

Department of Pharmaceutical Sciences & Natural Products

Date: 14/05/2018

Subject:-Minutes of the sixth meeting of Board of Studies, Department of Pharmaceutical Sciences and Natural Products

The sixth meeting of Board of Studies (BOS) with respect to the following agenda was held on May 14, 2018 in the Department of Pharmaceutical Sciences and Natural Products:

1. To revise the syllabi of M.Sc. course according to latest IQAC guidelines for the session 2018 – 2019.
2. To discuss about complete/partial adoption of Pharmacy Council of India (PCI) recommended curriculum, syllabi and examination pattern for M. Pharm. courses.
3. Any other, if required.

The following members were present in the BOS meeting:

1. Prof. Sanjay Jachak, Head, Department of Natural Product, National Institute of Pharmaceutical Sciences & Research
2. Prof. P. Ramarao, Dean Academic Affairs (Professor)
3. Dr. Raj Kumar, Associate Professor & Head, PSNP
4. Dr. Vinod Kumar, Assistant Professor, PSNP
5. Dr. Vikas Jaitak, Assistant Professor, PSNP
6. Er. Meenakshi Mittal, Assistant Professor, Department of Computer Sciences & Technology
7. Dr. Sandeep Singh, Assistant Professor, Department of Human Genetics and Molecular Medicine
8. Dr. Rakesh Kumar, Assistant Professor, Department of Chemical Sciences
9. Mr. Gaurav Joshi, Co-opted Member of the Department-PSNP

The BoS discussed and unanimously resolved that all the syllabi have been finalized keeping in consideration of IQAC (Annexure 1) /PCI (Annexure II) guidelines related to CBCS and others. After thorough discussion, the BOS recommended as under:

Agenda Item No.1: To revise the syllabi of M.Sc. course according to latest IQAC guidelines for the session 2018 – 2019.

- **Resolution:**
- The courses in the syllabus are re-classified as per the instructions of IQAC, CUPB.
- Course codes have been kept as it is as per university Examination guidelines.
- Advanced Spectral Analysis (CMC.526), has been added in Semester II.
- The course (CMC.505) (Semester 1) has been revised to include spectrofluorimetry, flame emission spectroscopy, atomic absorption spectroscopy, electrophoresis, X-ray crystallography, Immunological assays, potentiometric and thermal techniques.
- Research Methodology (CMC.502) has been added in semester III.

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- Skill based elective courses (14 Cr.) were kept in Semester-II and Semester IV. These include: Credit Seminar-I (1 Cr.), Project Work (12 Cr.) and Credit Seminar-II (Presentation Skills; 1 Cr.).
- A 4 credit elective MOOC course has been added in Semester-IV.
- Elective Foundation/Value based courses (1 Cr. each) were introduced in Semester-II and Semester-III.
- Total credit for Project Work has now been reduced from 20 Cr. to 12 Cr. in Sem-IV.
- DEC-I and DEC-II courses (2 Cr. Each) are included in semester- III and IV. DE is to enrich student domain/knowledge which will help them in employment.
- The curriculum has been designed by keeping in view of the syllabi of Institutes/Universities of National and International repute and may be utilized for various competitive exams as well as it will enhance employability of the students in academia as well as industry.

Item No. 2: To discuss about complete/partial adoption of PCI recommended curriculum, syllabi and examination pattern for M.Pharm. courses.

