

MINUTES OF MEETING OF THE 1ST BOARD OF STUDIES (of 2nd Constitute Board) OF THE DEPARTMENT OF CHEMISTRY, CENTRAL UNIVERSITY OF JHARKHAND HELD ON 7th September 2018

A meeting of the 1st Board of Studies (of 2nd constitute Board) was held on 7th September 2018 at Central University of Jharkhand at 11:30 a.m. Following members were present:

Dr. **Patan** Kumar Dey – Prof. & Head, Dept of Chemistry, Convener and Chairperson (ex-officio), CUJ

Dr. **R.** K. Patel, Professor, Dept of Chemistry, NIT, Rourkela, External Expert member

Dr. **Usha** Jha, Professor, Dept of Chemistry, BIT, Mesra, External expert member

Dr. Manoj Kumar, Professor, Head/Dean, Dept of Environmental Studies, Prof.i/c, Acad. CUJ, Nominated member

Dr. Manoj Kumar, Associate Prof., Head, Dept of Life Sciences, CUJ, member

Dr. Prabhudev Kurle, Controller of Exam., CUJ, Invited member

Dr. G.P.Singh, Associate Prof. & Head, Dept of Nanotechnology, CUJ, Nominated member

Dr. **Ran** Kumar Padhi, Associate Prof., Dept. of Chemistry, Member, Dept of Chemistry, CUJ

Dr. **Dharmendra** Singh, Asst. Prof.(II), Dept. of Physics, Nominated member

Dr. **Ratnesh** Viswakesan, Associate Prof., Dean, School of Language, invited member

(Following external members, nominated members and members expressed their regret due to some other exigency:

1. Dr. Balaram Patro, Ext. member
Dr. S.C.Yadav, Head, Dept of Computer Sci., nominated member, CUJ
2. Dr. P.K.Parida, Dept of Mathematics, CUJ, nominated member
3. Dr. Soumen Dey, Dept of Chemistry, CUJ, member

Following deliberations have been made and appropriate decisions have been taken wherever required as described below:

1. Professor R. K. Dey, Convener and Chairperson (ex-officio) Board of Studies graciously welcomed all members to the 1st Meeting of the Board of Studies. He conveyed the message of Hon'ble Vice Chancellor, Prof. N.K.Yadav, "Indu" for presence of all board members and wish the meeting all successful for academic decisions that can be helpful for academic progress of the Department as well as the University.

Ratnesh Viswakesan

7-9-18
Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205

1

2. The convenor made introduction of all esteemed board members (external as well as internal expert members), while acknowledging kind cooperation and their active presence in the meeting.

3. Appraisal of the Ordinance of the University was made by Professor R. K. Dey, emphasizing that the Board of Studies, which was constituted as per the Ordinance (O.A. 7) would continue for a term of 3 years and shall function as per the guidelines of university ordinance.

4. The minutes of the previous board of studies conducted on 16.01.2017 was presented before the committee. It is conveyed by the chairperson that the minutes were circulated earlier and since no further comments were received, it is presented to the board members for confirmation:

Resolution: The Minute is confirmed.

5. The Head appraise the committee regarding renaming the Centre for Applied Chemistry as "Department of Chemistry" as per CUJ notification CUJ/Regulation/04/2010/353/Dt. 19 July, 2018.

Resolution: The renaming of the Center for Applied Chemistry as Department of Chemistry is confirmed.

6) The undergraduate syllabus (from 1st – 10th Semester) was presented to the Board. The highlights of the discussion made were –

i) It is understood that at present, as per the decision of the university, admission to 5 year course has been discontinued.

ii) However, for such chemistry courses in which students has already been admitted, continuation of all such chemistry courses with the approved course structure and syllabi along with regular sessional and end semester examination are being conducted smoothly as per university procedure. It is also appraised that the same projects will continue till all the students get passed/cleared their assigned papers/require credit to complete the degree requirement.

iii) It is suggested that the following two papers i.e.

- 1. Unit operation in chemical industry
- 2. Pollution control and industrial waste management

which is being currently taught in 10th semester is proposed to be dropped in order to give more opportunity to the students to do project work and research assignment fully. The project and dissertation may be **revised to 20 credits** instead of current 16 credits.

