

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/005/2022

07.07.2022

### Minutes of Academic Council Meeting (AC/005/2022)

The minutes of the **5th meeting of Academic Council (AC/005/2022)** of Bombay College of Pharmacy (BCP)-Autonomous held **Online on Thursday, 16<sup>th</sup> June 2022, from 2.00 p.m. to 3.30 p.m.** on Microsoft Teams are as follows.

#### Following members of Academic Council were present for the meeting.

1. Dr. Krishna Iyer (I/c Principal and Chairperson-Academic Council, BCP)
2. Dr. Sampada P. Patvardhan (Consultant-Medical Writing & Healthcare Services)
3. Dr. P. R. Vavia (Dean Academic Programme, Institute of Chemical Technology (ICT), Mumbai)
4. Dr. Purnima Amin (Dean Students & Alumni Affairs, Vice President Technological Association,
5. Professor in Pharmacy, Dept of Pharma. Sci & Tech, Institute of Chemical Technology (ICT), Mumbai)
6. Dr. Eswaran Iyer (IP Consultant, Thane)
7. Dr. Ujwala Shinde (Associate Professor and HOD, Pharmaceutics, BCP)
8. Dr. Premlata Ambre (Associate Professor and HOD, Pharmaceutical Chemistry, BCP)
9. Dr. Alka Mukne (Assistant Professor and HOD, Pharmacognosy, BCP)
10. Dr. Dipti Gatne (Associate Professor of Pharmaceutical Analysis, BCP)
11. Dr. Mala Menon (Adjunct Faculty, Department of Pharmaceutics, BCP)
12. Dr. Mangal Nagarsenkar (Professor Emeritus, Department of Pharmaceutics, BCP)
13. Dr. Clara Fernandes (Associate Professor, Department of Pharmaceutics, BCP)
14. Dr. Harita Desai (Assistant Professor, Department of Pharmaceutics, BCP)
15. Dr. Krishnapriya Mohanraj (Member Secretary, Academic Council and Professor of Pharmaceutical Analysis, BCP)

#### Following members were granted leave of absence

1. Dr. S. K. Kulkarni (Professor Emeritus of Pharmacology & Former Pro Vice Chancellor (DUI) (PU)
2. Dr. Rajiv Desai (Executive Vice President, Corporate Quality, Lupin Ltd, Mumbai)
3. Dr. Girish Mahajan (Vice President, Hi Media Laboratories Pvt. Ltd, Mumbai)
4. Dr. Vaishali A Shirsat (Associate Professor and HOD, Pharmaceutical Analysis, BCP)
5. Dr. Galvina Pereira (Assistant Professor, Department of Pharmacognosy and Phytochemistry, BCP)

Dr. Shalaka Dhat from Bombay College of Pharmacy was present at the meeting to note down the minutes of the meeting and coordinate overall conduct of the meeting.

Page 1 of 8

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At the onset of the meeting, Dr. Krishna Iyer welcomed and thanked all the members of the Academic Council of Bombay College of Pharmacy-Autonomous for their esteemed presence at the fifth meeting of the Academic Council of Bombay College of Pharmacy (BCP).

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

**005.01 To confirm the minutes of the previous Academic Council meeting (AC/004/2021) held on Monday, 14<sup>th</sup> October 2021.**

The draft minutes of the 4<sup>th</sup> Academic Council (AC/004/2021) meeting of Bombay College of Pharmacy-Autonomous were circulated to all the members. Since there were no changes suggested in the draft minutes, the Academic Council members unanimously resolved that the minutes of the previous Academic Council meeting (AC/004/2021) held on **Monday, 14<sup>th</sup> October 2021** be approved and confirmed.

