Bharati Vidyapeeth College of Pharmacy, Kolhapur

Near Chitranagari, Kolhapur-416013,Maharashtra, India.
Website: http://copkolhapur.bharatividyapeeth.edu

Shivaji University, Kolhapur Academic Audit 2022-2023

CERTIFICATE OF ACADEMIC AUDIT FROM 2022-2023

SHIVAJI UNIVERSITY, KOLHAPUR

Estd. 1962
"A++" Accredited by NAAC (2021)
with CGPA 3.52

CERTIFICATE OF ACADEMIC AUDIT

This is to certify that the college has undergone Academic Audit, as per the provision of Maharashtra Public University Act, 2016 Sec. 37(1)(j)(k). The Committee constituted for the said purpose, has recommended A+ *Grade to* BHARATI VIDYAPEETH'S COLLEGE OF PHARMACY, MOREWADI, KOLHAPUR *for the year from 2022-2023.*

Date: 14 MAR 2023
No 001165

Shri. Vilas S. Soyam
Deputy Register,
Affiliation T-2 Section

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

HARINATH NIVRUTTI MORE

Digitally signed by HARINATH NIVRUTTI MORE
Date: 2023.11.09 14:12:34 +05'30'

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

Academic and Administrative Audit Committee Letter

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004 MAHARASHTRA

PHONE: EPBX - 2609000 FAX:0091-0231-2691533 & 0091-0231-692333
DLL 0231 2609091, 2609135 Website : www.unishivaji.ac.in E-mail : affiliation.t2@unishivaji.ac.in
Website Conduit : (1) Affiliation → Affiliation T2 Circulars (2) Affiliation → Affiliation T2 Information Lists

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४ महाराष्ट्र

दूरध्वनी ईपीबीएक्स- २६०९०००, फॅक्स ००९१ ०२३१ २६९१५३३ व ००९१ ०२३१ ६९२३३३
संलग्नता टी २ विभाग थेट दूरध्वनी क्र. ०२३१ २६०९०९१, २६०९१३५

Estd : 1962
NAAC 'A++' Grade
Accredited by NAAAC (2021)
With CGPA3.52

जा.क्र. संलग्नता/टी-२/एसएससी/ No 0 0 2 2 0 दि. 11 APR 2022

प्रति,

१. प्राचार्य डॉ. एस. ए. तांबोळी (अध्यक्ष) आप्पासाहेब बिरनाळे कॉलेज ऑफ फार्मसी, दक्षिण शिवाजीनगर, सांगली. फोन नं. ०२३३ - २३२००६२/२३२४३७० मो.नं. - ९७३०६१९१९१	२. डॉ. एस. आर. कुंभार (सदस्य) विलिंग्डन महाविद्यालय, सांगली. फोन नं. - ०२३३-२६०११३१ / ६६९५१५४ मो. नं. - ९९२३१८३८६७

विषय : महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम २०१६ कलम ३७ (१) (ञ) आणि (ट) मधील तरतुदीनुसार विद्यापीठ संलग्नीत महाविद्यालयांचे विद्याविषयक लेखापरिक्षण करण्याकरिता गठीत समितीबाबत.

महोदय/महोदया,

उपरोक्त विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, खाली नमुद केलेल्या महाविद्यालय / संस्थेच्या नावासमोर उल्लेखित प्रस्तावासंदर्भात महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम २०१६ कलम ३७ (१) (ञ) आणि (ट) मधील तरतुदीनुसार विद्याविषयक लेखा परिक्षण करून अहवाल सादर करण्यासाठी उपरोक्त प्रमाणे आपली समिती नियुक्त करण्यात आली आहे.

अ.क्र.	संस्था/महाविद्यालयाचे नाव
१.	भारती विद्यापीठाचे, कॉलेज ऑफ फार्मसी, मोरेवाडी, कोल्हापूर. फोन नं. - ०२३१-२६३८८३३

कृपया या पत्राच्या तारखेपासून पाच दिवसातील तारीख समिती अध्यक्षांनी स्वत: निश्चित करून ती सर्व सदस्य व संबंधीत महाविद्यालयाच्या प्राचार्यांना कळवावी व समितीचा अहवाल महाविद्यालयास भेट दिलेल्या तारखेपासून दोन दिवसांच्या आत विद्यापीठ कार्यालयास सादर करावा अशी विनंती आहे. या अंमलबजावणीवर पुढील कार्यवाही अवलंबून असल्याने तातडीने कार्यवाही होणे आवश्यक आहे.

प्रस्तुत प्रस्तावास अनुसरुन करावयाच्या कार्यवाहीच्या संदर्भात समिती सदस्यांनी कृपया खालील बाबी विचारात घ्याव्यात.

१. महाविद्यालयांनी कलम ३७ (१) (ञ) आणि (ट) मधील तरतुदीनुसार विद्याविषयक लेखा परिक्षणच्या अहवालाबाबतच्या आवश्यक बाबींची सिध्दता करावयाची आहे. व त्यानुसार समितीने आपला अहवाल सादर करावयाचा आहे.
२. समितीने महाविद्यालय स्थापनेपासून महाविद्यालयात शिकविले जाणारे विषय/पाठ्यक्रम /विद्याशाखा/तुकड्या यांना शासन मान्यता व विद्यापीठाची मान्यता आहे की नाही याची शहानिशा करुन वस्तुस्थितीबाबत माहिती अहवालात नमूद करावी.
३. संबंधित महाविद्यालयास विद्यापीठाने परीक्षा केंद्र मंजूर केले असल्यास त्यासाठी आवश्यक त्या सोयी महाविद्यालयाने उपलब्ध केलेल्या आहेत किंवा नाहीत याची समितीने प्रत्यक्ष पाहणी करुन त्याबाबतच्या नोंदी व निरीक्षणांचीही अहवालात नोंद करावी.
४. बी.एड./एम.एड. महाविद्यालयांची एनसीटीई भोपाळ यांच्या मान्यतेनुसार प्रवेशक्षमता अंतिम करण्यासाठी समितीने तपासणी करुन प्रवेश क्षमता अंतिम करण्याच्या अनुषंगाने अहवाल सादर करावा.

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५. ज्या महाविद्यालयामध्ये एम.बी.ए. अभ्यासक्रम शिकविला जातो अशा महाविद्यालयामधील एम.बी.ए. अभ्यासक्रमास शिखर संस्थेने (AICTE) दिलेली मान्यता प्रवेशित विद्यार्थी व उपस्थित विद्यार्थी यांची तपासणी करुन अहवाल सादर करावा.

६. समितीने अहवालामध्ये नमुद केलेल्या सुचनांचे महाविद्यालयाचे प्राचार्य व समिती सदस्यांनी अवलोकन करुन योग्य ती कार्यवाही करावी.

७. समितीमधील अध्यक्ष अथवा सदस्य सदर समितीवर काम करण्यास असमर्थ असतील तर संबंधितांनी विद्यापीठ कार्यालयास याबाबत सकारण पत्राद्वारे/ई-मेलद्वारे त्वरीत कळवावे. यानुसार नवीन सदस्य अथवा अध्यक्ष यांचे नामनिर्देशन करुन दिले जाईल.

वरील बाबी विचारात घेऊन समिती अध्यक्षांनी निश्चित केलेल्या तारखांना संबंधित महाविद्यालयांना भेटी देऊन अहवाल सत्वर विद्यापीठाकडे पाठवून सहकार्य करावे अशी पुन:श्च विनंती करण्यात येत आहे.

टिप - १. विद्यापीठाने नियुक्त केलेल्या महाविद्यालयातील बाह्य परिक्षकांचे मानधन रु.१०००/- व प्रवास भत्ता संबंधित महाविद्यालयाने आदा करावा.

२. विद्याविषयक लेखा परिक्षणाचा अहवाल ऑनलाईन व ऑफलाईन सादर करणे आवश्यक आहे.

कळावे,

आपला विश्वासू

श्री विलास एस. सोयम
उपकुलसचिव
संलग्नता/टी-२ विभाग

प्रत : १. मा.प्राचार्य, भारती विद्यापीठाचे, कॉलेज ऑफ फार्मसी, मोरेवाडी, कोल्हापूर.

- यांना विनंती करण्यात येते की, समिती अध्यक्षांनी निश्चित केलेल्या तारखेस स्वत: उपस्थित राहावे. तसेच महाविद्यालयातील सर्व संबंधिताना भेटीच्या वेळी उपस्थित राहण्याबाबत सूचना द्याव्यात. विद्यापीठामार्फत गठित केलेल्या विविध समित्यांना संबंधित भेटीच्या वेळी योग्य ते सहकार्य मिळत नसल्याच्या तक्रारी कार्यालयाकडे प्राप्त झालेल्या आहेत. या अनुषंगाने नियुक्त समितीस त्यांनी मागणी केल्याप्रमाणे संबंधित अभ्यासक्रमासंदर्भातील आवश्यक ती कागदपत्रे उपलब्ध करुन द्यावीत व समितीस योग्य ते सहकार्य करावे.

तसेच विद्यापीठ संकेतस्थळावर WWW.UNISHIVAJI.AC.IN → AFFILIATION T-2 → AFFILIATION T-2 INFORMATION LISTS → ACADEMIC AUDIT FORMAT या लिंकवरील स्वयंमुल्यांकन अहवालाची प्रत तसेच तत्सम कागदपत्रांची फाईल समितीस पुरवावी व संगणक / प्रक्षेपण यंत्राद्वारे सादरीकरण करावे. समिती त्यानुसार आपली कार्यवाही करील.

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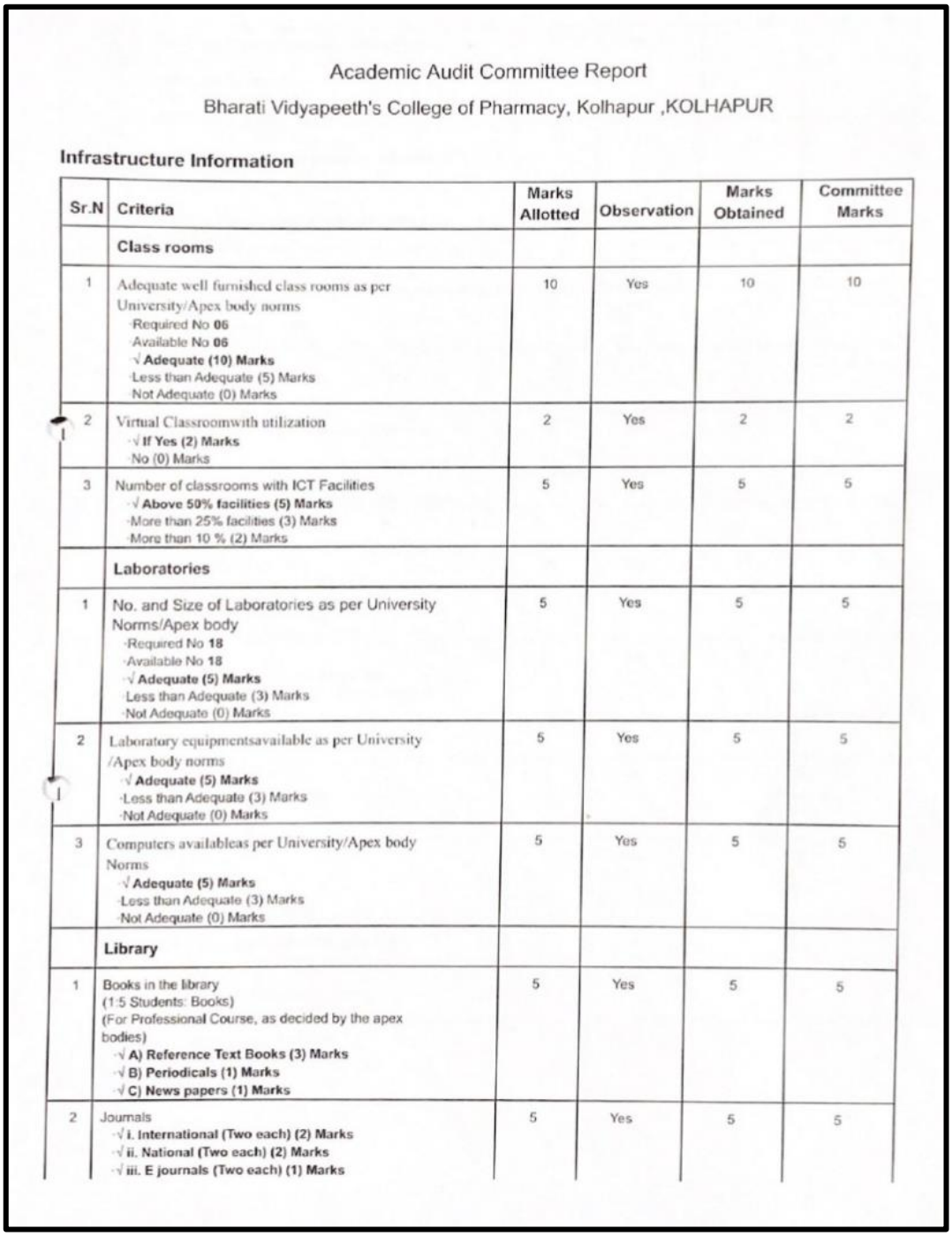
Academic Audit committee Report



Academic Audit Committee Report

Bharati Vidyapeeth's College of Pharmacy, Kolhapur ,KOLHAPUR

Infrastructure Information

Sr.N	Criteria	Marks Allotted	Observation	Marks Obtained	Committee Marks
	Class rooms				
1	Adequate well furnished class rooms as per University/Apex body norms ·Required No **06** ·Available No **06** ·√ **Adequate (10) Marks** ·Less than Adequate (5) Marks ·Not Adequate (0) Marks	10	Yes	10	10
2	Virtual Classroomwith utilization ·√ **If Yes (2) Marks** ·No (0) Marks	2	Yes	2	2
3	Number of classrooms with ICT Facilities ·√ **Above 50% facilities (5) Marks** ·More than 25% facilities (3) Marks ·More than 10 % (2) Marks	5	Yes	5	5
	Laboratories				
1	No. and Size of Laboratories as per University Norms/Apex body ·Required No **18** ·Available No **18** ·√ **Adequate (5) Marks** ·Less than Adequate (3) Marks ·Not Adequate (0) Marks	5	Yes	5	5
2	Laboratory equipmentsavailable as per University /Apex body norms ·√ **Adequate (5) Marks** ·Less than Adequate (3) Marks ·Not Adequate (0) Marks	5	Yes	5	5
3	Computers availableas per University/Apex body Norms ·√ **Adequate (5) Marks** ·Less than Adequate (3) Marks ·Not Adequate (0) Marks	5	Yes	5	5
	Library				
1	Books in the library (1:5 Students: Books) (For Professional Course, as decided by the apex bodies) ·√ **A) Reference Text Books (3) Marks** ·√ **B) Periodicals (1) Marks** ·√ **C) News papers (1) Marks**	5	Yes	5	5
2	Journals ·√ **i. International (Two each) (2) Marks** ·√ **ii. National (Two each) (2) Marks** ·√ **iii. E journals (Two each) (1) Marks**	5	Yes	5	5

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3	Digital Library Facilities: (E Journals /CD's/ DVD's/ Infinite/ Delnet etc.) ·√ **Adequate (5) Marks** ·Sufficient (3) Marks ·Insufficient (0) Marks	5	Yes	5	5
4	- ·√ **Internet Facility provided to staff & utilization (2) Marks**	2	Yes	2	2
5	- ·√ **Internet Facility for student with time table & utilization (2) Marks**	2	Yes	2	2
6	- ·√ **Book Bank Facility (2) Marks**	2	Yes	2	2
7	Library is automated ·√ **Fully automated (5) Marks** ·Partially automated (3) Marks	5	Yes	5	5
8	Reading Room ·√ **A) Student (3) Marks** ·√ **B) Faculty (1) Marks**	4	Yes	4	4
9	Budget allocated for purchase of books and journals during the year ·√ **A) 2% or more than 2% of total budget excluding salary (3) Marks** ·B) Up to 2% of total budget excluding salary (1) Marks	3	Yes	3	3
	Faculty				
1	No. of required Teaching Faculty ·√ **A. 100% Appointment- (14) Marks** ·B. 76% to 99% Appointment- (10) Marks ·C. 51% to 75% Appointment (8) Marks ·D. Below 50% Appointment- (0) Marks	14	Yes	14	14
2	- ·√ **Faculties deputed / sponsored for the improvement of academic qualification during last year. (3) Marks**	3	Yes	3	3
	Sports				
1	Gymkhana (with All Facilities) ·√ **A) Separate Room – (2) Marks** ·√ **B) Indoor - (2) Marks** ·√ **C) Outdoor (2) Marks**	6	Yes	6	6
2	Well Equipped Playground ·√ **A) Own - (4) Marks** ·B) Rented - (2) Marks ·C) On contract basis (1) Marks	4	Yes	4	4
	Curricular and extracurricular activities				
1	- ·√ **1. Separate room for N.S.S. (2) Marks** ·√ **2. Separate room for N.C.C (2) Marks**	4	Yes	4	2
2	Facilities for extracurricular & Cultural ·√ **Activities (4) Marks** ·Adequate (3) Marks ·Sufficient (2) Marks	4	Yes	4	4

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Laboratory and Laboratory equipments are not applicable to the college/Department, then consider 90 Marks for input and convert it accordingly

Grade :-

81% and Above = A+

71% to 80% = A

61% to 70% = B

51% to 60% = C

50% and Below = D

	College Marks	Committee Mark
Total Marks :-	100.00	
Mark's of obtained :-	100.00	98.00
Percentage Of marks :-	100.00%	98.00%
Grade :-	A+	A+

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B:Process (300 Marks)

Sr.N	Criteria	Marks Allotted	Observation	Marks Obtained	Committee Marks
	Teaching-Learning and Evaluation -				
1	The institution assesses the learning levels of the students, after admission and organizes special programs for advanced learners and slow learners ·√ **Advanced Learners Program : (5) Marks** ·√ **Slow Learners Program : (5) Marks**	10	Yes	10	10
2	Student centric methods, such as experiential learning, participative learning and problem solving methodologies etc. are used for enhancing learning experiences (02 Marks for each method –	30	Yes	30	30
3	Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc ·√ **96 % to 100% Teachers (20) Marks** ·76 % to 95 % Teachers (15) Marks ·51% to 75 % Teachers (10) Marks ·26 % to 50 % Teachers (5) Marks ·25 % & Less Teachers (2) Marks	20	Yes	20	20
4	Ratio of mentor to students for academic and stress related issues (Total Teacher : Total Students) (Mentor : Mentee) ·√ **Mentor: Mentee Ratio (1:50) - (5) Marks** ·Mentor: Mentee Ratio (1:75) - (3) Marks ·Mentor: Mentee Ratio (1:100 & Above) - (2) Marks	5	Yes	5	5
5	Number of capability enhancement and development schemes ·A. Guidance for competitive examinations ·B. Career Counseling ·C. Soft skill development ·D. Remedial coaching ·E. Language lab ·F. Bridge courses ·G. Yoga and Meditation ·H. Personal Counseling ·I. Brain Storming ·J. Any other ·√ **10 or more of the above (20) Marks** ·Any 6 of the above (16) Marks ·Any 5 of the above (12) Marks ·Any 4 of the above (8) Marks ·Any 3 of the above (4) Marks	20	Yes	20	20
6	The Institution ensures effective curriculum delivery through a well planned and documented process ·√ **Teaching Plan – (2) Marks** ·√ **Departmental meeting record for distribution of workload, timetable etc.- (1) Marks** ·√ **Feedback- (2) Marks**	5	Yes	5	5
7	Augmentation of Physical Infrastructure like classrooms, laboratories, library, computer equipments, etc. during the year	5	Yes	5	5
8	Upgradation on Laboratory equipments during the year	5	Yes	5	5

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9	Expenditure for purchase of books & Journals, CD's DVD's etc. during the year.	3	Yes	3	3
10	Expenditure for e-journals and online library during the year.	2	Yes	2	2
11	New Courses introduced of the total number of courses across all Programs offered during the year. ·√ **Above 5 (10) Marks** ·Between 3 to 5 (5) Marks ·Below 3 (3) Marks	10	Yes	10	0
12	Number of value-added coursesimparting transferable and life skills offered during the year ·√ **100% Departments with at least one Value added Course (20) Marks** ·76 % to 95 % (15) Marks ·51% to 75 % (10) Marks ·26 % to 50 % (5) Marks ·25 % & below (2) Marks	20	Yes	20	20
13	Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge ·√ **Established Incubation centre - (3) Marks** ·√ **Institution has created an eco system and Other initiatives for creation and transfer of knowledge - (2) Marks**	5	Yes	5	5
14	Number of functional MoUs with institutions of National, International importance, other Universities, Industries, Corporate Houses etc. during the year (1 Mark for one functional MoU) (Maximum 10 Marks) ·MoUs with institutions of national, international importance ·MoUs with Other Universities ·MoUs with Industries & Corporate Houses	10	Yes	10	10
15	Number of linkages for faculty exchange, student exchange, internship, field trip, onthe-job training, research, etc during the year (1 Mark for each activity) ·Number of linkages for faculty exchange ·Number of linkages for student exchange ·Number of linkages for internship ·Number of linkages for field trip ·Number of linkages for on-the-job training ·Number of linkages for research etc	10	Yes	10	10
16	Percentage of students undertaking field projects / internships ·√ **76% to 100% (10) Marks** ·51% to75% (5) Marks ·1% to 50% (3) Marks	10	Yes	10	10
17	Participation of College in different sports events of the university during last year. (Per Sport activity 1 Mark)	10	Yes	10	10
18	Organization & Participation Technical Quiz / Seminar / Paper presentation /Project competition / Cultural events during last year (Per Event 1 Mark)	10	Yes	10	10
19	Number of extension and outreach programs conducted in collaboration with industry, community and Non - Government Organizations through NSS/NCC/Red cross/YRC etc., during the year (Number of extension and outreach programs conducted) (1 Mark per activity)	10	Yes	10	10

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Bharati Vidyapeeth
College of Pharmacy, Kolhapur

20	Percentage of students participating in extension activities with Government Organizations, Non-Government Organizations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year ·1% to 25% (4) Marks ·26 % to 50% (10) Marks ·51 to 75% (12) Marks ·√ **76% to 100% (15) Marks**	15	Yes	15	15
21	Use of Learning Management System	5	Yes	5	5
22	Contribution in Lead College Scheme ·√ **By college as Participant (5) Marks** ·By College as Conducting authority (3) Marks	5	Yes	5	5
23	Contribution in SUK Journals	5	Yes	5	0
24	No. of Faculty Members assisted for university assessment Total Answer book by each faculty member ·√ **Assessed more than 50% their students admitted in college (5) Marks** ·Assessed less than 50% their students admitted in college (3) Marks ·Assessed exactly admitted students in their college (2) Marks	5	Yes	5	5
25	Participation in Cultural Programme ·International Level/National Level (3) Marks ·√ **State Level & University Level (2) Marks**	5	Yes	2	2
26	Participation of University sponsored schemes at college level	5	Yes	5	5
	Research -				
1	Financial Assistance provided from college to faculty for research	5	Yes	5	5
2	Organizing workshops / seminars for inculcating research habits amongst teachers	5	Yes	5	5
3	Incubation centers in the Institutions	3	Yes	3	3
4	Leave and other incentives provided to teachers for research	3	Yes	3	3
5	The teachers benefited under FIP scheme of UGC during last three year.	5	Yes	5	0
6	Workshops / seminars organized during last three years for inculcating research habits amongst students	3	Yes	3	3
7	Research competitions, quiz etc. organized for students during last three years	5	Yes	5	5
8	Motivation for participation to students in research events like Avishkar etc.	3	Yes	3	3
9	Financial assistants provided to students for research activities from the institution	5	Yes	5	5
10	Participation in SUK sponsor research Scheme	5	Yes	5	5
11	Prospective Plans achieved by the College	2	Yes	2	2
	Sports -				
1	Sports Scholarship / Financial assistance provided to students.	3	Yes	3	3

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

2	Extra coaching provided to sportsman for particular Sports.	3	Yes	3	3
3	Financial assistant for dietary food, travelling etc. to sports students.	3	Yes	3	3
4	Organized workshops / Seminars for sports students.	2	Yes	2	2

Grade :-

81% and Above = A+

71% to 80% = A

61% to 70% = B

51% to 60% = C

50% and Below = D

	College Marks	Committee Mark
Total Marks :-	300.00	
Mark's of obtained :-	297.00	277.00
Percentage Of marks :-	99.00%	92.33%
Grade :-	A+	A+

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

C:Output (100 Marks)

Sr.N	Criteria	Marks Allotted	Observation	Marks Obtained	Committee Marks
1	Average result of final year of last year. ·√ **91% to 100% Result (10) Marks** ·81% to 90 % Result (8) Marks ·71% to 80% Result (6) Marks ·61% to 70% Result (4) Marks ·60% & Below Result (2) Marks	10	Yes	10	10
2	No. of students passed in first class and above in final year(last year) ·√ **71% to 100 % (5) Marks** ·51% to 70 % (3) Marks ·26% to 50 % (2) Marks ·25% to 1 % (1) Marks	5	Yes	5	5
3	No. of students in University merit list in final year (last year) (1 Mark for each student in Merit List) (Maximum 5 Marks)	5	Yes	5	5
4	Percentage of student progression to higher education (previous graduating batch) A. UG to PG/ B. PG to M. Phil./Ph. D: C. PhD to Post doctoral: ·√ **61% to 100% (5) Marks** ·41% to 60% (4) Marks ·21% to 40% (3) Marks ·20% & Less (2) Marks	5	Yes	5	5
5	Percentage of students qualifying in state/ national/ international level examinations during the year (e.g.: NET/SLET/GATE/ GMAT/ CAT/ GRE/TOEFL/Civil Services/State government examinations) ·No of appeared students No of Qualified students ·√ **Above 2% (of appeared students) (5) Marks** ·Less than 2% (of appeared students)- (2) Marks	5	Yes	5	5
6	Percentage of placement of outgoing students during the last year Name of the employer with contact details Number of students placed Name of the employer with contact details Number of students placed ·√ **31 % To 100% (5) Marks** ·21 to 30% (3) Marks ·11 to 20 % (2) Marks 1 to 10% (1) Marks	5	Yes	5	5
7	Number of research papers published in the Journals notified on UGC website during the years (ISSN Only- **(Total Papers ÷ Total Teachers) ×100** ·No of Paper published ·√ **Per teacher Three Papers-76 % to 100 % (10) Marks** ·Per teacher Two Papers - 51% to 75 % (8) Marks ·Per teacher One Paper - 26 % to 50 % (5) Marks ·Per teacher Below One Paper – 1% to 25% (2) Marks	10	Yes	10	10

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

8	Books and chapters in edited volumes / books published, and papers in national / international conference-proceedings per teacher during the year (ISBN / ISSN Only) ·Number of papers Published in Proceeding during Year:-(1 Mark per Paper, Maximum 5 Marks) ·Number of Books Published during Year :- (1 Mark Per Book, Maximum 5 Marks) ·Chapters in books Published during Year :-(0.5 Mark Per Chapter, Maximum 5 Marks)	15	Yes	15	15
9	No. of faculty members presented papers in symposium / workshop / conference / seminar in last year (1 Mark per Paper, Maximum 5 Marks)	5	Yes	5	5
10	No. of Faculties contributed as resource persons at QIP/symposium /workshop / conference / seminar in last year. (1 Mark per Resource Person, Maximum 5 Marks)	5	Yes	5	5
11	No. of Students Completed M. Phil/Ph. D under the guidance of faculty Members in College. (1 Mark per Student, Maximum 5 Marks)	5	Yes	5	5
12	No. of Major/Minor Research Projects undertaken by faculty. (1 Mark per Project, Maximum 5 Marks)	5	Yes	5	5
13	Number of awards and recognition received by faculty from Government /recognized bodies during the year (1 Mark per Award/Recognitions) Total Number of Awards & Recognitions :	5	Yes	5	3
14	Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level etc. (award for a team event should be counted as one) during the year ·√ **International (Sports/ Cultural) (3) Marks** ·√ **National (Sports/ Cultural) (2) Marks**	5	Yes	5	2
15	Sports Scholarship received by the college during last year.	5	No	0	0
16	Percentage of students benefitted by Vocational Education and Training (VET)/Skill education/professional education during the year ·√ **51 to 100% (5) Marks** ·26 to 50% (3) Marks ·1% to 25 % (2) Marks	5	Yes	5	5

Grade :-

81% and Above = A+

71% to 80% = A

61% to 70% = B

51% to 60% = C

50% and Below = D

	College Marks	Committee Mark
Total Marks :-	100.00	
Mark's of obtained :-	95.00	90.00
Percentage Of marks :-	95.00%	90.00%
Grade :-	A+	A+

( ) Member
Dr. S. R. Kumbhar

( ) Chairman
Dr. S. A. Tamboli
28/04/22

Action Taken: No shortcomings were reported by University Audit Committee.