Rabin Kumar



Dey
Ryhe

Murty

3-9-18
Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205



Resolution: The proposal of delete/dropping of two courses i.e., "Unit operation in chemical industry" and "Pollution control and industrial waste management" is recommended for acceptance for 2014 batch and all subsequent batch of 5 year integrated courses in which currently teaching is continuing in order to facilitate quality research and project work by the students. It is also resolute that in view of current infrastructural limitations, students may be allowed to opt for external co-guides/co-supervisors for enhancing the multi-disciplinary nature of project/research work. It is also resolute that the Head of the centre and faculty members committee may decide the project work/research work as per available expertise and infrastructure facility of CUJ and institution/university/college opted for project work/research work. It must be noted that one of the supervisors/guides may be from the Department of Chemistry. Students need to consult the assigned guide/supervisor and needful approval may be obtained as per procedure as applicable/rule of the university for conducting research work at other university/institutions under collaborative research work. It is also suggested that MoU (memorandum of understanding) may also be made/encouraged in future with institution/universities of repute (nationally/internationally) so that faculty/students can get an opportunity for exchange programmes. **Such kind of collaboration/collaborative research works/project work may also be considered for 2 year M.Sc.Chemistry courses for the benefit of students as well as faculty members.**

Apart from the above, no other changes is sought for course structure and syllabi of 5 year integrated course. It is suggested that the 5 year Integrated M. Sc. Course should discourage Lateral Entry as well as exit of students after 6th semester in order to enhance the objectivity of integrated course curriculum. **In addition, all existing syllabus and minor revisions made in the syllabi and its course content for the ongoing 2010-15, 2011-16, 2012-17, 2013-18 and 2014-19 courses is also approved by the all members.**

7) Dr. A. K. Padhy, Associate Professor, Department of Chemistry, presented the postgraduate syllabus M.Sc. (2 years) course structure which started in the year 2016-17:

The course content was fully discussed by all members. Following discussion was made:

an expert member Prof.R.K.Patel suggested to incorporate the appropriate names of various course papers as per the course content (example of which can be seen from courses run by NITs, IITs, IISc and other central universities) in order to make course papers more industry oriented and research oriented in nature. The examples of such course design may be taken from existing NITs, IITs i.e, for example, the Physical Chemistry-I paper may be appropriately renamed as "Chemical Kinetics and

Ratn...
DM
gyl
hmy
Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205
ACD
M.P.
3

The dynamics" which caters more to the need of designed course content. More such scrutinization of existing papers may also be made.

b. Dr. D. Singh suggested to maintain preferably uniform credits for all semesters.

c. All members suggested to keep the laboratory credit point as 2 (two) in the light of existing procedure.

d. Each course content/syllabi must be accompanied by appropriate references (updated one) and it is suggested that text books/recommended books for reading and references must be separated appropriately. At least two/three books must be indicated as text books in each section.

e. It is suggested to enhance the credit of project work to 20.

Resolution: It is resolute that the recommendation of the Board members may be implemented to the extent possible. Head of the Department may discuss with faculty members and accordingly suggestions may be incorporated as per need of the existing syllabi. **The committee also noted the suggestion for incorporation of foreign language course in the syllabi.** It is praise worthy considering the necessities of educating the students for higher research in foreign countries. The Dean of the School of Language was also consulted who is presented as invited member. Initially, Korean Language course and Chinese language course may be provided for which teaching facility is currently available in CUJ. However, in future, more such language courses may be incorporated depending on available facilities and arrangements.

In this connection, **The MOOCs (Massive Online Open Courses) as per the UGC, New Delhi, was also discussed** and it is resolute that the **Head and Faculty members may urgently take all needful steps as per the guidelines mentioned in MOOCs and as per the decisions taken by the University in this regard.** The details of courses provided for MOOCs by the Department may be presented to the Board in its next meeting for approval/post-facto approval, as the case may be.

