



प्रो. नवीन कुमार

सह डीन

Prof. Naveen Kumar

Associate Dean

Minutes of the 12th meeting of Internal Quality Assurance Cell (IQAC)

12th meeting of the Internal Quality Assurance Cell (IQAC), HBNI was held on Jan 25, 2024 at 1100 hrs at Council Hall, HBNI, Anushaktinagar, Mumbai in hybrid mode. The meeting was attended by the following:

S. No	Name	Designation		
1	Prof. U. Kamachi Mudali	Vice, Chancellor, HBNI	Chairman	In - person
2	Prof Shashank Chaturvedi	Director, IPR	Member	On Video
3	Prof Gautam Bhattacharya	Director, SINP	Member	On Video
4	Dr S V Nakhe	Director, RRCAT	Member	On Video
5	Prof P. D. Naik	Dean, HBNI	Member	In - person
6	Prof P. C. Selvin	Registrar, HBNI	Member	In - person
7	Dr Himat Bhatt	SO/G, HP&SRPD, BARC	Member	In - person
8	Ms. Tanya Singh	PhD Student (Physical Sciences), HBNI	Member	In - person
9	Prof Parnika Das	Dean Academics (Physical Science), VECC	Nominee of Dr Sumit Som, Director, VECC	On Video
10	Prof P Y Nabhiraj	Dean Academics (Engg Science), VECC	Nominee of Dr Sumit Som, Director, VECC	On Video
11	Prof Vidhya Sundarrajan	Dean Academic, IGCAR	Nominee of Prof B. Venkataraman, Director, IGCAR	On Video
12	Prof Naveen Kumar	Associate Dean, HBNI	Member Secretary	In - person
13	Prof D K Maity	Associate Dean, HBNI	Invitee	In - person
14	Prof B K Nayak	Associate Dean, HBNI	Invitee	In - person

Members who could not attend the meeting:

S. No	Name	Designation	
1	Shri Vivek Bhasin	Director, BARC	Member
2	Dr Ajit Sapre	Reliance Industries Ltd.	Member
3	Prof V Ravindran	Director, IMSc	Member

Prof Naveen Kumar greeted and welcomed all the members and requested Vice Chancellor, HBNI to present the welcome address and opening remarks.

M.1 Welcome Address and Opening Remarks by Prof U Kamachi Mudali, VC, HBNI

Vice Chancellor welcomed all the members to the meeting and emphasized the importance of IQAC in enhancing the quality of education in Higher Educational Institutes. He deliberated on the role of IQAC in the light of NEP 2020.

M.2.1 Roles and Responsibilities of IQAC by Prof Naveen Kumar

Prof Naveen Kumar apprised the Internal Quality Assurance Cell about the roles and responsibilities of IQAC. He emphasized that IQAC is responsible for continuous improvement in all the operational aspects of an institution and is accountable to its stakeholders for quality of education. The IQAC is meant for planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the University. It is the prime responsibility of IQAC to initiate, plan and supervise various activities that are necessary to increase the quality of the education imparted in an institution or college by maintaining quality standards in teaching, learning and evaluation. The Internal Quality Assurance Cell's prime task is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the University. For this, it channelizes all efforts and measures of the Institution towards promoting its holistic academic excellence.

Prof Naveen Kumar highlighted that as per UGC document "XII Plan Guidelines for Establishment and Monitoring of the Internal Quality Assurance Cells (IQACs) in Colleges (2012 – 2017)", all Colleges, enlisted/recognized under section 2(f) and have been declared eligible to receive central assistance under Section 12B of the UGC Act, 1956 and fit to receive General Development Assistance are required to establish IQAC. UGC prescribes the following composition for IQAC:

- a) Principal - Chairperson
- b) Five senior teachers and one senior administrative official - Member
- c) Two external experts on Quality Management/ Industry/Local Community - Member
- d) Director / Coordinator – Member Secretary

The roles and responsibilities of the IQAC were discussed at length in the meeting and it was decided that each CI/OCC of HBNI will constitute an IQAC and the same shall be integrated with IQAC, HBNI Central Office. It was emphasized that the interlinking of the IQAC of CIs/OCC with the IQAC of the HBNI central office is needed for the effective implementation of the policies/decisions made in the meetings. In view of this, it was decided that the Member – Secretary of IQAC constituted at each CI/OCC shall be co-opted as a member of IQAC, HBNI Central Office. For smooth conduct and coordination of all the activities of IQAC, the following composition was suggested for IQAC to be constituted at CI/OCC level:

(a) For Chairperson:

Head of CI/OCC or his/her nominee or Convenor, Board of Studies or Chairman, Standing Academic Committee

(b) Members (Five senior teachers) and one senior administrative official:

Dean Academic, Dean Student Affairs, Dean Administration, Head of Training School, Nodal Officer, Registrar, Deputy Registrar, Chief Administrative Officer, Experts from Finance, Dean Administration who are closely associated with the affairs of the institute can be considered to serve as Member, IQAC.