HARINATH NIVRUTTI MORE

Digitally signed by HARINATH NIVRUTTI MORE
Date: 2023.11.09 14:12:53 +05'30'

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

B. Pharm Accredited

Ranked 79th in India

Bharati Vidyapeeth College of Pharmacy, Kolhapur

Near Chitranagari, Kolhapur-416013, Maharashtra, India.
Website: http://copkolhapur.bharatividyapeeth.edu

NBA Compliance Report and follow-up action taken

First NBA Accreditation from 2013-16.

Second NBA Accreditation from 2019-22.

Third NBA Accreditation from 2022-25 (After compliance of all deficiencies listed in Second NBA Inspection)

HARINATH NIVRUTTI MORE

Digitally signed by HARINATH NIVRUTTI MORE
Date: 2023.11.09 14:10:26 +05'30'

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682

NATIONAL BOARD OF ACCREDITATION

File No. 28-387/2012-NBA **Date: 17.10.2013**

To

The Principal/Director
Bharati Vidyapeeth College of Pharmacy,
66/B Near Chitrangari,
Morewadi Karveer Kolhapur,
Maharashtra – 416013

Sub: Accreditation status of programme applied by Bharati Vidyapeeth College of Pharmacy, 66/B Near Chitrangari, Morewadi Karveer Kolhapur, Maharashtra – 416013

Dear Sir/ Madam

This has reference to your application dated 23-04-2011 seeking accreditation of National Board of Accreditation to B. Pharmacy Programme offered by your institution.

2. An Expert Committee conducted an on-site evaluation of the programme during 01-12-2012 to 02-12-2012. The report submitted by the Expert Committee was considered by the Pharmacy Accreditation Evaluation Committee (PAEC) at its meeting held on 25.07.2013. The Sub-Committee of Academic Advisory Committee on Pharmacy considered the recommendations of PAEC at its meeting held on **11.09.2013**. The Executive Committee of the National Board of Accreditation considered the recommendations of the Sub-Committee of Academic Advisory Committee on Pharmacy at its meeting held on **18.09.2013**. The Executive Committee approved the accreditation status of the programme as given in the table below:

Sl. No	Name of the Programme	Accreditation Status	Period of validity w.e.f. 18.09.2013	Remarks
(1)	(2)	(3)	(4)	(5)
1	B. Pharmacy	Accredited	3 Years	Accreditation Status granted is valid till the programme has the approval of the Competent Authority or the period given in Col. '4', whichever is earlier.

3. The accreditation status awarded to the programme as indicated in the above table does not imply that the accreditation has been granted to Bharati Vidyapeeth College of Pharmacy, Kolhapur, Maharashtra as a whole. **As such the institution should nowhere alongwith its name including on its letter head etc., write that it is accredited by NBA because it is programme accreditation and not institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the programme(s) accredited, level of programme (UG or PG as the case may be) and the period of validity of accreditation, as well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

4. The accreditation status of the above programme is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programme as indicated in the table in paragraph 2, appears on the website and information bulletin of your institution.

Contd/2-

10

5. The accreditation status awarded to the programme as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

6. Copies of the Comprehensive Report submitted by the Chairman of the Expert Committee along with the detailed report submitted by the Expert Team which visited your institution for the programme evaluated are enclosed for reference and to take necessary action to overcome the shortcomings, if any, pointed out by the Expert Team.

7. If the institution is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,

(Dr. Anil Kumar Nassa)
Member Secretary

Encls: 1. Copy of Report of Chairman of the Visiting Team
2. Copy of Expert Report of the Visiting Team.

Copy to:

1. The Secretary,
Higher & Technical Education & Employment Department
Govt. of Maharashtra, Mantralaya,
Mumbai-400 032

2. The Director
Directorate of Technical Education
Govt. of Maharashtra
3, Mahapalika Marg
Mumbai-400 001 (MS)

3. The Registrar,
Shivaji University, Vidyanagar,
Kolhapur- 416 004.

4. Member Secretary, AICTE
All India Council for Technical Education
7th Floor, Chanderlok Building
Janpath, New Delhi-110 001

5. Accreditation File

6. Master accreditation file of the State.

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 ; Telefax: +91 11 4308 4903
Website: www.nbaind.org

NATIONAL BOARD of ACCREDITATION

File No. 28-387-2010-NBA **Date: October 31, 2019**

To,

The Principal,
Bharati Vidyapeeth College of Pharmacy,
Near Chitranagri, Kolhapur,
Maharashtra- 416013.

Subject: Accreditation status of program applied by Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Near Chitranagri, Kolhapur, Maharashtra- 416013.

Sir,

This has reference to your application Id No. 2773-14/02/2018 seeking accreditation by National Board of Accreditation to the UG Pharmacy program offered by Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Near Chitranagri, Kolhapur, Maharashtra- 416013.

2. An Expert Team conducted an on-site evaluation of the program during **13th to 14th July, 2019**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the program as given in the table below:

Sl. No.	Name of the Program (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1	Pharmacy	January, 2016 Document	Accredited (724 marks awarded by the Visiting Team decreased to 708 as per the observations made and indicated in the Annexure to this letter)	Academic Years 2019-2020 to 2021-2022 i.e. upto 30-06-2022	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier.

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The program has been granted accreditation for three years. **Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Near Chitranagri, Kolhapur, Maharashtra- 416013** should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above to be eligible for consideration by the concerned Committee in NBA for further processing of the accreditation status. This could entail further extension of accreditation or a revisit, as deemed appropriate by NBA Committees.

Contd..2/-

5. The accreditation status awarded to the program as indicated in the above table does not imply that the accreditation has been granted to **Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Near Chitranagri, Kolhapur, Maharashtra- 416013** as a whole. As such the Institute should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above program is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited program as indicated in the Table in paragraph 2, appears on the website and information bulletin of your Institution.

7. The accreditation status awarded to the program as indicated in Table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. A copy of Report of Chairman of the Visiting Team and Evaluators' report in respect of the above program is enclosed.

9. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,

(Dr. Anil Kumar Nassa)
Member Secretary

Encls: 1. Copy of Report of Chairman of the Visiting Team.

2. Copy of Expert Report of the Visiting Team.

Copy to:

1. The Director of Technical Education,
   Mahapalika Marg, Dhobi Talao,
   Chhatrapati Shivaji Terminus Area,
   Fort, Mumbai, Maharashtra 400001.

2. The Registrar,
   Shivaji University,
   Vidyanagar,
   Kolhapur- 416 004. Maharashtra

3. Accreditation File

4. Master Accreditation File of the State

राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड़, नई दिल्ली -110003

NATIONAL BOARD OF ACCREDITATION

4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

NATIONAL BOARD OF ACCREDITATION

File No. 28-387-2010-NBA

Date: January 30, 2023

To,

The Principal,
Bharati Vidyapeeth College of Pharmacy,
Near Chitranagri,
Kolhapur,
Maharashtra- 416013.

Subject: Further accreditation status on the basis of Compliance Report of UG-Pharmacy program offered by Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Maharashtra- 416013.

Sir,

This is regarding Compliance Report submitted by **Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Maharashtra- 416013** for the UG-Pharmacy program which was accredited by NBA for academic years 2019-20 to 2021-22 i.e., upto 30.06.2022.

2. An Expert Team conducted data verification of the program on **15th October, 2022**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the program as given in the table below:

Sl. No.	Name of the Program (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Pharmacy	January, 2016 Document	Accredited	Academic Years 2022-2023 to 2024-2025 i.e. Up to 30-06-2025	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The program has been granted accreditation for further 3 years. **Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Maharashtra- 416013** should submit fresh online application under SAR January, 2016 document through e-NBA portal at least five months before the expiry of validity of accreditation mentioned above.

Contd.2/-

5. The accreditation status awarded to the program as indicated in the above table does not imply that the accreditation has been granted **Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, Maharashtra-416013** as a whole. **As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above program is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited program as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

7. The accreditation status awarded to the program as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. A copy of Report of the Visiting Team in respect of the above program is enclosed.

Yours faithfully,

(Dr. Anil Kumar Nassa)
Member Secretary

Encls.: 1. Copy of Report of the Visiting Team in respect of the program.

Copy to:

1. The Director of Technical Education
   3, Mahapalika Marg
   Opp. Metro Cinema
   Chhatrapati Shivaji Terminus Area,
   Mumbai, Maharashtra-400001

2. The Registrar,
   Shivaji University,
   Vidya Nagar, Kolhapur,
   Maharashtra 416004

3. Accreditation File

4. Master Accreditation file of the State

Evaluator's Visit Report of NBA July 2019

PART A

Evaluator's Visit Report

Undergraduate Pharmacy Program

Name of the Institution

Bharatiya Vidya Peeth College of Pharmacy
Kolhapur Maharashtra.

Name of the Program

B. Pharm.

Visit Dates

13 & 14th July 19.

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi 110003
Tel: +91 112430620-22; 01124360654; www.nbaind.org

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a two day accreditation visit from 13/7/19 to 14/7/19 Bharati Vidya Peeth College Of Pharmacy Kolhapur. to evaluate UG Pharmacy program B. Pharmacy.

Pre visit meeting of the expert team was held on 12/7/19 at 7 pm. to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr H.N More. The briefing on the institution was given by Dr H.N. More and on the program was given by the Dr H.N. More The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	☑	Alumni	☑
Employers	☑	Parents	☑
Staff members	☑	Students	☑

The Program Evaluation Team found that (general findings about the program to be mentioned)

College has good infrastrure.
Institution has requiered teaching staff.
Interaction with students, Parents and Alumni
was positive about the institution.
placement has been good.
Measures taken to bridge Curriculam gaps
should be improved.
Course outcome have to be defined ~~each~~ properly
Publication of technical magzine needs improvement

H.N Mo
14/07/2019

Program Details

Name of the Program					
		U G Pharmacy			
Year of Commencement					
Student	Year	Sanctioned Intake		Actual Admitted	
	CAY (2018-2019)	60		60	
	CAY m1 (2017-2018)	60		60	
	CAY m2 (2016-2017)	60		60	
	Average over three academic years i.e. CAY, CAYm1 and CAYm2	60		60	
	Total Students in the Programme (1st to Final Year)	259			
[Placement + Higher studies + Entrepreneurship] %	CAYm1 (2017-2018)	85-91 %.			
	CAY m2 (2016-2017)	85-51 %.			
	CAY m3 (2015-2016)	78-46 %.			
	Averaged over three academic years i.e. CAYm1, CAYm2 and CAYm3	83.307.			
Faculty (Attach a Copy of faculty list compared with time table)	Regular		CAY	CAYm1	CAYm2
		Professor	5	5	5
		Associate professor	4	4	4
		Assistant professor	13	11	13
	Contractual	Professor			
		Associate professor			
		Assistant professor			
	No. of PhD. available in the dept.		11		
	Student - Faculty ratio (averaged over three academic years i.e. CAY, CAYm1 and CAYm2	15.27			
Previous accreditation (if any)	First accreditation	No. of years accredited for	2013-16 Three years		
		With effect from			
	Previous accreditation	No. of years accredited for	3 years		
		With effect from	2013-16.		

CAY: Current Academic Year
CAYm1: Current Academic Year minus 1= Current Assessment year
CAYm2: Current Academic Year minus 2= Current Assessment year minus 1

Note: Minimum 75% should be Regular faculty and the remaining shall be Contractual Faculty as per AICTE norms and standards.
The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Student Faculty Ratio.

A N Mu
IA/07/2019

Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title B. Pharm.

Strengths:

1. College has good infrastructure.
2. Eleven Staff have Ph.D Qualification.
3. Institution has Sequiered Teachig & Non teaching Staff.
4. Placement has been good.
5.

Weakness/Areas of improvement:

1. Cussiculum gaps identified and measures taken needs improvement.
2. Course outcome have to be defined properly and it should not be repeated.
3. Academic performance needs improvement
4. Additional classes needs to be taken for I B.Pharm students to improve performance.
5.

14/07/2019

Deficiencies:

1. Quality instruments needs to be added.
2.
3.
4.
5.

Other Observations, if any:

1. Alumni, students and Pasents have given Positive opinion about institution.
2. First B. Pharm students are of the opinion that they requiere additional soft skill Programme in language classes.
3.
4.
5.

A N Mir
14/07/2015

Des Shashidhara

B P Ravindra
(Dr B P Ravindra)

Information for Evaluation

Award of Accreditation (UG Pharmacy Programs)

1. Accreditation for Six years will be accorded to a program on fulfilment of the following requirements:

i. Program should score a minimum of 750 points in aggregate out of 1000 points with at least 60% in each criterion

ii. The admissions in the undergraduate programs under consideration should be greater than or equal to 75%, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).

iii. Faculty Student Ratio in the department of the program under consideration should be less than or equal to 1:15, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).

iv. At least one Professor and one Associate Professor on regular basis should be available in the respective Department for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

v. The placement, Higher Studies and Entrepreneurship ratio should be greater than or equal to 40%, averaged over three academic years i.e. Current Academic Year Minus One (CAYm1), Current Academic Year Minus Two (CAYM2) and Current Academic Year Minus Three (CAYM3).

vi. HOD of the program under consideration possesses Ph.D. degree in the Current Academic Year (CAY).

vii. Number of Ph.D. available in the department should be greater than or equal to 30% (including the director) of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

2. Accreditation for Three years will be accorded to a program on fulfilment of the following requirements:

i. Program should score a minimum of 600 points in aggregate and at least 40% marks in Faculty Information and Contributions (Criterion V).

ii. The admissions in the undergraduate programs under consideration should be greater than or equal to 50%, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).

iii. Faculty Student Ratio in the department of the program under consideration should be less than or equal to 1:20, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).

iv. At least one Professor or one Associate Professor should be available in the respective Department for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

v. The placement, Higher Studies and Entrepreneurship ratio should be greater than or equal to 40%, averaged over three academic years i.e. Current Academic Year Minus One (CAYm1), Current Academic Year Minus Two (CAYM2) and Current Academic Year Minus Three (CAYM3).

vi. HOD of the program under consideration possesses Ph.D. degree in the Current Academic Year (CAY).

vii. Number of Ph.D. available in the department should be greater than or equal to 20% of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

3. No Accreditation of the program

If the program fails to meet the criteria for award of accreditation for three years, it is awarded "Not Accredited" Status

Compliance/ Action Taken Report of NBA

BHARATI VIDYAPEETH

COLLEGE OF PHARMACY, KOLHAPUR

: Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

DTE College Code No. - 6256
(Approved by A.I.C.T.E., P.C.I., New Delhi)
B.Pharm. Course Re-Accredited by NBA
Permanently Affiliated to Shivaji University, Kolhapur & Included in list under Sect:2(F) & 12(B) of UGC Act, 1956
LEAD COLLEGE, SHIVAJI UNIVERSITY, KOLHAPUR
Near Chitranagari, Kolhapur - 416013 (MS) Tel. (0231) 2637286, 2638392, Fax : 2638833

: Principal :
Dr. H.N. MORE
M.Pharm., Ph.D.

Ref. No. : BV/CPK / 122 /2022-2023

Date : 25/05/2022

To,
The Member Secretary
National Board of Accreditation,
NBCC Place, East Tower, 4th Floor,
Bhisham Pitamah Marg, Pragati Vihar,
New Delhi-110003, INDIA

Sub :- Resubmission of Compliance Report of UG Pharmacy program of Bharati Vidyapeeth, College of Pharmacy, Kolhapur for extension of accreditation by NBA.

Ref : 1) Application No. 2773-14-02-2018 (File No.28-387-2010-NBA)
2) NBA support team e-mail dated 1st Feb. 2022
3) Our office e-mail dated 30th April 2022

Respected Sir/Madam,

In connection to above Expert Team report and your office e-mail dated 1st Feb. 2022 regarding consideration for further extension of accreditation of UG Pharmacy Program, we have submitted the Compliance Report of UG Pharmacy Program (Considering CAY as 2021-22) along with processing fees of Rs.1,18,000/- on 30th April 2022 for consideration by the concerned committee in NBA for further processing of extension of accreditation by NBA, but there is a correction in Annexure-V so we are resubmitting herewith the Compliance Report with the corrected Annexure-V.

This is for your kind consideration and necessary action please.

Attachments : Covering Letter, NBA Compliance Report and Annexures I to XVII-C

Thanking you,

Yours faithfully,

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

DETAILED STATEMENT

Transactions List - -BHARATI VIDYAPEETH COL.OF PHARMACY KOL. (INR) - 016601008524

No.	Transaction ID	Value Date	Txn Posted Date	ChequeNo.	Description	Cr/Dr	Transaction Amount(INR)	Available Balance(INR)
1	C67928644	04-01-2022	04-01-2022 05:49:51 PM	-	GIB/000077888495/DTAX /639034001042203729	DR	623	959410.75
2	S86823779	04-06-2022	04-06-2022 10:31:26 AM	-	GIB/000077994277/DTAX /639034006042201390	DR	99500	859910.75
3	S87014035	04-06-2022	04-06-2022 10:36:35 AM	-	GIB/000077994487/DTAX /639034006042201498	DR	123000	736910.75
4	S87282344	04-06-2022	04-06-2022 10:44:18 AM	-	GIB/000077994869/EPFO /3122204001776	DR	141800	595110.75
5	S21162498	04-07-2022	04-07-2022 10:47:43 AM	-	GIB/000078056791/DTAX /639034007042203427	DR	30000	565110.75
6	S81049577	04-12-2022	04-12-2022 09:57:41 AM	-	CLG/B V COLLEGE OF PHARMACY/091879/BSB/01.04.2022	CR	240300	805410.75
7	S4833507	04-16-2022	04-16-2022 09:46:59 AM	-	CLG/CHEQUE/086624/BSB/01.04.2022	CR	134700	940110.75
8	S36175587	04-20-2022	04-20-2022 03:18:48 PM	-	BIL/ONL/000378817616/Airtel Dig/mobile bill	DR	471	939639.75
9	S36259979	04-20-2022	04-20-2022 03:21:56 PM	-	BIL/ONL/000378819731/Bharat San	DR	58	939581.75
10	S36355335	04-20-2022	04-20-2022 03:25:24 PM	-	BIL/ONL/000378822037/Bharat San	DR	2772	936809.75
11	S36445933	04-20-2022	04-20-2022 03:28:42 PM	-	BIL/ONL/000378824248/Bharat San/2638833	DR	2772	934037.75
12	S36526196	04-20-2022	04-20-2022 03:31:46 PM	-	BIL/ONL/000378826349/Bharat San/2991025	DR	695	933342.75
13	S93690238	04-22-2022	04-22-2022 01:26:12 PM	-	GIB/000078910131/DTAX /639034022042204195	DR	262	933080.75
14	S93516276	04-22-2022	04-22-2022 05:04:42 PM	-	BIL/REV PMT ID 378819731	CR	58	933138.75
15	S95134128	04-29-2022	04-29-2022 11:13:28 AM	-	BIL/ONL/000384770775/MSEDCL(TEC/BILL Feb & Mar	DR	44380	888758.75
16	S32157136	04-30-2022	04-30-2022 12:42:52 PM	-	INF/INFT/027351932351/NBA Processing Fee/NationalBoard	DR	118000	770758.75

Annexure - II

NATIONAL BOARD OF ACCREDITATION

Compliance Report Format
(UG Pharmacy)

PART- A: Institutional Information

A1. Name and Address of the College:-

City:- Kolhapur | State:- Maharashtra

Pin Code:- 416 013

Phone No (including STD Code):- (0231) 2637286 Fax :- (0231) 2638833

Website:- copkolhapur.bharatividyapeeth.edu | E-mail:- copkolhapur@bharatividyapeeth.edu

A2. Year of Establishment:- 1996

A3. First Approval Letter No.: F.No.740-89-136(P)/ET/96 **Date:**30/05/1996

A4. Head of the Institution:-

Name:- Dr. Harinath Nivrutti More | Designation:- Principal

Nature of Appointment:- Permanent

Phone No:- (0231) 2638833 | Mobile:- 9890626433

E-mail:- harinath.more@bharatividyapeeth.edu | Fax No:- (0231) 0638833

A5. Name and Address of the Affiliating University:- Shivaji University, Vidyanagar, Kolhapur

City:- Kolhapur

State:- Maharashtra | Pin Code:- 416 004

Website:- unishivaji.ac.in | E-mail:- registrar@unishivaji.ac.in

Phone No (Including STD Code):- 0231- 2609000 Fax:- 0231- 2692333

A6. Type of the Institution:

Institute of National Importance	☐	Autonomous	☐
University	☐	*Any other (Please specify)	☑
Deemed University	☐		

***Provide Details:** Private Unaided and Affiliated to Shivaji University, Kolhapur

A7. Ownership Status:

Central Government	☐	Trust	☑
State Government	☐	Society	☐
Government Aided	☐	Section 25 Company	☐
Self financing	☑	*Any Other (Please specify)	☐

*Provide Details:

A8. Students Admissions (In First year at institute level)

A8.1- For UG Program

Item	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
Sanctioned intake	100	60	60
Number of students admitted	109	68	63
Total Admitted/Sanctioned Intake= % Admitted	100%	100 %	100 %
Average % Admitted	100%		

Table A8.1

A8.2- For all PG Programs

Item	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
Sanctioned intake	40	40	40
Number of students admitted	41	43	37
Total Admitted/Sanctioned Intake= % Admitted	100%	100 %	92.5 %
Average % Admitted	97.5 %		

Table A8.2

CAY: Current Academic Year

CAYm1: Current Academic Year minus 1 = Current Assessment Year

CAYm2: Current Academic Year minus 2 = Current Assessment Year minus 1

Note: Academic year is July to June

A9. Student Admission details at Lateral Entry/Separate Division

Item	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
Number of students actually admitted through Lateral Entry	11	13	08
Number of studentsadmitted through Separate Division	--	--	--
Total Number of students admitted in the secondyear	11	13	08

Table A9

Note: Provide student details of the second shift (if applicable)

A10.Total number of employees in the institution:

A10.1. Regular Employees (Faculty and Staff):

Items		CAY (2021-22)		CAYm1 (2020-21)		CAYm2 (2019-20)	
		Min	Max	Min	Max	Min	Max
Faculty in Pharmacy	M		22		21		17
	F		08		04		06
Faculty in Science & Humanities	M		--		--		--
	F		--		--		--
Non-teaching staff	M		32		36		35
	F		03		03		03

Table A10.1

A10.2. Contractual Staff Employees (Faculty and Staff): (Not covered in Table A10.1):

Items		CAY (2021-22)		CAYm1 (2020-21)		CAYm2 (2019-20)	
		Min	Max	Min	Max	Min	Max
Faculty in Pharmacy	M		--		--		--
	F		--		--		--
Faculty in Science & Humanities	M		--		01		01
	F		02		01		02
Non-teaching staff	M		01		--		--
	F		03		02		02

Table A10.2

Note: Specify the reason if there is drop in number of faculty members during the specified academic years. Provide Faculty details of the second shift (if applicable)

A11. Provide separate Information for each of the program(s) for which compliance is to be submitted

Name of the Department	Name of the programs being offered	Name of the program to be considered	Year of Start	Intake	Increase/ Decrease in intake,if any	Year of increase/ ~~Decrease~~	AICTE Approval	Accreditation Status*
Pharmacy	Pharmacy	B. Pharmacy	1996	40	60 (Increased 20 seats) 100 (Increased 40 seats)	1999 2021	1) F.No.740-89-136(P)/ET/96 dt.30/05/1996 2) F.No.740-89-136(P)/ RC/96 dt.10/09/1999 3) F.No. Western/1-9322732538/2021/EOA/dt. 25/06/2021	3 years (w.e.f. dt.01/07/2019 to 30/06/2022)

Table A11

**** Write applicable one:***

- Applying first time
- Granted provisional accreditation for two/three years for the period(specify period)
- Granted accreditation for 5 / 6 years for the period (specify period)
- Not accredited (specify visit dates, year)
- Withdrawn (specify visit dates, year)
- Not eligible for accreditation
- Eligible but not applied

