



HOMI BHABHA NATIONAL INSTITUTE
Regd. Office: Knowledge Management Group
Bhabha Atomic Research Centre,
Central Complex, Mumbai 400085

Ref: HBNI/BOS/MIN-11/1970/2010

July 29, 2010
AUG, 03

A meeting of Board of Studies of Engineering Sciences (HBNI) was held on July 28, 2010 in Council Hall of HBNI, Training School Complex, Anushakti Nagar. Following were present.

1. Prof. B.K.Dutta, Convener, BOS (Engg Sciences)
2. Prof. D.N.Badodkar, Member
3. Prof. Kamachi Mudali, Member
4. Prof. Kallol Roy, Member
5. Prof. D.Sathiamoorthy, Member
6. Prof. A.K.Suri, Member
7. Prof. P.V.Varde, Member
8. Prof. P.K.Vijayan, Member

Prof. A.P.Tiwari and Prof. T.Jayakumar could not attend. Following are the minutes of the meeting:

1. The board discussed the new applications received for faculty positions and additional M.Tech. guides in HBNI. Recommendations of the board are shown in Appendix-I.
2. A proposal from Head HRDD, BARC to start a new M.Tech. program on Geology and Geophysics at AMD Hyderabad was discussed. The recommendations are as follows.
 - a. The course content in both the semesters has been found to be suitable for an M.Tech. program. Some important comments are shown in Appendix-II
 - b. The total credit shown from the course work is 38. BOS suggested to have two viva-voce exams and a mini project in the first year to get 12 additional credits. This will make it en par with other on-going M.Tech. programs in BARC training school.

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c. BOS suggested that the CI should submit urgently the applications for recognitions of M.Tech. guides in the area of Geology and Geophysics.

3. Board approved following reviewers' names for two students PHD.

a. Biswaranjan Dixit: (Information Item)

- i. Prof. Harishankar Ramachandran, IIT Chennai
- ii. Prof. Ady Herscovitcha, Brookhaven National Laboratory, USA
- iii. Prof. Sudeep Bhattacharjee, IIT Kanpur
- iv. Prof. Chennupati Jagdish, Australia National University, Australia


b. M.B.Borage

- i. Prof. Vivek Agarwal, IIT Bombay
- ii. Prof. V.Ramanarayanan, IISc Bangalore
- iii. Prof. Ned Mohan
Department of Electrical and Computer Engineering
University of Minnesota
EECS Building, 200 Union Street SE
Minneapolis, MN 55455-0167, United States
Email: mohan@ece.umn.edu

iv. Professor Chris Bingham

School of Engineering, University of Lincoln
Brayford Pool, Lincoln LN6 7TS, United Kingdom
Email: c.bingham@sheffield.ac.uk
Email: engineeringenq@lincoln.ac.uk

4. BOS requested HBNI to explore possibilities of having MOUs with IIT Kanpur, IISc Bangalore, IIT Kharagpur, IIT Indore and IIT Hyderabad for carrying out course work by HBNI students in these Institutes.



(B.K.Dutta)

Convener, Board of Studies (Engg Sciences)

Dr. R.R.Puri
Dean, HBNI
Training School Complex
Anushakti Nagar 400094

APPENDIX-II

The syllabus for Geology course conducted at BARC Training School Hyderabad Campus has been reviewed and adequate area has been covered for the above course. Considering the recent development in the field of geo sciences, the following areas may be considered for inclusion in the syllabus:

1) Environmental impact and rules & regulations of this country are an important area of environmental geology. This includes topic like "Geo-Environmental Natural Hazard Studies including the risk".

2) In the area of geo-technical studies, both rock mechanics and soil mechanics, studies are preferable for better understanding of the terrain. It is also pertinent in this juncture to include topics like Mineral Economics, Reserve and Resources type and National Mineral Policy.

3) In the laboratory studies, fluid inclusion and geo standards are helpful for the investigation. In the area of Mineral Process Engineering the following topics are important.

1) Reserve estimation technique

2) Principles and assumptions for reserve assessment.

Other areas are like Active Fault Studies, Earthquakes and Seismic Micro-zonation, geo-technical investigation and Information technology.