

MINUTES OF THE MEETING OF THE 1<sup>ST</sup> BOARD OF STUDIES OF THE CENTRE FOR NANOTECHNOLOGY, CENTRAL UNIVERSITY OF JHARKHAND HELD ON 3<sup>RD</sup> MARCH 2015

A meeting of the first Board of Studies of the Centre for Nanotechnology was held on 3<sup>rd</sup> March 2015 at Central University of Jharkhand at 12:30 PM. The following members were present.

Prof. R.K.Dey- Convenor and Chairperson (ex-officio)

Prof. Alok.R. Ray, IIT Delhi

Prof. P.S.Mallick, VIT

Dr. J.N.Nayak, CoE

Dr. V.K.Tripathi,CWEM

Mr. B.M.Jha, CEE

Dr. G.P.Singh,CNT

Dr. A.S.Bhattacharyya, CNT

Dr.Lawrence Kumar,CNT

Prof. S. Medhekar, CAP

The following deliberations have been made and appropriate decisions have been taken wherever required as described below.

1. Professor R.K.Dey, Convenor and Chairperson Board of Studies graciously welcomed all members to the 1<sup>st</sup> meeting of the Board of studies. The chairperson introduced the guests (external expert members) and all other members.
2. Appraisal of the Ordinance of the University was made by prof R.K.Dey emphasizing the Board of Studies which was constituted as per Ordinance (OA-7) would stay in term for 3 years and function as per its guidelines
3. All syllabus for the ongoing 2010-15,2011-16,2012-17,2013-18 and 2014-19 courses and its content was approved post facto by all the members
4. The Doctoral committee and the list of supervisors was approved by all members! The project work of the students of 9<sup>th</sup> and 10<sup>th</sup> semester is highly appreciated by the committee members
5. It has been unanimously decided that faculty members from institutes of national importance such as IIT and NIT be considered and included and included as examiners for question paper setting, answer script evaluation and PhD examiner etc.
6. The following changes were suggested in the syllabus proposed
  - 1) Mechanical Behaviour of Materials should be removed as a separate course and incorporated in Materials Science course
  - 2) Nanotribology and Nanomechanics should be kept as an elective subject
  - 3) Nano Biotechnology should be as a main subject instead of an elective paper.
  - 4) Biology should be replaced by biotechnology.

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V.K. Tripathi


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Lawrence

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- 5) Physics of Semiconductor devices should be as a main course
  - 6) Carbon Nanomaterials should be a separate main course
  - 7) MEMS/NEMS should be a main course
  - 8) Numerical Methods and Computational techniques may be incorporated as a main course.
  - 9) Instead of Introductory Quantum Mechanics, Quantum Mechanics for Nanodevices should be a main subject.
  - 10) Nanotechnology for Energy systems should be a core paper which should have nanotechnology applications in solar cell and photovoltaics
  - 11) Instead of Integrated M.Tech in Nanotechnology of duration five year, the course may be revised in the format of 4+2 years (B. Tech + M. Tech) considering the wide employability of the students.
  - 12) Liberal teaching should be encouraged and the students may be allowed to take courses in other streams.
  - 13) One entrepreneurship course should be introduced
  - 14) E-books should be purchased and made available to students and faculties.
  - 15) Centre Head would be a nominee for PhD Student.
  - 16) CRC Chairmanship should be same till the completion of PhD of an individual Student.
  - 17) In the CRC committee, an external member should be included from the area of the relevant research topic assigned to the PhD student
7. It was agreed by all that the various Laboratories specific to the nanotechnology should be established at the earliest
8. The committee highly appreciated the efforts undertaken by the centre for Nanotechnology in designing the course curriculum and the efforts of the faculty members towards all together development of academics in the centre.
9. The meeting ended with vote of thanks proposed by Dr. Lawrence Kumar.

  
Prof. R.K. Dey

  
Dr. J.N. Nayak,


  
Dr. G.P. Singh

  
Prof. Alok R. Ray


  
Dr. V.K. Tripathi

  
Dr. A.S. Bhattacharyya,

  
Prof. P.S. Mallick, 21/3/15

  
Mr. B.M. Jha,

  
Dr. Lawrence Kumar

  
(Prof. S. Medhekar)