PART B- Program Information

B1. Name of the Program : B. Pharmacy

B2. Faculty Information and Contributions

Please provide the list of faculty in the program according to the below format as **Appendix I**

S. No.	Name	PAN No.	Qualification	Designation	Date of Joining	Association Type	Currently Associated with (Yes/No)	Date of Leaving (If Associated with is "NO")
1	Dr. Harinath Nivrutti More	AAZPM8775H	M.Pharm. Ph.D.	Principal	01/08/1998	Regular Full Time	Yes	
2	Dr. Manish Sudesh Bhatia	ABJPB5055A	M.Pharm. Ph.D.	Professor	10/10/1996	Regular Full Time	Yes	
3	Dr. Namdeo Ramhari Jadhav	ACWPJ5643A	M.Pharm. Ph.D.	Professor	06/07/1998	Regular Full Time	Yes	
4	Dr. Mrs. Neela Manish Bhatia	ABJPB5056D	M.Pharm. Ph.D.	Professor	25/09/1997	Regular Full Time	Yes	
5	Dr. Ashok Ananda Hajare	AAFPH4951E	M.Pharm. Ph.D.	Professor	22/10/1996	Regular Full Time	Yes	
6	Mr. Ravindra Jagannath Jarag	AEGPJ8008M	M.Pharm	Associate Professor	03/08/2000	Regular Full Time	Yes	
7	Dr. Anilkumar Jalindar Shinde	APUPS2228B	M.Pharm Ph.D.	Associate Professor	04/02/2002	Regular Full Time	Yes	
8	Dr. Firoj Allauddin Tamboli	ACKPT9583D	M.Pharm Ph.D.	Associate Professor	10/07/2006	Regular Full Time	Yes	
9	Mrs. Rekha Ravindra Jarag	AHKPJ6162F	M.Pharm	Assistant Professor	30/10/2006	Regular Full Time	Yes	
10	Dr. Prafulla Balkrishna Choudhari	AILPC1060D	M.Pharm Ph.D.	Associate Professor	02/07/2007	Regular Full Time	Yes	
11	Mr. Vijaykumar Tanajirao Pawar	ASJPP8488J	M.Pharm	Assistant Professor	16/07/2007	Regular Full Time	Yes	
12	Mr. Deepak Vamanrao Mahuli	ARAPM8333R	M.Pharm	Assistant Professor	01/08/2007	Regular Full Time	Yes	
13	Mr. Udaykumar Sayajirao Patil	ASWPP8130G	M.Pharm	Assistant Professor	01/08/2007	Regular Full Time	Yes	
14	Dr. Dipak Pralhad Mali	AQRPM0197R	M.Pharm Ph.D.	Assistant Professor	17/08/2010	Regular Full Time	Yes	
15	Mr. Rakesh Pandit Dhavale	ARLPD2624B	M.Pharm	Assistant Professor	02/08/2010	Regular Full Time	Yes	
16	Dr. Dinanath Tukaram Gaikwad	AKRPG7152L	M.Pharm Ph.D.	Assistant Professor	16/08/2011	Regular Full Time	Yes	
17	Dr. Durgacharan Arun Bhagwat	AQJPB5323Q	M.Pharm Ph.D.	Assistant Professor	13/02/2014	Regular Full Time	Yes	
18	Ms. Asha Sambhaji Jadhav	ANSPJ9906B	M.Pharm	Assistant Professor	01/01/2019	Adhoc	Yes	
19	Dr. Ms.Snehal Shripad Ashtekar	AQCPA7569C	M.Pharm Ph.D.	Assistant Professor	01/01/2019	Adhoc	Yes	
20	Mr. Vishal Hindurao Thorat	APUPT4145C	M.Pharm	Assistant Professor	01/07/2019	Adhoc	Yes	
21	Mr. Rohankumar Rajaram Chavan	BWBPC2893K	M.Pharm	Assistant Professor	22/02/2021	Adhoc	Yes	
22	Ms. Pooja Shivanand Uchale	AEUPU7707E	M.Pharm	Assistant Professor	01/12/2021	Adhoc	Yes	

23	Ms. Swapnali Ashok Thorat	ASFPT8299R	M.Pharm	Assistant Professor	01/12/2021	Adhoc	Yes	
24	Ms. Priyanka Subhashrao Yadav	AKLPY3224B	M.Pharm	Assistant Professor	01/12/2021	Adhoc	Yes	
25	Ms. Jidnyasa Rajesh Pantwalawalkar	CZSPP5519E	M.Pharm	Assistant Professor	01/12/2021	Adhoc	Yes	
26	Mrs. Pradnya Kiran Mane	ADBPH4991D	M.Pharm	Assistant Professor	20/10/2021	Adhoc	Yes	
27	Mr.Sandeep Annasaheb Chougule	AOLPC8326G	M.Pharm	Assistant Professor	21/10/2021	Adhoc	Yes	
28	Mr. Mahesh Sanjay Apte	BLNPA3040H	M.Pharm	Assistant Professor	01/07/2020	Adhoc	Yes	
29	Mr. Aditya Shrikant Chougule	ALWPC3693C	M.Pharm	Assistant Professor	01/07/2020	Adhoc	Yes	
30	Mr.Ashish Ramdhandra Yadav	ABHPY3286E	M.Pharm	Assistant Professor	01/07/2020	Adhoc	Yes	
31	Miss. Gayatri Suryakant Ghorpade	AXKPG7543D	M.E.M.	Assistant Professor	01/07/2020	Contract	Yes	
32	Ms. Megha Suresh Kamble	FNZPK5827G	M.A.	Assistant Professor	05/01/2022	Contract	Yes	

Table B2

Student Faculty Ratio (No of Faculty as per the sanctioned intake):-

(To be calculated at Department Level)

No. of UG Programs in the Department (n): _____
No. of PG Programs in the Department (m): _____

No. of Students = Sanctioned Intake (S.I.) + Actual admitted students through Lateral Entry (L.E.), if any

(The above data to be provided considering all the UG and PG programs of the department)

S = Total Number of Students in the Department
F = Total Number of Faculty Members in the Department

Student Faculty Ratio (SFR) = S / F

Name of the 1st UG Program						
Year of Study	**CAY (2021-22)**		**CAYm1 (2020-21)**		**CAYm2 (2019-20)**	
	Sanction Intake	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**
1st Year	100	NA	60	NA	60	NA
2nd Year	60	11	60	13	60	08
3rd Year	60	13	60	08	60	08
4th Year	60	08	60	08	60	06
Sub-Total	**280**	**32**	**240**	**29**	**240**	**22**
Total	**312**		**269**		**262**	

Table B2.1a

Similar table for all other UG Programs

Name of the 1st PG Program			
Year of Study	**CAY (2021-22)**	**CAYm1 (2020-21)**	**CAYm2 (2019-20)**
	Sanction Intake	**Sanction Intake**	**Sanction Intake**
Pharmaceutical Chemistry			
1st Year	10	10	10
2nd Year	10	10	10
Total	**20**	**20**	**20**
Name of the 2nd PG Program			
Pharmaceutics			
1st Year	15	15	15
2nd Year	15	15	15
Total	**30**	**30**	**30**
Name of the 3rd PG Program			
Pharmaceutical Quality Assurance			
1st Year	15	15	15
2nd Year	15	15	15
Total	**30**	**30**	**30**

Table B2.1b

Similar table for all other PG Programs

Table B2.1c

Description	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
Total No. of Students in the Department **(S)**	392	349	342
No. of Faculty in the Department **(F)**	32	27	26
Student Faculty Ratio (SFR)	12.25	12.92	13.15
Average SFR	**12.77**		

Note: The years mentioned in the headers are exemplary. Institute has to consider the years as perthe definition of the CAY, CAYm1 and CAYm2.

B2.2. Faculty Information

S. No.	Faculty Details	Number of Faculty in the Department for both UG and PG		
		CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
1.	**Professor**	05	05	05
2.	**Associate Professor**	04	04	04
3.	**Assistant Professor**	23	18	17
4.	**Number of Ph. D** (as per the AICTE norms)	12	12	11

Table B2.2

B2.3. Faculty Cadre Proportion

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per B2.1

F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per B2.1

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per B2.1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY (2021-22)	2	5	4	4	15	21
CAYm1(2020-21)	2	5	4	4	11	18
CAYm2(2019-20)	2	5	4	4	11	17
Average Numbers	RF1= 2	AF1= 5	RF2= 4	AF2= 4	RF3= 12.33	AF3= 18.66

Table B2.3

B2.4. Faculty as participants in Faculty development/training activities/STTPs

Name of the Faculty	Details of the participation (Faculty development/training activities/STTPs)		
	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
Dr. H. N. More	06	06	04
Dr. M. S. Bhatia	08	07	05
Dr. N. R. Jadhav	10	10	10
Dr. Mrs. N. M. Bhatia	08	08	02
Dr. A. A. Hajare	08	24	02
Dr. S. G. Killedar	--	--	--
Mr. R. J. Jarag	03	05	05
Dr. S. A. Pishawikar	--	--	--
Dr. A. J. Shinde	04	07	07
Dr. F. A. Tamboli	09	08	03

Mrs. R. R. Jarag	03	12	03
Dr. P. B. Choudhari	06	06	01
Mr. V. T. Pawar	04	02	02
Mr. D. V. Mahuli	07	02	01
Mr. U. S. Patil	07	07	02
Dr. D. P. Mali	02	15	03
Mr. R. P. Dhavale	02	03	04
Mr. S. D. Jadhav	--	--	--
Dr. D. T. Gaikwad	03	03	01
Dr. D. A. Bhagwat	06	05	05
Ms. A. S. Jadhav	05	05	02
Dr. Ms. S. S. Ashtekar	06	07	--
Mr. V. H. Thorat	07	10	02
Mr. R. R. Chavan	03	--	--
Ms. G. S. Ghorpade	01	01	--
Mr. K. S. Joshi	01	01	--
Dr. S. B. Ghorpade	--	--	01
Mrs. A. R. Topale	--	--	01
Mrs. R. A. Desai	--	01	01
Ms. S. Tipugade	--	01	--
Mr. M. S. Apate	01	--	--
Ms. S. R. Nirankari	--	01	--
Mr. A. S. Chougule	01	--	--
Ms. S. P. Rochlani	--	01	--
Mr. A. R. Yadav	01	--	--
Mr. G. G. Gadgil	01	01	01
Ms. S. A. Thorat	01	--	--
Ms. P. S. Yadav	01	--	--
Ms. P. S. Uchale	01	--	--
Ms. J. R. Pantwalawalkar	01	--	--

Table B2.4

B2.5. Research and Development

Name of the faculty	**Academic Research**			
	Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.		**Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute**	
	As provided in SAR	**After evaluation (till the date of compliance report)**	**As provided in SAR**	**After evaluation (till the date of compliance report)**
Dr. H. N. More	141	+ 27	8	+ 2
Dr. M. S. Bhatia	160	+ 21	8	+ 2
Dr. N. R. Jadhav	62	+ 26	8	+ 3
Dr. Mrs. N. M. Bhatia	86	+ 10	8	+ 2

Dr. A. A. Hajare	56	+ 07	8	+ 2
Dr. S. G.Killedar	58	--	6	+ 1
Mr. R. J. Jarag	12	+ 02	--	--
Dr. S. A. Pishawikar	41	--	--	--
Dr. A. J. Shinde	53	+ 11	3	+ 3
Dr. F. A. Tamboli	07	+ 27	--	--
Mrs. R. R. Jarag	01	+ 01	--	--
Dr. P. B. Choudhari	89	+ 28	--	+ 3
Mr. V. T. Pawar	06	+ 02	--	--
Mr. D. V. Mahuli	03	--	--	--
Mr. U. S. Patil	03	+ 06	--	--
Dr. D. P. Mali	07	+ 03	--	--
Mr. R. P. Dhavale	13	+ 06	--	--
Mr. S. D. Jadhav	40	--	--	--
Dr. D. T. Gaikwad	19	+ 06	--	--
Dr. D. A. Bhagwat	32	+ 17	--	--
Ms. A. S. Jadhav	--	04	--	--
Dr. Ms. S. S. Ashtekar	--	01	--	--
Mr. V. H. Thorat	--	06	--	--
Mr. G. G. Gadgil	--	02	--	--
Mr. R. R. Chavan	--	09	--	--
Mr. M. S. Apte	--	--	--	--
Mr. A. S. Chougule	--	--	--	--
Mr. A. R. Yadav	--	01	--	--
Ms. P. S. Uchale	--	01	--	--
Ms. S. A. Thorat	--	01	--	--
Ms. P. S. Yadav	--	--	--	--
Ms. J. R. Pantwalawalkar	--	02	--	--
Mrs. P. K. Mane	--	05	--	--
Mr. S. A. Chougule	--	--	--	--

Table B2.5

B2.6. Sponsored Research/Consultancy

(I) Details as provided in the SAR previously

Name of the faculty	ProjectTitle	Project Type Research/ Consultancy	Funding Agency	Amount	Duration
Dr. F. A. Tamboli	Innovative trends in phytopharmacology	FDP	AICTE	6,24,000/-	12 days
	Development of heterocyclic systems as a Potent antitubercular agent	Research	Shivaji University, Kolhapur	10,000/-	1 Year
Mr. R. J. Jarag	Establishment of Center for Identification and Database Management of a Rare Blood Group Bombay (Oh) Phenotype in Western Maharashtra, India	Research	RGSTC	3,80,000/-	3 years
Dr.A.J.Shinde	Design and Evaluation of Herbal Dosage Form	Research	Shivaji University, Kolhapur	20,000/-	2 Years
Dr. Mrs. N. M. Bhatia	Development of cost effective in-vitro protocols for testing cardiovascular bioactivity	Research	Rajiv Gandhi Science and Technology Commission Shivaji University, Kolhapur	92,000/-	2 Years
Dr. N. R. Jadhav	Tablet Formulation Design for Mulberry Leaves and Exploring its Medicinal Importance	Research	RGSTC, Mumbai	1,25,000/-	2 Years
Dr. M. S. Bhatia	HPLC Analysis of peptides and its utilization kinetic study from microbial cultures	Honorary Consultancy	NCCS, Pune	0.0	4 Months
Dr.Mrs.N.M.Bhatia	UV-Visible Analysis of Aracholine, Ellagic Acid and its matrix	Consultancy	Department of Technology, Shivaji University, Kolhapur	2,000/-	2 Months
Dr. D. T. Gaikwad	Development of herbal formulation using natural polymer	FDP	Shivaji University, Kolhapur	10,000/-	1 Year
Mr. V. T. Pawar	Teachers training workshop on new changed syllabus of "instrumental methods of analysis"	FDP	Shivaji University, Kolhapur	5,000/-	1 day

Table B2.6(I)

(II) Details after evaluation (till the date of Compliance Report)

Name of the faculty	ProjectTitle	Project Type Research/ Consultancy	Funding Agency	Amount	Duration/ Date
Dr. N. R. Jadhav	Two days Workshop on 'Innovation & Incubation in Academia'	Workshop	SUK, Kolhapur	70,000/-	10th & 11th Mar.2022
Dr. D. T. Gaikwad	'Human Resource Activity'	Lead College Activity	SUK, Kolhapur	50,000/	10th & 15th Mar. 2022
Dr. M. S. Bhatia	"Hands on training on cell and tissue culture based bioactivity assessment"	STTP	AICTE, New Delhi	3,28,000/-	30th Aug. to 9th Oct. 2021
	"Exploring pharmacokinetic with artificial intelligence and computing"	ATAL e-FDP	AICTE, New Delhi	93,000/-	2nd to 6th Nov. 2020
Dr. Mrs. N. M. Bhatia	"Pharmaceutical Quality System for Product Life Cycle Management"	ATAL e-FDP	AICTE, New Delhi	93,000/-	27th Sept. to 1st Oct.2021
	Developing leads from pharmacophoric phytofragments targeting IGF-1R for Triple-Negative Breast Cancer therapy	RPS AICTE (Status : Qualified for funding)	AICTE, New Delhi	22,82,500/-	Letter yet to be received from AICTE
Dr. A. J. Shinde	"Emerging trends and challenges in techno-stabilization of pharmaceuticals"	AICTE FDP	AICTE, New Delhi	3,92,000/-	18th Oct. to 20 Nov. 2021
	"An exploration of Novel drug delivery system in herbal medicine"	AICTE STTP	AICTE, New Delhi	4,18,333/-	26th July to 30th Aug. 2021
Dr. F. A. Tamboli	"Nutrigenomics unveiled- frontier in healthcare"	ATAL e-FDP	AICTE, New Delhi	93,000/-	23rd Nov. to 27st Nov. 2021
	Innovative trends in phytopharmacology	AICTE FDP	AICTE, New Delhi	6,24,000/-	25th Nov. to 7th Dec. 2019
Mr. R. J. Jarag	"Antidiabetic activity of herbal ice creame on albino Rats"	Consultancy (Animal Study)	SUK, Kolhapur	32,000/-	2020-21
	"Evaluation of wound healing activity of electrospun nanofibers of Acmella Paniculata"	Consultancy (Animal Study)	Balwant College, Vita	12,000/-	2020-21
	"To study effect of extract of selected plant	Consultancy (Animal	College of Pharmacy,	15,000/-	2020-21

	on androgenic alopecia"	Study)	Savarde		
	Teacher's Training Workshop on new changed syllabus of "Pharmacy Practice"	FDP	SUK, Kolhapur	5,000/-	6th Feb. 2021
Mr. V. T. Pawar	Teacher's Training Workshop on new changed syllabus of "Instrumental Method of Analysis"	FDP	SUK, Kolhapur	5,000/	5th Feb. 2021
Dr. D. T. Gaikwad	Teacher's Training Workshop on new changed syllabus of "Computer aided drug delivery system"	FDP	SUK, Kolhapur	5,000/	5th Feb. 2021
Dr. D. P. Mali	Teacher's Training Workshop on new changed syllabus of "Audit and regulatory compliance"	FDP	SUK, Kolhapur	5,000/	6th Feb. 2021

Table B2.6(II)

B3. Students' Performance

Student Intake Table

Item (Information to be provided cumulatively for all the shifts withexplicit headings, wherever applicable)	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
Sanctioned intake of the program (*N*)	100	60	60	60
Total number of students admitted in first year *minus* number of students migrated to other programs/institutions, plus no. of students migrated to this program (*N*1)	109	68	63	59
Number of students actually admitted in 2nd year in the same batch via lateral entry (*N*2)	--	11	13	08
Separate division students, if applicable (N3)	--	--	--	--
Total number of students admitted in the Program (*N*1 + *N*2 + N3)	109	79	76	67

Table B3a

Academic Performance Table

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated			
		I Year	II Year	III Year	IV Year
CAY	109				
CAYm1	79	67			
CAY*m2*	76	62	75		
CAY*m3*	67	57	66	66	
CAY*m4* (LYG)	69	59	67	67	67
CAY*m5* (LYG*m*1)	66	60	66	66	66
CAY*m6* (LYG*m*2)	71	55	63	63	63

Table B3b

B3.1. Success rate without backlog in stipulated period

SI= (Number of students who graduated from the program without backlog in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Item	LYG (CAYm4)	LYG*m*1(CAYm5)	LYG*m*2 (CAYm6)
Number of students admitted in the corresponding First Year + actually admitted in 2nd year via lateral entry and separate division, if applicable	61 + 08 = 69	60 + 06 = 66	60 + 11 = 71
Number of students who have graduated without backlogs in the stipulated period	44	50	33
Success Index (SI)	44/69= 0.637	50/66 = 0.757	33/71 = 0.464

Table B3.1

B3.2. Success rate with backlog in stipulated period of study

SI= (Number of students who graduated from the program with backlog in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Item	LYG (CAYm4)	LYG*m*1(CAYm5)	LYG*m*2 (CAYm6)
Number of students admitted in the corresponding First Year + actually admitted in 2nd year via lateral entry and separate division, if applicable	61 + 08 = 69	60 + 06 = 66	60 + 11 = 71
Number of students who have graduated with backlogs in the stipulated period	67	66	63
Success Index (SI)	67/69 = 0.971	66/66 = 1	63/71 = 0.887

Table B3.2

B3.3. First Year Academic Performance

Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x *(number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the second year.

Academic Performance	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
Mean of CGPA or Mean Percentage of all successfulstudents (X)	83.92	72.51	65.76
Total no. of successful students (Y)	67	63	59
Total no. of students appeared in the examination (Z)	68	64	59
API = x* (Y/Z)	82.68	71.38	65.76
Average API = (AP1 + AP2 + AP3)/3	73.27		

Table B3.3

B3.4. Academic Performance in Second Year

API *= ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
Mean of CGPA or Mean Percentage of all successful students(X)	82.06	72.57	67.36
Total no. of successful students (Y)	75	66	67
Total no. of students appeared in the examination (Z)	75	68	67
API = X* (Y/Z)	82.06	70.43	67.36
Average API = (AP1 + AP2 + AP3)/3	73.28		

Table B3.4

B3.5. Academic Performance in Third Year

API *= ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the final year.

Academic Performance	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
Mean of CGPA or Mean Percentage of all successful students (X)	85.12	73.84	66.20
Total no. of successful students (Y)	65	67	69
Total no. of students appeared in the examination (Z)	65	67	69
API = x* (Y/Z)	85.12	73.84	66.20
Average API = (AP1 + AP2 + AP3)/3	75.05		

Table B3.5

B3.6. Placement, Higher Studies and Entrepreneurship

Item	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
Total No. of Final Year Students (N)	67	70	64
No. of students placed in Industries/Hospitals/Government Sector through on/off Campus recruitment or opted for Entrepreneurship(x)	24	29	29
No. of students admitted to higher studies with valid scores invarious qualifying exams (y)	39	34	26
x + y =	63	63	55
Placement Index : (x + y)/N	P1 = 0.94	P2= 0.90	P3 = 0.85
Average placement= (P1 + P2 + P3)/3	0.90		

Table B3.6

C. Criterion wise Compliance Status

S.N.	Criteria	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
1	**Vision, Mission & PEOs**		
1.1.	Formulation	No deficiency pointed out	Non Required
1.2.	Dissemination		
1.3.	Assessment		
1.4.	Any other observations of the NBA		
2	**Course outcome and Program outcomes**		
2.1.	Formulation	Lectures taken for beyond syllabus topics were not appropriate for few of them	Soft skill enhancement and other resources created in language lab and dedicated time allotted in time table for the same **Annexure – I Annexure - IV**
2.2.	Mapping	Most of the projects were reviews experimentation observation projects needs to be introduced	All projects are scrutinized by Research Coordination Committee and IQAC to ensure inclusion of experimental observations. List of 2020-21 projects attached as **Annexure - II**
2.3.	Any other observations of the NBA	1. Quality of completed projects/ publications to be improved	Project based publications improved - **Annexure – III**
		2. More exposure to industry and hospital	To bridge curriculum gaps more industry and hospital experts involved in course conduct – **Annexure - IV**
3.	**Curriculum Design, if applicable**		
3.1.	Process to identify the gap, if applicable and action taken thereof	Course outcome needs to be defined specifically and not be repetitive	Revised course outcomes attached - **Annexure - V**
3.2.	Curriculum Structure & Component (as applicable)	Satisfactory	Non Required
3.3.	Any other observations of the NBA	Satisfactory	Non Required

4	**Details of the Action taken on the Observation of NBA during last visit:**			
	Sr. No	**Criterion**	**Observations made by NBA (During the last accreditation visit)**	**Compliance Status (Action taken by the institution)**
	1	4.8.2	Can be improved	Technical magazine publication improved – **Annexure - VI**
	2	5.7.3	To be improved	Consultancy and sponsored/funded research improved – **Annexure -VII**
	3	7.3	Academic performance needs improvement	Improvement in Academic performance evident from data filled

				above in Table No. B3.3, B3.4 & B3.5 Result Analysis **Annexure – VIII** University Merit & Rank List – **Annexure - IX**
	4	7.4	Almost Similar	Improvement in the quality of students admitted – **Annexure - X**
	5	8.6	To be made effectively	Student success stories – **Annexure - XI**
	6	9.1.1	Responsibilities is to be defined, service rules is to be made available on website	Service rules made available on website – **Annexure - XII**
	7	9.1.2	To be defined	Decentralization working- **Annexure – XIII-A** grievance redressal mechanism – **Annexure – XIII-B**
	8	9.1.3	To be defined	Delegation of financial powers – **Annexure - XIV**
	9	9.1.4	To be defined	Transparency and availability of correct/unambiguous information in public domain – **Annexure - XV**
			Other Observations	
	1.		Require additional soft skill programme in language classes for first year B.Pharm	Additional classes for first year B. Pharm on soft skills– **Annexure- XVI**
	2.		Quality instruments needs to be added	List of quality instruments purchased attached – **Annexure – XVII- A** **Annexure – XVII- B** **Annexure – XVII- C**

Table C

BHARATI VIDYAPEETH

COLLEGE OF PHARMACY, KOLHAPUR

: Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Courses: D.Pharm, B. Pharm, M. Pharm, Ph.D, DTE College Code No. - 6256
(Approved by A.I.C.T.E., P.C.I., New Delhi)
Affiliated to MSBTE Mumbai, Permanently Affiliated to Shivaji University, Kolhapur & Included in list under Sect:2(F) & 12(B) of UGC Act, 1956
B.Pharm. Course reaccredited by NBA, New Delhi
LEAD COLLEGE, SHIVAJI UNIVERSITY, KOLHAPUR, NIRF INDIA RANKING 2021:49
Near Chitranagari, Kolhapur - 416013 (MS) Tel. (0231) 2637286, 2638392, Fax : 2638833

: Principal :
Dr. H.N. MORE
M.Pharm., Ph.D.

Ref. No. : BV/CPK / 692 /2021 - 2022

Date : 25/02/2022

Declaration

It is hereby declared that information provided in this Compliance Report is factually correct. I understand and agree that an appropriate action against the Institute will be initiated by the NBA (which may include debarring the institution for three years), in case any false statement/information is observed during the assessment of the compliance report.

Date: 25/02/2022

Place: Kolhapur

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

Web : http://copkolhapur.bharatividyapeeth.edu E - mail : copkolhapur@bharatividyapeeth.edu

BHARATI VIDYAPEETH **Annexure -I**
COLLEGE OF PHARMACY, KOLHAPUR

Provisions made for content beyond syllabus

BHARATI VIDYAPEETH

Celebrating and Beyond

COLLEGE OF PHARMACY, KOLHAPUR

: Founder :
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: Principal :
Dr. H.N. MORE
M.Pharm., Ph.D.

