

BOMBAY COLLEGE OF PHARMACY

(Autonomous-Maharashtra State Government Aided Institute)

Kalina, Santacruz (East), Mumbai - 400 098. India. Tel: +91(022) 2667 0871 / 2667 1027 / 2667 0816

E-mail: office@bcp.edu.in/office.bcpindia@gmail.com, Web: www.bcp.edu.in

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

October 14, 2020

NOTICE

All the members of Undergraduate Board of Studies (UG-BoS) are hereby informed that the UG-BoS meeting of Bombay College of Pharmacy-Autonomous (BoS/UG/002/2020) will be held **Online** on Friday, 16th October, 2020, from 4.00 p.m to 6.00 p.m using Microsoft Teams platform.

The agenda for the meeting is as follows

- To confirm the minutes of the previous UG-BoS meeting (BoS/001/2019) held on Friday, 26th July 2019.
- 2. To approve the syllabus of S. Y. B.Pharm based on PCI prescribed Rules, Regulations, and syllabus for B.Pharm Course (PCI B.Pharm Regulations 2014).
- 3. To approve the syllabus for Certificate Course in 'Data Analytics in Healthcare' (Online and offline mode) offered by Bombay College of Pharmacy and Navigo Analytix group of companies in association with The Indian Pharmaceutical Association-Maharashtra State Branch.
- 4. To identify MOOC Courses organized by Swayam or NPTEL and consider credit addon 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.
- 5. To approve the introduction of Universal Human Values-II course (AICTE Initiative) equivalent to 30 teaching hours and 03 credits, at the semester IV (S.Y.B.Pharm) or Sem V (T.Y.B.Pharm) for Undergraduate students.
- 6. Any other matter with the permission of the chair.

All the members are requested to be present for the same. The link for the meeting will be shared one day

prior to the scheduled day of the meeting

Prof. Krishnapriya Mohanraj

I/C Principal oroved by AICE PCI USE ATE, Permanent affiliation to University of Mumbai and Recognized by DSIR as SIRO (Govt. of India)

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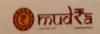








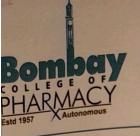












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October 15, 2020

Agenda for the UG-BoS Meeting

The agenda for the UG-BoS meeting of Bombay College of Pharmacy-Autonomous (BoS/UG/002/2020), scheduled Online on Friday, 16th October 2020, from 4.00 p.m to 5.30 p.m on Microsoft Teams platform is as follows

- To confirm the minutes of the previous UG-BoS meeting (BoS/001/2019) held on Friday, 26th July 2019.
- 2. To approve the syllabus of S. Y. B.Pharm based on PCI prescribed Rules, Regulations, and syllabus for B.Pharm Course (PCI B.Pharm Regulations 2014).
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- 6. Any other matter with the permission of the chair.

Prof. Krishnapriya Mohanraj I/C Principal

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Bombay College of Pharmacy
Kalina, Mumbai - 400 098

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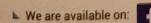
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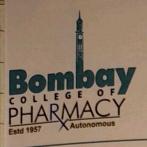








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BoS/UG/002/2020

16/10/2020

Minutes of UG-BoS meeting

The minutes of the Undergraduate Board of Studies (UG-BoS) meeting of Bombay College of Pharmacy-Autonomous (BoS/UG/002/2020) held Online on Friday, 16th October 2020 on Microsoft Teams Meeting platform are as follows

