

Minutes of Meeting of 5th Board of Studies Department of Physics

Central University of Jharkhand, Ranchi

Fifth meeting of Board of Studies of Department of Physics (DoP) was held on 18th Nov. 2020 from 2.00 pm onwards in online mode to discuss and accord different issues of the Department. Following members attended the meeting:

1	Dr. Dharmendra Singh, Head, DOP	Convener & Chairperson
2	Prof. Sugriva Nath Tiwari, DEAN, Faculty of Science, Deen Dayal Upadhyay Gorakhpur University,	Member
3	Dr. Dinesh Kumar Misra, Principal Scientist & Professor, AcSIR, Materials Physics & Engineering Division, CSIR- National Physical Laboratory	Member
4	Dr. Rajarshi Raut, Scientist-E UGC DAE, Consortium For Scientific Research (CSR), Kolkata Centre	Member
5	Prof. Sarang Medhekar, Professor, DoP	Member
6	Prof. Arun Kumar Padhy, Head, DoC& Dean, SNS	Member
7	Prof. Subhash Chandra Yadav, Head, DCS&T	Member
9	Dr. Manoj Kumar, Head, DLS	Member
8	Dr. Gajendra Prasad Singh, Head, DNST	Member
10	Dr. Jagmohan Tanti, DoM	Member
11	Dr. Bhupendra Singh, Asst. Professor, DoP	Member
12	Dr. Jayanta Kumar Baral, UGC FRP Asst. Prof. DoP	Member

Dr. Dharmendra Singh, Chairperson of the committee warmly welcomed the respected guests (External Experts) and members and Prof. Sarang Medhekar provided a decorous introduction of the external members to the board members.

Agenda-wise resolutions made in the meeting are as attached;

Reference no.	Agenda Items
	Confirmation of the minutes of the 4 th meeting of the Board of Studies held on 24.10.2019.
DoP/BOS: 2020/5/001	The board members also took a note on the minutes of the 4 th meeting of the Board of Studies held on 24.10.2019 and the action taken report read by the chairperson. The minutes and the action taken report were unanimously approved and confirmed by the committee.

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 Min. J. Baral, K. S., D. Singh 18/11/2020, S. G., J. Baral

DoP/BOS: 2020/5/002	Ph. D. Award to Mr. Alok Kumar (CUJ/P/2015/PHDAP/001) Committee noted the award of Ph. D. degree to Mr. Alok Kumar (CUJ/P/2015/PHDAP/001) and congratulated the candidate for his success.
DoP/BOS: 2020/5/003	Pre-Ph.D. thesis submission seminar and Ph.D. thesis submission of Mr. Pankaj Kumar Giri (CUJ/P/2014/PHDAP/003) Committee noted Pre-Ph.D. thesis submission seminar and Ph.D. thesis submission of Mr. Pankaj Kumar Giri (CUJ/P/2014/PHDAP/003). It was also noted that the examiners' reports are awaited.
DoP/BOS: 2020/5/004	Ph.D. Progress reports of Mr. Amritraj Mahato (CUJ/P/2016/PHDAP/002) Committee noted the progress reports of Mr. Amritraj Mahato (CUJ/P/2016/PHDAP/002) and ratified the recommendation of RAC for continuation of Mr. Amritraj Mahato in the Ph. D. Programme. Further, the committee ratified the Research Advisory Committee's remark that Mr. Mahato is sufficient in quality and quantity for Ph.D. thesis submission.
DoP/BOS: 2020/5/005	Revision in the Ph.D. thesis title of Mr. Amritraj Mahato (CUJ/P/2016/PHDAP/002) Research Advisory Committee (RAC) for Mr. Amritraj Mahato recommended a slight revision in the title of Ph.D. thesis in the light of the work done by the candidate. The minutes of RAC were placed before the Board of Studies (BOS) of Department of Physics for approval. Board members ratified the change of the thesis title as recommendation by the RAC.
DoP/BOS: 2020/5/006	List of external experts for PhD thesis evaluation of Mr. Amritraj Mahato (CUJ/P/2016/PHDAP/002). As per the resolution DoP/BOS: 2019/4/010, a list of external experts for PhD thesis evaluation of Mr. Amritraj Mahato (CUJ/P/2016/PHDAP/002) was placed before Research Advisory Committee (RAC) of Mr. Amritraj Mahato and the list approved by the RAC was sent to the external members of the Board of studies through e-mail for their perusal and consent. External members have conveyed the consent on the list of external experts for PhD thesis evaluation of Mr. Amritraj Mahato (CUJ/P/2016/PHDAP/002).
DoP/BOS: 2020/5/007	Ph.D. Progress reports of Mr. Manohar Lal (19160201002) Committee noted satisfactory progress reports of Mr. Manohar Lal (19160201002)
DoP/BOS: 2020/5/008	Ph.D. Progress reports of Mr. Nilaksha Ghosh (19160201003) Committee noted satisfactory progress reports of Mr. Nilaksha Ghosh (19160201003)
DoP/BOS: 2020/5/009	Ph.D. Progress reports of Mr. Nitin Sharma (19160201004) Committee noted satisfactory progress reports of Mr. Nitin Sharma (19160201004)
DoP/BOS: 2020/5/010	Ph.D. Progress reports of Ms. Pooja Sharma (19160201005) Committee noted satisfactory progress reports of Ms. Pooja Sharma (19160201005)
DoP/BOS:	Ph.D. course work examination-2020 of Mr. Nitin Sharma, Mr. Manohar Lal, Mr.

