

Vision : To be a leader in Pharmacy Education, Pharmacy Training and Research in Pharmaceutical Sciences

Mission: To educate and train students in the knowledge and practice of pharmaceutical sciences

To contribute to improvement of health of the society through education programs

To contribute to improvement of health of the society through research programs

AC/003/2020

October 19, 2020

Minutes of Academic Council Meeting (AC/003/2020)

The minutes of the **third meeting of Academic Council (AC/003/2020)** of Bombay College of Pharmacy (BCP) held **Online on Monday, 19th October 2020**, from **4.00 p.m. to 5.30 p.m.** on Zoom platform are as follows.

Following members of Academic Council were present for the meeting.

1. Prof. Krishnapriya Mohanraj (Chairperson, I/C Principal)
2. Prof. Krishna Iyer (Professor of Pharmaceutical Chemistry, BCP)
3. Dr. Ujwala Shinde (Associate Professor and HOD, Pharmaceutics, BCP)
4. Dr. Premlata Ambre (Associate Professor and HOD, Pharmaceutical Chemistry, BCP)
5. Dr. Vaishali A Shirsat (Associate Professor and HOD, Pharmaceutical Analysis, BCP)
6. Dr. Alka Mukne (Assistant Professor and HOD, Pharmacognosy, BCP)
7. Dr. Vaishali Dixit (Associate professor and HOD, Pharmacology, BCP)
8. Dr. Dipti Gatne (Associate Professor of Pharmaceutical Analysis, BCP)
9. Dr. Clara Fernandes (Associate Professor of Pharmaceutics, BCP)
10. Dr. Mala Menon (Adjunct Faculty, Department of Pharmaceutics, BCP)
11. Dr. Mangal Nagarsenkar (Professor Emeritus, Department of Pharmaceutics, BCP)
12. Dr. Sampada P. Patvardhan (Consultant-Medical Writing & Healthcare Services)
13. Dr. S. K. Kulkarni (Professor Emeritus of Pharmacology & Former Pro Vice Chancellor (DUI) (PU)
14. Dr. Eswaran Iyer (IP Consultant, Thane)
15. Dr. Rajiv Desai (Executive Vice President, Corporate Quality, Lupin Ltd, Mumbai)
16. Prof. P. R. Vavia (Dean Academic, Institute of Chemical Technology (ICT), Mumbai)
17. Prof. Purnima Amin (Dean Students & Alumni Affairs, Vice President Technological Association, Professor in Pharmacy, Dept of Pharma. Sci & Tech, Institute of Chemical Technology (ICT), Mumbai)
18. Dr. Girish Mahajan (Vice President, Hi Media Laboratories Pvt. Ltd, Mumbai)
19. Dr. Evans Coutinho (Member Secretary and Professor of Pharmaceutical Chemistry, BCP)


Following members were present for the meeting as Special Invitees.

1. Mr. Nitin Maniar (Chairman, Governing Body, BCP and Hon. Secretary IPA-MSB)
2. Dr. N. Sivaprasad (President, IPA-MSB)

Dr. Shalaka Dhat (Executive Assistant to Principal, BCP) was present at the meeting to note down the minutes of the meeting and coordinate overall conduct of the meeting.

Shalaka Dhat

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At the onset of the meeting, Professor Krishnapriya welcomed and thanked all the esteemed members of the Academic Council of Bombay College of Pharmacy-Autonomous and the special invitees for their presence at the first meeting of the Academic Council of Bombay College of Pharmacy (BCP), for the academic year 2020-2021.

Every point of agenda was then taken up for discussion and resolved subsequently.

003.01 To confirm the minutes of the previous Academic council meeting (AC/002/2019) held on, 27th November 2019.

The minutes of the previous Academic Council meeting (AC/002/2019) held on Wednesday, 27th November 2019 were circulated to all the members prior to the meeting.

As there were no changes required to be made to the minutes of the earlier meeting, the members unanimously agreed that the minutes of the previous academic council meeting (AC/001/2019) held on Wednesday, 27th November 2019 be confirmed.

003.02 To approve the syllabus of S. Y. B.Pharm based on the PCI prescribed Rules, Regulations and Syllabus for B.Pharm Course (PCI B.Pharm Regulations 2014).

Professor Krishnapriya mentioned that since the syllabus to be adopted for S.Y.B.Pharm is mandatorily to be based on the PCI prescribed B.Pharm regulations 2014, no change has been made to the syllabus of S.Y.B.Pharm to be adopted at Bombay College of Pharmacy. She informed that the PCI syllabus was reviewed by all the departments and only for few subtopics attempts were made to expand the syllabus and improve the clarity of the contents. Prof. Krishnapriya added that UG-BoS did not suggest any changes in the proposed syllabus of S.Y.B.Pharm and the same was approved at the UG-BoS meeting held on 16th October 2020.