Ref. No. : BV/CPK / 536 /2021 - 2022 Date : 04/01/2022

PROVISIONS MADE FOR CONTENT BEYOND SYLLABUS

Dear Sir,

In response to NBA Committee Expert's remark related to improvement in addressing content beyond syllabus, in addition to current subject contents prescribed in the curriculum, we have been conducting the following activities and encouraging maximum student's participation in the same for improving student's competencies and thus, their employability in diverse pharma sectors.

1. Drug information cell
2. Journal club activity
3. Scientific paper/report writing session
4. Student- industry interaction
5. Health awareness sessions
6. Patient counseling demonstrations
7. Seminars by industry experts
8. Guest lectures
9. Pre-placement preparation Workshops
10. Visit to hospitals and retail pharmacies
11. Demonstration of free online software
12. Demonstrations of high end equipment

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

Web : http://copkolhapur.bharatividyapeeth.edu E - mail : copkolhapur@bharatividyapeeth.edu

BHARATI VIDYAPEETH **Annexure -II**

COLLEGE OF PHARMACY, KOLHAPUR

Final Year B. Pharm. (Sem-VIII) Project Titles 2020-21

Roll No.	Name of Student	Name of Guide	Project Title
1.	/Bamane Srushti Krishna	Dr. D. P. Mali	Reversal of early-stage type -2 Diabetes Mellitus : Critical analysis
2.	/Bansode Pratiksha Gautam	Mrs. R. R. Jarag	Phytopharmacological Effects of *Swietenia microphylla*
3.	Baride Shubham Sunilrao	Dr. D. A. Bhagwat	Epidemiology, Predisposing factors and Case presentation of Mucormycosis
4.	Bhatane Dhananjay Mahadev	Dr. P. B. Choudhari	Mechanistic analysis of antimicrobial resistance in urinary tract infections.
5.	Chandwani Mayur Rajkumar	Dr. D. A. Bhagwat	Epidemiology, Predisposing factors and Case presentation of Mucormycosis
6.	/Chauthe Prajakta Pundlik	Mr. R. P. Dhavale	New avenues in hydrogel-based drug delivery systems targeting disorders.
7.	/Chougule Sadhana Sanjay	Mr. D. V. Mahuli	Pharmacovigilance: Empowering Healthcare Professionals and Patients
8.	/Dabhole Swati Shankar	Dr. F. A.Tamboli	Diabetes and Insulin Resistance: Mechanistic analysis
9.	Dange Ashish Dattatray	Mrs. R. R. Jarag	Herbal Treatment for Covid-19
10.	/Daphale Mrunal Vishwanath	Dr. N. R. Jadhav	Biobetters: Need, Prospects and market trend
11.	/Davari Pratibha Shankar	Dr. D. T. Gaikwad	Non-metallic Nanomaterials in Cancer Theranostics
12.	Desai Digvijay Dattatray	Dr. Mrs. N. M. Bhatia	COVID-19 Therapy: Treatment and Investigational Drugs
13.	Deshmukh Prathamesh Balawant	Mrs. R. R. Jarag	Covid-19 vaccines : Modes of action envisaged
14.	/Deshmukh Tejaswi Chandrakant	Dr. D. P. Mali	Business management impact on medical store functioning
15.	/Dhodi Shila Ashok	Dr. D. A. Bhagwat	Global perspective of Medical Device Regulations
16.	/Femi Babu	Mr.V. H. Thorat	Neutraceuticals and herbal medicines as immune boosters for COVID-19.
17.	/Gavali Rajeshree Arvind	Dr. D. T. Gaikwad	Exploration of Novel Drug Delivery Systems for Herbal Medicine
18.	/Gavit Laxmi Bhamtya	Mr.V. H. Thorat	Studies on Antidiabetic Potential of Medicinal Plants
19.	Gore Soham Parashottam	Mr. D. V. Mahuli	Pharmacovigilance: Empowering Healthcare Professionals and Patients

20.	Gudavalekar Pravin Uttam	Dr. P. B. Choudhari	Mechanistic analysis of antimicrobial resistance in urinary tract infections.
21.	/Hiremath Vaishnavi Basavaraj	Mr. U. S. Patil	Effects of granulation techniques on the physicochemical properties of dosage forms and recent advancements therein.
22.	Jadhav Siddesh Satish	Dr. D. T. Gaikwad	Applications of Dendrimers in Drug Delivery
23.	/Jadhav Snehal Rajkumar	Dr. N. R. Jadhav	Biosimilars: Fundamentals and Market Potential
24.	/Jagtap Diksha Dhananjay	Mr.V. H. Thorat	Wound healing Potential of some medicinal plants.
25.	/Jorgewar Vaishnavi Yashwant	Dr. F. A.Tamboli	Current perspectives of Herbal Shampoo
26.	/Joshi Kimaya Prashant	Dr. A.J. Shinde	Design & Development of Solid Dispersion of Pioglitazone For Solubility Enhancement
27.	Kalambe Avdhoot Parsharam	Prof. R.J.Jarag	Antidiabetic potential of *Barleria prionitis*
28.	Khade Prathamesh Pundlik	Mr. V. T. Pawar	Public health management in COVID-19 pandemic
29.	/Khandare Shruti Adish	Dr. F. A.Tamboli	Herbal Immunity boosters for COVID-19
30.	Khot Swaraj Sanjay		Nanotechnology options in anticancer therapy.
31.	Kolekar Kaustubh Ajit	Dr. N. R. Jadhav	Mulberry! A plant of immortality: traditional claim envisaged
32.	Kore Atish Nagesh	Mr. R. P. Dhavale	New avenues in hydrogel-based drug delivery systems targeting disorders.
33.	Kulkarni Pravin Prakash	Ms. A.S. Jadhav	Ethnopharmacological potential of *Verbenaa risida* for Anthelmintic Activity
34.	Mali Rushikesh Rameshwar	Mr. U. S. Patil	Effects of granulation techniques on the physicochemical properties of dosage forms and recent advancements therein.
35.	Manga Saad Afzal	Mr. R. P. Dhavale	New avenues in hydrogel-based drug delivery systems targeting disorders.
36.	/Mhettar Prachi Sunil	Dr. A.J. Shinde	Natural Polymers Used in Development of Formulations
37.	Mohit Kumar	Mrs. R. R. Jarag	Covid-19 vaccines : Modes of action envisaged
38.	/Nadaf Jahanara Ajamir	Prof. R.J. Jarag	Antidiabetic potential of *Barleria prionitis*
39.	Nagargoje Tejesh Uddhav	Ms. A.S.Jadhav	Ethnopharmacological potential of *Verbenaa risida* for Anthelmintic Activity
40.	Nilawar Nagesh Dattatray	Dr. F. A.Tamboli	Extraction and utilization of Hibiscus flowers pigments as an indicator in titrimetric analysis

41.	Oswal Rushabh Hitesh	Prof. R.J.Jarag	Etiology and management of vascular necrosis
42.	/Pachupate Siddhi Kamlesh	Mr.V. H. Thorat	Role of *Tinospora cordifolia* in Covid-19 pandemic.
43.	Pantoji Abhishek Maruti	Prof. R.J.Jarag	Etiology and management of vascular necrosis
44.	/Parit Rutuja Ramesh	Mr. R. P. Dhavale	New avenues in hydrogel-based drug delivery systems targeting disorders.
45.	Parit Vinitkumar Vijay	Dr. A. J. Shinde	Prospects in Gastroretentive Drug Delivery System
46.	/Patel Krupa Jignesh	Ms. A.S.Jadhav	Ethnopharmacological potential of *Verbenaa risida* for Anthelmintic Activity
47.	Patil Abishek Ashok	Mr. V. T. Pawar	Pathogenesis and treatment of Mucormycosis.
48.	/Patil Aditi Jalandar	Dr. A. A. Hajare	Phytochemistry, Medicinal Properties and Applications of *Psidium guajava*
49.	Patil Akash Anant	Dr. F. A.Tamboli	Energy medicine and 3D printing in pharmaceuticals
50.	/Patil Bhakti Tanaji	Dr. D. P. Mali	Trends in peptide drug discovery
51.	/Patil Jyoti Bhagwan	Dr. D. A. Bhagwat	Global perspective of Medical Device Regulations
52.	/Patil Manali Maruti	Dr. A.J. Shinde	Design and Development of Solid Dispersion of Pioglitazone for Solubility Enhancement
53.	Patil Nikhil Nandkumar	Dr. Mrs. N. M. Bhatia	Free radical scavenging activity of chalcone derivatives
54.	Patil Omkar Gulab	Dr. P. B. Choudhari	Mechanistic analysis of antimicrobial resistance in urinary tract infections.
55.	Patil Rohan Ramesh	Mr. U. S. Patil	Effects of granulation techniques on the physicochemical properties of dosage forms
56.	/Patil Sakshi Anil	Mr. V. T. Pawar	Medicines for the Effective management of Covid 19
57.	/Patil Shruti Sunil	Mr. V. H. Thorat	Role of *Withania somnifera* in current COVID-19 Pandemic
58.	/Pawar Shweta Sunil	Dr. P. B. Choudhari	Mechanistic analysis of antimicrobial resistance in urinary tract infections.

59.	/Pise Pooja Prakash	Dr. D. T. Gaikwad	Natural Polymers Used in Pharmaceuticals
60.	Rajpurohit Shravan Ashok	Dr. Mrs. N. M. Bhatia	Chalcone derivatives as potential cytotoxic agents
61.	/Rangole Shraddha Sadashiv	Mr. D. V. Mahuli	Cosmetic Science Regulations in India
62.	Sayyad Mohammadjaid Yunus	Ms. A.S.Jadhav	Energy Medicine and 3D printing in pharmaceutical technologies
63.	Shelke Nivrutti Gajanan	Mr. V. T. Pawar	Market Research of Generic Medicines Vs Branded Medicines
64.	/Shinde Chaitra Pratap	Mr. D. V. Mahuli	Development of Cosmeceuticals: Industrial trends
65.	/Shinde Snehal Gorakhnath	Prof. R.J. Jarag	Etiology and management of vascular necrosis
66.	/Vedante Pranoti Prashant	Dr. D. P. Mali	3D Bioprinting: challenges, possibilities and future perspectives
67.	Yadav Ganesh Hanmantrao	Mr. U. S. Patil	Effects of granulation techniques on the physicochemical properties of dosage forms

Scrutinized by committee of following experts (11.15 am on 15-07-2021)

Dr. N. R. Jadhav
RCC nominee

Dr. N. M. Bhatia
RCC nominee

Dr. A. A. Hajare
IQAC nominee

R. J. Jarag
IQAC nominee

Dr. F. A. Tamboli
IQAC nominee

Dr. P. B. Choudhari
IQAC nominee

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College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH **Annexure -III**
COLLEGE OF PHARMACY, KOLHAPUR

PUBLICATIONS IN SCOPUS / WEB OF SCIENCE INDEXED JOURNALS

Project based Publications 2019-2021

2019:

1. Preparation and characterization of superporous hydrogels as gastroretentive drug delivery system for atenolol , International Journal of Pharmaceutical Sciences and Research, 10(1), 2019, 272-285.
2. In silico design, synthesis, characterization and pharmacological evaluation of captopril conjugates in the treatment of renal fibrosis, New Journal of Chemistry, 43 (1), 2019, 501-513
3. Lornoxicam Quantification in Rabbit Plasma by RP-HPLC: Optimization and Application to Pharmacokinetic Study, Annales Pharmaceutiques Francaises, 77(7), 2019, 15-27.
4. Hetero-tricyclic Lead Scaffold as Novel PDE5A Inhibitor for Antihypertensive Activity: In Silico Docking Studies, Current Computer-Aided Drug Design, 15 (4), 2019, 318-333.
5. Exploration of leads from natural domain targeting HER2 in breast cancer: An in-silico approach, International Journal of Peptide Research and Therapeutics, 25 (2), 2019, 659-667.
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Annexure -IV

Industrial Experts Guest Lectures 2019-2021

Sr. No.	Name	Designation	Topic	Org.	Date
01	Brijesh Talawadekar	Manager	Self-Analysis, Outlook Management	Opex Accelerator Pvt. Ltd. Kolhapur	8th Sept. 2019
02	Anurag Kokitkar	Manager	Team Building	Opex Accelerator Pvt. Ltd. Kolhapur	9th Sept. 2019
03	Anjori Parandekar	Associate Director	Personal Development Analysis Telephonic & Email Etiquettes.	Opex Accelerator Pvt. Ltd. Kolhapur	10th Sept. 2019
04	Ashish Heda	Manager	Decision Making Skills Negotiation & Service Orientation Skills	Opex Accelerator Pvt. Ltd. Kolhapur	12th Sept. 2019
05	Manjiri Chiplunkar	Director	Personality and Skill Development.	VISION Placement & Management Services, Kolhapur	15th Sept. 2019
06	Vishal Daddikar	Director	Insights on Business Opportunities in Healthcare	VD MoleChem Therapeutics Pvt. Ltd. Kolhapur	7th Sept. 2019
07	Dr. Suhit Gilda	Managing Director	Career Opportunities in Nutraceuticals for Pharmacy Graduate	Gilda's Neutraceuticals, Satara	28th Sept. 2019
08	Mr. Sachin Lokapure	Director	Challenges & Opportunities in Herbal Drug Patenting	Saglo Instruments, Sangli	27th Sept. 2019
09	Dr. Sanjay Mishra	Scientist	Phytopharmacological Approach in Inflammatory Bowel Disease studies	Dr. Prabhakar Kore Basics Sciences & Research Center, Belgavi	27th Sept. 2019

10	Mr. D.G. Gune	Managing Director	Scope & Future of Ayurvedic Formulations	SG Phyto Pharma. Kolhapur	07th Dec. 2019
11	Mr. Amit Palande	Application Chemist	Basics of HPTLC	Anchrome Enterprises Ltd. Mumbai	3rd Dec. 2019
12	Dr. M. A. Potdar	Senior academician, Quality assurance, Pune.	'Concept in Pharmaceutical Audits'	Bharati Vidyapeeth College of Pharmacy, Kolhapur	28th Jan. 2020
13	Mr. Amar P. Patil	Assist Prof. Sant Gajanan Maharaj College of Pharmacy, Mahagaon.	'Medical Coding'	Bharati Vidyapeeth College of Pharmacy, Kolhapur	04th Feb. 2020
14	Dr. A. V. Ghule	Department of Chemistry, Shivaji University, Kolhapur	Research Promotion Activity.	Bharati Vidyapeeth College of Pharmacy, Kolhapur	04th Feb. 2020
15	Dr. Saikat Mallick	Manager	CAGMAG HPTLC	Anchrome Laboratorise, Mumbai	27th April 2020
16	Mr. Amit palande	Application system Analyst Mumbai.	Webinar session: HPTLC Instrumentation and Applications	Bharati Vidyapeeth College of Pharmacy, Kolhapur	30th April 2020
17	Dr. C.R.Patil	Professor, Department of Pharmacology Delhi Pharmaceutical Sciences and Research University.	Webinar on : Unintended misconduct in Academic research and its Impact	Bharati Vidyapeeth College of Pharmacy, Kolhapur	25th May 2020
18	Ashok Ghadge	Research Scientist	Formulation development highlights & career prospects	DR Reddys Laboratories, Hyderabad	17th May 2020
19	Kaustubh Thorawade	Research Scientist	Formulation development highlights & career prospects	Macleods Pharma, Mumbai	17th May 2020

20	Sanjiv Gubbi	Manager, Global R & D Project Management	Technology Transfer: Industrial Perspective	Teva Pharmaceutical Goa	17th May 2020
21	Pravin Walekar	Research Scientist	Basics of Lyophilization	Abbott Healthcare Pvt. Ltd. Mumbai	23rd May 2020
22	Dr. Kundan Ingale	Application Scientist	Drug Repurposing	Novalead Pharma. Pune	30th May 2020
23	Dr. Yasin Ali Tamboli	Scientist	Hazards in Pharmaceutical Industry & It's Management	Wokhardt Pharma. Aurangabad	29th May 2020
24	Mr. Nitin Patil	Scientist	Role of Quality Assurance in Pharmaceuticals	Chanellie Pharmacuticals, Ireland	28th May 2020
25	Vishal Choudhari	Operational Manager	Scope of clinical research and associated domains	Clini India Hadapsar, Pune	2nd June 2020
26	Dr. Shrinivas Savale	CEO, AIC-LMCP Foundation	Biosimilars: Emerging, Affordable Modality in Healthcare	L. M. College of Pharmacy, Ahmedabad, Gujrat	13th June 2020
27	Dr. Pradeep Patil	Sr. General Manager	Importance of IP in post - COVID era	Wockhardt Pharma Ltd. Mumbai	13th June 2020
28	Dr. Kundan Ingale .	Application Scientist Nova Lead,Pune	Online Demonstration of Vlife MDS 4.6	Bharati Vidyapeeth College of Pharmacy, Kolhapur	9th February2021
29	Mrs. Anagha Maharao	Principal & Trainer Institute of Pharmaceutical Science Dombivali.	Webinar on Industrial Application of ICH Quality Guidelines.	Bharati Vidyapeeth College of Pharmacy, Kolhapur.	20th March 2021
30	Dr. Ganesh Rao	Director at PCET's Pune Business School, Pune	Webinar on : What Leadership Translates into? • Why Leadership Matters in Workplace, the Importance of it. • Who can be good Leader?	Bharati Vidyapeeth College of Pharmacy, Kolhapur	5th March 2021
31	Prabhat Sinha	Founder of Mann Deshi Champions, TEDx	Webinar on : Journey of a Girl: Local to Global	Bharati Vidyapeeth College of Pharmacy, Kolhapur	5th March 2021

		Speaker, Pioneered NYU's Sports Initiative in India	• PromotingWomen Leadership at global front • From Local to Global, How Prabhat has transformed girls in Sports • Case Studies of Successful Empowered Girls		
32	Veeshwajeet Kashid	Goodwill Ambassador for Platelets Donation (India), International Speaker, Software Engineer	Dare to be 'Chief Imagination Officer' • How you can gather enough courage to be the Good Leader? • Understanding the role of Courage and Vulnerability in daring Leadership	Bharati Vidyapeeth College of Pharmacy, Kolhapur	5th March 2021
33	Mr. Vinay Gosavi	Happiness Coach, Internationally Certified Heal Your Life Workshop Teacher, Corporate Trainer	Workshop on : The Force of Competence Building • What are the basics that you need to understand in Competence Building? • What are the things that pull-you apart from competence building	Bharati Vidyapeeth College of Pharmacy, Kolhapur	6th March 2021
34	Mr.Akhil Baheti	Time Management Life Coach, Author of Best Selling Book" Samay Nahi Hai?"	Workshop on : Plan & Get Set to Implement • How to Plan in advance to attain certain goals in life? • How Time Management plays a constructive role in Competence Building?	Bharati Vidyapeeth College of Pharmacy, Kolhapur	6th March 2021
35	Mr.Brijesh Talawadekar.	Internationally Certified Soft Skills Trainer, Motivator, Life Coach, Energy Creator, Counselor	Understanding the Emotional Quotient • Key aspects of Emotional Intelligence • Connecting Humans with Emotional Intelligence • How to understand Thoughts, Emotions of others and identifying the areas where you can apply it.	Bharati Vidyapeeth College of Pharmacy, Kolhapur	6th March 2021

36	Ms. Reena Ravi, Mr. Sachin Kumbhoje, Mr. Karan Shah, Mr. Brijesh Talawadekar,	Head – CSR & Diversity, Infosys BPM Ltd. CEO & Director, OpEx Accelerator Pvt. Ltd. Founder, Indian Institute of Digital Education International Scottish University Certified Trainer.	One Day Mentor Certification Program on LinkedIn for Graduates & Job Seekers.	Bharati Vidyapeeth College of Pharmacy, Kolhapur & OpEX Accelerator Pvt. Ltd.	30th May 2021,
37	Mr. Chetan Jadhav	Manager QA Roche Product Pvt. Ltd Mumbai.	Introduction to Pharmaceutical Industry'	Bharati Vidyapeeth College of Pharmacy, Kolhapur.	29th Nov 2021
38	Mrs. Shital Jadhav	Sub inspector, Kolhapur	Cyber Crime and security Management	Bharati Vidyapeeth College of Pharmacy	06th Oct 2021
39	Mr. Vishwajeet Kashid	Goodwill Ambassador for Platelets Donation (India) by ISBTI	'Platelets Donation Awareness'	Bharati Vidyapeeth College of Pharmacy	23rd Dec 2021

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BHARATI VIDYAPEETH **Annexure -V**

COLLEGE OF PHARMACY, KOLHAPUR

Revised Course Outcomes

Course Name	NC101 Human Anatomy Physiology I - Theory	Year of Study	2020-21
NC101.1	Recall the basics of the anatomy, physiology and cell.		
NC101.2	Students would have studied about the gross morphology, structure and functions of various systems of the human body.		
NC101.3	Predict and analyze various homeostatic mechanisms and their imbalances.		
NC101.4	Develop skills for identification of clinical conditions with recent techniques.		
NC101.5	Demonstrate and apply the concepts for patient health care.		

Course Name	NC102 Pharmaceutical Analysis I - Theory	Year of Study	2020-21
NC102.1	Gain fundamental knowledge of chemical methods for pharmaceutical analysis		
NC102.2	The selection and optimization of analytical protocols (sample size, indicator, titrant etc.) will be possible for chemical analysis.		
NC102.3	Purity and impurity assessment of drugs will emphasize its significance as pharmaceutical official requirements and related ethical and social considerations.		
NC102.4	Knowledge of Basics and principles of volumetric and electro chemical analysis.		
NC102.5	Development of analytical skills through knowledge of fundamentals will make students competent analyst for assessing quality, safety and efficacy of medication.		

Course Name	NC103 Pharmaceutics I - Theory	Year of Study	2020-21
NC103.1	The students will gain knowledge of the history & development of pharmacy profession, industry, scope of pharmacy and will understand application of pharmacopoeial standards in preparation of various dosage forms		
NC103.2	Understanding prescriptions, posology, preparation of various dosage forms and calculations therein, packaging & labeling, and incompatibilities.		
NC103.3	Strategies required for preparing quality dosage forms. Application of pharmaceutical metrology principles in the preparation of dosage forms		
NC103.4	Undertaking quality control tools in evaluation of pharmaceutical dosage forms		
NC103.5	Understanding in-process and finished product controls, and stability controls of non-sterile dosage forms		

Course Name	NC104 Pharmaceutical Inorganic Chemistry - Theory	Year of Study	2020-21
NC104.1	Students will gain a better understanding of fundamentals of inorganic pharmaceuticals and their ethical and regulatory requirements.		
NC104.2	Understanding of preparation, properties and applications of buffers and isotonic solutions for analysis, stability and product development.		
NC104.3	Ability to perceive symptoms and treatment of diseases arising due to imbalance of physiological ions and microbial agents.		
NC104.4	Application of diagnostic agents, healthcare supplements, its preparation, quality standards, impurities and therapeutic uses of inorganic pharmaceuticals.		
NC104.5	Knowledge of toxic and hazardous inorganic pharmaceuticals will make them understand related ethical and environmental concerns**.**		

Course Name	NC105 Communication skills – Theory	Year of study	2020-21
NC105.1	Understand and implement importance of communication, eliminate communication barrier and develop wide perspective of communication		
NC105.2	Understand behavioral needs and apply Communication skills in professional life.		
NC105.3	Learn and develop effective writing and listening skills		
NC105.4	Develop self-presentation and technical presentation skills		
NC105.5	Acquire leadership qualities and related essentials		

Course Name	NC107 Human Anatomy and Physiology– Practical	Year of Study	2020-21
NC107.1	Ability to perform the hematological tests and also record blood pressure, heart rate and pulse rate.		
NC107.2	Appreciate coordinated working pattern of different organs of each system and musculoskeletal system.		
NC107.3	Planning and execution of experimental data with biomedical ethical considerations.		

Course Name	NC108 (Pharmaceutical Analysis I - Practical)	Year of Study	2020-21
NC108.1	Students with skills to perform chemical analysis of pharmaceuticals create its report and communicate significance of purity and impurity assessment for societal welfare.		
NC108.2	Designing and planning of experiments for chemical analysis of pharmaceuticals with due considerations to toxic, hazardous chemicals and reagents.		
NC108.3	Students with ability to prepare standardize chemical solutions; justify its		

	significance and regulatory importance in pharmaceutical industries.

Course Name	NC109 Pharmaceutics I - Practical	Year of Study	2020-21
NC109.1	Students will acquire understanding of formulation of Syrups, Elixirs, Solutions, Liniments, Lotions, Throat Paint, Eardrops, Nasal drops, Enemas, Suspensions, Emulsions, Powders and Granules, suppository, ointment, gel, Gargles and Mouthwashes		
NC109.2	Understanding dose calculations, incompatibilities, labeling and packaging procedures, and container & closure selection		
NC109.3	Students will able to execute formulation, accordingly availability of resources and keeping in view of environmental and safety concern		

Course Name	NC110 Pharmaceutical Inorganic Chemistry - Practical	Year of Study	2020-21
NC110.1	Purity assessment of pharmaceuticals and documentation will make the student competent analyst with ethical and regulatory understanding.		
NC110.2	Expertise in qualitative, semi-quantitative analysis of ions, purity testing of inorganic pharmaceuticals and their significance in assessing quality.		
NC110.3	Skills for handling synthesis of inorganic compounds in pharmaceuticals' use and present the results.		

Course Name	NC111 Communication Skills - Practical	Year of study	2020-21
NC111.1	Develop basic oral communication competency for formal and informal communication,		
NC111.2	Acquire knowledge of verbal and non-verbal communication technique		
NC111.3	Apply essential aspects of effective interview and technical writing skills including pronunciation, letter writing skills, effective presentation, vocabulary and verbal fluency		

Course Name	NC112 Remedial Biology - Practical	Year of study	2020-21
NC112.1	Learn to identify the characteristics of plant parts and distinguish and identify various plant tissues.		
NC112.2	Comprehend human bones and blood, and explore computer assisted biological examination of frog		
NC112.3	Perform and evaluate experimental microscopic investigation		

Course Name	NC201 Human Anatomy Physiology II - Theory	Year of Study	2020-21
NC201.1	Recall the basics of the anatomy, physiology and functions of various organs		
NC201.2	Students would have studied about the gross morphology, structure and functions of various systems of the human body.		
NC201.3	Predict and analyze various homeostatic mechanisms and their imbalances.		
NC201.4	Develop skills for identification of clinical conditions with recent techniques.		
NC201.5	Demonstrate and apply the concepts for patient health care.		