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2020/5/011	<p>Nilaksha Ghosh, Ms. Pooja Sharma, Mr. Rohitash Upadhyay</p> <p>Committee members noted smooth conduction of Ph.D. course work examination-2020 of Ph D candidates of the department through online mode during Covid-19 and noted that the results are awaited.</p>
DoP/BOS: 2020/5/012	<p>Extension of UGC-DAE- CSR Kolkata Centre Project for next one Year 2020-21</p> <p>Committee noted the extension of UGC-DAE- CSR Kolkata Centre Project (Ref. No. UGC-DAE-C SR-KC/CRS/ 1 9A.IP 1 6 I 0927 Dated 10th May 2019) for next one Year 2020-21 and congratulated the project investigator Dr. Dharmendra Singh in this regard.</p>
DoP/BOS: 2020/5/013	<p>Conduction of Project Viva-Voice through online mode of 5 Years Integrated M.Sc. in Applied Physics (10th Semester) and 2 Years M.Sc. in Physics (4th Semester)</p> <p>Committee noted successful conduction of Project Viva-Voice through online mode of 5 Integrated M.Sc. in Applied Physics (10th Semester) and 2 Years M.Sc. in Physics (4th Semester) and noted that the results of the mentioned examinations are awaited.</p>
DoP/BOS: 2020/5/014	<p>Learning Outcomes based Curriculum Framework (LOCF) for M.Sc. in Physics Programme</p> <p>It was brought to the notice of the members that revision in the syllabus of M. Sc. (Physics) is under preparation. Board members advised that course structure for 2 years M.Sc. in Physics programme may be revised as per new National Education Policy (NEP) and Learning Outcomes based Curriculum Framework (LOCF). Each paper of the syllabus may contain its objective. It was also consented that MOOCS course be included in each semester of the course except the first semester. Guidance of Prof R K Dey, Professor of chemistry (acting vice-chancellor at presented) and Prof A K Padhy, Dean, SNS may be sought in this regard.</p> <p>The prepared draft syllabus may then be sent to external members through e-mails to sought advice and/or consent.</p>
DoP/BOS: 2020/5/015	<p>Proposal of inclusion of courses (i) Physics in Biology (ii) BIOPHYSICS</p> <p>Members perused the courses proposed by Prof Sarang Medhekar. It was resolved that the course may be incorporated in the M. Sc. (Physics) Course as elective/special papers. Department may also consider these courses to be offered as MOOCS courses.</p>
DoP/BOS: 2020/5/016	<p>Initiation of Learning Outcomes based Curriculum Framework (LOCF) for Four Year B.Sc. Programme as per New Education Policy</p> <p>It was resolved that course structure for four years B.Sc. programme may be developed as per the new National Education Policy (NEP). This course structure may follow the guidelines of Learning Outcomes based Curriculum Framework (LOCF). Once prepared, the draft may be sent through emails to the external board members to sought their advice and/or consent.</p>
DoP/BOS: 2020/5/017	<p>Development of Laboratories</p> <p>Chairman presented a proposal on the development of the laboratories of the</p>

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	<p>department which was thoroughly discussed by the board members. All members were agreed and emphasized setting-up of new laboratories for M.Sc. course (of different specializations being offered by the department). Members also emphasized the modernization of exiting laboratories. It was resolved to recommend one computer laboratory with (i) at least 20 computers and (ii) two work-stations for the experimental data analysis and project work of M.Sc. students. Dr. Rajarshi Raut (external member) advised that the computer laboratory may also have LINUX based computing facility. Committee recommended below mentioned manpower for functioning of the computer laboratory.</p> <ul style="list-style-type: none"> • Scientific officer – 01 • Software engineer or computer operator – 01 <p>The above mentioned staff must have physics and mathematics background along with adequate qualification in the computer field.</p> <p>Further, it was resolved that research laboratories may also be developed with different specialization i.e. (i) Photonics & Nanophotonics (ii) experimental nuclear physics, (iii) High energy physics/space physics (iv) Condensed matter physics. Apart from the financial help from the University, department may try to bring findings from other Govt. funding agencies.</p>
<p>DoP/BOS: 2020/5/018</p>	<p>Requirement of Faculty and Staff in the Department</p> <p>Chairman presented a proposal on requirement of additional faculty and staff in light of (i) implementation of the new National Education Policy (NEP) and initiation of four years B.Sc. programme and (ii) Revision of M. Sc. programme inline of LOCF and NEP which is as mentioned below;</p> <ul style="list-style-type: none"> • 02 Professors + 04 Associate Professors + 08 Assistant Professors • 04 Technical assistant + 04 Laboratory assistant + 04 Laboratory attendant + 01 Electrical and Electronics Engineer + 01 Mechanical Engineer. Technical assistant, Laboratory assistant and Laboratory attendant will assist faculty members and help students during their laboratory classes. They will also carry out regular check-up and maintenance of laboratory equipment and record. The electrical and electronics engineer will do testing, installation and maintenance of electronics and electrical equipment. They will also help in designing and development of electrical and electronics part of new experimental systems. The mechanical engineer will help in the installation and testing of mechanical part of (i) detection systems (e.g., High Purity Germanium Detectors setups/Clover detector setup etc.), (ii) neutron generator, (iii) vacuum chambers, (iv) vacuum pumps, (v) design and develop of new detections systems and maintenance of the different laboratory equipments. Procurement of these systems is to be made in view of laboratory development plan of the department. <p>The Chairman also presented proposal on requirement of staff for the development of Departmental Library</p> <ul style="list-style-type: none"> • 04 Staff: Staffs will provide customer services for library users and will look after checkout, maintenance and replacing of book and

