

## Mintues of the Board of Studies (Physical Sciences)

The board of studies (BoS) had met as per the following

Meeting No.	1
Date	01/12/2018 (Saturday)
Time	10:30 hrs.
Venue	The Institute of Mathematical Sciences, Chennai

The following members were present

1. Prof. G. Amarendra, IGCAR - Chairman
2. Prof. Shikha Varma, IOP - Member
3. Prof. K.S. Bindra, RRCAT - Member
4. Prof. Debades Bandyopadhyay, SINP - Member
5. Prof. Sudip Sengupta, IPR - Member
6. Prof. D. Indumathi, IMSc - Member
7. Prof. Bedangadas Mohanty, NISER, Bhubaneswar participated the meeting through Skype.

Prof. Pinaki Majumdar, HRI, Prof. Jane Alam, VECC and Prof. S.M. Yusuf, BARC could not attend the meeting, owing to their other official commitments.

The following were discussed

1. Approval of all Faculty Recognition – Twelve (As per Annexure – I) - **Approved**
2. Approval of the Syllabus – Six (As per Annexure – II) - **Approved**
3. Approval for the extension for thesis submission – Twenty five (As per Annexure – III) – **Approved**
4. Proposal for new courses during 2019-2020 academic year

With regard to the new courses, the members had discussed various possible new courses as an elective courses to be offered across various CIs. The following courses were found to be suitable for which the members are requested to frame the syllabus in consultation with the faculty in each CI,

1. Overview of Mathematical Methods for Engineers & Scientists (20 Hrs.)
2. Overview of Numerical Methods / Computational Methods (20 Hrs.)
3. Overview of Nano Science & Technology (20 Hrs.)
4. Laser Science & Technology (20 Hrs.)
5. Accelerator based Materials Science (20 Hrs.)
6. Surface Science for Engineers (20 Hrs.)
7. Overview of Plasma Waves

8. Computational Fluid Dynamics
9. Overview of nuclear radiation detectors
10. An exposure of challenges in Astrophysics
11. Introduction to Cosmology

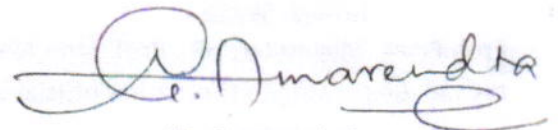
The members also discussed various issues related to (i) time extension for thesis submission of the students (ii) partial fellowship beyond the prescribed tenure (iii) possibility of extension of partial fellowship to sixth year and (iv) Research Associate positions that are available for students that have just submitted their Ph.D thesis etc.,

Based on detailed discussions, it was felt that on behalf of BoS, it may be suggested that (i) all faculty recognitions coming from different CIs be screened by their local standing committee of HBNI, to ensure adherence to guidelines issued by HBNI (ii) a representation can be made to HBNI for considering the extension of partial fellowship to all students for one more year.

Kalpakkam

Date: December 12, 2018

Encl.: Annexure I to III



(G. Amarendra)

On behalf of Board of Studies,  
Physical Science

To

Members of the BOS (Physical Science)

Copy to :

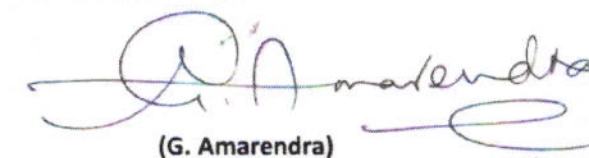
1. Prof. P. R. Vasudeva Rao, Vice-Chancellor, HBNI, Mumbai
2. Prof. B. K. Dutta, Senior Professor & Dean, HBNI, Mumbai
- 3. Prof. A.K. Dureja, Associate Dean and Professor, HBNI, Mumbai
4. Prof. D K Maity, Associate Dean, HBNI, Mumbai.
5. Prof. Saibal Basu, Senior Professor & Associate Dean, HBNI, Mumbai

## ANNEXURE - II

## SYLLABUS

S.NO.	NAME OF THE COURSE	RECEIVED FROM	COMMENTS OF BOS	FORWARDED TO HBNI
1	Research Methodology	Dr. Arup Banerjee, Dean Academic, RRCAT, Indore	RECOMMENDED	10/08/2018
2	Mathematical Methods (REVISED SYLLABUS)	Dr. Arup Banerjee, Dean Academic, RRCAT, Indore	RECOMMENDED	09/08/2018
3	M.Sc.in Physics, Applied Physics & Engineering Physics	IPR	RECOMMENDED	28/08/2018
4	Revised syllabus for Doctoral course at VECC	VECC	RECOMMENDED	28/08/2018
5	"EC Advance Condensed Matter Physics" and "Quantum Information"	IGCAR	RECOMMENDED	05/10/2018
6	School of Physical Sciences Ph.D. course structure	NISER	RECOMMENDED	12/12/2018

THE ABOVE SIX SYLLABUS WERE APPROVED IN THE BoS (PHYSICAL SCIENCES) MEETING HELD ON DECEMBER 1, 2018

  
(G. Amarendra)