The following UG-BoS members were present for the meeting

- 1. Prof. Krishnapriya Mohanraj (I/C Principal, Bombay College of Pharmacy)
- 2. Prof. Krishna Iyer (Chairperson, Undergradraduate Board of Studies, Bombay College of Pharmacy)
- 3. Dr. Ujwala Shinde (Member Secretary, UG-BoS and HOD-Pharmaceutics, Bombay College of Pharmacy)
- 4. Dr. Premlata Ambre (HOD-Pharmaceutical Chemistry, Bombay College of Pharmacy)
- 5. Dr. Vaishali Shirsat (HOD-Pharmaceutical Analysis, Bombay College of Pharmacy)
- 6. Dr. Alka Mukne (HOD-Pharmacognosy, Bombay College of Pharmacy)
- 7. Dr. Vaishali Dixit (HOD-Pharmacology, Bombay College of Pharmacy)
- 8. Prof. Sadhana Sathaye (Professor of Pharmacology, Institute of Chemical Technology, Mumbai)
- 9. Prof. K.S.Laddha (Professor of Pharmacognosy, Institute of Chemical Technology, Mumbai)
- 10. Dr. Ashish Babtiwale (Managing Director, Navigo Analytix India)
- 11. Dr. Ratnakar Mehendre (Director, SRS Pharmaceuticals Pvt.Ltd., Mumbai)

The following members were present as Special Invitees

- 1. Dr. Mohnish Puvathingal (AI-ML Data Science Consultant)
- 2. Dr. N.Sivaprasad (President, The Indian Pharmaceutical Association-Maharashtra State Branch)
- 3. Dr. Nitin Maniar (Hon. Secretary, The Indian Pharmaceutical Association-Maharashtra State Branch)
- 4. Dr. Evans Coutinho (Professor of Pharmaceutical Chemistry, Bombay College of Pharmacy)

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

The following member expressed her inability to attend the meeting and was granted leave of

1. Prof. Pratima Tatke (Principal and Professor of Pharmaceutical Chemistry, C.U.Shah College of Pharmacy, S.N.D.T Womens University, Juhu Campus, Mumbai

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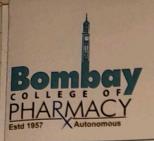












The Indian Pharmaceutical Association - Maharashtra State Branch's BOMBAY COLLEGE OF PHARMACY

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16/10/2020 BoS/UG/002/2020

At the onset of the meeting, Prof. Krishnapriya welcomed and thanked all the esteemed members of the UG-BoS, Bombay College of Pharmacy-Autonomous and the special invitees for their presence at the meeting. She briefly introduced to the UG-BoS members, Mr. Mohnish Puvathingal, consultant in Data Science with specialization in Artificial Intelligence and Machine Learning, Dr. N.Sivaprasad, President, The Indian Pharmaceutical Association-Maharashtra State Branch (The IPA-MSB), Mr. Nitin Maniar-Chairman, Hon. Secretary-The IPA-MSB and Prof. Coutinho, Professor of Pharmaceutical Chemistry, Bombay College of Pharmacy, all of which were specially invited for the UG-BoS meeting. After the brief introductory remarks, the agenda of the meeting was discussed by the UG-BoS members and resolved subsequently.

Agenda points with discussion

002.01 To confirm the minutes of the previous UG-BoS meeting (BoS/001/2019) held on Friday, 26th July 2019.

The minutes of the previous UG-BOS meeting (BoS/001/2019) held on Friday 26th July 2019 were circulated to all the members by mail prior to the meeting. Since there were no changes in the minutes of the last meeting, all the members unanimously agreed to confirm the minutes of the previous UG-BoS

It was unanimously recommended by the members of UG-BoS, that the minutes of the previous UG-BoS meeting (BoS/001/2019) held on Friday, 26th July 2019 be approved.

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

Prof. Krishna Iyer stated that Rules and Regulations for B.Pharm course based on PCI prescribed B.Pharm Regulations 2014 were approved during the UG-BoS meeting held on 26th July 2019 and are being followed at Bombay college of Pharmacy-autonomous with effect from academic year 2019-2020. He added that the tables showing distribution of marks for the internal exam and final exam for each semester have now been incorporated in the rules and regulations for B.Pharm course and the same had been circulated to all the

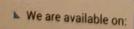
Prof. Iyer mentioned that the syllabus for S.Y.B.Pharm (Semester III and Semester IV) based on the PCI recommendations has been adopted with effect from 2020-2021 with a negligible deviation of around 5% m with respect to depth and clarity of certain scientific concepts.