It is also resolute that the **REVISED/NEW syllabi (incorporating Foreign Language courses, MOOCs, etc.) may be considered for fresh admission batch, i.e. 2019 – 2021 and onwards only.**

The committee also **approves all ongoing syllabi of 2 year M.Sc. (Chemistry) for 2017 - 2019 batch and 2018 – 2020 batch.**

The committee appreciated the initiatives.

Rajendra Sen
Dr. D. Singh
Dr. J. K. Singh

Amr
7-9-18
Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205

Dr. J. K. Singh
Dr. J. K. Singh

8) **The syllabus for Ph. D. Coursework and its content** was presented to the Board members. The discussion and resolution are as follows:

i) It is discussed that the Ph. D. curriculum has been designed in such manner that it would reflect the area of expertise of each faculty member, so that the research scholars get benefit from the specialized course.

ii) Apart from compulsory two courses i.e., Research Methodology (4 credits) and Instrumental method for Characterization (2 credits), research scholars may be permitted to opt for two more courses (4 credits each) from existing courses of 7 to 10th semesters in consultation with Head, faculty members and/or RAC/DRC. A list of such courses were examined and found appropriate as course work for PhD.

iii) Recent books in the subject may be referred for Research Methodology Course. Also certain websites can be included which can provide these resource materials.

iv) It is advised that the course content revision for PhD students may be done by faculty committee from time to time in order to incorporate recent advancement in the courses.

v) More electives are to be floated depending on the need of the students and availability of faculty members.

vi) The committee approves the ongoing syllabi and its content of Ph.D course work.

Resolution: All discussions and suggestions are accepted for implementation. Heads of the Centre/Department and faculty members may adopt appropriate flexibility and updated syllabi/course content from time to time to remain at par with scientific development world wide.

9) **The Doctoral Committee for various Ph. D. students was examined and unanimously recommended for approval by all members.** It was however pointed out in general that the topic of research is to be generic while the title of the thesis should be stated at least 6 months before submission and the approval to be made through appropriate bodies/procedure

10) **The committee recommends and approves the list of Ph.D. students and their supervisors and topic of research for all students enrolled in the year 2013-14, 2014-15, 2015-2016, 2016-17. The RAC/DRC formation is also approved.** The inclusion of Dr.R.Bal, Sr.Scientist, IIP, Dehradun, as co-supervisor of Ms.Subhashree Mishra (Ph.D. admission CUJ/P/2016/PHD/CAC/002) as per the clause OA-9 of the ordinance and as per MoU with IIP was discussed with reference to the experience and subject specialization and research contribution in the topic concerned and the committee recommends the inclusion of external guide and hence approves the same. It is also noted that Dr.R.K.Dey, Dept of Chemistry is the supervisor of the concerned student and the topic of research is interdisciplinary in nature.

Ratneswar

Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205

11. The committee noted the RAC/DRC recommendation for following PhD students:

i. Ms. Soumili Daripa, (CUJ/P/2016/PHD/CAC/001) – regarding her resignation from doing PhD in CUJ.

ii. Ms. Roshni Kumari (CUJ/P/2015/PHD/CAC/001) – regarding her request for temporary withdrawal.

iii. Ms. Rekha Kumari (CUJ/P/2015/PhD/CAC/003) – regarding her cancellation of PhD due to irregularity in attendance and conducting PhD.

iv. Ms. Koomkoom Khawas (CUJ/P/2015/PHD/CAC/002) – regarding the allotment of new guide (Dr.R.K.Dey) and Co-Guide (Dr.Biplab Kuila, Associate Prof., Dept of Chemistry, BHU) as per the rule due to relieving of Dr.B.K.Kuila, former Asst.Prof. of Centre for Applied Chemistry and regarding recommendation for pre-submission seminar.

The Board members noted all steps taken by the RAC/DRC members and hence unanimously approve the recommendation of RAC/DRC which is as per procedure.

Further, Board members also approved all the minutes of meeting of RAC/DRC for existing PhD students.

Board also noted award/submission of PhD theses of all 2013 batch admitted scholars. Board members highly appreciated the steps taken by the Department to encourage PhD.