Course Name	NC202 Pharmaceutical Organic Chemistry I - Theory	Year of Study	2020-21
NC202.1	After completion of the syllabus, students shall be able to classify and nomenclate organic compounds.		
NC202.2	They should be able to define, identify and classify isomers and be able to apply them whenever necessary.		
NC202.3	They should be able to understand basic structural aspects related to hybridization, properties, basic chemistry of classes of compounds mentioned in syllabus.		
NC202.4	Students should be able to rectify acidity and basicity of compounds and their effects on reaction, Nature of substituents and their role in reaction.		
NC202.5	Development of basic understanding of reaction mechanism and the way by which a reaction proceeds.		

Course Name	NC203 Biochemistry - Theory	Year of Study	2020-21
NC203.1	After completion of the syllabus, students shall be able to understand and memorize the characteristic features of biomolecules with their importance and applications.		
NC203.2	They should be able to understand and justify nature and types of enzymatic reactions, nature of enzymes and their biological importance.		
NC203.3	They should be able to understand biochemical, synthetic and metabolic processes, their products and their role.		
NC203.4	Students should understand the genetic makeup of human body, Importance of DNA and RNA and their reactions.		
NC203.5	Should be able to identify the diseases via a mechanistic approach with respect to biochemical processes.		

Course Name	NC204 Pathophysiology - Theory	Year of Study	2020-21
NC204.1	Perceive concepts of Etiology, signs and symptoms, Pathogenesis and Clinical investigation of the selected disease states.		
NC204.2	To get baseline knowledge required to practice medicine safely, confidently, rationally and effectively with ethical considerations.		
NC204.3	Predict and correlate pathology of clinical conditions with pharmacological applications.		
NC204.4	Know most commonly involved basic mechanisms in disease generation and progression.		
NC204.5	Explore advanced diagnostic techniques in pathology.		

Course Name	NC205 Computer Applications in Pharmacy - Theory	Year of study	2020-21
NC205.1	Learn basics of number system , information system and software and get aquatinted with their applications in pharmaceutical industry		
NC205.2	Acquire knowledge of various drug databases and web technologies.		
NC205.3	Understand various computer based systems for pharmaceutical applications, drug development, therapy management, retail pharmacy etc.		
NC205.4	Gain knowledge of bioinformatics for application in molecular biology, identification of targets for drug and vaccine discovery.		
NC205.5	Create application perspective for use of computers in preclinical development.		

Course name	NC206 Environmental Sciences - Theory	Year of study	2020-21
NC206.1	Understand natural resources and associated problems.		
NC206.2	Implement strategies for conservation of natural resources.		
NC206.3	Learn concept of ecosystem.		
NC206.4	Know the characteristic features, structure and functions of ecosystem.		
NC206.5	Comprehend causes of environmental pollution and implement strategies to minimize it.		

Course Name	NC207Human Anatomy Physiology II - Practical	Year of Study	2020-21
NC207.1	Able to execute clinical examination of various body systems.		
NC207.2	Predict and measure clinical correlation with pathological conditions.		
NC207.3	Learn planning, execution and assimilation of experimental data individually and in a team with professional ethical considerations.		

Course Name	NC208 Pharmaceutical Organic Chemistry I - Practical	Year of Study	2020-21
NC208.1	Students should be able to identify, separate and confirm unknown organic compounds as individual compound or as a mixture.		
NC208.2	Students should develop and acquire basic skills required for synthetic aspects.		
NC208.3	They should be able to understand basic mechanisms or patterns of a reaction and implement those in their practical aspects.		

Course Name	NC209 Biochemistry - Practical	Year of Study	2020-21
NC209.1	Students will have skill sets in classical clinical laboratory techniques and be able to use modern instrumentation.		
NC209.2	Students will have ability to propose and execute experimental approaches to analyze bio chemicals.		
NC209.3	Skills of qualitative and quantitative analysis that can have applications in forensic and nutritional sciences.		

Course Name	NC210 Computer Applications in Pharmacy- Practical	Year of study	2020-21
NC210.1	Use word processing and Create a HTML web page		
NC210.2	Know the Retrieval of drug information , use of Label Wizard and MS WORD		
NC210.3	Learn to maintain patient record in the database for generating report and printing the report from patient database		
NC210.4	Create invoice table, understand drug information storage and retrieval using MS Access		
NC210.5	Gain knowledge of exporting tables, queries, forms and reports to web pages and XML pages		

Course Name	NC301Pharmaceutical Organic Chemistry II - Theory	Year of Study	2020-21
NC301.1	After completion of the syllabus, students shall be able to classify and nomenclate organic compounds.		

NC301.2	They should be able to understand the chemistry related to aromatic compounds.
NC301.3	Students should be able to analyse and justify the importance of fats and oils considering their chemical aspects and analytical constants.
NC301.4	Students should be able to rectify acidity and basicity of compounds and their effects on reaction, Nature of substituents and their role in reaction.
NC301.5	Development of basic understanding of reactivity, stability and theories of stability of organic compounds.

Course Name	**NC302Physical Pharmaceutics I- Theory**	**Year of Study**	**2020-21**
NC302.1	Students will be able to discuss and elaborate physicochemical principles of matters, Solubility of drugs, buffers & isotonic solutions, interfacial phenomenon, adsorption, complexation and protein binding		
NC302.2	Students will be able to apply principles of solubility & distribution, phase rule, isotonicity & pH adjustments, adsorption isotherms, interface interactions, complexation in development of pharmaceutical dosage forms		
NC302.3	Students will be able to analyze effect of physicochemical properties on performance and stability of pharmaceutical formulations		
NC302.4	Conceptual understanding & mathematical calculations pertaining to gas behavior, optical rotation, refractive index, isotonicity adjustments, buffer preparation, surface & interfacial properties, complexation and protein binding		
NC302.5	Students will be able to choose effective therapies through understanding of physicochemical phenomena governing in vitro and in vivo actions of pharmaceutical products		

Course Name	**NC303Pharmaceutical Microbiology - Theory**	**Year of Study**	**2020-21**
NC303.1	Students will acquire an understanding of identification, cultivation and preservation of microbes, infectious diseases, diagnosis and treatment thereof. Need, control and irradiation of microbes will be understood.		
NC303.2	Techniques of isolation, identification and culturing of microorganisms from natural resources, sterility testing cell culture techniques and standardization of pharmaceuticals will be developed.		
NC303.3	Strategies for investigating microbial pathogens, potential microorganisms for pharmaceutical use and cell culture techniques and its application would be planned.		
NC303.4	Production of immunologicals against pathogens, implementation of sterilization protocols and standardization of pharmaceuticals at laboratory scale as per regulation guidelines can be explored.		
NC303.5	Microbes, potential healthcare products and applications towards animal and human health will be revealed.		

Course Name	**NC304 Pharmaceutical Engineering - Theory**	**Year of Study**	**2020-21**
NC304.1	Make the student abreast with various unit operations used in pharmaceutical industries.		
NC304.2	Make the student abreast with current material transportation methodologies.		

NC304.3	Students will acquire acknowledge on processes involved in pharmaceutical manufacturing process.
NC304.4	Understand the real time pharmaceutical industry situations for effective design, construction and its functioning.
NC304.5	Describe the engineering approaches and alternatives for effective functioning of pharmaceutical plants by avoiding corrosion.

Course Name	**NC305 Pharmaceutical Organic Chemistry II - Practical**	**Year of Study**	**2020-21**
NC305.1	Students should be able utilize their skills and knowledge pertaining to separation and purification of organic compounds.		
NC305.2	Students should develop basic skills and knowledge related to analysis of constants in organic chemistry.		
NC305.3	They should be able to understand basic mechanisms or patterns of a reaction and implement those in their practical aspects.		

Course Name	**NC306Physical Pharmaceutics I - Practical**	**Year of Study**	**2020-21**
NC306.1	Students will be able to determine various physicochemical properties of drugs and pharmaceutical systems including solubility, pKa, partition coefficient, CST, surface tension, HLB, CMC, stability constant of complex, specific surface area etc.		
NC306.2	Demonstrate use of physicochemical properties in the formulation development and be able to suggest suitable technique/instrument in evaluation of physicochemical properties of drug molecules and dosage forms.		
NC306.3	Students will understand measurement units & their conversions, graphical presentation of data, interpretation of scientific data to make sound conclusions about impact of physicochemical properties on performance of pharmaceutical systems.		

Course Name	**NC307Pharmaceutical Microbiology - Practical**	**Year of Study**	**2020-21**
NC307.1	Students will acquire an understanding of isolation, identification, control techniques and standardization of pharmaceuticals.		
NC307.2	Plan strategies to carry out antibacterial and antifungal activities, microbial assays, and sterility testing at industrial level		
NC307.3	Quality control of antibiotics as per set protocols will allow students to perform independently and in team.		

Course Name	**NC308Pharmaceutical Engineering - Practical**	**Year of Study**	**2021-22**
NC308.1	Perform unit operations such as filtration, evaporation, drying, size reduction, size separation, and distillation.		
NC308.2	Draw conclusions about processes based upon experimental finding in various unit operations.		
NC308.3	Estimation of radiation constant of metals in response to heat transfer in unit operations.		

Course Name	NC401Pharmaceutical Organic Chemistry III - Theory	Year of Study	2020-21
NC401.1	Should be able to understand and apply all aspects of stereoisomerism, nomenclature of optical isomers, reactivity of chiral compounds and asymmetric synthesis.		
NC401.2	Should be able to comprehend and use geometric isomerism, nomenclature of geometric and conformational isomers, stereoselective and stereospecific reactions.		
NC401.3	Gain knowledge of nomenclature, classification, reactivity, synthetic reactions, medicinal uses and related hazards of five membered simple heterocycles.		
NC401.4	Gain knowledge of nomenclature, classification, reactivity, synthetic reactions, medicinal uses and related hazards of some simple bicylic and 2 hetero atom containing heterocycles.		
NC401.5	Understand chemistry and applications of some common reactions of synthetic importance involving reduction, oxidation, condensation and rearrangements.		

Course Name	NC402 Medicinal Chemistry I - Theory	Year of Study	2020-21
NC402.1	Understand history of medicinal chemistry, correlate physicochemical properties of drugs with biological activity and predict drug metabolism and its pathways.		
NC402.2	Comprehend the chemistry of drugs, chemical classification, adverse effects and therapeutic value of drugs acting on autonomic and central nervous system.		
NC402.3	Apply the principles of drug action, drug-receptor interactions with safety of drugsand correlate with biological activities.		
NC402.4	Explore the structure activity relationship of different chemical classes of drugs acting on autonomic and central nervous system.		
NC402.5	Execute the knowledge of synthetic chemistry to prepare strategy for synthesis of drug molecules		

Course Name	NC403 Physical Pharmaceutics II - Theory	Year of Study	2020-21
NC403.1	Identify and explain principles of rheology & deformation of solids, micromeritics, colloidal & coarse dispersions and drug stability studies.		
NC403.2	Relate and discover effect of various physicochemical properties on designing of pharmaceutical dosage forms.		
NC403.3	Justify and recommend use of different instruments/equipments or manufacturing processes/methods for development of disperse systems and their evaluation for micromeritic, rheological, and interfacial properties.		
NC403.4	Predict and solve problems in development of stable and effective pharmaceutical disperse systems.		
NC403.5	Dosage form design for pediatric and geriatric population by understanding basic principles & formulation design of liquid disperse systems.		

Course Name	NC404 PharmacologyI - Theory	Year of Study	2020-21
NC404.1	Understand concepts of pharmacokinetic and Pharmacodynamic behavior of therapeutic agents.		
NC404.2	Develop understanding of ethical considerations necessary for clinical application of included class of therapeutic agents and controlled substances.		
NC404.3	Integrate pharmacological implications of included class of therapeutic agents and controlled substances and the variety of pathological conditions.		
NC404.4	Able to execute strategies for safer use of included class of therapeutic agents and controlled substances.		
NC404.5	Communicate and demonstrate rational use of included class of therapeutic agents and controlled substances for societal health care.		

Course Name	NC405Pharmacognosy & Phytochemistry I - Theory	Year of Study	2020-21
NC405.1	Students will learn about crude drugs, including their sources, organized drugs, unorganized drugs, classification and quality control.		
NC405.2	Apply the use of medicinal plant, cultivation, collection, processing and storage of plant with its industrial importance, farmers and society at large.		
NC405.3	Understanding the techniques of plant tissue culture.		
NC405.4	Acquaintance with alternative system of medicine and chemical nature of secondary metabolites.		
NC405.5	General overview of plant products and primary metabolites.		

Course Name	NC406 Medicinal Chemistry I - Practical	Year of Study	2020-21
NC406.1	Acquire skills to apply basic organic chemistry and reactivity in synthesis and purification of active pharmaceutical ingredients and intermediates		
NC406.2	Gain skills of preparation, standardization, assay and partition coefficient determination of active pharmaceutical ingredients.		
NC406.3	Execute multi-step synthesis and understand its commercial applications.		

Course Name	NC407Physical Pharmaceutics II - Practical	Year of Study	2020-21
NC407.1	Measure and estimate micromeritic properties like particle size, size distribution, powder densities, flow properties and viscosity, sedimentation volume, reaction rate constant and expiration date of drug products		
NC407.2	Choose and plan suitable techniques and instruments to evaluate physicochemical properties of powders and disperse systems.		
NC407.3	Identify and utilize measurement units & their conversions, graphical presentation of data, interpretation of scientific data to make sound conclusions about impact physicochemical properties on performance of pharmaceutical systems.		

Course Name	NC408PharmacologyI - Practical	Year of Study	2020-21
NC408.1	Students will acquire various skill sets required for pharmacological screening keeping in view ethical, regulatory, environmental and safety		

	concerns.
NC408.2	Understand pharmacological aspects with simulated experiments and their application for drug discovery and development.
NC408.3	Learn planning, execution and assimilation of experimental data individually and in a team with professional ethical considerations.

Course Name	**NC409Pharmacognosy & Phytochemistry I - Practical**	**Year of Study**	**2020-21**
NC409.1	Students will know crude drugs by chemical tests.		
NC409.2	Students will be able inculcate attitude for applying the acquired knowledge to identify important diagnostic features of plants and crude drugs.		
NC409.3	Understanding physical evaluation of crude drugs.		

Course name	**NC501 Medicinal Chemistry II**	**Year of study**	**2020-21**
NC501.1	Understand classification, mechanism of action, uses and structure activity relationship of antihistaminic agents and antineoplastic agents.		
NC501.2	Acquire knowledge of classification, mechanism of action, uses and structure activity relationship of anti-anginal drugs, diuretics and anti-hypertensive agents.		
NC501.3	Comprehend classification, mechanism of action, uses and structure activity relationship of anti-arrhythmic drugs, anti-hyperlipidemic agents, coagulant, anticoagulants and drugs used in congestive heart failure.		
NC501.4	Understand nomenclature, stereochemistry, mechanism of action, uses and structure activity relationship of drugs acting on endocrine system.		
NC501.5	Know the classification, mechanism of action, uses and structure activity relationship of antidiabetic agents and local anesthetics.		

Course Name	**NC502 Industrial PharmacyI - Theory**	**Year of Study**	**2020-21**
NC502.1	Understand basic concept and applications of preformulation and conventional and novel excipients used in formulation development of various dosage forms.		
NC502.2	Know various formulation and manufacturing considerations in development of pharmaceutical dosage forms.		
NC502.3	Formulate and prepare solid, liquid and semisolid dosage forms and and evaluate them for their quality.		
NC502.4	Select excipients and formulate and prepare various cosmetic preparations.		
NC502.5	Select and evaluate appropriate packaging materials for various pharmaceutical dosage forms and understand legal and official requirements for packaging.		

Course Name	NC503Pharmacology II - Theory	Year of Study	2020-21
NC503.1	Explain the mechanism of drug action at organ system/sub cellular/ Macromolecular levels.		
NC503.2	Understand the pharmacological actions and rational use of autacoids, cardiovascular and hormonal therapeutic agents.		
NC503.3	Clinical exposition of pharmacological implications of autacoids, cardiovascular and hormonal therapeutic agents in various disorders.		
NC503.4	Ability to execute ethical strategies for safer use of autacoids, cardiovascular and hormonal therapeutic agents		
NC503.5	Acquire the basic knowledge of bioassay of drugs applicable in new drug discovery and development process.		

Course Name	NC504 Pharmacognosy & PhytochemistryII - Theory	Year of Study	2020-21
NC504.1	Students will able to understand metabolic pathways in higher plants.		
NC504.2	Understanding general introduction, composition, chemistry, chemical classes, biosources, therapeutic uses, and commercial applications of secondary metabolites.		
NC504.3	Learn about the industrial extraction methods of some potential phyto-pharmaceuticals with estimation and utilization.		
NC504.4	Understand the methods of isolation, identification and analysis of phytoconstituents.		
NC504.5	Techniques of extraction, isolation, separation, and purification of various groups of chemical constituents.		

Course name	NC505 Pharmaceutical Jurisprudence - Theory	Year of study	2020-21
NC505.1	Understand the objectives and regulations for import and manufacture of drugs in accordance with Drugs and Cosmetics Act, 1940 and its rules 1945.		
NC505.2	Gain knowledge of schedules, regulations for sale of drugs, requirements for labelling and packaging in agreement with Drugs and Cosmetics Act, 1940 and its rules 1945.		
NC505.3	Comprehend objectives and regulations of Pharmacy Act 1948, Medicinal and Toilet Preparation Act 1955 and Narcotic Drugs and Psychotropic Substances Act-1985.		
NC505.4	Understand salient features of Drugs and Magic Remedies Act and its rules, objectives and guidelines of Prevention of Cruelty to animals Act-1960 and National Pharmaceutical Pricing Authority.		
NC505.5	Acquire knowledge of Pharmaceutical Legislations, Code of Pharmaceutical Ethics, Medical Termination of Pregnancy Act, Right to Information Act and Intellectual Property Rights.		

Course Name	NC506 Industrial PharmacyI - Practical	Year of Study	2020-21
NC506.1	Carry out preformulation testing to relate the physicochemical properties of drugs to dosage form characteristics.		
NC506.2	Prepare formulations of different dosage forms as per the batch formula to develop the skills in manufacturing.		

NC506.3	Evaluate different dosage forms by performing quality control tests.

Course Name	NC507Pharmacology II - Practical	Year of Study	2020-21
NC507.1	Understand basics of *in-vivo* and *in-vitro* pharmacological screening techniques using simulated experimental conditions that can impart skills for preclinical studies.		
NC507.2	Integrate and efficiently apply various bioassay techniques for potency determination.		
NC507.3	Learn planning, execution and assimilation of experimental data individually and in a team with professional ethical considerations.		

Course Name	NC508Pharmacognosy & Phytochemistry II - Practical	Year of Study	2020-21
NC508.1	Students will become skilled in the Morphology, histology, powder characteristics, extraction and detection of crude drugs.		
NC508.2	Understanding the techniques of extraction, isolation, separation and purification of various groups of chemical constituents.		
NC508.3	Identification of the crude drugs by chemical tests.		

Course name	NC601 Medicinal Chemistry III -Theory	Year of Study	2020-21
NC601.1	Implement modern techniques of drug design in development of drugs exploring prodrug concept, SAR, metabolism and adverse effects.		
NC601.2	Understand history and recent developments in antibiotics & chemotherapeutic agents		
NC601.3	Explore the significance of mechanism of action and pharmacologic aspects of antibiotics and chemotherapeutic agents.		
NC601.4	Establish relationship between physicochemical properties with pharmacokinetics of chemotherapeutic agents.		
NC601.5	Plan and execute chemical synthesis of included class of therapeutic agents with safety and environmental considerations.		

Course Name	NC602 PharmacologyIII - Theory	Year of Study	2020-21
NC602.1	Perceive knowledge regarding use of Immunological agents in pharmacotherapy.		
NC602.2	Gain in depth understanding of clinical use of drugs in various infectious diseases and malignancies.		
NC602.3	Understand the Clinical exposition of pharmacological agents in respiratory and gastro intestinal disorders.		
NC602.4	Comprehend the principles of toxicology and treatment of various poisonings.		
NC602.5	Communicate and demonstrate the concept of chronopharmacology.		

Course Name	NC603 Herbal Drug Technology - Theory	Year of Study	2020-21
NC603.1	Understanding raw material as source of herbal drugs, good agricultural practices, and basic principles of Indian system of medicine.		
NC604.2	Ability to learn, benefits of various plants as nutraceuticals in ailments		

	and also the herb-food interaction of various plant drugs.
NC605.3	Learn about herbal cosmetics, excipients, and formulations.
NC606.4	Regulatory provisions for herbal drug evaluations in accordance with WHO and ICH guidelines, natural product patenting, and ASU medicine.
NC607.5	Create the awareness of present status, prospects of herbal drug-based industry and Good Manufacturing Practice for Indian systems of medicine.

Course Name	**NC604 Biopharmaceutics & Pharmacokinetics - Theory**	**Year of Study**	**2020-21**
NC604.1	Understand the passage of drugs within the body through ADME.		
NC604.2	Explain the biopharmaceutical factors assess the absolute and relative bioavailability of drugs.		
NC604.3	Understand the statistical treatment of pharmaceutical data and its application to assess the pharmacokinetic parameters.		
NC604.4	Describe different pharmacokinetic models and evaluate and estimate drug changes in the body.		
NC604.5	Evaluate drug bioavailability and bioequivalence and establish IVIVC.		

Course Name	**NC605 Pharmaceutical Biotechnology - Theory**	**Year of Study**	**2020-21**
NC605.1	Understanding the importance of immobilized enzymes in pharmaceutical industries.		
NC605.2	Conceptualizing principles of genetic engineering and its applications in pharmaceuticals.		
NC605.3	Importance of immunity and production of immunologicals in industries		
NC605.4	Studying immunoblotting techniques and microbial transformations		
NC605.5	Appreciate the use of microorganisms in fermentation technology		

Course name	**NC606Quality Assurance –Theory**	**Year of Study**	**2020-21**
NC606.1	Understand and apply cGMP, GLP, ICH guidelines, ISO management system and NABL accreditation in pharmaceutical industry work environment.		
NC606.2	Recognize the responsibilities of QA & QC departments.		
NC606.3	Apply principles of qualification and execute calibration and validation of equipments, method and facilities.		
NC606.4	Perceive importance and exercise proper documentation and complaint handling from technical and regulatory perspectives		
NC606.5	Explore concept of quality control and learn quality control testing methods of packaging materials.		

Course Name	**NC607 Medicinal Chemistry III - Practical**	**Year of Study**	**2020-21**
NC607.1	Understand reaction mechanisms, execute laboratory synthesis and characterization of medicinally important organic compounds considering environmental and safety concerns.		
NC607.2	Use Chem Draw and various drug design software's for calculating and correlating physiochemical properties of molecules.		
NC607.3	Learn planning, execution and assimilation of experimental data individually and in a team with professional ethical considerations		

Course Name	NC608Pharmacology III - Practical	Year of Study	2020-21
NC608.1	Well acquainted with virtual pharmacological screening techniques in experimental pharmacology.		
NC608.2	Integrate and efficiently apply various biostatistics methods in investigational new drugs.		
NC608.3	Learn planning, execution and assimilation of experimental data individually and in a team with professional ethical considerations.		

Course Name	NC609 Herbal Drug Technology - Practical	Year of Study	2020-21
NC609.1	For industrial applications, students will be familiar with the morphological and chemical testing of crude drugs.		
NC609.2	Understanding the incorporation of prepared and standardized extract in herbal formulations and their evaluation as per Pharmacopoeial standards.		
NC609.3	Students will be able to inculcate attitude for applying the acquired knowledge for standardization techniques of herbal drug analysis.		

Course Name	NC701 Instrumental Methods of Analysis - Theory	Year of Study	2020-21
NC701.1	To impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique.		
NC701.2	Understand the interaction of matter with electromagnetic radiations and its applications in drug analysis.		
NC701.3	Emphasizes on theoretical and practical knowledge on modern Spectroscopic and chromatographic instruments that are used for drug testing.		
NC701.4	Perform quantitative & qualitative analysis of drugs using various Spectroscopic techniques.		
NC701.5	Thoroughly Understanding the chromatographic separation and it's applications for pharmaceutical analysis.		

Course Name	NC702 IndustrialPharmacy II- Theory	Year of Study	2020-21
NC702.1	Understanding process of pilot plant and scale up of pharmaceutical dosage forms.		
NC702.2	Students will able to understand process of technology transfer from lab scale to commercial batch.		
NC702.3	Know different Laws and Acts that regulate pharmaceutical industry.		
NC702.4	Understand the approval process and regulatory requirements for drug products.		
NC702.5	Students will able to understand Quality management & Certifications required in Pharmaceutical Industry.		

Course Name	NC703Pharmacy Practice - Theory	Year of Study	2020-21
NC703.1	Perceive the Structure and functions of Hospital, Hospital Pharmacy and Community Pharmacy, with assessment, management and reporting of adverse drug reactions to regulatory authorities.		
NC703.2	Understand Formulary and various drug distribution methods in Hospital		

	and obtain medication history, interview, monitor drug therapy of patient through medication chart and clinical review.
NC703.3	Acquire skills of patient counseling, pharmacy education and training program in hospitals and understand Pharmacy and therapeutic committee with drug information services.
NC703.4	Develop understanding of Budget, Concept of clinical pharmacy and rational use of common over the counter medications.
NC703.5	Comprehend pharmacy store management with inventory control and interpretation of clinical laboratory tests with respect to Therapeutic Drug Monitoring.

Course Name	**NC704 Novel Drug Delivery System-Theory**	**Year of Study**	**2020-21**
NC704.1	Understanding of various approaches for development of novel drug delivery systems.		
NC704.2	The criterias for selection of drugs and polymers for the development of delivery systems		
NC704.3	Formulation and evaluation of novel drug delivery systems		
NC704.4	Prospective drug delivery system for certain diseases/disorders		
NC704.5	Cost effective novel dosage forms for improved therapeutic efficacy		

Course Name	**NC705Instrumental Methods of Analysis - Practical**	**Year of Study**	**2020-21**
NC705.1	Students will acquire skills to apply knowledge of Spectroscopic techniques for analysis of pharmaceutical ingredients and intermediates.		
NC705.2	Students will acquire knowledge regarding chromatographic techniques and they will apply the same for qualitative and quantitative analysis.		
NC705.3	Conceptual understanding of advanced instrument will impart students with ability of applying knowledge and skills for commercial purpose.		