Approved by AICTE, PCI, UGC, DTE, Permanent affiliation to University of Mumbai and Recognized by DSIR as SIRO (Govt. of India) iccreditated by National Board of Accreditation for UG Program for the Academic Years 2017-18 to 2021-22 i.e. up to 30.06

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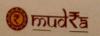




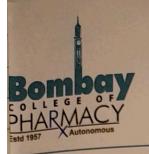












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(BoS/UG/002/2020) 16/10/2020

Prof. Iyer added that the syllabus has been only reframed for better aesthetics and clarity. He mentioned that the Course Objectives and the Course Outcomes have been added to all theory and practical courses in the syllabus.

Dr. Ratnakar enquired whether the syllabus was required to be approved by PCI. Prof. Krishnapriya explained that there is no approval needed from PCI as the syllabus was the same as that recommended by PCI. However, the syllabus for S.Y.B.Pharm (Semester III and Semester IV) must be approved by the UG-BoS and the Academic Council of Bombay College of Pharmacy, after which a copy of the same would be sent to PCI for information.

Mr. Ashish Babtiwale expressed his concern on whether deviation could be made to the syllabus for S.Y.B.Pharm adopted by Bombay College of Pharmacy owing to their autonomous status and what additional can be added to the syllabus so that students would prefer getting admitted at Bombay College of Pharmacy. Prof. Krishna Iyer explained that as a National law, any institute offering B. Pharm degree in India has to follow PCI syllabus. No one can deviate from the syllabus recommended by PCI for B.Pharm course.

Dr. Alka Mukne mentioned that upto 20% addition (additional 09 hours) can be made to the syllabus but no deletions are permitted in the prescribed PCI syllabus. The members discussed that there is no official regulation from PCI regarding the same and all the members agreed that since the PCI syllabus itself was so vast and difficult to complete in the prescribed hours, there was no point in adding any extra hours even if it is permitted. Prof. Krishnapriya added that the PCI syllabus is the same everywhere and the answer to why students would prefer Bombay College of Pharmacy over other colleges lies in the uniqueness with which the syllabus is delievered and new insights provided to the curriculum by the experienced faculty at Bombay College of Pharmacy.

Based on the discussions, it was unanimously agreed that the syllabus of S. Y. B.Pharm based on PCI prescribed Rules, Regulations, and Syllabus for B.Pharm Course (PCI B.Pharm Regulations 2014) be approved.

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

Professor Krishnapriya briefed the members regarding Certificate Course in Data Analytics in Healthcare, a three month executive program offered by Bombay College of Pharmacy and Navigo Analytix group of companies, to be conducted in Online mode on weekends and weekdays, for total 8hours per week. She added that it was proposed to be conducted in an Offline mode on weekends, both Saturday and Sunday, 4 hours each. She then requested Mr. Ashish Babtiwale, Director of Navigo Analytix, the key person behind the course and also an esteemed member of UG-BOS to brief the BoS members on the specialties of the course.

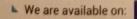
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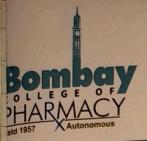












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Prof. Krishnapriya also explained that since this course was in Data Analytics and all BoS members were Pharma related, she had invited Mr. Mohnish, a Data Sciences specialist who had given his inputs for this certificate course.

Mr. Ashish Babtiwale explained in brief the plethora of opportunities available for Pharmacy students willing to take up career as Data Scientists in Healthcare. He also added that the Certificate course would be a stepping-stone for all such aspirants. He emphasized that the course is being offered at a very economical rate and designed with contents and material superior to what other competitors in the field offer. He added that the 'hands on training' included as a part of the certificate course was a special feature of the course. Mr. Mohnish too agreed that the course was comprehensive and economical.