*The final minutes of the previous (4<sup>th</sup>) Academic Council meeting (AC/004/2021) held on Monday, 14<sup>th</sup> October 2021 were approved and confirmed.*

**005.02 To approve the syllabus for the following five courses in Integrative Nutrition and Dietetics offered by The Indian Pharmaceutical Association-Maharashtra State Branch's Bombay College of Pharmacy in collaboration with Lifeness Science Institute (LSI), Mumbai.**

- B.Sc. in Integrative Nutrition and Dietetics (3 years, 6 semesters, 160 credits, CBCGS)
- M.Sc. in Integrative Nutrition and Dietetics (2 years course, 4 semesters, 104 credits, CBCGS)
- PG Diploma in Integrative Nutrition and Dietetics (1 year, 48 credits, CBCGS)
- Diploma in Health & Integrative lifestyle (DHIL) (6 months, 30 credits, CBCGS)
- PG Diploma in Health & Integrative Lifestyle Medicine (DGHILM) (6 months, 24 credits, CBCGS)

Dr. Iyer briefed the members on the five Programs in Integrative Nutrition and Dietetics which The Indian Pharmaceutical Association's Bombay College of Pharmacy has proposed to start in association with Lifeness Science Institute (LSI), Mumbai from the academic year 2022-2023. He discussed the suggestions received from UG-BoS for the 3 years, 6 semesters, 160 credits B.Sc. Program in Integrative

Page 2 of 8

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Nutrition and Dietetics. He mentioned that the UG-BoS members were of the opinion that certain changes/amendments be made to the syllabus of B.Sc. Program. These were **a.** Specifying the food grains that would be included under cereals, **b.** Adding separate topic on 'antinutrients' present in the cereals **c.** adding topics related to regulations (especially introduction to *fsai* guidelines) in the third year of B.Sc. course. **d.** Specifying the number of practical hours per week in the curriculum framework. He added that the UG-BoS members believed in addition to University of Mumbai, recognition from the National Institute of Nutrition (NIN), shall be beneficial. Dr. Iyer added that the UG-BoS members had not suggested any changes to the Diploma in Health & Integrative lifestyle (DHIL) Program and had recommended that the syllabus for the Program be accepted.

Moving to the PG Programs namely M.Sc. in Integrative Nutrition and Dietetics (2 years, 4 semesters, 104 credits, CBCGS), PG Diploma in Integrative Nutrition and Dietetics (1 year, 48 credits, CBCGS) and PG Diploma in Health & Integrative Lifestyle Medicine (DGHILM), Dr. Iyer mentioned the additions/recommendations from PG-BoS members for the above Programs. He mentioned that the PG-BoS had recommended the M.Sc. Program in Integrative Nutrition and Dietetics with following suggestions. **a.** Introducing new and different electives, for the M.Sc. Program in comparison to B.Sc. Program. Safety guidelines to be considered for being added as an Elective. **b.** Introducing different courses with different course names for the M.Sc. program, **c.** Changing the title of the course Human Anatomy to Human Anatomy and Physiology **d.** Focusing the syllabus more on Physiology rather than the anatomy, **e.** Putting the abbreviations with more clarity and mentioning them at the beginning of the curriculum framework. **f.** Adding topics so that there is more emphasis on Food Microbiology, **g.** Adding a separate section on Nutraceuticals, **h.** Discussing more elaborately the topic of Drug-Nutrition products interactions, **i.** Adding some topics related to regulations especially *fsai* requirements to the program and **j.** Adding B. Pharm as one of the eligibility criteria for the M.Sc. program. Dr. Iyer added that the PG-BoS had recommended the PG Diploma in Integrative Nutrition and Dietetics however they had also given some suggestions. This included addition of a module to improve employability aspects of students opting for this program in Food Processing industry, adding a separate module on quality aspects to understand grade of food material, having more emphasis on residual pesticides on food and unlike M.Sc. program incorporating 'Safety Guidelines' in the syllabus. Dr. Iyer mentioned that for PG Diploma in Health & Integrative Lifestyle Medicine (DGHILM) which was of 6 months duration and offering 24 credits, the PG-BoS was of the opinion that it be referred to as Certificate Course rather than the PG Diploma.

