

**Government of India
Bhabha Atomic Research Centre
Reactor Engineering Division**

Ref: RED/BOS/MINUTES/OPA-65811

May 12, 2014

Sub: Minutes of 18th BOS Meeting.

The BOS meeting was held on 16.04.2014 at 2nd floor, Conf. room, Engg. Hall-7. The following were present.

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|-----------------------------|---|----------|
| 1. Prof. P.K.Vijayan, BARC | - | Convener |
| 2. Prof. B.K.Dutta, BARC | - | Member |
| 3. Prof. A.P.Tiwari, BARC | - | Member |
| 4. Prof. Kallol Roy, BARC | - | Member |
| 5. Prof. P.V.Varde, BARC | - | Member |
| 6. Prof. D.N.Badodkar, BARC | - | Member |
| 7. Prof. G.K. Dey, BARC | - | Member |
| 8. Prof.R.C.Hubli, BARC | - | Member |
| 9. Dr. S.Mukherjee, IPR | - | Invitee |
| 10. Dr. Saibaba, IGCAR* | - | Invitee |

The following members could not attend:

- | | | |
|---------------------------------|---|--------|
| 1. Prof. T. Jayakumar, IGCAR | - | Member |
| 2. Prof. Kamachi Mudali, IGCAR- | - | Member |
| 3. Prof. P.V. Varde, BARC | - | Member |

The following decisions were made during the meeting.

1. BOS discussed and decided the following criteria for recognition as faculty and as M. Tech Guide.
 - a) Criteria for recognition as faculty:
 - i) Ph. D from a recognized university
 - ii) Active in Academic area as evident from continuity in research and publications.
 - iii) Minimum period of 5 years after PhD and for exceptional cases after 3 years based on publication, awards, etc.
 - iv) Previous academic experience – teaching, guiding, reviewer of thesis and journal papers, editorial member of Journal, etc.
 - b) M.Tech Guide recognition criteria:
 - i) Qualification- M.Tech, M.Sc (Engg) or PhD
 - ii) Minimum period of 5 years after M.Tech and for exceptional cases after 3 years based on publication, awards etc.
 - iii) For candidates having PhD degree, applications will be considered for becoming M.Tech. guide without any waiting period.

* Representative in lieu of Prof. T. Jayakumar and Prof. Kamachi Mudali, IGCAR.

To
Dr. B.K. Dutta
Foamer Head, HRDD.

~~As discussed~~
let us discuss one
more issue

Shri Joshi, for record

From. Aech. m.
RED.

एच.बी.एन.आई/H.B.N.I.
अवका सं./Invoice No.: 514
दिनांक/Date: 16/3/2016
हस्ताक्षर/Initial:

2. Information items
 - i) Short listing of examiners done for 25 PhD candidates (Table-1 attached).
 - ii) Extension granted for 5 candidates pursuing M.Tech in HBNI (Table-2 attached).
 - iii) Extension granted for 09 candidates pursuing PhD in HBNI (Table-3 attached).
3. Extension of fellowships beyond four years for DGFS-PhD students.
 - a. Out of six candidates fellowship extension request to 5th year is approved for the following four candidates
 - i. Ms. Hemangi Gawand
 - ii. Shri Abhijit Pandurang Deokule
 - iii. Shri P. Veerender
 - iv. Shri Somesh Vinayak Tewari
 - b. With respect to the application of Ms. Pooja Saxena, Dr. Dutta has been requested to meet both guides, technology advisor and doctoral committee chairman and send a detailed report/recommendation to BOS regarding continuation of scholarship
 - c. With respect to the application of Shri S.K. Reddy, the student doctoral committee is requested to meet and furnish a detailed report/recommendation to the BoS.
4. Syllabus for M.Tech course on Material Science was discussed. BoS appreciated the proposed comprehensive Material Science course. BoS suggestions are as follows.
 - i) Wide-spectrum of topics is covered in the entire syllabus. In view of this it could be delivered in the following parts.
 - a) Part 1 (Physics of Materials),
 - b) Part 2 (Solid Mechanics) and
 - c) Part 3 (Material Processing)
 - ii) This will help students to choose the module selectively based on their past experience and standing committee recommendations
 - iii) In order to assign the credit and marks, the number of lectures in each part should be communicated.
5. Dr. S.Mukherjee, Dean, IPR, Gandhinagar made a presentation on the proposed M.Tech course on Fusion and Technology. He informed that the 1st year of the proposed course will consist of the following:
 - i) Trimester-I which is common to all.
 - ii) Trimester-II which is discipline specific
 - iii) Trimester-III Mini project2nd year will be devoted to Project work.
BoS made following decisions on this.
 - a) Lecture duration shall be 1 hour instead of 90 minutes.
 - b) Total lecture hours shall be restricted to 520.
 - c) BoS decided to hold a full day dedicated meeting shortly to discuss the proposal further. Each BoS member is requested to prepare and submit comments on the syllabus before the next meeting.