Prof Laddha mentioned that there should be an appropriate MOU made between Bombay College of Pharmacy, Navigo Analytix and the Indian Pharmaceutical Association-Maharashtra State Branch and the role of each of the participant in introduction and progression of the certificate course should be clearly documented. Mr. Ashish clarified that the course certificate will have stamp of Bombay College of Pharmacy and Navigo Analytix. He added that Navigo Analytix is providing the technology, intelligence, resources, knowledge, and the investment for the course. Mr. Babtiwale mentioned that the Indian Pharmaceutical Association-Maharashtra State Branch is supporting in promoting the course across Maharashtra. Prof. Krishnapriya clarified that Bombay College of Pharmacy (BCP) has played a role of giving academic depth and insights to the course. She added that BCP had provided suggestions in terms of conduct of examinations, internal examinations, and continuous assessments. She further highlighted the role of BCP in adding Course Objectives, Course Outcome using Blooms Taxonomy, assigning credits for the course and in general reframing the course structure to suit academic standards. Professor Krishnapriya appreciated the commendable efforts taken by Dr. Ashish Babtiwale in delivering the contents of the course and expressed pride in introducing the Certificate course in Data Analytics in Healthcare. She also appreciated the efforts taken by the team.

Dr. Sadhana enquired whether softwares would be made available to the students since the course was providing Hands on training. Dr. Ashish clarified that for teaching programming languages, necessary for Data Analytics, expensive licensed softwares had been purchased. He also mentioned that the educational institutes get licenses at discounted prices and can be used by multiple students. Dr. Ashish added that once the course is started offline, they would request BCP to purchase these softwares for multiple computers.

After deliberations and discussion, it was unanimously resolved that the syllabus for Certificate Course in 'Data Analytics in Healthcare' (Online and offline mode) offered by Bombay College of Pharmacy and Navigo Analytix group of companies in association with The Indian Pharmaceutical Association-Maharashtra State Branch be approved.

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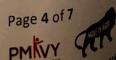












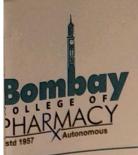












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002.04 To identify MOOC Courses organized by Swayam or NPTEL and consider credit addon to the extent of 20% in every semester as per AICTE (Credit Framework for Online learning Courses through Swayam) Regulations 2016 to all the students after successful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

Prof. Krishnapriya mentioned that as per AICTE Regulations 2016 regarding Credit framework for Online learning Courses through Swayam, it has become necessary to identify MOOC courses organized by Swayam and NPTEL for the undergraduate students and ensure transfer of credits for courses completed by students, to the respective semester grade-cards. She further stated that AICTE has permitted credit transfer to the maximum of 20% in every semester. Dr. Krishna added that if students take up these courses, then it adds to the wholesomeness of their biodata. He further mentioned that by completing these additional courses, the students get an opportunity to widen their scope. He explained that in a semester if there are total 30 credits than the student can take maximum 20% i.e. 06 more credits in a given semester by completing such courses and the credits earned will be officially mentioned in the transcripts and grade card of students. Dr. Iyer added that the system is being adopted everywhere, even by the University of Mumbai and it has now become a norm for all colleges to adopt the system implemented by AICTE.

The members discussed on how many hours in a course can be considered equivalent to 1 credit based on the available information from AICTE, PCI and University of Mumbai where 14-15 hours, 15 hours and 12 hours are considered as one credit respectively. Since the number of hours were variable, Prof. Iyer suggested that a range from 12-15 hours can be considered as equivalent to one credit.

The members also discussed on whether the courses should be identified for the students or should the students be given freedom to choose course of their choice.

Prof. Krishnapriya mentioned that at some institutes such as ICT, Mumbai, Swayam and NPTEL courses have been offered as one of the electives during the study.

Prof. Coutinho raised a concern that the Swayam and MOOC courses are at a quite high level and it will be difficult for Sem I-Sem VI students to complete them. He added that only students at Final year will be able to take up the Swayam Courses, however he doubted as to how many of the final year students would be enthusiastic in taking up these courses for increasing credits to the extent of 20% at the final year level. Prof. Sivaprasad asserted that the students should not be overburdened as their efficiency in the core subjects

would be affected.

