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सह संकायाध्यक्ष

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Ref. HBNI/IQAC/6<sup>th</sup> Meeting/2020/389

14/07/2020

Subject: Approved Minutes of the 6<sup>th</sup> Meeting of the Internal Quality Assurance Cell (IQAC), HBNI held on 13<sup>th</sup> March, 2020 at Council Hall, HBNI, Anushaktinagar, Mumbai

Enclosed herewith please find the approved copy of the Minutes of 6<sup>th</sup> meeting of the IQAC, HBNI held on 13<sup>th</sup> March, 2020 at Council Hall, HBNI, Anushaktinagar, Mumbai.

(A.K. Dureja)

Chairman, Members and Invitees in the IQAC meeting:

1. Prof. P. R. Vasudeva Rao	Vice Chancellor, HBNI	Chairman
2. Prof. P. D. Naik	Dean, HBNI	Member
3. Prof. G. Ravikumar	Head, SIRD, BARC	Member
4. Prof. D. K. Maity	Associate Dean, HBNI	Member
5. Prof. S. Mukhopadhyay	Head, Seismology Division, BARC	Member
6. Prof. S. Laskar	Nodal Officer, TMC	Member
7. Shri Vishnu Prasad S	Registrar, IMSc	Member
8. Shri A. K. Narang	Head, HRD & KM, HWB	Member
9. Mrs. Neena Bopaiah	Principal, AECS No.-5, Mumbai	Member
10. Shri Sandeep K. C.	Ph.D. Student, HWD, BARC	Member
11. Prof. B.S. Tomar	Institute Chair Professor, HBNI	Invitee
12. Dr. B. Chandrasekar	Registrar, HBNI	Invitee
13. Prof. S. Kannan	Convener, BoS (Chemical Sciences)	Invitee
14. Prof. S.M. Yusuf	Convener, BoS (Physical Sciences)	Invitee
15. Prof. Hema Rajaram	Dean Academics (Life Sciences), BARC	Invitee
16. Dr. Shantanu Kumar Karkari	IPR, Gandhinagar	Invitee
17. Prof. A. K. Dureja	Associate Dean, HBNI	Member Secretary

**Minutes of 6<sup>th</sup> meeting of Internal Quality Assurance Cell (IQAC)**

Minutes of sixth meeting of the Internal Quality Assurance Cell (IQAC), HBNI held at Council Hall, HBNI, Anushaktinagar, Mumbai on 13<sup>th</sup> March, 2020 is as follows:

**Present:**

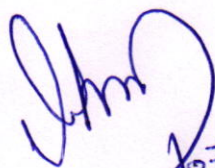
1. Prof. P. R. Vasudeva Rao	Vice Chancellor, HBNI	Chairman
2. Prof. P. D. Naik	Dean, HBNI	Member
3. Prof. G. Ravikumar	Head, SIRD, BARC	Member
4. Prof. D. K. Maity	Associate Dean, HBNI	Member
5. Shri Sandeep K. C.	Ph.D. Student, HWD, BARC	Member
6. Prof. B.S. Tomar	Institute Chair Professor, HBNI	Invitee
7. Dr. B. Chandrasekar	Registrar, HBNI	Invitee
8. Prof. S. Kannan	Convener, BoS (Chemical Sciences)	Invitee
9. Prof. S.M. Yusuf	Convener, BoS (Physical Sciences)	Invitee
10. Prof. Hema Rajaram	Dean Academics (Life Sciences), BARC	Invitee
11. Dr. Shantanu Kumar Karkari	IPR, Gandhinagar	Invitee
12. Prof. A. K. Dureja	Associate Dean, HBNI	Member Secretary

**Members who could not attend:**

1. Prof. S. Mukhopadhyay	Head, Seismology Division, BARC	Member
2. Prof. S. Laskar	Nodal Officer, TMC	Member
3. Shri Vishnu Prasad S	Registrar, IMSc	Member
4. Shri A. K. Narang	Head, HRD & KM, HWB	Member
5. Mrs. Neena Bopaiah	Principal, AECS No.-5, Mumbai	Member

**M.1: Welcome address and opening remarks by VC, HBNI**

Vice Chancellor welcomed all the participants to the meeting and indicated that the suggestions of members of IQAC are important in improving the processes in HBNI and welcomed inputs from one



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and all. VC also mentioned that the accreditation of HBNI by NAAC is valid up to May, 2020 and steps are being taken to submit the Institutional Information for Quality Assessment (IIQA) and Self Study Report (SSR) as a part of the re-accreditation process.