Course Name	**NC801 Biostatistics and Research Methodology - Theory**	**Year of Study**	**2020-21**
NC801.1	Learn correlations among variables using statistical analysis measures of central tendency and dispersion.		
NC801.2	Analyze the results using parametric and non-parametric tests for measuring significance of studies and hypothesis testing. Know the various statistical techniques to solve statistical problems		
NC801.3	Understand the need of research, design of experiments and interpretation of results in graphical representation.		
NC801.4	Comprehend the knowledge of regression studies using Excel, SPSS, design of experiments tools and software's.		
NC801.5	Implementation of experimental design approach in solving the pharmaceutical examples		

Course Name	**NC802Social and Preventive Pharmacy**	**Year of Study**	**2020-21**
NC802.1	Students will acquire an understanding of current issues related to health and pharmaceutical problems within the country and worldwide.		
NC802.2	Ability to identify number of health challenges and preventive measures associated thereof.		

NC802.3	Ability to have a critical way of thinking based on current healthcare development.
NC802.4	Promotion of community services in rural and urban in line with professional ethics.
NC802.5	Students will be able to evaluate alternative ways of solving problems related to health and pharmaceutical issues.

Course name	**NC803 Pharma Marketing management**	**Year of study**	**2020-21**
NC803.1	Understand scope of marketing, quantitative and qualitative aspects of pharmaceutical market and role of market research.		
NC803.2	Acquire knowledge of various aspects of product decision.		
NC803.3	Implement promotion methods for pharmaceutical product.		
NC803.4	Comprehend various aspects of pharmaceutical marketing channels and responsibilities of professional sales representative.		
NC803.5	Learn importance, objectives and methods of pricing.		

Course name	**NC804 Pharmaceutical regulatory Science**	**Year of study**	**2020-21**
NC804.1	Comprehend process of new drug discovery and development, concept of generics and generic product development.		
NC804.2	Understand regulatory approval processes for Investigational New Drug Application, New Drug Application and Abbreviated New Drug Application.		
NC804.3	Understand the regulatory procedure for export of pharmaceutical products and required technical documentation.		
NC804.4	Acquire knowledge of clinical trial protocols and the concept of pharmacovigilance.		
NC804.5	Learn regulatory concepts.		

Course Name	**NC805 Pharmacovigilance**	**Year of Study**	**2020-21**
NC805.1	Know History and development of Pharmacovigilance, National and global scenario, and importance of drug safety monitoring.		
NC805.2	Acquire knowledge of Dictionaries, terminologies, coding, and softwares used in clinical data management.		
NC805.3	Detect, assess, manage, and report adverse drug reactions as per regulatory requirements of CIOMS, FDA, ICH.		
NC805.4	Generate pre clinical, clinical and post approval safety data of drugs used in general and special patient population.		
NC805.5	Understand Pharmacovigilance methods with respect to Vaccine safety surveillance.		

Course Name	**NC806Quality control and standardization of herbals**	**Year of Study**	**2020-21**
NC806.1	Students will know WHO guidelines for quality control of herbal drugs.		
NC806.2	Understanding quality assurance in herbal drug industry.		
NC806.3	EU and ICH guidelines for quality control of herbal drugs.		

NC806.4	Know the stability testing of herbal drugs, chromatographic techniques, preparation of new drug application and export registration documents.
NC806.5	Regulatory approval process and process for registration in Indian and International markets.

Course Name	**NC807Computer Aided Drug Design**	**Year of Study**	**2020-21**
NC807.1	Discriminate the various stages of drug development and appraise the role of computer aided drug designing for developing novel customized drugs.		
NC807.2	Understand techniques utilized for correlation of biological activity and Physico-chemical characteristics		
NC807.3	Construct a virtual model of drug actions via application of molecular docking and virtual screening techniques.		
NC807.4	Develop professional skills in handling information from large database sets for annotation of gene & proteins.		
NC807.5	Apply quantum and molecular mechanical concepts in the drug design.		

Course Name	**NC808 Cell and Molecular Biology**	**Year of Study**	**2020-21**
NC808.1	Gain in depth knowledge of cellular reproduction,functions, and molecular biology.		
NC808.2	Acquaint with physical and chemical functions of macromolecules like DNA, RNA and proteins.		
NC808.3	Understanding DNA, RNA and proteins synthesis and it's regulatory process.		
NC808.4	Describing cellular functions by cell signalling pathways using transgenics and genetic analysis.		
NC808.5	Knowing cell division processes by understanding cell cycles		

Course Name	**NC809 Cosmetics Science**	**Year of Study**	**2020-21**
NC809.1	Students will able to understand basic structure and function of skin, hair, nail and eye, regulatories, excipients in relation to development of cosmetic formulations.		
NC809.2	Students will understand various problems and need for development of cosmetic formulation for skin, hair and teeth to solve various problems thereof.		
NC809.3	Students will know the general aspects, building blocks and basic & novel ingredients of cosmetic preparations and their safe use in development of various cosmetic products for skin & hair as per regulation.		
NC809.4	Students will able to know regulatory provision in manufacturing, evaluation, packaging, sale and safe use of cosmetic formulations.		
NC809.5	Students will able to plan, formulate, manufacture packing, labeling and quality evaluation of conventional and modern cosmetic for skin & Hair formulations.		

Course Name	**NC810 Experimental Pharmacology**	**Year of Study**	**2020-21**
NC810.1	Appreciate the selection and handling of various commonly used laboratory animals as per regulatory guidelines.		
NC810.2	Demonstrate the various in-vitro, in-vivo screening methods used in preclinical research.		

NC810.3	Understand the importance of biostatistics and acquire skills for its application in research methodology.
NC810.4	Design and execute a research hypothesis independently.
NC810.5	Learn importance of Three R principle concerned with animal welfare and execute in preclinical research.

Course Name	**NC811 Advanced Instrumentation Techniques**	**Year of Study**	**2020-21**
NC811.1	Understanding the chromatographic separation and it's applications for analysis of drugs.		
NC811.2	Students will thoroughly understand the calibration of various analytical instruments.		
NC811.3	Comprehensive understanding of uses of advanced instruments and its applications in pharmaceuticals analysis.		
NC811.4	To impart advanced knowledge on the principles and instrumentation of hyphenated techniques and this will help them for achieving various job opportunities.		
NC811.5	Helps to develop the skill of choosing the appropriate analytical technique for analysis of different types of drugs samples.		

Course name	**NC812 Dietary supplements and nutraceutical**	**Year of Study**	**2020-21**
NC812.1	Identify the need of dietary supplements by the various groups of people for maintaining healthy lifestyle.		
NC812.2	Understand role, use and classification, deficiencies of nutraceuticals, functional foods and dietary supplements in prevention or cure various diseases.		
NC812.3	Explore source and medicinal uses of the chemical constituents from natural sources as nutraceuticals.		
NC812.4	Analyse role of free radicals in various diseases like diabetes and cancer and use of anti-oxidant functional foods in prevention of chronic diseases.		
NC812.5	Evaluate the regulatory aspects required for efficacy and safety assessment of nutraceutical and functional foods		

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Annexure VI

BVCPK TechMag
2020-21

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D. Pharm.: 60, B. Pharm.: 100,
M. Pharm.: 40, Ph.D.: 50

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EXPLORATION OF NANOPHYTOCEUTICALS: GLOBAL NEED

Dr. Dinanath Gaikwad

Assistant Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Nature resources especially plants belong to one of the most diverse living kingdoms on earth and are represented by nearly 3,90,000 identified species. Plants produce a huge number (more than 30,000) of chemical compounds as secondary metabolites and many of them have their proven roles in the defense strategies against various pathogens and predators. Other than the direct therapeutic application against diseases, many of the plant parts are known for its disease prevention activity. The scientific literature of the 20th century showed many examples of such activity against many lifestyle diseases like diabetes, hypertension, cardiovascular diseases, kidney and liver diseases. Various plant products are available commercially to serve the purpose of nutrition and to improve the overall resistance against various diseases. In recent years, applications of nanotechnology in plant systems, such as phyto-nanotechnology, have received increasing attention. Phytoengineering deals with exploiting plants and green resources to provide solutions to various applications of science and engineering. Plant-mediated biological methods are being used by various researchers to synthesize nanoparticles of metals, metal oxides, and other materials with different size, shape, and quantity due to their easy availability and eco-friendliness. The appropriate application of nanoscience to plants and crops can provide improved outcomes and an exploration of their bioavailability and toxicity in the environment. These nanoparticles are explored for various applications as potent antimicrobial agents. They can be used as electrochemical sensors and biosensors, in medicine and health care (e.g., in vitro anticancer efficiency) and in agriculture and crop biotechnology. These nanoparticles can also be applied for pests, nutrients and plant hormones.

Nanoparticles possess unusual characteristics due to their large surface area-to-volume ratio and extraordinary catalytic activity, electronic properties, optical properties, and antimicrobial activity while they are constructed at the atomic level. Because physical and chemical methods of nanoparticle synthesis are too expensive and environmentally unsound, there is a better possibility of green synthesis of nanoparticles using plants, bacteria, and fungi, which are emerging as novel eco-friendly techniques. The growth rate of the bacterial culture, the extract of the plant secondary metabolites, and the mycelial surface area of fungus are the main comprehensible mechanisms in the green synthesis of nanoparticles. Nanofertilizers, nanopesticides, and nanoinsecticides are safe and hold a better possibility to be administered for the agricultural industry for increased food production as nutraceuticals. Phyto-nanotechnology has great potential to revolutionize agriculture and general plant sciences.

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Despite these promising perspectives, challenges are also pressing, including the impacts of diverse plant cellular structures on nanomaterial delivery and the induction of various levels of phytotoxicity to plants. Researchers have lot of opportunities in this growing area to meet the current Industrial requirements as Phytonanoparticles-based microbiological study, Phytonanoparticles drug delivery, Nanotoxicity-based studies (phytotoxicity, cytotoxicity, genotoxicity, and ecotoxicity) in plant sciences, Phytonanotechnology antioxidant activity, Nanomaterial-plant interactions, Nanofertilizers, Nanopesticides, Engineered phytonanomaterials: classification and strategies for physico-chemical characterization, Phytosynthesis of nano-scale materials, Advanced analytical techniques for the measurement of nanomaterials in plant samples,

Morphological responses of plants to nanoparticle exposure under different environmental factors, Nanoagrochemicals in plant production sector, Sensor nanotechnologies in plant sciences, Effect of nanoparticles on phytopathogens, Phytonanotechnology for sustainable agriculture etc.

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2. https://www.hindawi.com/journals

Technical Articles

MANOMETRIC TEMPERATURE MEASUREMENT: A PAT TOOL IN FREEZE DRYING

Dr. Ashok Hajare

Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Over the period of time pharmaceutical manufacturers and FDA realized that testing quality in the final product slows down the pace of introducing life saving new drugs. During the past two decades the FDA has formulated an important new initiative that focused to modernization of pharmaceutical manufacturing and encouraging manufacturers to use Process Analytical Technology (PAT). The drug manufacturers who adopt advanced process monitoring and control techniques receive favourable treatment from FDA. In fact, PAT describes a method to measure quality and control in real-time the attributes that determines the quality and efficacy of a product. The key to PAT is application of a scientific approach and process understanding. PAT is used to establish a QbD approach for making a quality product that is verified in real time. Therefore, PAT control strategy is used to timely obtain a consistently high-quality product in a cost-effective way. Freeze drying (FD) is known to be a time consuming and expensive process. In order to lower costs during manufacturing, the effective cycle time must be reduced by optimizing a FD cycle at lab scale during the primary drying. It provides valuable information about product and process behaviour that may help to identify the critical process parameters (CPP) during cycle development and optimization.

The objective of a FD cycle optimization is to keep the product temperature close to the critical (collapse) temperature during primary drying to cut cycle time. The collapse temperatures can be determined by freeze-dry microscopy (FDM). In addition, there is increasing interest in evaluating the product resistance as a CPP. The traditional problem with product temperature determination is use of thermocouple in few selected vials. It is a standard methodology used to measure product temperature in FD. However, the presence of the sensors in the product changes the nucleation behaviour of the product in vials requiring less time at primary drying. This problem is has a significant effect at manufacturing scale. Additionally, sensors measure the product temperature at the bottom of the vial and not at the sublimation interface where collapse happen during the process. There is a temperature gradient between the product at the bottom and the sublimation interface in the order of 2°C or even higher. In addition, product vials in the front row are chosen that dry irregularly relative to the rest of the vials because they receive extra heat by radiation from the walls and the chamber door of the freeze dryer and therefore run warmer and take much less time to freeze dry.

The product temperature at the sublimation interface and product resistance is most CPPs during FD. PAT technology used during cycle development should be capable of measuring of these two important parameters.

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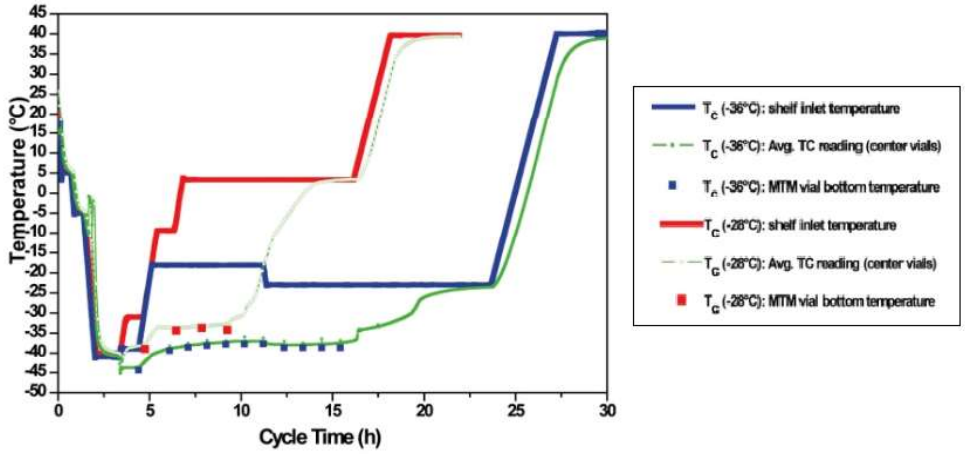

MTM Based SMART Freeze Drying Cycle Design

(*Reference: Dr. Henning Gieseler, European Pharmaceutical Review, Jan 2007*)

The upper boundary for product temperature is always dictated by the critical temperature (Tc) of the formulation and the optimization success of the process is linked to the robustness of the formulation. Therefore, PAT (defining the critical formulation parameters) must start at the beginning. In addition, clarification about acceptance criteria (degree of shrinkage of the cake structure and the associated negative effects on cake appearance, reconstitution times, stability of the drug, etc.) for the final product must be given.

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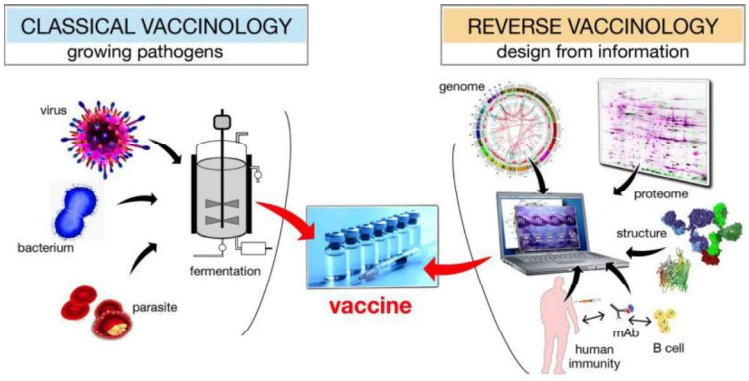
REVERSE VACCINOLOGY: MODERN TRANSFORMATION IN VACCINE DEVELOPMENT

Mr. Rakesh P. Dhavale

Assistant Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Reverse vaccinology is an approach of development of vaccines by using entire pathogenic genomes and its screening for potential traits. The computational softwares are used to ascertain genes which indicate antigenicity and code for proteins with extracellular localization, signal peptides and B cell epitopes. Next, those genes are filtered for desirable attributes that would make good vaccine targets such as outer membrane proteins, synthesized and screened in animal models. In 2000, Rino Rappuoli and the J. Craig Venter Institute developed the first vaccine using Reverse Vaccinology against Serogroup B meningococcus. The J. Craig Venter Institute and others then continued work on vaccines for A Streptococcus, B Streptococcus, Staphylococcus aureus, and Streptococcus pneumoniae. The first successful developed vaccine using Reverse Vaccinology approach was Meningococcus B (MenB). Rappuoli and others at the J. Craig Venter Institute sequenced the MenB genome, scanned for potential antigens. 600 possible antigens were tested by expression in Escherichia coli. The antigens which proved to be functionally active and interacting with human immune system with further addition of lipopolysaccharide and adjuvants were found to be effective in adult humans. Later, Reverse Vaccinology was used to develop vaccines for antibiotic-resistant Staphylococcus aureus and Streptococcus pneumoniae. The advantage of this approach is finding vaccine targets quickly and efficiently. Traditional methods may take decades to unravel pathogens and antigens, diseases and immunity. However, in-silico can be very fast, allowing to identify new vaccines for testing in only a few years. The disadvantage is that only proteins can be targeted using this process. Conventional vaccinology approaches can find other biomolecular targets such as polysaccharides. Several softwares are used in this approach viz., NERVE, Vaxign, RANKPEP, PSSMs for epitope predictions, peptide bonding predictions and analyzing protein sequence and sequence alignment.



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Currently, Reverse vaccinology has caused an increased focus on pathogenic biology. However, this approach highlights many new concepts and technologies to facilitate vaccine design including contributions from proteomics, immunology, structural biology, systems biology, and mathematical modeling. Thus today, reverse vaccinology and innovations in antigen discovery has led to design of COVID-19 coronavirus vaccine. To know, SARS-CoV-2 coronavirus which is causative agent of COVID-19 was predicted for epitopes using Vaxign and Vaxign-ML which was absent in the other human coronaviruses. The entire proteome of SARS-CoV-2 was investigated to determine six proteins, including the S protein and five non-structural proteins (nsp3, 3CL-pro, and nsp8–10) were predicted to be adhesins, which are crucial to the viral adhering and host invasion. Thus, this approach has transformed designing of vaccine from conventional to modern vaccinology by virtue of computational approaches.

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Technical Articles

PHARMACEUTICAL SCIENCES IN LIGHT OF ARTIFICIAL INTELLIGENCE

Dr. Manish S. Bhatia

Vice Principal, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Pharmaceutical Sciences is a dynamic and interdisciplinary field that aims to integrate fundamental principles of organic, physical and biological chemistry along with mathematics and engineering, to understand how to design and develop drugs and optimize its delivery to the body and translate this integrated understanding into new and improved therapeutics for treating human disease. The interdisciplinary nature of this field itself makes the role of Artificial Intelligence (AI) all that more desirable and significant in achieving pharmacoeconomic outcomes. Though Artificial Intelligence is regarded as one of the promising digital transformation technologies which is evolving at a rapid pace, its usage in Pharma has been relatively slow. We have already entered a decade of machine learning and though the concept of integrating AI-assisted technologies seems far-fetched to some, the potential of its benefits is very real for the Pharma sector. Transforming drug and pharmaceutical product development process to make it commercially viable is the need of the hour and modern computing can make this possible. Artificial intelligence (AI) and machine learning (ML) tools would significantly help this transformation and the onus of spreading awareness about the same lies on the teaching community as well.

Though everyone unknowingly uses AI in some form or the other like AI-based Google searches, self-driving cars, facial recognition-based biometrics, virtual simulations and many more, its potential is yet to be fully explored in pharmaceutical industry and healthcare management. AI has transformed many industries and AI can be programmed to undertake a number of functions in the pharmaceutical and healthcare sector by utilizing appropriate type of programming for consequential capabilities. AI has a significant role to play right from the drug discovery process to product manufacturing, QA-QC and even in managing supplies and marketing.

Creation of new drugs involves leveraging millions of chemical, physical and biological data sets and in-depth analysis to generate exceptional outcomes leading to a drug like molecule and AI aids to speeds up every process in this drug discovery. Pharmacokinetics has been a critical component of drug development research and often the bottleneck in the process. By reducing human interface in the exploration of pharmacokinetics of drug products, time and expenses incurred on the process can be minimized. AI tools form the core of virtual simulations and molecular interactions for machine based pharmacokinetic and toxicity investigations. Single batch cost of production for certain new patented drugs is so high that the pharmaceutical industries are in the process of optimizing production with AI aided analytics. Various AI applications contribute to early identification of process degradation and to quality inspection optimization and thus make a dramatic impact on industries competitive advantage.

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AI has contributed immensely in the timely management of the current 'Novel Coronavirus Pandemic'. Right from diagnosis, disease surveillance, virtual healthcare assistants, information verification, intelligent robots and drones to finally the curative research for vaccine development and AI designed drug molecule for a definitive cure, all has been accelerated and aided by AI.

Technical Articles

UNDERSTANDING THE VARIANTS OF CORONAVIRUS: CURRENT INTERNATIONAL DEVELOPMENTS

Dr. Snehal Ashtekar

Assistant Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Viruses like SARS-CoV-2 continuously evolve as changes in the genetic code (genetic mutations) occur during replication of the genome. To inform local outbreak investigations and understand national trends, scientists compare genetic differences between viruses to identify variants and how they are related to each other.

This classification was based on the following aspects:Detection of cases attributed to coronavirus in multiple countries, including among those without travel history; The number and locations of substitutions in the spike protein; Available data for other variants with fewer substitutions in the spike protein that indicate a reduction in neutralization by sera from vaccinated or convalescent individuals; and Adata for other variants with fewer substitutions in the spike protein that indicate reduced susceptibility to certain monoclonal antibody treatments.The SIG Variant classification scheme defines four classes of SARS-CoV-2 variants:

Variant Being Monitored (VBM) so far:

- Alpha (B.1.1.7 and Q lineages)
- Beta (B.1.351 and descendent lineages)
- Gamma (P.1 and descendent lineages)
- Epsilon (B.1.427 and B.1.429)- Eta (B.1.525)
- Iota (B.1.526) - Kappa (B.1.617.1)
- Mu (B.1.621, B.1.621.1) Zeta (P.2)

Current knowledge about Omicron:

Transmissibility: It is not yet clear whether Omicron is more transmissible (e.g., more easily spread from person to person) compared to other variants, including Delta. The number of people testing positive has risen in areas of South Africa affected by this variant, but epidemiologic studies are underway to understand if it is because of Omicron or other factors.

Severity of disease: It is not yet clear whether infection with Omicron causes more severe disease compared to infections with other variants, including Delta. Preliminary data suggests that there are increasing rates of hospitalization in South Africa, but this may be due to increasing overall numbers of people becoming infected, rather than a result of specific infection with Omicron. There is currently no information to suggest that symptoms associated with Omicron are different from those from other variants.

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Effectiveness of vaccines: WHO is working with technical partners to understand the potential impact of this variant on our existing countermeasures, including vaccines. Vaccines remain critical to reducing severe disease and death, including against the dominant circulating variant, Delta. Current vaccines remain effective against severe disease and death.

References:

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Technical Articles

IMPORTANCE OF QUALITY BY DESIGN (QBD) IN PHARMACEUTICAL INDUSTRY

Ms. Priyanka S. Yadav

Assistant Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Pharma industries are continuously working to find the ways to ensure and enhance product safety, quality and efficacy. However, product recalls, market complaints, manufacturing failure cost, scale up issues and regulatory burden presents challenge for industry. In the traditional way, the product quality and efficacy are predominantly ensured by end product testing, with limited understanding of the process and critical process parameters. Regulatory bodies are therefore focusing on implementing quality by design (QbD), a science-based approach that improves process understanding by reducing process variation and the enabling process-control strategies.

Quality by design is a concept first developed by the quality pioneer Dr. Joseph M. Juran. The US Food and Drug Administration (FDA) encourage risk-based approaches and the adoption of QbD principles in drug product development, manufacturing, and regulation. Over the years, pharmaceutical QbD has evolved with the issuance of ICH Q8 (R2) (Pharmaceutical Development), ICH Q9 (Quality Risk Management), and ICH Q10 (Pharmaceutical Quality System) (3–5). In addition, the ICH Q1WG on Q8, Q9, andQ10 Questions and Answers; the ICHQ8/Q9/Q10 Points to Consider document; and ICH Q11 (Development and Manufacture of Drug Substance) have been issued. It serves as a bridge between industry and drug regulatory authorities to move towards a scientific, risk based holistic and proactive approach for development of pharmaceutical product.

The goals of pharmaceutical QbD is to achieve product quality specifications, increase process capability and reduce product variability and defects by enhancing product and process design, understanding, and control, increase product development and manufacturing efficiencies, enhance root cause analysis and post-approval change management. After regulatory approval, effort should continue to improve the process to reduce product variability, defects, rejections, and recalls. In a pharmaceutical QbD approach to product development, an applicant identifies characteristics that are critical to quality from the patient's perspective, translates them into the drug product critical quality attributes (CQAs), and establishes the relationship between formulation/manufacturing variables and CQAs to consistently deliver a drug product with such CQAs to the patient. The QbD does not equal to the design of experiments (DoE), but the important component of QbD. The key elements of pharmaceutical QbD can include the Quality target product profile (QTPP), product design and understanding, process design and understanding, and scale up, control strategy, and continual improvement.

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Prior knowledge, risk assessment, DoE, and Process Analytical Technology (PAT) are tools to facilitate QbD implementation. Finally, product and process capability is assessed and continually improved post-approval during product lifecycle management. This approach allows the establishment of priorities and flexible boundaries in the process. As such QbD is becoming a promising scientific tool in quality assurance in pharmaceutical industry.