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	<p>procurement of new reading materials etc. for the Departmental library.</p> <p>In-charge of the Department Library will be a Faculty member of the Department.</p> <p>Further, requirement of staff for the office of the Head of Department was proposed as under;</p> <ul style="list-style-type: none"> 01 accountant for 'departmental financial matters + 01 Lower Divisional Clerk + 01 draftman + 02 Assistant <p>The above-mentioned staffs members will maintain the record of the department, financial matters and other miscellaneous clerical and other jobs for day to day functioning of the department.</p> <p>After thorough discussion, committee members consented on the additional faculty and staff as mentioned above.</p>
DoP/BOS: 2020/5/019	<p>Appointments of Faculty Members</p> <p>Committee noted appointment of the Dr. Dharmendra Singh as Associate Professor and Dr. Bhupendra Singh as Assistant Professor in the Department. Committee also noted the handing over of charge of Head of the Department by Prof. Sarang Medhekar to Dr. Dharmendra Singh on 1st July 2020.</p>
DoP/BOS: 2020/5/020	<p>Procurement of Laboratory Equipment Through Gem Portal</p> <p>Committee noted the procurement of laboratory equipment from the GEM portal amounting around 9.5 lakhs for the development of laboratories. The equipment includes (i) Dielectric Constant determination Kit, (ii) two stages RC coupled amplifier, (iii) Energy Band gap measurement using four probe method, (iv) Newton Ring setup, (v) Planck's Constant Apparatus, (vi) Resolving Power of Telescope, (vii) Computers, (viii) Oscilloscope, (ix) Characteristics of RTD & (x) Thermister etc.</p> <p>Untiring efforts made by Dr Dharmendra Singh, Head, DoP and Dr. Vineet Kumar Agotiya, Asst. Prof. DoP to realize the procurement were highly appreciated by the members.</p> <p>Members also appreciated and expressed thankfulness to Prof. R K Dey (Acting Vice chancellor) for taking decision on procurement of laboratory items in the University through GEM portal and allotment of funds to all departments of the university.</p>
DoP/BOS: 2020/5/021	<p>Procurement of books and Establishment of Departmental Library</p> <p>A list of book was placed before the committee members for perusal and consent of procurement by the library. External member Dr Rajarshi Raut (external member) suggested inclusion of some important books in the list. Committee consented on the list of books with inclusion of books suggested by Dr Raut (external member).</p> <p>Further, committee emphasized the establishment of Departmental Library and advised that, once the departmental library is established, the mentioned books with other books may be kept in the departmental library.</p>

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DoP/BOS: 2020/5/022	<p>Initiation of M. Tech. program.</p> <p>Proposal of initiation of M.Tech. programs in the thrust areas like (i) Optics and Nanophotonics (ii) Nuclear Technology (iii) Laser technology (iv) Space technology, (v) Material Technology, (vi) high energy physics technology was placed before the committee members for consideration.</p> <p>The proposal was appreciated and approved in principle. It was advised by the committee members that syllabi should be prepared in accordance with UGC/AICTE guidelines. It was resolved that syllabus of Nanophotonics, once prepared, may be sent to Dr G P Singh, Head, DSNT for his perusal and suggestions.</p>
DoP/BOS: 2020/5/023	<p>Conduction of online FDP or lecture series or National / International Webinar</p> <p>Committee welcomed the proposal of conduction of online FDP or lecture series or National / International Webinar in the department. It was resolved that such programs may be held under the supervision/directions of the head of the department. Further, the head of the department may take efforts in time to time conduction of online FDP or lecture series or National / International Webinar. Dr S C Yadav suggested that department may consider to apply for ATAL FDP program.</p>

The meeting concluded with a vote of thanks was proposed by Prof. A K Padhy, Dean, SNS.

Prof. Prof. Sugriva
Nath Tiwari

Prof. Sarang Medhekar

Dr. Manoj Kumar

Dr. Bhupendra Singh

Dr. Dinesh Kumar Misra

Prof Arun Kumar Padhy

Dr. Gajendra Prasad
Singh

Dr. Dharmendra Singh

Dr. Rajarshi Raut

Prof. Subhash Chandra Yadav

Dr. Jagmohan Tanti

Dr. Jayanta Kumar Baral