Page 3 of 8

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Both UG-BoS and PG-BoS had recommended to the Academic Council to approve the syllabus for the respective programs, however members of both the boards expressed concern regarding which labs of B. Pharm would be used for the non-technical programs and whether the PCI would have objection for the non-technical Programs being run in the Pharmacy building. Further since the five Programs to be started have intake capacity of 120, is there adequate infrastructure with respect to canteen, classrooms, labs, and other facilities. The members of BoS also expressed their concern on whether adequate cleaning protocols shall be followed in case the labs are shared between the two programs as one is a Pharmacy Program, and the other is a food Program. He added that whether during submission of AICTE Extension of Approval should the college mention about the starting of non-technical course and seek approval for the same. He added that the BoS members believed unless adequate infrastructure exists, BCP should not venture into new Programs and if at all infrastructure available is over and above the requirements for running the Pharmacy Program and the Programs under Integrative Nutrition and Dietetics, the programs should begin with limited entry of students.

Dr. Iyer then requested the Academic Council Members to share their opinions with respect to starting of five new programs in Integrative Nutrition and Dietetics and express their views with respect to the concerns raised by UG-BoS and PG-BoS members.

Prof. Vavia expressed his compliments for team BCP for expanding in terms of other allied courses. Dr. Vavia enquired about the fee structures for the courses. Dr. Iyer replied that for the 3-year B.Sc. program, the fees was around Rs.1,32,500 per semester, i.e., Rs.7,95,000 for the entire program and for two years M.Sc. Program it was Rs.1,55,000 per semester i.e., Rs.6,90,000 for the complete Program. He mentioned that he had some suggestions with the nomenclatures used for the program. He enquired whether the nomenclature for the Programs is listed somewhere in any of the apex body like UGC and whether the nomenclature defined by the apex body has been used. Dr. Iyer clarified that the Programs with same nomenclature are offered by University of Mumbai. He also enquired what was the fee structure offered by other colleges for similar Programs. Prof. Vavia added that if the proposed fee structure is higher than that offered by the other colleges than what is the additional component provided to students by these programs which make the Programs unique. Considering that the student strength for the Pharmacy and the B.Sc. Programs will be exceeding 1000, Prof. Vavia suggested that it would be necessary to check the norms during submission of NBA and NAAC accreditation. He also added that it is necessary to confirm whether the proposal is compliant with the AICTE, PCI, NBA, and NAAC. He added that as per his knowledge the requirement of number, size of the classrooms and laboratories, the administrative requirements, internet facilities etc are calculated based on the number of students in the institution and BCP needs to look into whether they are geared up with this.

Page 4 of 8

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AC/005/2022

He added that the additional space that will be utilized for the non-technical Program should not have an impact on the Pharmacy Program. Prof. Vavia mentioned that he recommends starting these courses, but BCP has to have a plan of expanding the infrastructure, building, classrooms, etc. He added that as an autonomous institution, the vision and the goal of the institute needs to be understood.

Prof. Vavia also added that there should be consideration to how the chances of employment of these students can be improved. He added that it would be better to start with a smaller number of students rather than 120 and then based on the responses increase the intake to 120.