Based on the discussions, it was resolved that the academic council members unanimously approve the recommendations made by UG-BoS for the syllabus of S. Y. B.Pharm based on the PCI prescribed Rules, Regulations and Syllabus for B.Pharm Course (PCI B.Pharm Regulations 2014).

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003.03 To approve the syllabus for Certificate Course (Offline and Online mode) and Post graduate Diploma (offline mode) in 'Data Analytics in Healthcare' offered by Bombay College of Pharmacy and Navigo Analytix group of companies in association with The Indian Pharmaceutical Association-Maharashtra State Branch.

Prof. Krishnapriya briefed the committee members that as BCP has now been conferred with autonomous status, it has proposed to start two courses one being Certificate course and other being a Post Graduate Diploma in Data Analytics in Healthcare in collaboration with Navigo Analytix group of Companies. She added that the certificate course would be conducted in an online as well as offline mode, whereas the Post Graduate Diploma in Data Analytics in Healthcare is proposed to be started in offline mode in July 2021. Prof. Krishnapriya further added that the Certificate course would be open to anyone pursuing or has completed graduation but for Post Graduate Diploma course graduation in any fields such as Pharmacy, life Sciences, medicine etc was mandatory. Prof. Krishnapriya mentioned that the certificate course would be for 3 months whereas the Post Graduate Diploma Course would be of 6 months duration, both being for 8hrs per week, either on weekdays or on weekends. She mentioned that Dr. Ashish Babiwale who is the alumnus of Bombay College of Pharmacy, is the founder of Navigo Analytix and also the member of Undergraduate Board of Studies. Prof Krishnapriya added that since no other members of UG-BoS and PG-BoS were related to the field of Data Analytics, Mr. Mohnish Puvathingal, an international consultant in the field of Data Sciences for Artificial Intelligence and Machine Learning, was specially invited for both UG-BoS and PG-BoS meetings to seek advice on the credibility of both the courses at the national and international level. She also added that Mr. Mohnish had given recommendations for the contents of Post Graduate Diploma course and both Mr. Ashish Babiwale and Mr. Mohnish Puvathingal were present for UG-BoS and PG-BoS meetings.

Prof. Krishnapriya discussed the recommendations made by UG-BoS for the Certificate course in Data Analytics in Health care and PG BoS for the Certificate as well as the Post Graduate Diploma Course in Data Analytics in Healthcare. She mentioned that the rules, regulations, and syllabus for the Certificate course in Data Analytics in Healthcare (Offline and Online mode) has been approved by both UG-BoS and PG-BoS of BCP-Autonomous. She added that PG BoS of BCP-Autonomous has approved the rules, regulations, and syllabus framework for the PG Diploma in Data Analytics in Healthcare.

Prithvi Anand

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Professor Krishnapriya put forth the four recommendations of PG-BoS meeting members before the academic council for discussion and resolution.

1. The marks mentioned in the scheme of examinations for the Certificate Course in Data Analytics in Healthcare can be doubled from 100 to 200 marks. Prof. Krishnapriya explained that this was necessary to give justice to the number of questions and the corresponding marks offered for the same in the examination.

2. The placement details should be included in the prospectus and not in the 'Rules, Regulations and Syllabus for Certificate and PG Diploma Course'.

3. The PG Diploma course in Data Analytics can be considered as one of the electives for all branches of M.Pharm program offered at BCP. Prof. Krishnapriya added that this was in addition to the certificate and PG Diploma Course in Data Analytics in Healthcare. She also added that if this were to be done then a lot of efforts would have to be taken to reduce the number of hours of the Certificate or PG Diploma course to suit the academic requirements of an elective offered at the final year B.Pharm or M.Pharm level.

Dr. Sampada expressed her concern that offering PG Diploma Course in Data analytics in healthcare even in a crash course form as an elective for M.Pharm may probably dilute or clash with the entire program of PG Diploma Course in Data Analytics. She added that there would be more value addition if the PG Diploma course and the elective are kept separate. Prof. Krishna Iyer Sir agreed to the same stating that if it has to be offered as an elective, it needs to be framed in a manner to develop only the interest of students to the field of Data Analytics and it should not affect the admissions to the PG Diploma Course. Prof. S. K. Kulkarni also agreed that PG Diploma course should not be mixed with M.Pharm and the students willing to put in extra hours can take up the course in addition to their M.Pharm. Dr. Rajiv Desai mentioned that Data Analytics is now gaining popularity but has to be carefully managed with respect to the syllabus and usability to the student. Professor Vavia also mentioned that he agreed with Prof. S. K. Kulkarni.