Prof. Krishna Iyer mentioned that the courses will not be made mandatory for the students, but students are being given an opportunity to opt for it. He added that it is their choice. If the students decide to go for it and successfully complete it, then the credits for the course will be added to their transcript or their Grade card.

Prof. Krishna lyer pointed out that at undergraduate level where PCI syllabus is mandatory to be followed, credit transfer is not possible however credit addon can be considered.

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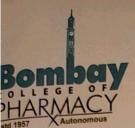












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The members also discussed on how many students are likely to take up the courses over and above the existing curriculum and that too when the courses were paid courses.

Dr. Alka appraised the members that PCI is coming up with Life Sciences Sector Skill Development Council (LSSSDC) which has lot of modules and one of the electives at the final year PCI course may be replaced by such modules. She added that the modules are more of vocational trainings and the idea behind these modules is to make the students more job ready. Prof. Iyer and Dr. Vaishali Shirsat mentioned that these modules were chargeable and may be recommended only for Final year, Sem VII or Sem VIII students and the total no. of hours for the course were close to 96 to 100h i.e. around 6-8 credits.

Prof. Krishnapriya gave reference of Dr. APJ Abdul Kalam Technological University, wherein they have introduced personality development courses such as speaking English effectively, developing soft skills and personality development from Swayam platform for students. She added that there was a need to meticulously review the courses to be offered to the students at lower classes and identify courses such that maximum students will be able to take up the course.

Dr. Vaishali Shirsat mentioned that in NAAC too there is lot of weightage on the ratio of the no. of students enrolled in the college and the no. of enrolled that would be opting for such courses. She suggested that some courses need to be designed so that maximum students can participate in it.

The members added that department and the institution may list down all Swayam and MOOC Courses suitable for each semester. Students shall be free to choose courses other than the recommended courses and Faculty Coordinators (Departmental/Institute) can be appointed to motivate students to take up appropriate courses.

After discussions and deliberations, the UG-BoS recommended that Credit addon 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 may be approved and the credits earned be added to his/her grade Card and the transcripts for each semester.



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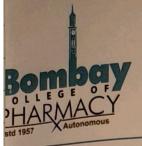












BOMBAY COLLEGE OF PHARMACY

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

(BoS/UG/002/2020)

16/10/2020

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

Prof. Krishnapriya mentioned that it was a recommendation from AICTE to organize Universal Human Values -I as a part of three weeks Student Induction Program for the freshers. At the same time, AICTE has been encouraging teachers to complete three/five- or eight weeks program on Universal Human Values (UHV-I). After introducing UHV-I, AICTE has recommended to start UHV-II course equivalent to 30 teaching hours and 03 credits at one of the semesters of Undergraduate program.

Prof. Krishnapriya explained that it would be comfortable to add this course, to the semester which has least number of credit points. She added that Sem III (S.Y.B.Pharm) of PCI syllabus has least no. of credits points, however at Sem III there is lateral entry of Diploma students and these students find it very difficult to copeup with the ongoing syllabus as they join late.

She mentioned that the next semester with little less credits (total 26 credits) is Sem V. If 03 credits of UHV-Il get added there, then it will be 29 credits.

Prof. Sadhana Sathaye confirmed that if AICTE does not insist on the course being conducted in a particular semester, it would be fine to incorporate the course in the Sem V.

Based on the discussions it was resolved that the introduction of Universal Human Values-II course (AICTE Initiative) equivalent to 30 teaching hours and 03 credits at Sem V (T.Y.B.Pharm) for Undergraduate students be approved.

002.06 Any other matter with the permission of the chair

As there was no other matter to be discussed, the meeting was concluded by Dr. Krishna Iyer with vote of thanks to the members.

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Dr. Krishna Iyer Chairperson

Dr. Ujwala Shinde

Member Secretary

ALINDr. Krishnapriya Mohanraj

I/c Principal

PRINCIPAL

Bombay College of Pharmacy

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