

17<sup>th</sup> November, 2016

Minutes of Meeting of Board of Studies of HBNI (Engineering Sciences) on 17<sup>th</sup> November 2016 in D-Block Auditorium, Mod Labs, BARC, Trombay

Following members were present in the meeting:

1. Dr. G. K. Dey, Director, Materials Group
2. Prof. A.P. Tiwari, RCnD, BARC
3. Prof. P.V. Varde, RRSd, BARC
4. Prof. K. Velusamy, IGCAR, Kalpakkam
5. Prof. Archana Sharma, BARC
6. Prof. A.K. Nayak, RED, B.A.R.C
7. Prof. J. Chattopadhyay, RSD, B.A.R.C

Following were the decisions as per the agenda of the meeting

1. Applications received for recognition as PG teacher/M.Tech Guide / Ph.D. Faculty under Engineering Sciences Discipline of HBNI.

The BOS decisions for these applications are attached as per Annexure A. A special case for Mr. Suman Guha of VECC was discussed. It was decided that BOS chairman would write to Dean HBNI requesting him, to inform Dean VECC to take further corrective actions in the case.

2. Request for extension of DGFS Ph.D and Ph.D candidates  
The BOS decisions for these applications are attached as per Annexure B

2. Any other matter with the permission of the chair.

The following points were discussed:


(a) Two new courses to be introduced were discussed. Following is the summary of the discussions

**Course 1: Natural circulation based Passive Safety Systems for Advanced Reactors**  
Co-ordinator: Prof.P.K.Vijayan, RRF, BARC

The committee decided that the course was relevant, well-conceived and useful in the design of new reactors in DAE. The following points however need to be included.

- Uncertainty modeling should be part of the course. Assessment of margins of all the parameters should be ideally discussed.
- The current format of the course content is written in a book chapter form. The content has to be modified in a syllabus form (typically within a half-a-page to one page).

For M.A. please.

  
13/01/17

→ Ms. Nivedita



- Reference books and text books relevant to the course need to be indicated below the syllabus module.
- Lecture contact hours need to be increased from the current 30 to 45, this being a Quest course.
- The course should also aim to teach how to model using mathematical softwares relevant to the above subject.

**Course 2: Advanced Structural Dynamics and Earthquake Engineering**  
 Co-ordinator: Prof. G. Ramireddy, RSD, BARC

The course was accepted as one of the ELECTIVE courses dedicated to CIVIL MECHANICAL trainees. The following points need to be added.

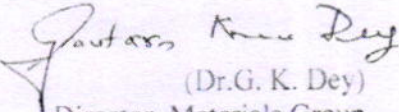
- 1 lecture to be devoted into introduction to earthquake engineering basics
- The number of lecture contact hours to be reduced from 50 h to that suitable for an elective course. The course content need to be modified accordingly.
- Remove the word "MA(LAB)" from the syllabus structure of the above course. Instead use only software

(b) Detailed discussion was done on the course content for CIVIL TSOs

- In the course details illustrating each course, it was advised to add the names of textbook names (if available) relevant to a particular course
- In the advanced courses, there was some confusion of minimum number of credits required. It was decided, that the same would be sorted out after discussion between Dr. Ramireddy and Dr. A.P. Tiwari, Head, HRDD.

The above matter has been settled after discussions between Dr. Ramireddy, Head, HRDD and Dr. Ramanamurthy, HRDD. Accordingly, subject content, lectures and number of credits have been suitably modified.

(c) Chairman, BOS informed the committee related to the various circulars based on Academic Council Decision. The new criteria of the minimum number of papers required for submission of a thesis (for each discipline) was informed.

  
 (Dr. G. K. Dey)

Director, Materials Group  
 Convener, Board of Studies, (Engg. Sciences)

Distribution  
 All Present