Further, Board members also recommended to enhance the number of PhD admission in the Department by conducting PhD entrance test at least two times a year. This will be helpful in enhancing Research Activities required for the Department.

It is also suggested that external candidates/scholars who cleared NET/JRF and received fellowship from Govt and other sources for carrying out PhD may be given chance throughout the year for joining Ph.D programme. However, they may be given chances to clear course work within a period of 1 year or 2 years as per RAC/DRC recommendation.

It is also suggested to enhance PHD registration from industry by incorporating suitable provisions (such as Memorandum of Understanding, incorporating suitable provision in PhD regulation) so that industrial participation may be increased. However, care may be taken to adhere to quality research work in consonance with UGC regulation/advice from time to time.

Rakesh V. Sen
Prof. & Head
Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205

ACD
MSD
AS

6


It is also suggested to attract Postdoctoral fellows and MoU with Indian and foreign universities to enhance the quality of interdisciplinary research work. It is also understood that MoU with the Dept of Chemistry, Annamalai University has been proposed by Prof. Sasmita Dash of Annamalai University, Tambram.. It is highly praiseworthy to finalize such process after due procedure that can be helpful to both faculty and students in PhD /M.Sc. as well as academics.


11. The Board of studies member examined and approved the list of examiners of Ms. Koonkoom Khawas presented in sealed cover by the Head of the Department.

12) The board members extensively discussed about semester examinations currently conducted by the university. It has been unanimously decided that faculty members from Institutes of National Importance such as IITs and NITs, Central and State Universities be considered and included as examiners for question paper setting, answer script evaluation, Ph.D. Examiner, etc. As such the committee noted various practical examination conducted from time to time by Department in presence of external examiners from various universities and institutes of repute with the approval of authorities.

13. The committee discussed about the introduction of **integrated PhD course** (5 year MSc and 3 year PhD) and agreed to the proposal. It is suggested that students may be inducted at M.Sc. through entrance and student can further pursue PhD without appearing separate PhD entrance in the same university. The Head of the Department is asked to put up the matter at Board of School and Academic Council and other approving authorities, as applicable, for approval and once approval is obtained, the same may be implemented in due course or may be from 2019 admission at the earliest.

14. The committee discussed the list of various vocational courses proposed to be conducted by the Department. The committee noted that all such courses are in line with suggestion made by UGC, New Delhi, regarding implementation of vocational courses by universities. It is suggested to form a committee of faculty members with external expert members from allied Departments of CUJ and expert members from nearby Industry, institution of repute and hence to finalize an appropriate course content, student strength desired for admission, course fees, etc. Department may seek help from fund initially from University or external funding agency like UGC, DST or appropriate funding agency of Govt India to procure some basic facility/instruments needed for such courses. Additional faculty members, infrastructural facilities may also be sought from appropriate bodies/university for this purpose. The committee praise the initiation taken up by the Department.


Rajiv Kumar


Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205






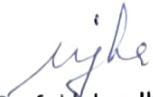






15. The committee highly appreciate the efforts undertaken by the Department of Chemistry in designing the course curriculum and the efforts of faculty members towards all-together development of academics in the Centre.


16) The meeting ended with vote of thanks proposed by Professor Manoj Kumar.



Prof. R. K. Patel
NIT, Rourkela



Prof. Usha Jha,
BIT, Mesra



Prof. Manoj Kumar,
EVS, CUJ

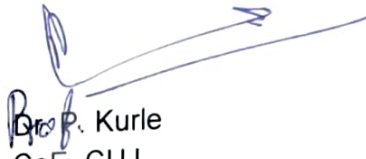

Dr. Manoj Kumar
Life Sci, CUJ



Dr. G.P. Singh
Nanotech, CUJ


Dr. A.K. Padhi,
Chemistry, CUJ


Dr. D Singh
Physics, CUJ


Dr. Ratnesh Viswakesan,
Language studies, CUJ


Prof. P. Kurle
CoE, CUJ


Prof. R.K. Dey, 7-9-18
Head, Chemistry
Professor & Head
Centre for Applied Chemistry
Central University of Jharkhand
Brambe, Ranchi - 835205