(c) Members (Two external experts on Quality Management/ Industry/Local Community):

In addition to those suggested by UGC, Senior Officers other than HBNI faculty can be opted as members to bring diverse views about the academic programs of HBNI.

Timely collection, compilation and submission of data for AQAR/AISHE/AICTE is one of the most important activities of the IQAC. To facilitate timely preparation of these reports, it was suggested to forward the format to all CIs/OCC in advance. HBNI Central Office agreed to do the same.

M 2.2 Implementation of NEP – 2020 by Prof D K Maity

Prof D K Maity, Associate Dean, HBNI presented to the IQAC the status of implementation of NEP-2020 at HBNI. IQAC was informed that the implementation of NEP-2020 will be done in a

phased manner. In the first phase, exit options have been provided to Integrated MSc (5year programme) students after 3 year and M Sc (2year) students after 1 year. Academic break upto 2 year (in multiple of 1 year) has been implemented for M. Tech and M Sc (Engg) students. To work out the modalities for implementation of Academic Bank of Credits, a 15-member committee was constituted on July 11, 2023 and the committee submitted its report on August 10, 2023. The committee has suggested to implement the ABC in a phased manner with periodic review to make mid-course corrections, if any.

IQAC deliberated on the modalities for enrolment by students from the industrial units. IQAC was informed that persons from the industry can enroll under various programs of HBNI as a full time student provided they meet the all the requirements stipulated under admission rules of HBNI.

M 2.3 Feedback from Students and Faculty Members by Prof D K Maity

Prof D K Maity, Associate Dean, HBNI informed the IQAC that the Vice Chancellor has taken an initiative to interact with the students and faculty members of CIs/OCC of HBNI. He presented to IQAC the issues highlighted by the students and faculty members. IQAC was informed that the faculty members have raised following issues during the interaction meetings:

- ❖ HBNI email for faculty members
- ❖ Faculty ID card
- ❖ Access to Plagiarism Test Software
- ❖ Centralized Journal Subscriptions
- ❖ HBNI Journal for Science as well as Engineering category
- ❖ Multidisciplinary Board of Studies
- ❖ Placement Cell & Alumni Cell
- ❖ Travel support for International Conferences
- ❖ Payment of Page Charges for Good Quality Journal Publications

It was informed that email id with HBNI domain name has already been issued to desirous faculty members, deliberations on Multidisciplinary Board of Studies are underway and Placement and Alumini cell have been constituted.

Students have raised following issues during the interaction meetings:

- ❖ Sharing of Scientific Instruments of Different CI/OCC through an Online portal
- ❖ Activating “K S Krishnan Fellowship” Scheme for HBNI Scholars
- ❖ Placement in DAE units for outstanding Students
- ❖ Fellowship for 6th Year (Ph.D.), in some disciplines
- ❖ Bridging Fellowship after Submission of Ph.D Thesis
- ❖ Enhancement of Foreign Travel Assistance; Extending to MD/ DM/ MCh Students
- ❖ Course on Entrepreneurship by Industry experts
- ❖ More options for Spending Yearly Contingency fee
- ❖ Displaying Research Projects before joining of JRF
- ❖ Annual Sports & Cultural Meet of Students from Different CI / OCC
- ❖ Annual Convocation at HBNI, Mumbai
- ❖ Students Magazine for publishing articles of interest and talent showcase
- ❖ Showing Discipline in final Ph.D. Degree Certificate for Engineering Science
- ❖ Enhancing Activity of Placement Cell & Alumni Cell
- ❖ Interaction meeting of HBNI Central Office with students - Every year

M 2.4 New Value-Added Courses by Prof B K Nayak

Prof B K Nayak, Associate Dean, HBNI briefed IQAC about the Value Added Courses conducted at HBNI. IQAC was informed that the following Value Added Courses were conducted at HBNI during the calendar year 2023-24:

- (a) Research methodology, Research and Publication Ethics
- (b) Advanced NMR Spectroscopy
- (c) Advanced Material Chemistry
- (d) Disaster Management – Challenges in CBRN Emergencies

Besides these, the following courses have been conducted on SWAYAM-NPTEL platform:

- (a) Accelerator Physics
- (b) Neutron as probes for condensed matter

In addition to the above courses, the following courses are proposed for the calendar year 2023-24:

- (a) NPTEL Course on "Nuclear and Radiochemistry"
- (b) Course on Environmental Studies
- (c) Course on Laser Physics and Technology

IQAC expressed satisfaction that an overwhelming number of participants have benefitted from these courses. The cell resolved to explore the feasibility of conducting following Value- Added courses:

- (a) Course in the area of Biophysics by TMC-ACTREC, SINP, NISER, IMSc
- (b) Specialized courses in the area of Nuclear Science and Technology

It was opined that each CI/OCC should conduct at least one Value Added Course every year.