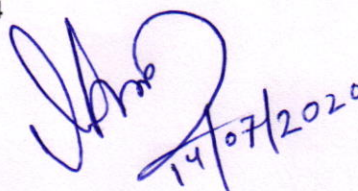
### **M.2: Discussion on Curricular Aspects: Value added courses, A mandatory course on Nuclear Science & Technology and Advanced courses**

The cell discussed various courses which can be offered to students as value added course. Dr. Ravikumar suggested that we can offer a course on foreign language as most of the doctoral students choose post-doctoral fellowship after graduating from HBNI. This could be useful for some of the students. He also suggested to teach English as foreign language. Dr. Chandrasekar suggested that many such courses are available online also these days and we can direct students to enroll for these courses in Swayam platform etc. Prof. Yusuf suggested that if we want our graduating students to be industry ready we should focus more on Project work in Industries and summer internships etc. Prof. Yusuf informed the cell that in the past an attempt was made to identify the topics for project work. Prof. Yusuf informed that in the forthcoming meeting of Board of Studies (Physical Sciences), it would be discussed and methodologies would be evolved to expose students to industry experience. Across the board, the cell was of the opinion that it would be very advantageous for students to take up some project work in an industry related to their research work. Vice-chancellor informed the cell that he already had a discussion with Institute of Chemical Technology (ICT) for this purpose. The cell opined that we need to tap Government Sector for this purpose.

Vice-chancellor suggested to have a mandatory course on Nuclear Science and Technology for all the students who enroll for doctoral programme under HBNI so that they get a basic flavor of the department. Later they may take advanced courses based on specific interest. It was decided that this suggestion should be discussed in a forthcoming meeting of the Academic Council.

### **M.3: Discussion on Teaching-Learning and Evaluation: Continuous evaluation and Stress management**

The Cell noted that the feedback from the students, in some cases, indicated that they experienced stress because of the evaluation and examination system. Even though such inputs originated from a minority of students, it was felt that the issue needs deliberation. The cell also recognized that



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maintaining a high level of standards is required for pursuing the challenges in development of nuclear science and technology. The cell, therefore felt that a high emphasis on continuous evaluation, and tweaking of the curriculum to introduce a higher proportion of self-study was the best approach in addressing the stress issues. It was decided to discuss this issue first at the level of Deans and subsequently in the Academic Council.

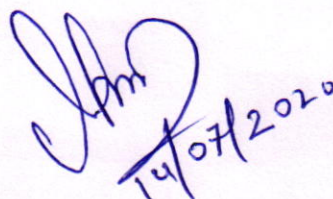
#### **M.4: Discussion on Research, Innovations and Extension**

Dr. Shantanu Kumar Karkari of IPR made a presentation on research, innovation and extension. As majority of the students in HBNI are involved in research work, it is likely that some of the students may come out with some innovative idea which they would like to pursue as their future prospects. To facilitate the student to take up entrepreneurship, it is very important that we address the Intellectual Property Right (IPR) issues. The present practice is that the Intellectual property belongs to the Department; also, in most of the cases, the innovative idea originates from the research supervisor which gets further developed by student. Dr. Karkari explained the mechanism by which foreign universities are handling such delicate issues. He explained how these issues are diligently being handled by Dublin City University, Ireland where he was doing his post-doctoral work.

The IQAC cell recognized the importance and complexity of this issue and decided that it needed deliberations at different platforms. It was decided that HBNI may evolve a draft policy on IPR and put up the same to the Council of Management for discussion and further evolution.

#### **M.5: Framework for starting post-graduate programme (M.Sc.) in basic sciences at BARC, Mumbai**

The Conveners, BoS, Basic sciences, informed the cell that BARC has proposed to introduce an MSc program in Life Sciences, Physical Sciences and Chemical Sciences for the benefit of employees of BARC who have joined department as Scientific Assistants (Graduates). The upgradation of knowledge base of these employees could enhance their contributions significantly, and provide great benefit to the mission programs of the Department. Prof. Maity informed the cell that as per UGC guidelines, we need to have a minimum of 30 hours of class room teaching and 10 hours of lab per week. As HBNI runs MSc programmes at HRI and NISER, the cell was of the opinion that the framework can directly

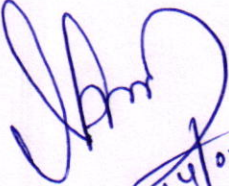


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be translated from there. As these programmes are primarily intended for employees, after detailed deliberation, it was felt that the program can be called as Applied MSc where we can give more emphasis on lab work. The cell however emphasized that the quantum and quality of instruction and the overall standard of the program in various CIs/OCC of HBNI should be at a similar level and there cannot be any dilution in standards. It was decided that BARC should submit a proposal after detailed consideration of all factors.

**M.6: Any other item with the permission of the Chair**

As there were no more items, the meeting concluded with thanks to the chair and special thanks to Dr. Shantanu Kumar Karkari for accepting invitation to attend the meeting and sharing the knowledge regarding incubation and start-ups.



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