Prof. Amin mentioned that the current B. Pharm intake at BCP is of 100 students and for M.Pharm it is 54 students, i.e., roughly around 600 students. She expressed her concern that with intake of 120 students per year for the five programs, the total intake will increase to more than 1000 in the next three years and for accommodating so many students was there availability of space. She further added that Covid pandemic will continue to persist for few more years and with need of compliance to social distancing norms, and hence space will be the biggest constraint even with respect to the classroom and the laboratories. She requested that a serious thought be given to the space requirements. In addition, Dr. Amin also expressed that instead of starting non-technical courses why not start with technical courses such as Digital Marketing, ANDA etc related to B. Pharm students. Prof. Amin emphasized that this could be much more beneficial than opening your campus for B.Sc. students. She added that Programs which propose B. Pharm for entry level should be started. Further she expressed her concern that the total culture of a technical education will completely disappear. Courses on technology development, Project management would be more valid and would be appreciated by the students. She enquired about the output of this course in the society and added that the students passing out with these degrees are going to be Dietitians who would work in hospitals or start on their own. Further she added that the Program should be started only when the faculty and infrastructure for the course are in place. She added that it would be a pressure on the management if appropriate infrastructure is not provided to the students. Dr. Sampada agreed with Prof. Amin and enquired whether this would also bring in some confusion with the existing B.Pharm and M.Pharm students. She agreed that it is a good initiative, but she also suggested that the first priority should be B.Pharm and M.Pharm students. Dr. Sampada too expressed her concern over whether the students of two different type of programs coming together would be a good combination. She added that separate faculty would be recruited for the non-technical program and hence separate staffing arrangement would be required for the same. She also raised doubt about the pay package that the students passing out from this program will receive in comparison to the fees that they would pay for the program.

Page 5 of 8

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Dr. Sampada mentioned that Stanford institute has a fantastic course on Health, Nutrition and Dietetics. She enquired whether this kind of market research has been done to ensure that adequate enrolments will be there for the programs. Further she added that whether the degree of these students will be recognized in the service sector.

Dr. Eswaran mentioned that he too liked the proposal of starting new courses, however he agreed to the fact that by starting non-technical courses we will be digressing from the core Pharmacy courses to non-technical B.Sc. arena. He mentioned that BCP should look into starting Diploma or PG courses in Drug regulatory affairs which are one-year courses in line with the Regulatory Affairs Professionals Society (RAPS) in USA instead of two months online courses. He added that we should look into courses such as Quality control, Quality Assurance or courses which help to fulfil the needs of the industry. He added that our own students will enroll into these programs. He too expressed his concern over the pay packets that the students will be offered after putting in so much high fees for the UG and PG Programs.

Mr. Maniar mentioned that after grant of autonomy several proposals were received for starting collaborative courses, however due to covid pandemic there was a setback. he added that we started with our first certificate course in Data Analytics in Healthcare with Dr. Ashish Babiwale followed by certificate courses with Mr. Shivpuje. He added that BCP was looking for some parallel breakthrough programs such as those run by the Academy of Clinical Excellence and Courses in Pharmaceutical Management. He mentioned that there was a scope to improve ACE and restart programs in Pharmaceutical Management. He discussed that at present there is a heavy loss of Rs.20 lakhs per year by the aided college and to bridge this gap revenue generation is necessary. Mr. Maniar added that starting these Programs will help for resource mobilization. He added that it is 100% responsibility of LSI to take care of admin and academic requirements. Mr. Maniar invited all the members to visit BCP in the month of July to see the modifications done in infrastructure to meet the increased intake capacity for B.Pharm from 60 to 100. He affirmed that the infrastructure was in line with the increased requirement. He requested the members to provide suggestions for starting some additional courses related to Pharmacy.

Dr. Sampada enquired that has there any data been collected on the pay package offered to the students who have already passed out from University of Mumbai. She enquired whether we could see if these programs can have mergers with foreign universities. Mr. Maniar informed that the average package which these students are getting is Rs.4-6 lacs per annum. Regarding foreign collaborations, Mr. Maniar mentioned that the same can be discussed.

Page 6 of 8

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Dr. Nagarsenker agreed with the comments from the experts. She expressed her opinion that nutrition is close to pharmacy however if we can have programs that are closer to pharmacy, it would be a better alternative. She also expressed her concern for the number of intake and the corresponding preparation of the classroom, faculty, placement, and labs. She added that the proposed programs should not influence the ongoing and the core Pharmacy programs. Further she mentioned that we should be more ready for investing for maintenance of laboratory equipments.

