

Change of Course Structure:

**Minutes of the Meeting of 8<sup>th</sup> Board of Studies and Research (BSR) meeting of NIPER, SAS Nagar held at 03.00 p.m. on 20<sup>th</sup> June 2017 in the Board room, Convention Centre, NIPER, S.A.S. Nagar**

**Members present:**

Prof. Prasad V. Bharatam	Dean, NIPER (Chairman)
Prof. Anand Bachhawat	IISER, Mohali
Prof. Bhupinder Singh Bhoop	PU, Chandigarh
Dr. R. Kishore, Scientist	IMTECH, Chandigarh (Retired)
Prof. Saranjit Singh	Head, Department of Pharmaceutical Analysis, NIPER
Prof. U.C. Banerjee	Head, Department of Pharm. Tech., NIPER (also acting Head, Dept. Biotech.)
Prof. A.K. Chakraborti	Head, Department of Medicinal Chemistry, NIPER
Prof. A.K. Bansal	Head, Department of Pharmaceutics, NIPER
Prof. Pramli Tiwari	Head, Department of Pharmacy Practice, NIPER
Prof. Anand Sharma	Head, Department of Pharmaceutical Management, NIPER
Prof. Sanjay Jachak	Head, Natural Products
Prof. S.S. Sharma	Representative of Department of Pharmacology and Toxicology (Spl. Invitee)
Prof. Prabha Garg	Representative of Pharmacoinformatics Department (Spl. Invitee)
Ms. Bhuvan Gautam	Secretary, Acting Deputy Registrar ( Acad. & Exam.)

The agenda of the 8<sup>th</sup> BSR meeting and NIPER course structure was placed on the table of every member present.

Prof. Bharatam, welcomed all the members. Prof. Saranjit Singh (Acting Director on the day of meeting) thanked all the members for joining the meeting. He explained that most of the agenda items originated from the DAAC meetings of the 10 departments of NIPER. The minutes of the DAAC meeting of the 10 departments were placed as annexures along with the agenda.

Ms. Gautam proposed the agenda items in a sequential order to the members (using a power point presentation).

**Minutes:**

8.1	To considered the recommendations of the Dean regarding extension for thesis submission i/r/o Mr. G. Kapil, Ph.D Scholars, Deptt. of Pharmacy Practice	Ratified
8.2	To consider the recommendations of three member senior professor committee regarding extension for thesis submission i/r/o Mr. Venkateshwara Rao Amara	Ratified
8.3	To consider the request for Joint Advisor for following students:-	Approved the appointment of a joint advisor for the Ph.D. thesis work of the following Ph.D. students :

	<p>Mr. Chandrasekhar Boya, PP  Ms. Ruchi Singhal, PP  Mr. G. Kapil, PP  Ms. Anjana Barola, PP  Mr. Rajiv Ahlawat, PP  Mr. Dillip K. Singh, PA  Mr. Ladumore Mayurbhal Kathadbhal, PA</p>	<p>Mr. R. Ahlawat Rg. No. 12PPP352  Ms. A. Barola Rg. No. 13PPP374  Mr. L.M. Kathadbhal Rg. No. 15PAP407  Mr. D.K. Singh Rg. No. 15PAP408  Mr. C. Boya Rg. No. 15PPP424  Ms. Ruchi Singhal Rg. No. 15PPP425</p> <p>Mr. G. Kapil (Rg. No. 12PPP351) has already submitted Ph.D. thesis. The members opined that any changes after submission of thesis are inappropriate.</p> <p>It was also discussed that, in future, the Chairman, BSR may take a decision in this context, for further ratification during the next meeting of BSR.</p>
8.4	<p>To consider the changes in Ph.D courses  MC-720 To be discontinued –Dr. Vipin Nair has left NIPER  MC-820 To be shifted to 1<sup>st</sup> semester from 2<sup>nd</sup> semester  MC-820 To be discontinued w.e.f. 2018-19 batch  PI-740 To be dropped as faculty moved to Pharmaceutics  PI-750 To be introduced as new course by Dr. Prabha Garg</p>	<p>After thorough discussion, it was found that these proposals shall not disturb the course structure of any other department and the proposed changes are necessary. All the proposed changes were approved.</p> <p>Prof. Bachhawat suggested that in the recommended books list of each course, the publisher name should be included. Preferably the version number and year of publication should also be included. Prof Bhoop advised that since the editions keep changing, it may not always be feasible likewise. Hence, a mention of "Latest edition of..." could be the best recourse, in tune with the syllabi proposed by PCI and most educational institutes.</p> <p>He also suggested that when a change happens in any course, the new course should not carry a code number which was already allocated to a different course, even if the old course is not being offered anymore. All the members agreed to this suggestion of having a unique subject code (s), after considering the merits of these suggestions.</p> <p>Prof. Bhoop suggested that a few changes are required in the course PI-750, which was agreed by Prof. Garg, who proposed this course. Annexure I contains the latest version of the syllabus of PI-750 course.</p>
8.5	To consider changes in MS Courses	
8.5.1	<p><b>Pharmaceutics Department</b>  PE-510 Preformulation 1  PE-530 Preformulation 2  MC-510 To be dropped</p>	<p>Prof. A.K. Bansal, Head, Department of Pharmaceutics presented the proposal that originated from the DAAC of his department. After thread bear deliberations, the committee suggested</p>