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Technical Articles

SYNTHESIS OF NOVEL ANTI-INFLAMMATORY BENZAMIDE DERIVATIVES UTILIZING SMILES REARRANGEMENTS

Smt. Swapnali Ashok Thorat

Assistant Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Chronic inflammatory disease is a medical disorder characterized by chronic inflammation, described primarily by new connective tissue formation as a prolonged and persistent pro-inflammatory state. The local response of living mammalian tissues to injury due to any agent is known as inflammation. In order to suppress or restrict the spread of injurious agents, it is a body defense reaction, accompanied by the removal of necrosis cells and tissues. In addition, to treat mild to severe pain, this class of medications is commonly used. There are restrictions on medicinal usage for most commonly used non-steroidal anti-inflammatory drugs (NSAIDs) since they cause gastrointestinal and renal side effects that are inseparable from their pharmacological activities. As potential donor ligands of transition metal ions, compounds containing carbonyl and benzamide groups occupy a significant role among organic reagents. Among these thiourea derivatives are ligands that are potentially very versatile. Thiourea derivatives oxygen, nitrogen and sulphur donor atoms give a range of bonding possibilities. A wide variety of biological activity is demonstrated by both the ligands and their metal complexes, including anti-inflammatory.

Currently, NSAIDs (Non-steroidal anti-inflammatory drugs) for example Aceclofenac, diclofenac, etc. are prescribed for previously mention medical conditions to relief from pain. However, the effect of these synthetic analogues is short-term and these 25 drugs are known to cause many side effects include serious problems like thrombosis which can be life threatening. And the carbamothioyl derivatives resist bacterial growth and cell division. Benzamide is the powerful anti-inflammatory agents used for many years to treat or prevent systemic inflammatory infections. Benzamide was synthesized and tested for anti-inflammatory sensitivity tests. Thus benzamide derivatives were further studied in the Insilco-pharmacology analysis for the synthesis by docking process where the novel thiourea ligands were docked on the receptor. In order to investigate their anti-inflammatory function, benzamide derivatives carrying urea, amide, and sulphonamide groups. Via spectral characterization using IR, NMR, and Mass, all compounds will confirm. By synthesizing the sequence of benzamide derivatives were planned and synthesized by Smiles rearrangement mechanism to develop a potential anti-inflammatory drug. Synthesized compounds have been docked with lipoxygen-3 soybean anti-inflammatory activity complex receptors.

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Technical Articles

CARBON NANOHORNS

Mrs. Pradnya K. Mane

Assistant Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Carbon (C) Nanohorns, Single-Walled, Double Walled and Multi-Walled, are black nano scale cylindrical tubes of graphitic carbon which differ from nanotubes in their "horn-like" shape similar to a sewing thimble giving them numerous applications as both the stiffest and strongest known fibers and because of their unique shape gives them an enormous amount of surface area. . Individual conical structures are typically 2–5 nm in diameter and 40–50 nm in length. During their synthesis, they tend to form about 2000 cone aggregates of approximately 100 nm diameter. They have a number of advantages over the use of carbon nanotubes-extensively utilized carbon-based structures for drug delivery such as the absence of potentially toxic metals as catalysts during the synthesis, unnecessary additional treatment with strong acids that can damage the carbon structure, and the capacity for high yield mass production at room temperature. Its discovery, multiple synthesis approaches have been developed. All methods are based on applying energy to disassemble and reorganize carbon structures, which are usually graphite rods. The different working parameters modulated during the synthesis, such as voltage, intensity, pressure and temperature can result in different SWCNH structures with different morphology, size or purity.

Three different types of nanoaggregates have been described in particular: dahlia-like, bud-like, and seed-like SWCNH. CO2 laser ablation was the first synthetic method used for the discovery and development of SWCNH. This high-yield synthesis procedure modifies graphite targets, without any metal catalyst, producing up to 1 kg SWCNHs per day with 95% purity. Since then, it has been one of the most exploited strategies for its production. Arc-discharge has also been proposed for their relatively low-cost synthesis. An electrical discharge is emitted between two electrodes subjected to a difference in potential and placed in a gaseous atmosphere. The electric arc may be formed under air, CO or CO2 atmospheric pressure. This technique offers the possibility to obtain purity values higher than 90%. Arc-discharge can also be performed between two graphite electrodes immersed in liquid nitrogen, resulting in a very economical alternative to the classical method. Finally, the use of reactors where graphite rings are heated by the induction of high frequency eddy currents has also been proven as a powerful and useful strategy for large –scale production of SWCNH. In general terms, CO2 laser ablation and arc-discharge have been the most used methods since the discovery of SWCNH for its development.

SWCNHs have several interesting features that have been exploited for a multitude of applications. SWCNH display a porous structure with a very high adsorption capacity. Controlled oxidation treatments can produce nano windows within SWCNH tips and lateral walls. For this reason, they have been proposed for gas storage and gas sensing applications, such as N2 and H2.

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These structure windows due to oxidation can also be formed as a previous step for chemical functionalization, and then include various functional groups for other applications. The large and tuneable surface area of SWCNH, together with the great capacity for heat and electrons transport, also makes them interesting for both conversion and energy storage applications. They have also been employed in the field of electronics due to their cone structure and electric features. Several studies have revealed that SWCNH present structural defects in the tips of individual nanohorns, with a series of heptagons instead of pentagons that form the two-dimensional graphene sheets. These defects are essential to exhibit their special electronic and magnetic characteristics. Hence, they have been used for the development of electrodes and super capacitors, fuel cells, and catalyst supports. Versatile surface chemical functionalization of SWCNH has also been exploited to develop new biomedical and pharmacological strategies in recent years.

The immune response triggered by carbon nanotube-like structures could be harnessed to help treat infectious diseases and cancers, say researchers. The way tiny structures like nanotubes can trigger sometimes severe immune reactions has troubled researchers trying to use them as vehicles to deliver drugs inside the body in a targeted way. White blood cells can efficiently detect and capture nano structures; so much research is focused on allowing nanotubes and similar structures to pass unmolested in the body. A research team is planning to use nanohorns, a cone-shaped variety of carbon nanotubes, to deliberately provoke the immune system. They think that the usually unwelcome immune response could kick-start the body into fighting a disease or cancer more effectively.

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Technical Articles

GASTRORETENTIVE DRUG DELIVERY SYSTEM: AN OVERVIEW

Dr. Anilkumar J. Shinde

Associate Professor, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Several approaches have been proposed to retain the dosage forms in the stomach. These methods include bioadhesive system, swelling system and expanding system and floating system. In fact the buoyant dosage unit enhances gastric residence time (GRT) without affecting the intrinsic rate of emptying. Unfortunately floating devices administered in a single unit form Hydrodynamically balanced system (HBS) are unreliable in prolonging the GRT owing to their ' all- or- nothing' emptying process and, thus they may causes high variability in bioavailibity and local irritation due to large amount of drug delivered at a particular site of gastrointestinal tract.

Requirements For Gastric Retention:

Physiological factors in the stomach, it must be noted that, to achieve gastric retention, the dosage form must satisfy certain requirements. One of the key issues is that the dosage form must be able to withstand the forces caused by peristaltic waves in the stomach and the constant contractions and grinding and churning mechanisms. To function as a gastric retention device, it must resist premature gastric emptying. Furthermore, once its purpose has been served, the device should be removed from the stomach with ease.

Need For Gastro Retention:

- Drugs that are absorbed from the proximal part of the gastrointestinal tract (GIT).
- Drugs that are less soluble or are degraded by the alkaline pH they encounters at the lower part of GIT.
- Drugs that are absorbed due to variable gastric emptying time.
- Local or sustained drug delivery to the stomach and proximal Small intestine to treat certain conditions.
- Particularly useful for the treatment of peptic ulcers caused by H. Pylori Infections.

Factors Affecting Gastric Retention:

- Density: GRT is a function of dosage form buoyancy that is dependent on the density.
- Size: Dosage form units with a diameter of more than 7.5mm are reported to have an increased GRT compared with those with a diameter of 9.9mm.
- Shape of dosage form: Tetrahedron and ring shaped devices with a flexural modulus of 48 and 22.5 kilo pounds per square inch (KSI) are reported to have better GRT 90% to 100% retention at 24 hours compared with other shapes.

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- Single or multiple unit formulation: Multiple unit formulations show a more Predictable release profile and insignificant impairing of performance due to failure of units, allow co- administration of units with different release profiles or containing incompatible substances and permit a larger margin of safety against dosage form failure compared with single unit dosage forms.
- Fed or unfed state: under fasting conditions: GI motility is characterized by periods of strong motor activity or the migrating myoelectric complex (MMC) that occurs every 1.5 to 2 hours. The MMC sweeps undigested material from the stomach and, if the timing of administration of the formulation coincides with that of the MMC, the GRT of the unit can be expected to be very short. However, in the fed state, MMC is delayed and GRT is considerably longer.
- Nature of meal: feeding of indigestible polymers or fatty acid salts can change the motility pattern of the stomach to a fed state, thus decreasing the gastric emptying rate and prolonging drug release.
- Caloric content: GRT can be increased by 4 to 10 hours with a meal that is high in proteins and fats.
- Frequency of feed: the GRT can increase by over 400 minutes, when successive meals are given compared with a single meal due to the low frequency of MMC.
- Gender: Mean ambulatory GRT in males (3.4±0.6 hours) is less compared with their age and race matched female counterparts (4.6±1.2 hours), regardless of the weight, height and body surface.
- Age: Elderly people, especially those over 70, have a significantly longer GRT.
- Posture: GRT can vary between supine and upright ambulatory states of the patient.
- Concomitant drug administration: Anticholinergics like atropine and propantheline, opiates like codeine and prokinetic agents like metoclopramide and cisapride.
- Biological factors: Diabetes and Crohn's disease.

Different Techniques of Gastric Retention:

Various techniques were used to encourage gastric retention of an oral dosage form. Floating systems have low bulk density, so that they can float on the gastric juice in the stomach.2–4 The problem arises when the stomach is completely emptied of gastric fluid. In such a situation, there is nothing to float on. Different techniques used for gastric retention mentioned below.

- Hydrodynamically balanced systems (HBS):
- Effervescent systems:
- Low-density systems:
- Raft systems incorporate alginate gels:
- Bioadhesive or mucoadhesive systems:

Evaluation of Gastroretentive Dosage Forms:

Evaluation for gastroretention is carried out by means of X-ray or gamma scintigraphic monitoring of the dosage form transit in the GI tract. The modern technique of gamma scintigraphy now makes it possible to follow the transit behaviour of dosage forms in human volunteers in a non-invasive manner.

Conclusions:

In the field of gastric retention, we have seen that there are many obstacles that need to be overcome in order to be able to claim true gastric retention. Considering the advantages for improved delivery of drugs, some companies have undertaken the considerable task of developing these types of devices, some with success and others with failure due to the unpredictability of the human GI tract. However, we are as close as we have ever been to seeing a greater transition of gastric retention devices from developmental level to the manufacturing and commercial stage.

Technical Articles

DRUG REPURPOSING FOR COVID-19: OPPORTUNITIES AND CHALLENGES

Dr. D. A. Bhagwat

Assistant Professor, Dept. of Pharmaceutics & Head, Diploma Pharmacy, Bharati Vidyapeeth College of Pharmacy, Kolhapur

Drug repurposing is the process to identify the new indications for existing drugs and considered as an efficient and economical approach. It is also known as repositioning, re-profiling, re-tasking and rescue of drugs. It has been considered that 75% of known drugs could be repositioned for various diseases.[1, 2] In future, chloroquine and hydroxychloroquine require a large number of research studies to reach a conclusion for its use in COVID-19 patients. Further, ACEIs and ARBs could be the potential supportive therapy against this infection. Some drugs are in the early phase of investigation like ivermectin and auranofin to be used against the COVID-19 and these agents could be potential therapeutic agents in future. Molecular docking would be the central technique to identify the probable therapeutic agents against COVID-19 patients and the screened agents, thereby, could be verified for their effectiveness in in-vitro and in-vivo studies.[3]

Advantages of drug repurposing:[4]

- Reduced risk of failure as safety and dosing profile typically well established
- Product manufacturing and supply chains already available
- Patients are often more willing to take part in clinical trials due to the appeal of the 'known' factor
- Faster development times and reduced costs

Potential challenges: [4]

- May need to fill in the gaps on safety, exposure & preclinical data on the mechanism of action
- Identifying the optimal drug & formulation
- Feasibility of clinical trials given unlicensed/off-label access
- Existing intellectual property (IP)/patents on product

The value of drug repurposing is to speed up the traditional process of drug discovery by identifying a novel clinical use for drugs that have already proven to be safe and effective in humans and are approved for other indications. This strategy can also reduce the costs required for the development of new drugs, with notable savings in preclinical phase I and II. Repurposing has several implications in the drug regulatory setting as well as in the scientific setting, especially if it occurs during a public health emergency such as the COVID-19 pandemic.[5]

Technical Articles

Although drug repurposing has the potential to decrease the time usually required for a drug to reach the market, it is a process that is still associated with many challenges, whether from a regulatory or a scientific perspective. Close collaboration between various stakeholders is needed to leverage and critically evaluate existing evidence and strategically plan the generation of new pre-clinical, clinical and observational evidence to investigate the efficacy/effectiveness and safety of drug for potential repurposing.[6]

Computational approaches make use of machine learning and algorithms to model disease and drug interaction, while experimental approaches involve more traditional wet-lab experiments. This review would discuss in detail various ongoing drug repurposing strategies and approaches to combat the current COVID-19 pandemic, along with the advantages and the potential challenges.[7]

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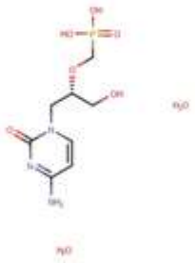
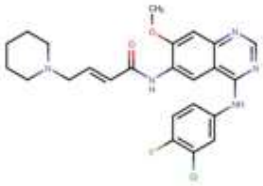
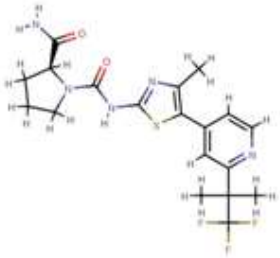
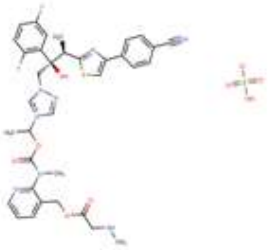
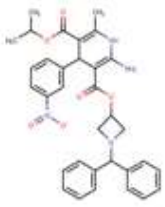
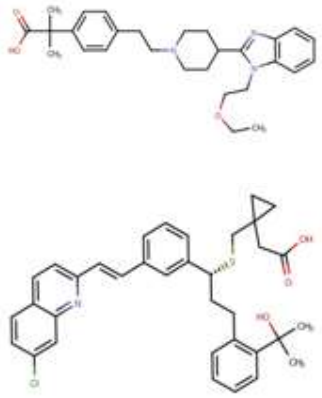
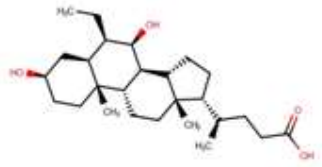
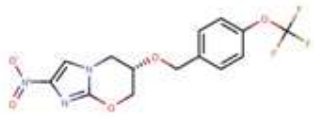
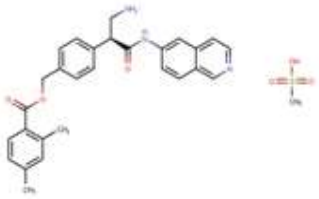
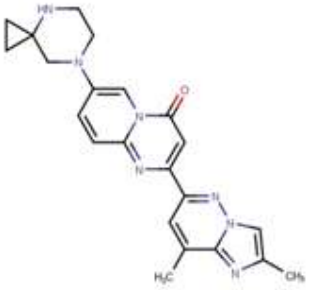
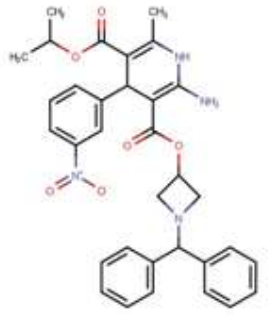
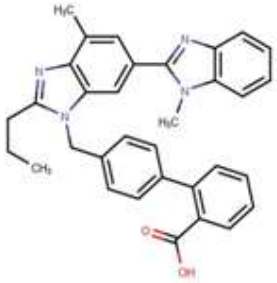
New Drug Approvals in India 2020

Name of Drug	Structure	Indications
Cidofovir dihydrate		CMV retinitis in adults with acquired immune defeciency syndrome (AIDS)
Dacomitinib		Metastatic non-small cell lung cancer
Alpelisib		Hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative, PIK3CA-mutated, advanced or metastatic breast cancer
Isavuconazolesulfate		Invasive Aspergillosis and Invasive Mucormycosis
Azelnidipine		Stage I hypertension

New Drug Approvals in India 2020

Name of Drug	Structure	Indications
Riboflavin Ophthalmic Solution		Keratoconus and corneal ecstasia
Pixantrone		Multiply relapsed or refractory aggresive Non-Hodgkins B- Cell Lymphomas (NHL)
FDC of Bilastine 20mg and Montelukast 10mg tablets		Allergic rhinitis in adults
Obeticholic acid		Primary biliary cholangitis
Favipiravir		Mild to moderate Covid-19 disease

New Drug Approvals in India 2020

Name of Drug	Structure	Indications
Pretomanid		Pulmonary extensively drug resistant (XDR), or treatment intolerant or nonresponsive multidrugresistant (MDR) tuberculosis (TB
Netarsudil mesylate		Reduction of elevated intraocular pressure in patients with open angle galucoma or ocular hypertension
Risdiplam powder		Spinal muscular atrophy (sma)
FDC of Azelnidipine 8mg and Telmisartan 40mg	 	Treatment of Stage-II hypertension

Source: https://cdsco.gov.in/opencms/opencms/en/Approval_new/Approved-New-Drugs/

Patents from College

Sr. No.	Title	Patent Application Number	Status	Name of the Inventor/s	Month & Year
01	Method for determining relationships between the properties of chemical compounds and biological activity	202021026843	Filed	Dr Ajit S. Kulkarni, Dr Vinod L. Gaikwad, **Dr Manish S Bhatia** and Mr Amit J Kasabe	Nov. 2020
02	Transdermal ethosome composition of lanozoline	202121023742	Filed	Hemlata S. Dol, **Ashok A. Hajare,** Trupti A. Powar, Kiran S. Patil	May, 2021
03	Machine Learning Based Diagnosis Of Chronic Kidney Disease In Diabetes Patients	2021107110	Granted	Dr.Pokkunuri Pardha Saradhi, Dr.Raghava Yathiraju, Sreedevi S., Dr. Usha Bhanu.N, Chitransh Dixit, Pankaj Sahu, Rakesh Patel, Dr Binod Kumar, Dr Anil Maheshwari, **Dr. Durgacharan Arun Bhagwat**, Saravanakumar C, Dr. S. Pothalaiah	Oct. 2021
04	Artificial Intelligence Based Smart Touch Less Medicine Dispensing System For Pharma Field	202141038793	Published	Mr. A. Kumaraswamy, Bhaskar Kapoor, Dr.Sumanth V., Nalini Kanta Sahoo, Dr. Chinmaya Keshari Sahoo, Dr. Banavath Heeralal, Dr. Sujata Mallapur, Dr. Jagadeesh Kumar Ega, **Dr. Durgacharan Arun Bhagwat,** Dr. Rahul Shivaji Adnaik, Pratibha Rahul Adnaik, V Gopu	Aug. 2021

Patents from College

Sr. No.	Title	Patent Application Number	Status	Name of the Inventor/s	Month & Year
05	Water Purifying and Flavor Infusion Devices	347809-001	Published and Queries addressed	V.Vandhana Devi, A. Sreenivasulu, R.S. Shinde, **Durgacharan Arun Bhagwat**	Aug. 2021
06	Machine Learning and Image Processing Based Smart Prediction of Human Emotions and Character	202141035789	Published	**Durgacharan Arun Bhagwat**, Jagadish R M., S. Violet Beaulah, Siddappaji .M. R., Arulkumar N., Bharath V G., P. Sudarsanam, Dr. K. Maheswaran, Appasami G., Sushma Jaiswal, Chetan Nagar, Minimol R.	Aug. 2021
07	Microstrip Patch Antenna Based Detection of Breast Cancer using Microwave Breast Images	202141035114	Published	Mittal, R. R. Rath, S. Ayub, **Durgacharan Arun Bhagwat**, Rahul GD, P. Jayaraman, D. Marotkar, K. Karthikayani, KB Maruthiram, S. Praveena, P. Kuchhal, R. Mishra	Aug. 2021
08	Analytical method for beta-secretase estimation from biological fluids	201721033863	Published and Queries addressed	Gaurav Gangadhar Gadgil, **Manish Sudesh Bhatia, Rakesh Pandit Dhavale**	Aug. 2021
09	Eutectic mixture and process of preparing thereof	202121023879	Filed	**Namdeo Jadhav, Udaykumar Patil,** Kranti Bille, **Jidnyasa Pantwalawalkar**	May. 2021

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3. Assessment of Structural Compatibility of Saxagliptin in Physical Mixtures with some excipient by Using HPLC Current Pharmaceutical Analysis, 1074-1082 2020
4. Synthesis, anticancer and antimicrobial evaluation of new pyridyl and thiazolyl clubbed hydrazone scaffolds,Synthetic Communications,243-255, 2020,
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52. Use of natural polymers as excipients in the pharmaceutical industry International Journal of Advanced Scientific Research, 6(2), 55-58, 2021
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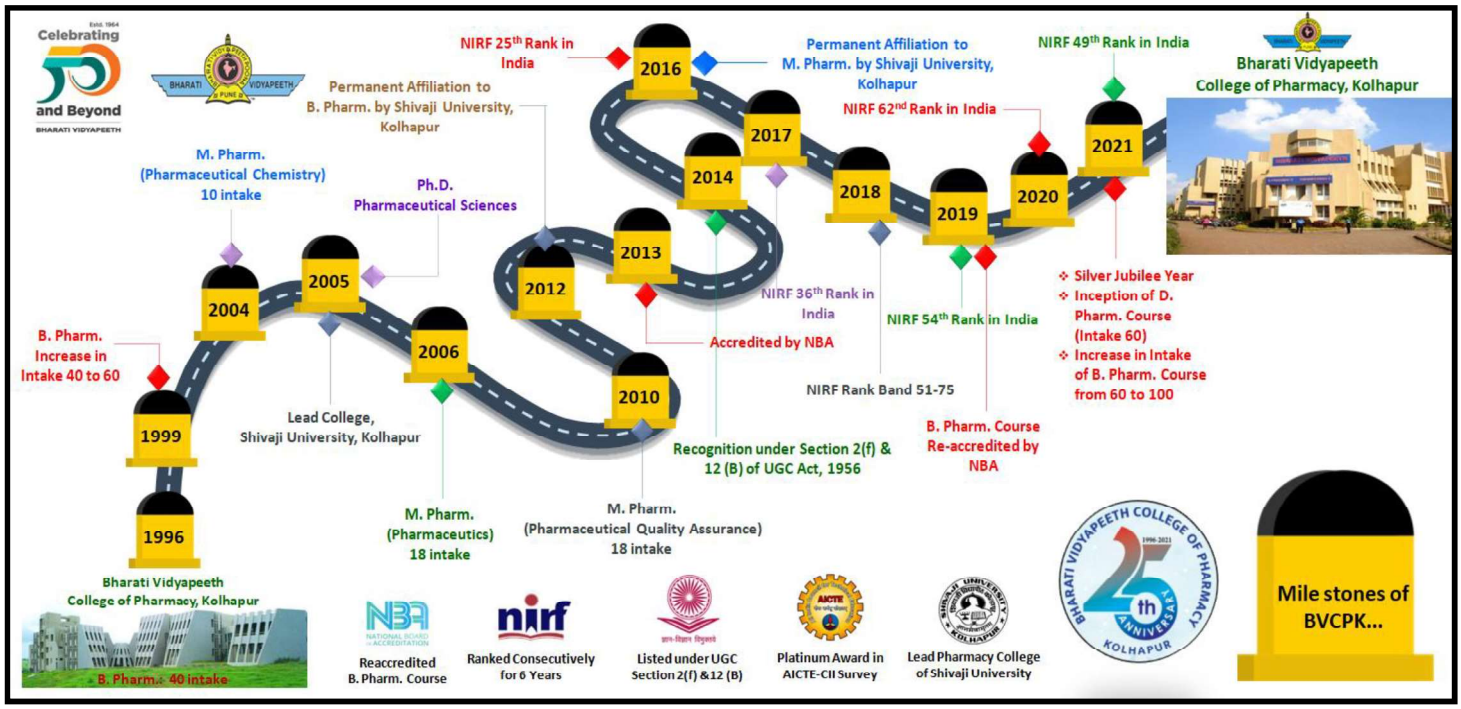
89. Synthesis, antimicrobial screening, and docking study of new 2-(2-ethylpyridin-4-yl)-4-methyl-N-phenylthiazole-5-carboxamide derivatives, Journal of the Chinese Chemical Society, 68(2), 353-361, 2021
90. Development of Visible Spectrophotometric Method and It's Validation for Dolutagravir in Bulk and Tablet Dosage form, International Research Journal of Modernization in Engineering Technology and Science, 3 (7), 708-714, 2021

Research Publications in Indexed Journals

91. Moringa Seed Protein: Advancements and Drug Delivery Prospects, International Journal of Pharmaceutical Research, 13(3),July - Sept, 2021
92. Quantitative structure property relationship assisted development of Fluocinolone acetonide loaded transfersomes for targeted delivery
93. Journal of Drug Delivery Science and Technology, 65, 102758, 2021
94. APTES monolayer coverage on self-assembled magnetic nanospheres for controlled release of anticancer drug Nintedanib, Scientific Reports, 11, 5674, 2021
95. Chitosan coated magnetic nanoparticles as carriers of anticancer drug Telmisartan: pH-responsive controlled drug release and cytotoxicity studies, Journal of Physics and Chemistry of Solids, 148, 109749, 2021
96. In vivo bioactivity– Guided isolation of antiasthmatic fraction of Celosia argentae Linn. leaves in rodents ,International Journal of Advance Research, Ideas and Innovations in Technology, 7, 3, 2-12, 2021
97. Pharmacognostic account and medicinal uses of Achyranthes aspera linn. International Journal of Pharmacognosy, 8,8, 338-345,2021
98. Role of tinospora cordifolia as immune booster current covid -19 pandemic, International Journal of Pharmacognosy 8(8), 307-316, 2021
99. In vivo and in vitro hair growth-promoting effect of silver and iron nanoparticles synthesized via Blumea Eriantha DC plant extract Journal of cosmetic Dermatology,20(4),1283-1297,2021



Near Citranagari, Morewadi, Kolhapur. M.S. India. Pin: 416 013
Phone: +91-231-2637286, Fax: +91-231-2638833
E-mail: copkolhapur@bharatividyapeeth.edu
Website: copkolhapur.bharatividyapeeth.edu