- **Resolution:** IQAC of CUPB issued the guidelines (Annexure-I) for masters' programs and recommended that those courses which are being regulated by National Regulatory Bodies need to follow their guidelines and requirements w.r.t curriculum and credits. **M.Pharm. programs are being regulated at National level by Pharmacy Council of India (PCI). PCI has recommended prescribed curriculum, credits, course codes, syllabi and examination/evaluation pattern for M.Pharm. courses (Annexure II) vide Gazette of India No. 362, dated June 1, 2017. PCI through notification Ref no. 14-136/2016-PCI/13921-15179 (Annexure III) instructed all the universities and colleges to comply with the prescribed curriculum, credits, course codes, syllabi and examination/evaluation pattern for M.Pharm. courses failing which approval of the courses may be cancelled. Further, committee went through the syllabi of M. Pharm courses run by some institutions such as UIPS, Panjab University, Chandigarh, Delhi Pharmaceutical Sciences and Research University (DPSRU) Delhi, Guru Nanak Dev University (GNDU), Maharaja Ranjit Singh Punjab Technical University (MRSPTU) and found that these institutions were following the curriculum, credits, course codes, syllabi and examination/evaluation pattern for M.Pharm. courses 100% as prescribed by PCI. The committee was informed about the recent PCI inspection held for the approval of M.Pharm. courses in Medicinal Chemistry and Pharmacognosy and Phytochemistry. The PCI final decision on the approved intake is under process. Keeping in view of the above, committee recommends that curriculum, credits, course codes, syllabi and examination/evaluation pattern may be adopted as such prescribed by PCI for M.Pharm. courses (copy enclosed, Annexure IV) w.e.f batch 2018-19 onwards. However apart from PCI compliance, few additional courses pertaining to Pharma Industry perspectives may be introduced so as to**

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S. J. Talwar

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expose students to current trends in research and development of pharmaceuticals.

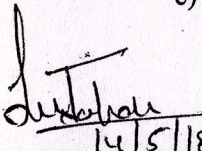
The suggested courses are as under:

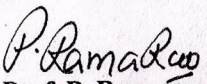
1. Pharmacological screening and Regulatory toxicology of 4 credits to be offered in Semester-III.
2. ID courses of 2 credits related to Environmental Sciences to be taken in semester -1, offered by EVST department.
3. Another ID course, 2-credits related to Safety (Chemical, Biological and Radiation) to be offered in Semester II and the course content may be adopted from NIPER, SAS Nagar.
4. In course, Modern Pharmaceutical Analytical Techniques, BOS recommends to include following topics:
 - i) Pharmaceutical Quality by design, qualitative and quantitative analysis of drugs and pharmaceuticals including impurity profiling in Active Pharmaceutical Ingredients (APIs) as per regulatory requirements, ICH guidelines for analysis of drugs and pharmaceuticals.

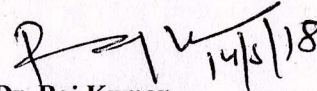
Item No. 3: Any other, if required.

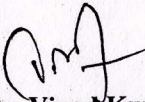
BOS recommends:

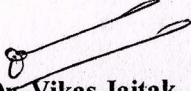
- a) To initiate MOU with Government aided research institutes and pharma industry.
- b) To formulate guidelines for industry sponsored projects to PhD. students and summer/winter training to M.Sc./M.Pharm students
- c) Visit to Pharma Industry/Public Research Institutes so as to get exposure to recent trends in Pharmaceuticals.

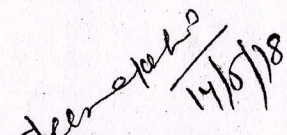

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Prof. Sanjay Jachak,
Head, Department of Natural Product, National Institute of Pharmaceutical Sciences & Research

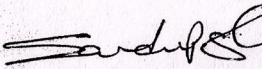

Prof. P. Ramarao, Dean Academic Affairs (Professor), CUPB

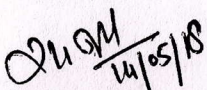

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Dr. Raj Kumar,
Associate Professor and Head PSNP, CUPB

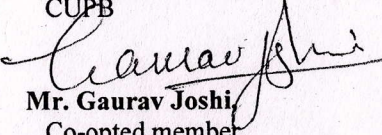

Dr. Vinod Kumar
Assistant Professor, CUPB


Dr. Vikas Jaitak,
Assistant Professor, CUPB


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Er. Meenakshi Mittal,
Assistant Professor,
Department of Computer Sciences & Technology, CUPB


Dr. Sandeep Singh,
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Dr. Rakesh Kumar
Assistant Professor, Chemical Sciences, CUPB


Mr. Gaurav Joshi,
Co-opted member PSNP, CUPB