	<p>PT-580 Also to be offered to the students of PE</p> <p>PE-620 &amp; PE-650 Major reconstruction required</p> <p>PE-630 Merger with PE-510 &amp; to PE-640</p> <p>PE-640 Merger of some portion to PE-630</p> <p>Rearranging in Part I &amp; Part II</p> <p>PE-660 Inclusion of new contents</p> <p>PA-630 Also to be offered to PE students</p>	<p>a few changes. All the suggestions were accepted by the Board. A modified list of changes is attached as Annexure II.</p> <p>Prof. Saranjit Singh suggested that PT 580 number should be continued because this is the only course being offered during the 1<sup>st</sup> semester of the PTF (Formulations). It was decided that the PE 540 and PT 580 will be the two number associated with this course being offered by Prof. Bansal, until further arrangements.</p> <p>Prof. Bhoop suggested a few improvements in PE630 course with reference to QbD.</p>
8.5.2	<p><b>Medicinal Chemistry Department</b></p> <p>PC-540 To be replaced by PE-510</p> <p>PC-611 To be replaced by PE-660</p> <p>MC-510 &amp; MC-610 Small Changes</p>	<p>Prof. Chakraborti and Prof. Bharatam presented the proposal that originated from the DAAC of Department of Med. Chem. All the proposed changes were approved.</p>
8.5.3	<p><b>Pharmacoinformatics Department</b></p> <p>PI-520 Change in contents</p> <p>PI-530 To be dropped</p> <p>PI-620 Add components of PI-570</p> <p>PI-640 To be shifted to Semester 1 with new code PI-540</p> <p>PI-650 Change in contents</p> <p>PC-611 To be dropped</p> <p>PI-660 New course to be introduced</p> <p>PI-560 Move to 2<sup>nd</sup> Semester with new code PI-670 and name Pharmacoinformatics-Perl Programming</p> <p>PI-570 dropped and add contents in PI-620 in 2<sup>nd</sup> Semester</p> <p>PI-551 To be dropped</p> <p>GE-553 To be dropped</p> <p>TH-598 Increase the no. of credits</p> <p>TH-599 Increase the no. of credits</p> <p>PI-740 To be dropped</p>	<p>Prof. Garg presented the proposal originated from the DAAC of Department of Pharmacoinformatics.</p> <p>The board accepted the changes suggested.</p> <p>Prof. Bachhawat suggested to include contents related to "next generation sequencing" in courses related to Bioinformatics. He suggested that the guest faculty may be requested from IMTECH / IISER. It was also felt that new faculty members with expertise in this topic would be required at NIPER.</p>
8.5.4	<p><b>Pharmacology &amp; Toxicology Department</b></p> <p>PC-520 To be modified</p> <p>PC-530 To be modified</p> <p>PC-611 To be modified</p> <p>PC-620 To be modified</p> <p>PC-630 To be modified</p> <p>PC-640 To be modified</p> <p>PC-650 To be modified</p>	<p>Prof. Sharma presented the proposal that originated from the DAAC of Department of Pharmacology and Toxicology.</p> <p>The board accepted the changes suggested.</p> <p>Prof. Bhoop suggested that reducing animal usage is one of the major concerns and requirements globally. He suggested that the concept like "Lab on a chip", "Organ on a chip" using microfluidics and software</p>