Dr. Sampada enquired if there was any specific reason for starting PG Diploma Course in an Offline mode. She shared that offering the course in an Online mode can be a more feasible and may ensure more enrollment of students. Dr. Sampada added that it will improve the ease with which the students can take up the course. She also mentioned that many Universities globally are offering the good quality courses in Data Analytics Online and hence we should work out the feasibility of having PG Diploma course in Online mode too along with Offline mode. Professor Vavia added that for M.Pharm students it becomes difficult to take up Offline classes on weekends. He too agreed that Online weekdays class would be a better choice for them, and it may also attract a greater number of students from other colleges.

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Prof. Krishnapriya mentioned that for Certificate course which has started in September, 10 students have enrolled, of which there is only one who is an undergraduate student from BCP, rest all 9 students are from outside BCP and three of them are from the industry. She confirmed that both the courses are open for students outside BCP and also professionals from Industry.

Dr. Shalaka recalled that based on the earlier discussions with Dr. Ashish Babiwale the reason for conducting the post graduate course Offline was due to the nature of the course which largely focused on giving students case studies based on near real data and involved using costly softwares such as Tableau and Python which could be installed on multiple computers in the institute and students could be benefitted for the same due to multiple usage. Dr. Sampada agreed for the same and recommended that that to save on time, the course can be run in combination mode; the theoretical aspects can be covered in an offline mode whereas Hands On may be conducted in an Online mode.

Prof. Amin mentioned that irrespective of whether the course is learnt in an Online or Offline manner, the students must have the necessary programs loaded on their laptops. Professor Krishnapriya added that for Certificate courses, licensed softwares purchased by Navigo Analytix were being offered to the students.

In response to the query raised by Professor S. K. Kulkarni regarding fee structure for the course, Professor Krishnapriya replied that for the first batch students the fees for Certificate course was Rs.15,000/- and for Professionals it was Rs.25,000/- which was nominal for the course contents. However, she added that for the next batch it would be Rs.25,000/- for the students and Rs.40,000/- for the Professionals. For postgraduate Diploma, the fees would be around Rs.1.0 L. Prof. Krishnapriya also informed the members about the fees structure for similar courses in Data Sciences which ranged from Rs.75,000/- to around 1.5L.

Dr. Eswaran informed that the requisite licensed softwares may be purchased at concessional rates by the institute and the purchases to be made for the course can be based on the desired modules. He added that softwares are also available on hourly basis and one should try to negotiate for per user/per hour licensing which would be cheaper. This would help in restricting the capital outflow and the student will also ensure to make use of available software to the fullest in stipulated time period. Dr. Eswaran added that the costing would reduce by 30-60% when additional academic license is issued other than the commercial license available with Navigo Analytix.

4. The PG Diploma in Data Analytics in Healthcare can begin in July 2021 in Offline mode as proposed.

Amir *Shalaka*

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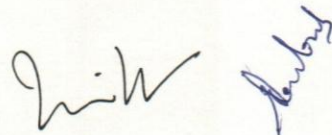
Based on the discussions, the members resolved that the **rules, regulations, and syllabus for Certificate course as well as Post Graduate course in Data Analytics in Healthcare be approved. The members approved the recommendations of PG-BoS for points no1,2 and 4 but for point no.3, it was resolved that PG Diploma Course will not be offered as an elective for different branches of M.Pharm.**

003.04 To identify MOOC Courses organized by Swayam or NPTEL and consider credit add on to the extent of 20% in every semester as per AICTE (Credit Framework for Online learning Courses through Swayam) Regulations 2016 to all the students after successful completion of the course.



Professor Krishnapriya briefed the members that there has been a continuous follow up from AICTE for ensuring that all higher educational institutes are offering credit based Swayam and NPTEL courses to the students and the credit earned after successful completion of the course is being transferred upto the extent of 20% in every semester to their grade cards. She expressed her concern that the courses offered by Swayam and NPTEL are paid courses conducted Online but the examination for the same is conducted Offline whereas non-credit courses offered by Coursera and TCS have mode of conduct as well as exam Online and hence are more preferred by the students.

