

Circulation by e-mail only

# Minutes of the Meeting

## 27<sup>th</sup> MEETING OF THE ACADEMIC COUNCIL



## HOMI BHABHA NATIONAL INSTITUTE

*(A Deemed to be University u/s 3 of UGC Act, MHRD & an Aided Institution of the DAE, Govt. of India)*

2<sup>nd</sup> Floor, Training School

Anushaktinagar, Mumbai – 400094

Website: [www.hbni.ac.in](http://www.hbni.ac.in)

Phone Nos.: 022-25597554, 25597626

## MINUTES OF 27<sup>th</sup> MEETING of the Academic Council

---

The following members were present during the meeting held on 17<sup>th</sup> June 2021.

Prof. P.R. Vasudeva Rao, Vice Chancellor, **Chairman**  
Prof. P.D. Naik, Dean, HBNI  
Prof. A.K. Mohanty, Director, BARC  
Prof. A. K. Bhaduri, Director, IGCAR  
Shri Debashis Das, Director, RRCAT  
Dr. Sumit Som, Director, VECC  
Prof. Gautam Bhattacharyya, Director, SINP  
Sh. Shashank Chaturvedi, Director, IPR  
Prof. S.M. Yusuf, Director, IoP, Convenor, BoS (Phy. Sci.), & Dean Student Affairs, BARC  
Prof. V. Arvind, Director, IMSc  
Prof. Pinaki Majumdar, Director HRI  
Dr. R.A. Badwe, Director, TMC  
Prof. Sudhakar Panda, Director, NISER  
Prof. E.D. Jemmis, IISc, Bangalore  
Prof. Indranil Manna, IITKharagpur  
Prof. J.B. Udgaonkar, IISER, Pune  
Prof. B. Venkatraman, IGCAR  
Prof. V. Kain, OS, MP&CD, & Dean Academic, Engg. Science Stream-I, BARC  
Prof. S. Kannan, Convenor, BoS (Chemical Sciences)  
Prof. A.P. Tiwari, Convenor, BoS (Engineering Sciences)  
Prof. R.B. Grover, Convenor, BoS (Applied Systems Analysis)  
Prof. S.D. Banavali, Convenor, BoS Medical & Health Sciences, & Dean, TMC  
Prof. (Mrs.) Prasanna Venkatraman, Convenor, BoS (Life Sciences)  
Prof. Meena Mahajan, Convenor, BoS (Mathematical Sciences)  
Prof. Bedangadas Mohanty, Convenor, BoS Integrated Masters Programme  
Prof. B.K. Dutta, Institute Chair Professor, HBNI  
Prof. B.S. Tomar, Institute Chair Professor, HBNI  
Prof. D.K. Maity, Assoc. Dean, HBNI  
Prof. A.K. Dureja, Assoc. Dean, HBNI  
Prof. Saibal Basu, Assoc. Dean, HBNI  
Prof. A.K. Bhattacharjee, Dean Academic, Engg. Sciences Stream-II, BARC  
Prof. Tapan Kumar Ghanty, Dean Academic, Chemical Sciences, BARC  
Prof. (Ms.) Hema Rajaram, Dean Academic, Life Sci., BARC  
Prof. R. Rajaraman, Dean Academic, Physical Sciences, IGCAR  
Prof. Anish Kumar, Dean Academic, Engineering Sciences, IGCAR  
Prof. Vidhya Sunderajan, Dean, Student Affairs, IGCAR  
Prof. CVS Brahmananda Rao, Dean Academic, Chemical Sciences, IGCAR  
Prof. Arup Banerjee, Dean Academic, RRCAT  
Prof. C.P. Paul, Dean Student Affairs, RRCAT  
Prof. Parnika Das, Dean Academic, Physical Sciences, VECC  
Prof. Sarabjit Pal, Dean Academic, Engineering Sciences, VECC  
Prof. Tilak Ghosh, Dean Student Affairs, VECC  
Prof. Partha Saha, Dean Academic, Chemical/ Life Sciences, SINP  
Prof. Pranay Swain, Dean Academic, NISER  
Prof. Renjit Mathew, Dean Student Affairs, NISER

- (xiv) Advanced Accelerator Physics-II: (Credit :4)
- (xv) Advance Materials Science (Credit 4 )

## II. Engineering Sciences

Prof. A.P. Tiwari presented activities of the BoS Engineering Sciences. The BoS recommended 6 faculty and 11 MTech guides. The academic extension of PhD/ DDFS students were recommended for 3 candidates. From the period of Dec. 2020 to June 2021 the BoS has reviewed 27 synopsis and it was informed that shortlisting of examiners was completed for the 21 shortlisted synopses.

The Board has introduced five value added courses at BARC and eleven courses for PhD/MSc(engg) at VECC.

### (a) Introduction of Value added courses at BARC

S. No.	Course Title	Lecture Hours	Credits
1.	Advanced Mass Transfer	45	6
2.	Advanced Chemical Reaction Engineering	45	6
3.	Membrane Technology	45	6
4.	Theory of Plasticity	45	6
5.	Advanced Concepts in Finite Element Methods	45	6

### (b) Introduction of courses at VECC for PhD/MSc(engg) programs

S. No.	Course Title	Lecture Hours	Credits
1.	Artificial Intelligence & Machine Learning	48	6
2.	Computer Architecture	42	5
3.	Advanced RF System	42	5
4.	Advanced Power Electronics	48	6
5.	Cryogenic Engineering	48	6