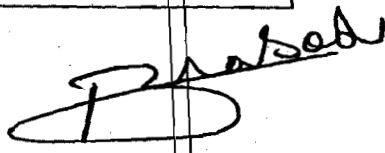
		<p>like Emulate has been universally accepted by many regulatory bodies, hence' It may be adopted.</p> <p>Pharmacovigilance-related issues also need to paid attention to.</p>
8.5.5	<p><b>Pharmaceutical Analysis</b>  PA-510 To be modified  PA-610 To be modified  PA-620 To be modified  PA-630 To be modified  PA-640 To be modified</p>	<p>Prof. Saranjit Singh presented the proposal originated from the DAAC of the Department of Pharmaceutical Analysis.</p> <p>The Board accepted the changes suggested.</p> <p>Prof. Bhoop suggested inclusion of analytical QbD approach in the PA course structure also.</p>
8.5.6	<p><b>Pharmacy Practlce and Cllnical Research</b>  NP-510 To be deleted  LG-512 Recommended merger  PP-530 Item No. 3 to be deleted</p>	<p>Prof. Pramil Tiwari presented the proposal originated from the DAAC of the Department of Pharmaceutical Analysis.</p> <p>The board accepted the changes suggested.</p> <p>It was discussed that the regulatory related issues are relevant to the courses in the department also.</p>
8.6	<p><b>Industry Academia linkage</b>  The BoG directed NIPER to review syllabi keeping in view industry linkage, skill development and "the research outcome should go international from local"  Discussion on industry academia linkage was held at length with the internal and external experts. In this context, experts proposed that lectures on entrepreneurship be organised for the M.S Pharm. Biotechnology students to provide them exposure to business model of Biotechnology. Guest faculty may be invited in every course of NIPER for delivering one or two lectures. Other suggestions are invited from members.</p>	<p>This suggestion from the BoG was appreciated by all members. The report of the DAAC of the Biotechnology department was discussed and appreciated.</p> <p>It was concluded that the guest faculty from industry may be engaged for courses in Biotechnology.</p> <p>The same may be adopted for the courses in all other departments also. It was discussed that in all courses of NIPER, the course coordinators may engage industrial guest faculty for at least two classes. After thorough discussions, it became apparent that - it may be not be practical for all the courses, but possibly in majority of the courses. Though this cannot be made mandatory, the course coordinators may be encouraged to follow this suggestion. If the industrial experts cannot visit the site, SKYPE based lecture may be engaged. About 20% of the classes can be held through video conferencing. Educational Multimedia Research Centre (EMMRC) and Consortium of Educational Communication (CEC) may be approached for suggestions in this regard.</p>
8.7	<p><b>Introduction of a refresher course on General safety of one or two hours for the students.</b></p>	<p>All the members agreed that it is an important requirement. Such a short course cannot be part of the structure education program of NIPER. But a</p>

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	<p>The BoG In its 69<sup>th</sup> meeting agenda Item No. 66.14 (67.2.10) emphasized:</p> <p>(a) the need of continuous periodical training of employees and students particularly who are associated with the laboratory work.</p> <p>(b) Formulation of a refresher course on General safety of one or two hours followed by examination for the students.</p>	<p>short course can be developed as suggested by BoG which may be offered to all departments independently. Experts from IISER ethics committee may be considered. It is possible to identify experts with general safety expertise, who may be asked to develop a course and offer as extra-curricular activity. The SOPs being adopted in industries can be considered as a part of the course. The experts from the nearby industry (eg. Ind Swift) may be engaged. In due course this activity can be expanded to include radio safety, bio-safety, etc. aspects also.</p>
8.8	<p><b>Tabled agenda</b></p> <p>The faculty of NIPER may be permitted to become joint advisor for Ph.D. students of other institutes.</p>	<p>A lot of discussion took place on this topic, but no conclusive decision was taken.</p> <p>This item is deferred for the next meeting.</p>
8.9	<p><b>Tabled agenda</b></p> <p>The joint adviser may be requested anytime before synopsis. Current condition is within 18 months. (Amendment of ordinances may be considered.)</p>	<p>This proposal was rejected by the board, considering that this amounts to diluting of the NIPER standards.</p>

*Dr. Prasad*

  
**Prof. Prasad V. Bharatam**  
 Chairman, BSR &  
 Dean NIPER, S.A.S. Nagar