Sd/-
(Prof. P.K. Vijayan)
Convener, Board of Studies

To
All the Members

emailed the evolving draft to all CIs seeking their inputs wherever needed. After adding all inputs, it will be presented to the CoM for approval. He informed that as per mandatory requirement for any grant-in-aid institution, HBNI has to finalize an Annual Report and submit to the DAE for tabling in the Parliament before November 30 every year.

Director also mentioned that annual intake of students has stabilized around 800. About 300 students have completed their doctoral studies and about 600 have completed M.Tech. Many CIs have an ambition to increase intake of students. TMC has been increasing seats progressively by taking approval from Medical Council of India and its sanctioned intake for Post-Graduate programmes including super-specialty courses is 109.

Based on inputs being received from all CIs, he listed the following as the following future plans of the Institute.

1. To increase intake of doctoral students after establishing infrastructure such as students' hostels,
2. To increase intake of students to Diploma in Radiation Protection (DipRP) programme at BARC,
3. To convert Diplomate of National Board (DNB) programme (accredited by National Board of Examinations) being run in BARC hospital to a MD/MS programme,
4. **To start M.Sc (Clinical Research) at TMC,**
5. **To start a Diploma Programme in Fusion Imaging Technology at TMC, and**
6. **To start M.Tech. in fusion science and engineering at IPR.**

Continuing, he said, "A new campus for NISER is under construction and once it moves to its new campus, it is proposed to start schools in Computer Science and Earth Sciences, and integrated Ph.D. programme in all disciplines. Taking a longer term view, a new campus of BARC is being planned at Vizag and land for the campus has already been acquired. Centre of Plasma Physics, Sonapur, near Guwahati has merged with IPR and academic programmes leading to a Ph.D. could be started there as well in future. TMC is setting up new campuses at Vizag in Andhra Pradesh, and Mullanpur, SAS District, Punjab, near Chandigarh."

Director requested all to give suggestions to celebrate "ten years of HBNI" as HBNI will be completing ten years after having received accreditation in 2005.

Director spoke about students seeking extension in completing the doctoral research beyond the stipulated period of five years (including one year of course work). This issue had come up in several meeting of deans and guidelines have been framed for extension from five to six years and from six to seven years. Extension beyond seven years is given in rare cases and only when the student has medical problem or has been subject to severe personal trauma. The students, who are not employees, do not get any scholarship after five years and have to move on in their career and are therefore keen to finish as soon as they can. However, students, who are employees, have no such disincentive. Director was

M.5.A.5. Ratification of the list of faculty members, M.Tech Guides and PG Teachers recommended by Board of Studies:

AC ratified the consolidated list of faculty as approved by various Boards of Studies (Annexure- 1).

M.6.A.6. Reconstitution of BoS

Chairman suggested not making significant changes in the Board of Studies in view of forthcoming visit of NAAC peer team. All members unanimously agreed to this suggestion. Some changes required to take care of retirements were made. The approved BOS are shown in Annexure-2. Further changes will be made during the next meeting of the academic council to be held in early August.

M.7.A.7.1 Information on M.Tech and M.Sc(Engg) programs by IPR

Dean, HBNI informed the Academic Council that IPR, Gandhinagar has significantly modified syllabus for a new M.Tech. program on Fusion Science and Technology after discussion with BOS (Engineering Sciences). IPR will also run M.Sc. (Engg) program for its officers recruited through previous batches of TTP and also through direct recruitment.

Academic Council approved the M.Tech programme on Fusion Science and Technology to be started at IPR from the forthcoming session. It also approved the joining of M.Sc.(Engg) program by Scientific Officers from the previous batches of TTP programs and also appointed through direct recruitment

M.7.A.7.2 Placement of work order to procure 'Institute Management Software'

Associate Dean (M) informed the council that work order has been issued to M/s. Vignaharta Systems, Bhandara, Maharashtra to develop and commission an Institute Management System.

M.7.A.7.3 Appointment of interim Registrar of HBNI

Academic Council took note of appointment of Dean, HBNI as officiating Registrar of HBNI w.e.f. 31/12/2014.

M.7.A.7.4 Information on appointment of additional Associate Dean

Council was informed regarding appointment of Dr. A. K. Dureja (D) as additional Associate Dean.

The meeting ended with a vote of thanks to the chair.