Professor Krishna Iyer added that since it is mandatory for Pharmacy Colleges to follow PCI syllabus, it is not possible for students to replace one of the courses from the syllabus with the MOOC courses, however if the student successfully completes any such course in addition to the prescribed courses in the syllabus , then the Credit add on to the extent of 20% per semester to his/her grade card can be considered.

Prof. Krishnapriya mentioned that both UG and PG-BoS have recommended that the departments and the institution may list down all Swayam and MOOC Courses suitable for each semester, however students may be free to choose courses other than the recommended courses and on completion of such courses, the credit points offered by the course may be transferred to the grade card and transcripts provided to the students. She further added that it was proposed that faculty coordinators (Departmental/Institute) can be appointed to motivate students and faculty to take up appropriate courses which may be technical or non-technical such as effective speaking skills, personality development and many more which can be useful for all the students in the long run.



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Based on the discussions, it was resolved that the academic council members unanimously approve that the **MOOC courses organized by Swayam or NPTEL be appropriately identified and considered for credit add-on to the extent of 20% in every semester as per AICTE (Credit Framework for Online learning Courses through Swayam) Regulations 2016.**

003.05 To approve the introduction of Universal Human Values-II course (AICTE Initiative) equivalent to 30 teaching hours and 03 credits, for undergraduate students at semester IV (S.Y.B.Pharm) or Sem V (T.Y.B.Pharm) and postgraduate students, at Semester II (F.Y.M.Pharm).



Prof. Krishnapriya briefed the members that as per AICTE initiative launched in 2016, it is mandatory for every fresher student getting admitted to the institute to undergo a three-week induction program which includes sessions on Universal Human values and is referred to as UHV-I. She added that AICTE recommends that after completion of UHV-I by the students and when adequate faculty members have received training on UHV, a course on Universal Human Values-II (UHV-II) equivalent to 30 teaching hours and 03 credits be introduced preferably at semester III or IV of undergraduate program. Professor Krishnapriya added that introduction of UHV-II is a part of AICTE Quality Mandate. She added that during the year 2019-2020, the undergraduate and post graduate students were introduced to Universal Human Values and since adequate faculty members had received training from AICTE in Universal Human values, it has been proposed to introduce Universal Human Values-II course equivalent to 30 teaching hours and 03 credits for undergraduate students at semester IV (S.Y.B.Pharm) or Sem V (T.Y.B.Pharm) and for post graduate students, at Semester II (F.Y.M.Pharm). She added that due to delayed lateral entry of Diploma students at Semester III of B.Pharm and difficulty for M.Pharm students to cope up with the changed environment during Semester-I of M.Pharm, it was more appropriate to conduct the course at semester V (regular 26 credits + 03 credits = 29 credits) which had lesser credits as compared to semester IV of B.Pharm and Semester II of M.Pharm program. Prof Krishnapriya added that this was discussed at the UG-BoS and PG-BoS meetings and both the UG-BoS and PG-BoS members have recommended the introduction of course at semester V (T.Y.B.Pharm) and Sem-II of M.Pharm.

Prof. S. K. Kulkarni expressed his concern that the students would be overloaded with so many new introduction of courses. Prof. Krishnapriya and Dr. Sampada agreed to the same. Prof. Krishnapriya added that as a part of overall development of the student, offering such courses to the students has become mandatory for technical and higher education institutes. She added that the management of Bombay College of Pharmacy has been considerate in hiring external faculty and conduct workshops on Universal Human Values if required as a part of the course.

[Handwritten Signature]

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Professor Vavia agreed that such a course is necessary and mentioned having similar course on 'Value Education' at ICT, Mumbai which has syllabus framed by faculty who is Ph.D in Physical Education and is different from syllabus offered by AICTE. He recommended that one of the faculty members should attend 'Diksha Samarambh' a five-day program organized by NIT, Patna from 23-28 Nov 2020. Dr. Rajiv Desai added that such human value-based programs are also mandatory for medical colleges and inputs can be gathered from these colleges while designing the curriculum.

Based on the discussions, the Academic Council members unanimously agreed that **the introduction of Universal Human Values-II course (AICTE Initiative) equivalent to 30 teaching hours and 03 credits, for undergraduate students at Sem V (T.Y.B.Pharm) and postgraduate students, at Semester II (F.Y.M.Pharm) be approved.**

003.06 Any other matter with the permission of the chair.

Since there were no other matters to be discussed, Prof. Coutinho expressed thanks to the academic council members and the chair. The meeting was concluded at 5.20 p.m.

Dr. Evans Coutinho
Member Secretary

Dr. Krishnapriya Mohanraj
I/c Principal

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