mathematics faculty. Because, these subjects are fundamentally and vitally deals with mathematical orientation.
- D) At least one paper on applicable Mathematics such as

Tensor Analysis, Calculus of Variation, integral transforms etc in advanced Engineering Mathematics (most befitting to the respective branches) may be introduced as an elective at the PG level for all Branches so that the students who wish to pursue research after finishing their masters would certainly be of immense use and an added advantage.

E) An advanced Engineering Mathematics (with appropriate branch wise applications) can be introduced to the students as an elective subject in the final year.

F) All the members of Bas look forward and expect that meetings of this kind should take place periodically and for the one likely to be held in the future they may be informed at least one month in advance so that whatever is suggested, advocated and hinted at by the Bas members will be implemented effectively and the meeting must be convened sufficiently in advance and definitely not at the eleventh hour or just one day before the when class work is likely to commence. Because it reflects sincerity and commitment towards the stakeholders. In implementing the proposed, necessary and inevitable changes recommended by the members of Bas.

G) Due importance and weightage must be given to all the subjects particularly in the first year wherein they are exposed to the mandatory pre requisite and indispensable subject like Mathematics a thorough knowledge of which result in producing exemplary engineers.

H) Note to be submitted for separation of in departments by 400.

Conclusions :

- 1) The board approved the Structure, Syllabi (the corrected version) for the two courses of the first two semesters of the B.E, B.Tech (chemical), and B.Tech (Bio-Tech) ~~Curriculum~~ curriculum.
- 2) Evaluation pattern (distribution of Marks: Internal and External)
- 3) As per the work load is concerned (Lectures and Tutorials) the issue may be discussed in the meeting of the academic council.
- 4) Approved the Text Books
- 5) Approved the Reference Books
- 6) Enclosed the detailed Syllabus, question paper pattern.

The board has recommended for placing it before the academic council for discussion and to obtain suitable solutions for effectively implementing the suggestions.

K. J. J.

Chairman, BOS

Mathematics & Humanities, CBIT