M 2.5 Presentation and analysis of NIRF India rankings-2023 and Data required for NIRF 24 by Prof Naveen Kumar

Prof Naveen Kumar, Associate Dean, HBNI presented to the Internal Quality Assurance Cell analysis of NIRF India Rankings – 2023 and data required for NIRF – 2024. It was informed that HBNI is ranked 17th in the University category, 15th in Research Institute category and 30th in the Overall category. He briefed the IQAC about the steps undertaken in the Calendar year 2023-24 for improving its NIRF ranking. IQAC was informed that for the year 2024, NIRF (Ministry of Education) has asked for additional data i.e. Employers Data for Assessment of criteria Peer perception (Employers). To meet the above requirement, all CIs/OCC of HBNI are requested to keep a record of Employers data. The data required has following fields:

- Name of the Company / Organization
- Address
- Turnover of the company
- Number of employees in the company
- Name of Employer
- Designation
- Official Email

- Personal Email
- Mobile no.
- Landline no

M 2.6 Integrated Management Software (IMS) and Quality Enhancement by Prof P D Naik

Prof P D Naik, Dean, HBNI briefed IQAC about the role of Integrated Management Software for quality enhancement. He emphasized that higher education should focus on knowledge creation, innovation and new start-up based on research work carried out by its students. Integrated Management System (IMS) software is required to take care of all the academic requirements of HBNI central office and its CIs/OCC in order to integrate the academic activities. HBNI has distributed structure with a unique architecture: It brings together academic programmes of 11 premier institutions of DAE, comprising of 4 R & D Centres and 7 Grant-in-aid institutions. IT-Software requirements of all CIs/OCC and HBNI central office in the format have been sought for developing a skeleton of the activities of the proposed IMS software.

M 2.7 Skill based academic degree/certification program under PMKVY 4.0 by Prof D K Maity

Prof D K Maity, Associate Dean, HBNI briefed IQAC about the UGC directive to all HEIs for creation of skill hubs under Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 4.0 This is a Special Initiative of the Government of India and participation of your institution will be useful for creating an ecosystem for the young generation.

Objective of the scheme are:

- (a) To promote an enabling ecosystem for the youths to get skilled and choose a career path aligned with their abilities and aspirations.
- (b) Enable delivery of skill training in a market - oriented and demand -driven manner by making the existing skilling ecosystem more flexible, swift, and geared to meet the emerging demand along with emphasis on improving the employability of candidates.
- (c) Process simplification of the skill ecosystem by leveraging technology and digitalization.

- (d) Enhance access to skilling by setting up a network of skill development infrastructure in remote parts of the country to cater to the needs of difficult geographies such as hilly terrain - effected areas, border areas, etc. by designing special projects. Improve inclusivity by ensuring that SC, ST, women, and other marginalized communities can undertake skill training and eventually access gainful wage and self - employment.
- (e) Provide opportunity for lifelong skilling through the crucial pillars of upskilling and reskilling to address the dynamic needs of the ever - changing market.
- (f) Quality training delivery through trained pedagogy, standardized assessments, and industry relevant curriculum.
- (g) Facilitate to enhance employability of candidates through training in transferable skills and incentives for employment generation.
- (h) Provide candidate - centric training with emphasis on industry - relevant skills.

IQAC was informed that CIs/OCC of HBNI are conducting various programmes for skill enhancement. CIs/OCC of HBI are requested to explore the possibility of aligning these short-term training programmes with PMKVY 4.0

M 2.8 HBNI Industry Linkage Centre by Prof D K Maity

Prof D K Maity Associate Dean, HBNI briefed IQAC about the various activities conducted by HBNI Industry Linkage Centre of HBNI. He informed the cell that internship applications were invited from the students. 46 applications were received and the same were discussed with R&D units of industry. A few students got internship with industry. IQAC opined that the target should be to get internship for more than 90% of the interested students.

M 2.9 Dr Himlal Bhatt expressed satisfaction over the steps taken by HBNI for improving the quality of education. Ms Tanya Singh expressed the desire to collect feedback from the students and present it in the next meeting.

As there were no more items, the meeting concluded with thanks to the chair and all the members.



(Prof Naveen Kumar)

Member Secretary, IQAC



(Prof U Kamachi Mudali)

Chairman, IQAC and Vice Chancellor, HBNI