Prof. Krishnapriya mentioned that the classroom and laboratory requirements with intake now being more than 100 for F.Y, S.Y and T.Y B.Pharm are still not adequate. There is classroom shortage which becomes more prominent especially during exams because as per PCI, two periodic tests are required to be taken per semester. She added that laboratory staff and faculty requirements are still required to be met for running the existing courses with the additional intake of 40.

Dr. Menon suggested that we can think of starting courses in subjects such as 'Packaging' of Pharmaceutical Products. She added that we can seek help from Indian Institute of Packaging who already have their course. Similarly, Cosmeticology and Pharmaceutical Branding are few more subjects in which diploma programs can be started. She expressed her feeling that if the non-technical course is also run during normal office hours, then there will be a lot of constraint on the core programs. She also brought to the notice the problem with students who would cancel their admissions and leave when they get admission to their course of choice. Dr. Iyer replied that this administrative part is going to be handled by LSI. He also added that even the faculty requirement for the non-technical programs is going to be handled by team LSI.

***Based on the discussion and deliberations, the Academic Council members recommended that the syllabus for the five programs in Integrative Nutrition and Dietetics offered by The Indian Pharmaceutical Association-Maharashtra State Branch's Bombay College of Pharmacy in collaboration with Lifeness Science Institute (LSI), Mumbai be approved with the recommendations suggested by UG-BoS and PG-BoS and the courses may be started provided all requirements of laboratories, classrooms, space, teaching and non-teaching staff for existing programs and the new programs are in place.***

Page 7 of 8

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**005.03** To approve the syllabus/module for **Two months Online Certificate course** in '**Fundamentals of Global Drug Regulatory Affairs**' offered by Bombay College of Pharmacy and **Pharma Literati** in association with The Indian Pharmaceutical Association-Maharashtra State Branch.

Dr. Iyer explained that the syllabus for a two months **Online Certificate course** in '**Fundamentals of Global Drug Regulatory Affairs**' offered by Bombay College of Pharmacy and **Pharma Literati** in association with The Indian Pharmaceutical Association-Maharashtra State Branch was started on 22<sup>nd</sup> May 2022 and a post facto recommendation of the course was sought from the by UG-BoS and PG-BoS members. He added that the UG-BoS member believed the introduction to PAT, QbD concepts in addition to regulations for manufacturing may be beneficial. Another suggestion received from the BoS members was that the regulatory guidelines for Neutraceuticals be added to the submodules.

*Based on the discussions and deliberations, the members of the Academic Council unanimously agreed that the syllabus/module for Two months Online Certificate Course in 'Fundamentals of Global Drug Regulatory Affairs' offered by Bombay College of Pharmacy and Pharma Literati in association with The Indian Pharmaceutical Association-Maharashtra State Branch be approved with the recommendations suggested by UG-BoS and PG-BoS.*

**005.04** Any other matter with the permission of the chair.

Dr. Iyer explained that the UG-BoS members had accepted the proposal for adding 11 herbs (Cinchona, Podophyllum, Galls, Cascara Rhubarb, Mustard, Gentian, Carotene, lutein, Plumbago, henna) to the class of phytochemicals in the existing syllabus (T.Y.B. Pharm-Sem V) and the same was being presented before the council for its approval.

*The Academic Council members unanimously approved the addition of 11 herbs Cinchona, Podophyllum, Galls, Cascara Rhubarb, Mustard, Gentian, Carotene, lutein, Plumbago, henna) to the class of phytochemicals in the existing syllabus (T.Y.B. Pharm-Sem V) adopted by Bombay College of Pharmacy-Autonomous.*

Since there was no other matter for discussion, the meeting was concluded with Vote of Thanks to the members of the committee and the Chair.

*Prof. Krishna Iyer*

I/c Principal and Chairperson-Academic Council  
Bombay College of Pharmacy-Autonomous

**PRINCIPAL**

Bombay College of Pharmacy  
Kalina, Mumbai - 400 098

*Prof. Krishnapriya Mohanraj*

Member-Secretary, Academic Council  
Bombay College of Pharmacy-Autonomous

Page 8 of 8



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