BHARATI VIDYAPEETH **Annexure -VII**
COLLEGE OF PHARMACY, KOLHAPUR

SPONSORED RESEARCH CONSULTANCY

Details after evaluation (till the date of Compliance Report)

Name of the faculty	ProjectTitle	Project Type Research/ Consultancy	Funding Agency	Amount	Duration
Dr. M. S. Bhatia	"Hands on training on cell and tissue culture based bioactivity assessment"	STTP	AICTE, New Delhi	3,28,000/-	30th Aug. to 9th Oct. 2021
	"Exploring pharmacokinetic with artificial intelligence and computing"	ATAL e-FDP-	AICTE, New Delhi	93,000/-	2nd to 6th Nov. 2020
Dr. Mrs. N.M. Bhatia	"Pharmaceutical Quality System for Product Life Cycle Management"	ATAL e-FDP-	AICTE, New Delhi	93,000/-	27th Sept. to 1st Oct.2021
	Developing leads from pharmacophoric phytofragments targeting IGF-1R for Triple-Negative Breast Cancer therapy	RPS AICTE (Status : Qualified for funding)	AICTE, New Delhi	22,82,500/-	Letter yet to be received from AICTE
Dr. A. J. Shinde	"Emerging trends and challenges in techno-stabilization of pharmaceuticals"	AICTE FDP	AICTE, New Delhi	3,92,000/-	18th Oct. to 20 Nov. 2021
	"An exploration of Novel drug delivery system in herbal medicine"	AICTE STTP	AICTE, New Delhi	4,18,333/-	26th July to 30th Aug. 2021
Dr. F. A. Tamboli	"Nutrigenomics unveiled- frontier in healthcare"	ATAL e-FDP	AICTE, New Delhi	93,000/-	23rd Nov. to 27st Nov. 2021
	Innovative trends in phytopharmacology	AICTE FDP	AICTE, New Delhi	6,24,000/-	25th Nov. to 7th Dec. 2019
Mr. R. J. Jarag	"Antidiabetic activity of herbal ice creame on albino Rats"	Consultancy (Animal Study)	SUK, Kolhapur	32,000/-	2020-21
	"Evaluation of wound healing activity of electrospun nanofibers of Acmella Paniculata"	Consultancy (Animal Study)	Balwant College, Vita	12,000/-	2020-21

	"To study effect of extract of selected plant on androgenic alopecia"	Consultancy (Animal Study)	College of Pharmacy, Savarde	15,000/-	2020-21
	Teacher's Training Workshop on new changed syllabus of "Pharmacy Practice"	FDP	SUK, Kolhapur	5,000/-	6th Feb. 2021
Mr. V. T. Pawar	Teacher's Training Workshop on new changed syllabus of "Instrumental Method of Analysis"	FDP	SUK, Kolhapur	5,000/	5th Feb. 2021
Dr. D. T. Gaikwad	Teacher's Training Workshop on new changed syllabus of "Computer aided drug delivery system"	FDP	SUK, Kolhapur	5,000/	5th Feb. 2021
Dr. D. P. Mali	Teacher's Training Workshop on new changed syllabus of "Audit and regulatory compliance"	FDP	SUK, Kolhapur	5,000/	6th Feb. 2021

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDHYAPEETH **Annexure No. - VIII**

COLLEGE OF PHARMACY, KOLHAPUR

RESULT ANALYSIS B.PHARM APRIL/MAY – 2019 (ANNUAL)

Class	No. of Candidates registered	No. of Candidates Actually appeared	No. of Candidates Passed				Without ATKT		With ATKT	
			1st Class with Dist.	First Class	Second Class	Pass Class	Number	%	Number	%
I B. Pharm. (Sem- I & II)	59	59	18	34	--	--	52	88.13	59	100
II B. Pharm. (Sem- III & IV)	67	67	20	39	--	--	59	88.05	67	100
III B. Pharm. (Sem- V & VI)	69	69	43	17	07	--	67	97.10	69	100
IV B. Pharm. (Sem- V to VIII)	64	64	19	39	06	--	64	100	64	100

RESULT ANALYSIS B.PHARM APRIL/MAY – 2020 (ANNUAL)

Class	No. of Candidates registered for Exam.	No. of Candidates Actually appeared for Exam	No. of Candidates Passed				Without ATKT		With ATKT	
			1st Class with Dist.	First Class	Second Class	Pass Class	Number	%	Number	%
I B. Pharm. (Sem.– I & II)	63	63	49	13	--	--	62	98.41	63	100
II B. Pharm. (Sem.– III & IV)	66	66	32	34	--	--	66	100	66	100
III B. Pharm. (Sem.– V & VI)	67	67	35	32	--	--	67	100	67	100
IV B. Pharm. (Sem.– V to VIII)	70	70	61	09	--	--	70	100	70	100

RESULT ANALYSIS B.PHARM APRIL/MAY – 2021 (ANNUAL)

Class	No. of Candidates registered for Exam.	No. of Candidates Actually appeared for Exam	No. of Candidates Passed				Without ATKT		With ATKT	
			1st Class with Dist.	First Class	Second Class	Pass Class	Number	%	Number	%
I B. Pharm. (Sem.– I & II)	67	67	67	--	--	--	67	100	67	100
II B. Pharm. (Sem.– III & IV)	75	75	73	02	--	--	75	100	75	100
III B. Pharm. (Sem.– V & VI)	65	65	62	02	--	--	64	98.46	65	100
IV B. Pharm. (Sem.– V to VIII)	67	67	63	04	--	--	67	100	67	100

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

BHARATI VIDYAPEETH **Annexure -IX**
COLLEGE OF PHARMACY, KOLHAPUR

Merit & Rank List 2019 to 2021

/SHIVAJI UNIVERSITY, KOLHAPUR-416004, MAHARASHTRA
PHONE: EPABX – 0091-0231-2609000 Director Office: 0231-2693176
Engg.Exam.Section: 0231-2609122 FAX: 0091-0231-2690655
Website: www.unishivaji.ac.in E-mail: coe@unishivaji.ac.in
शिवाजीविद्यापीठ, कोल्हापूर–416004 महाराष्ट्र
Estd. 1962
NAAC 'A' Grade
दूरध्वनी : (ईपीएबीएक्स)0091.0231.2609000 संचालक, कार्यालय :0231.2693176
अभियांत्रिकी आणि तंत्रज्ञान परीक्षाविभाग :0231.2609122 फॅक्स :0091.0231.2690655
वेबसाईट : (www.unishivaji.ac.in) ईमेलcoe@unishivaji.ac.in

Ref.: - SU/Engg. & Tech. Exam Sect./B.Pharm./18 DATE: 23 OCT 2019

ANNOUNCEMENT

Merit List of the successful Candidates at the Bachelor of Pharmacy Examination held in **March-2019** is declared as under.

MERIT ORDER

Branch :- **Bachelor of Pharmacy**

Merit Order	Marks Obtained	Seat No.	Name & Address of the Students	Name of the Colleges
1.	1570/2000	4529	Smt.PAILWAN ZIYA AKHTAR Address :-Fiat no 207 Shukratara Complex O/P Mahavir College Nagala Park Kolhapur Mob. No 8408855496	Bharati Vidyapeet's College of Pharmacy, Kolhapur.
2.	1568/2000	5316	Smt. SUNTHAKAR SHRUTI SHEKHAR Address :- AT Inchanal, TAL . Gadhinglaj, Dist. Kolhapur Mob. 9975098485	Sant Gajanan Maharaj College Of Pharmacy, Mahagaon.
3.	1561/2000	5045	Smt. JADHAV PRANALI ANANDRAO Address AT Post Gove Tal:- Satara Dist. :-Satara-Mob.- 9822478713	Gourishankar Institute of Pharmasutical Education & Research, Satara
4.	1549/2000	4521	Shri. Kutre Suraj Sakharam Address : AT Post Unchgaon, C'4', OmSai Park, Unchgaon Tal.- :- Karveer, Dist.- Kolhapur Mob. No-8408095414	Bharati Vidyapeet's College of Pharmacy, Kolhapur
5.	1540/2000	5321	Smti. WATANGI RUBINA USMAN Address. – AT Post Nesari, Gadhinglaj Mob. No.- 9923779471	Sant Gajanan Maharaj College Of Pharmacy, Mahagaon

17.10

Director
Board of Examinations & Evaluation

SHIVAJI UNIVERSITY, KOLHAPUR-416004, MAHARASHTRA
PHONE: EPABX – 0091-0231-2609000 Director Office: 0231-2693176
Engg.Exam.Section: 0231-2609122 FAX: 0091-0231-2690655
Website: www.unishivaji.ac.in E-mail: coe@unishivaji.ac.in
शिवाजी विद्यापीठ, कोल्हापूर–416004 महाराष्ट्र
दूरध्वनी : (ईपीएबीएक्स)0091.0231.2609000 संचालक, कार्यालय :0231.2693176
अभियांत्रिकी आणि तंत्रज्ञान परीक्षाविभाग :0231.2609122 फॅक्स :0091.0231.2690655
वेबसाईट : (www.unishivaji.ac.in) ईमेलcoe@unishivaji.ac.in
Estd. 1962
NAAC 'A' Grade

Ref.: - SU/Engg. & Tech. Exam Sect./B.Pharm./19 DATE: 23 OCT 2019

ANNOUNCEMENT

Merit List of the successful Candidates at the Bachelor of Pharmacy Examination held in **March-2019** is declared as under.

RANK ORDER

Branch :- **Bachelor of Pharmacy**

Merit Order	Marks Obtaind	Set No.	Name & Address of the Students	Name of the Colleges
6.	1538/2000	4851	Smt. PATIL ASHATAI BHAGVAN Address :-AT/Post- Biur, Tal:- Shirala,Dist :- Sangli Mob. No:- 7057490340 PIN-415408	Ashokrao Mane College of Pharmacy,Peth Wadgaon.
7.	1533/2000	4496	Smt. CHOUGULE AISHWARYA ANANDA Address :-AT/Post- Pattan Kodoli,Shastri Chowk Tal- Karveer, Dist. – Kolhapur Mob:- 9850892678	Bharati Vidyapeet's College of Pharmacy, Kolhapur
8.	1530/2000	5378	Smt.SHENDE PALLAVI TANAJI Address :- AT- SHENDEWADI POST-PHONDSHI, Tal:- MALSHIRAS Dist-SOLAPUR, Mob .No:- 9960741257	Yashoda Technical Campus,Faculty Of Pharmacy, Wadhe, Satara.
8.	1530/2000	4574	Smt. JOSHI AMRUTA VIVEK Address:-Plot No 24 B Ward Gurumharaj Nagar Hockey Stadium, Kolhapur Mob. No:- 9637061154	Tatyasaheb Kore College Of Pharmacy, Warananagar.
9.	1525/2000	5250	Smt. SHINGADE RANI SAYAPPA Address :- AT/P –DHULDEV, Tal. – MAN Dist:- SATARA, Mob. No:- 9960592970	Satara College Of Pharmacy, MIDC, Degaon Satara
10.	1519/2000	4537	Patil Snehal Rajendra Janupada vikas Mandal, Akurli Road , Near Western Express Highway, kandivali (E) Mob. No:-8268013484	Bharati Vidyapeet's College of Pharmacy, Kolhapur

17.10

Director
Board of Examinations & Evaluation

SHIVAJI UNIVERSITY, KOLHAPUR-416004, MAHARASHTRA
PHONE: EPABX – 0091-0231-2609000 Director Office: 0231-2693176
Engg. & Tech..Exam.Section: 0231-2609122 ,9369 FAX: 0091-0231-2690655
Website: www.unishivaji.ac.in E-mail: coe@unishivaji.ac.in
शिवाजी विद्यापीठ, कोल्हापूर–416004 महाराष्ट्र
Estd. 1962
NAAC 'A' Grade
दूरध्वनी : (ईपीएबीएक्स) 0091.0231.2609000 संचालक, कार्यालय: 0231.2693176
अभियांत्रिकी आणि तंत्रज्ञान परीक्षा विभाग: 0231.2609122, 9369 फॅक्स :0091.0231.2690655
वेबसाईट : (www.unishivaji.ac.in) ईमेल coe@unishivaji.ac.in

Ref.: - SU/Engg. & Tech. Exam Sect./B.Pharm./ 287

DATE: 19 MAR 2021

ANNOUNCEMENT

Merit List of the successful Candidates at the Bachelor of Pharmacy Examination held in **March-2020** is declared as under.

MERIT ORDER

Branch :- **Bachelor of Pharmacy**

Merit Order	Marks Obtained	Seat No.	Name & Address of the Students	Name of the Colleges
1.	1689/2000	5152	Shri. CHAVAN AKSHAY BHARAT A/P Chikhalhol, Vita. Mob - 9420657553	Adarsh College of Pharmacy, Vita, Dist – Sangli.
2.	1658/2000	4190	Smt. CHOUGALE RUTUJA DATTATRAY A/P- Murgud, Kagal Mob - 9657645805	Bharati Vidyapeeth's College of Pharmacy, Kolhapur.
3.	1647/2000	4316	Smt.ANURE ANKITA APPASAHEB 21/243 'Sharada Nivas' Near Venkatesh Colony, Ganganagar, Ichalkaranji Mob – 7447313623	Shri. Santkrupa College of Pharmacy, Ghogaon, Tal –Karad.
4.	1645/2000	4650	Smt. PINGALE KOMAL SARJERAO At- Parkandi, Post – Malawadi, Tal – Man, Dist – Satara, Parakandi. Mob - 9422337727	Arvind Gavali College of Pharmacy, Jaitapur, Dist – Satara.
5.	1634/2000	4206	Smt. JADHAV POONAM SUBHASH Prathamesh Plaza, Near Kolhapur Urban Bank, Jaragnagar Main Road, Kolhapur, PIN – 416 007.	Bharati Vidyapeeth's College of Pharmacy, Kolhapur

I/c Director
Board of Examinations & Evaluation

SHIVAJI UNIVERSITY, KOLHAPUR-416004, MAHARASHTRA
PHONE: EPABX – 0091-0231-2609000 Director Office: 0231-2693176
Engg. & Tech..Exam.Section: 0231-2609122 ,9369 FAX: 0091-0231-2690655
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शिवाजी विद्यापीठ, कोल्हापूर–416004 महाराष्ट्र
Estd. 1962
NAAC 'A' Grade
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अभियांत्रिकी आणि तंत्रज्ञान परीक्षा विभाग: 0231.2609122,9 9369 फॅक्स :0091.0231.2690655
वेबसाईट : (www.unishivaji.ac.in) ईमेल coe@unishivaji.ac.in

Ref.: - SU/Engg. & Tech. Exam Sect./B.Pharm./ 288 . DATE: 19 MAR 2021

ANNOUNCEMENT

Rank List of the successful Candidates at the Bachelor of Pharmacy Examination held in **March-2020** is declared as under.

RANK ORDER

Branch :- **Bachelor of Pharmacy**

Rank Order	Marks Obtained	Seat No.	Name & Address of the Students	Name of the Colleges
6.	1624/2000	4517	Shri. GAWAS SANKET YASHWANT A Konshi P Tambuli, Sawantwadi, Mob- 9405291399	Ashokrao Mane College of Pharmacy, Peth- Vadgaon, Tal – Hatkanangle, Dist – Kolhapur..
7.	1615/2000	5256	Smt. SHINDE PRAJAKTA MOHAN At- Khadobachiwadi, Post – Bhilawadi, Station, Tal – Palus, Dist – Sangli	Annasaheb Dange College of Pharmacy, Ashta, Dist – Sangli,
8.	1609/2000	4030	Smt. JAGTAP PRANJALI RAJENDRA Dhara Prasad, Pllot No. 12, Shivtej HSC Soc., Shahunagar, Godoli, Satara.	Government College of Pharmacy, Karad, Dist – Satara.
9.	1607/2000	4032	Smt. JORE YOGITA SHARAD Palakhi Maidan, Natepute, Tal – Malshiras, Dist – Solapur, Malshiras.	Government College of Pharmacy, Karad, Dist – Satara.
10.	1606/2000	4230	Smt. PAWAR-MEDHE TANVI SHRIRANG Manomay Bunglow, Anukamini Coloney, Behind, State Exercise Office, Near Dhunyachi Chavi, Rankala Tower, PIN – 416 012.	Bharati Vidyapeeth's College of Pharmacy, Kolhapur.

I/c Director
Board of Examinations & Evaluation

SHIVAJI UNIVERSITY, KOLHAPUR-416004, MAHARASHTRA
PHONE: EPABX - 0091-0231-2609000 Director Office: 0231 2693176
Engg.Exam Section: 0231-2609122 , 9369 FAX: 0091 0231 2690655
Website: www.unishivaji.ac.in E-mail: coe@unishivaji.ac.in
शिवाजी विद्यापीठ, कोल्हापूर 416004 महाराष्ट्र
दूरध्वनी : (ईपीएबीएक्स)0091 0231 2609000 संचालक, कार्यालय 0231 2693176
अभियांत्रिकी आणि तंत्रशिक्षण परीक्षाविभाग 0231 2609122 फॅक्स 0091 0231 2690655
वेबसाइट : (www.unishivaji.ac.in) ईमेलcoe@unishivaji.ac.in
Estd. 1962
NAAC 'A++' Grade (2021)
With CGPA 3.52

Ref.:- SU/Engg. & Tech. Exam Sect./M.Pharm./ 400 DATE: 01/01/2022

ANNOUNCEMENT

Merit List of the successful Candidates at the Bachelor of Pharmacy Examination held in **March-2021** is declared as under.

MERIT ORDER

Branch :- **Bachelor of Pharmacy**

Merit Order	CGPA Obtained	Seat No.	Name & Address of the Students	Name of the Colleges
1.	9.07	20844	**Smt. Jadhav Shubhangi Rajaram** Dhamane Galli, Malgaon, Tal- Miraj, Dist- Sangli. Mob. No.- 8007454967	Annasaheb Dange College of B. Pharmacy, Ashta, Dist – Sangli.
2.	8.94	20905	**Smt. Savale Shubhangi Sachidanand** Langar Peth Road, Nangole, Tal- Kavathe-Mahankal, Dist- Sangli. Mob. No.- 8600429783	Annasaheb Dange College of B. Pharmacy, Ashta, Dist – Sangli.
3.	8.82	20192	**Shri. Patil Omkar Gulab** A-203, Tirupati Apartment, Kamla Park, Tal-Palghar, Dist- Palghar. Mob. No.-9168737625	Bharati Vidyapeet's College of Pharmacy, Kolhapur.
3.	8.82	20848	**Smt. Jamadar Aafrin Gous** H/O NO 739 Khan Bhag, Sangli, Dist- Sangli. Mob. No.- 8421894277	Annasaheb Dange College of B. Pharmacy, Ashta, Dist – Sangli.
4.	8.78	20845	**Smt. Jadhav Shweta Prakash** At Post Bahadurwadi, Chandoli Vasahat, Tal- Walwa, Dist- Sangli. Pin Code - 415411 Mob. No.- 9765500987	Annasaheb Dange College of B. Pharmacy, Ashta, Dist – Sangli.
5.	8.74	20879	**Smt. Mulani Rukaiya Mohammadshakil** 471/15 Gondhale Plot, Near Nurani Masjid, Sangli, Dist – Sangli. Mob. No.- 9156799914	Annasaheb Dange College of B. Pharmacy, Ashta, Dist – Sangli.

Director
Board of Examination & Evaluation

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR

Annexure -X

Quality of Students admitted

Sr. No.	Year	Top Merit Score (Percentile)	Merit Cut off Score (Percentile)	No of students admitted above 90 Score	No. of students admitted between 80 to 90 Score
1	2019-20	99.35	44.55	19	15
2	2020-21	97.65	15.57	22	08
3	2021-22	98.35	44.98	43	13

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR

Annexure -XI

Student Success Stories

Sr. No.	Name	Present Designation	Company/ Institute name	Mobile Number & E-mail ID
1.	Dr. Renuka Gupte	Senior Manager - Value-Based Care Analytics	Population Health Toledo, Spain	9923337173 renu1312@yahoo.com
2.	Dr. Premanand Patil	Deputy General Manager- Technical, IP, BD & Portfolio Strategy	Famy Life Sciences, Pune	9920625427 drpremanandpatil@gmail.com
3.	Gurudatta Satarkar	Plant Head	Cipla Ltd. Goa	9765493235 gurudatta.satarkar@cipla.com
4.	Dr. Karthik Nair	New Product Introduction Lead	Summit Medical Group Ltd England, United Kingdom	+4401274234794/ 8139863861 karthiknair28@gmail.com
5.	Sapna Kupekar	Assistant commissioner	FDA Maharashtra	9870550144 kuppekar.s@gmail.com
6.	Avadhut Joshi	Senior Vice President & SBU Head - West, Central & International	Metropolis Healthcare, Mumbai	9820550405 avdut.joshi98@facebook.com
7.	Nishant Zalavadia	Project Leader	Apotex Inc. Canada	9637541705 nishantzalavadia15@gmail.com
8.	Tejas Thakur	Managing Director	Mistair Health & Hygiene Pvt. Ltd., Kolhapur	9766194089 tejasthakur@mistair.net
9.	Dr. Santosh Patil	Associate Director	Sai Life Science, Hyderabad	9404265663 patil.santoshn@gmail.com
10.	Maheshwar Alkunte	Assistant General Manager	Medico Marketing at Viatris Hyderabad, Telangana	9326082610 mahupharm@gmail.com
11.	Chaitrali Kulkarni	Head, Research and Development	Health Innovations and Vitrition UK	+447447920212/ chaitralisk@gmail.com
12.	Kedar Waykul	Assistant General Manager	IPCA Laboratories Ltd., Mumbai	9920597739 kedar_sw@rediffmail.com

13.	Dr. Sachin Salunkhe	Business Development Manager	DKSH India, Mumbai	9096056433 sachinssalunkhe10@gmail.com
14.	Dr. Ajinkya Nikam	Manager Medical Writing	PPD, Mumbai	9850895849 ajinkya_nikam27@rediffmail.com
15.	Sagar Hirve	Business manager	Mankind Pharma, Pune	9960131432 sagargh88@gmail.com
16.	Amit Shinde	Research Scientist	Mylan Lab, Bangalore	9975430824 amitspharma@gmail.com
17.	Sunil Pol	Head (Sales)- India West, East & Bangladesh at Centrient Pharmaceuticals	Centrient Pharma, Gujarat	9167653065 sunilpol007@gmail.com
18.	Aruna Ballal	Project Manager	Wipro Limited, Mumbai	9004042439 arunaballal@gmail.com
19.	Suraj Velhal	Principal Scientist	Zoetis Inc. Mumbai	9819553873 surajvelhal@rediffmail.com
20.	Francis Dias	Clinical Team Leader	Covance India pharmaceutical services private limited, Thane	9987510282 francis071977@rediffmail.com
21.	Prashant Nikam	Head Quality Assurance	Synapse Labs private limited Pune	9860025668 prashantnikam950@gmail.com
22.	Amit Bhat	Area Sales Manager	Smiths Medical Patiala, Punjab, India	9216317212 amitbhat25@gmail.com
23.	Priya Arage	Global Regulatory Affairs Specialist	Sandoz (Novartis division) Hyderabad	9960157767 priya.arage26@gmail.com
24.	Bhushan Patil	Scientist	Serum Institute, Pune	9765674949 bhushan.brp@rediffmail.com
25.	Sunil Pawar	Clinical Research Professional	Greater Boston	9960362138 sunilhpawar@lupinpharma.com
26.	Zakihusain Tamboli	Managing Director	Urgenic Pharma, Kolhapur	9595907847 zakiaur@gmail.com
27.	Sameer Inamdar	Manager	Cipla Ltd. Goa	9765493174 sameer_3262@yahoo.co.in
28.	Annasaheb Kalange	Research Scientist	Jubilant Biosys Bangalore Urban, Karnataka, India	8105326178 annask12@gmail.com
29.	Sushilkumar Patil	Senior Research Scientist	Lupin Pune	9816744404 sushilatbits@gmail.com

30.	Sushilkumar Jadhav	Senior Associate Manager	Elanco Animal Health, Bengaluru	8600404882 sushil_gcopk@hotmail.com
31.	Kiran Raygude	Team Leader	Sanofi, Mumbai	9762531108 kiranryagude@gmail.com
32.	UmarFarukh Tamboli	Executive Production	Piramal Pharma solutions, Mahad	9960453065 farukh.tamboli@rediffmail.com
33.	Akash Rathod	Formulation Scientist	Novartis, Hyderabad	9766356896 vijaydash1982@gmail.com
34.	Pravin Walekar	Research and Development Manager	Piramal Pharma Solutions Mahad	9096018996 coolpsp28@rediffmail.com
35.	Pundlik Pai	Manager Clinical Quality Compliance	Lupin Pharma, Pune	9890031983 pundlikpai@rediffmail.com
36.	Atul Kadam	Police Sub Inspector	Rajarampuri Kolhapur	7722011124 Shamburaje25@gmail.com
37.	Kishor Khade	Police Sub Inspector	Kurundwad	9822934684 khadekishor111@gmail.com
38.	Sachin Kumbhoje	Director	Opex Accelerator Pvt. Ltd. Kolhapur	8806342656 Sach.kumbhoje@gmail.com
39.	Vishal Daddikar	Director	VD MoleChem Therapeutics, Kolhapur	9595229922 info@molechem.co.in
40.	Dr. Kundan Ingale	Application Scientist	Novalead, Pune	9890527200 kundani@vlifescience.com
41.	Vinayak Kachare	Managing Director	Maksoft Solution, Kolhapur	973004190 vinayakkachare@gmail.com
42.	Sanjiv Gubbi	Manager, Global Research and Development	Teva Pharmaceutical Goa	9673622676 sanjeevgubbi16@rediffmail.com
43.	Mohasin Tamboli	Group Manager	Regaliz Medicare LTD Mumbai	89764667123 mohsintamboli@gmail.com
44.	Parag Ingle	Senior Regulatory Affairs Specialist	GSK, Mumbai	7588415197 parag_ingale29@rediffmail.com
45.	Shripad Puranik	Territory Manager	Acelity, Pune	9860085474 puranik_shripad@rediffmail.com
46.	Prajakt Gupte	Territory Business Manager	B&S Group, Mumbai	7387921513 prajktagupte@gmail.com
47.	Vaibhav Khade	Research Associate	Aurigene Discovery (Dr. Reddy's Group), Bengaluru	7387876787 khadejack@gmail.com

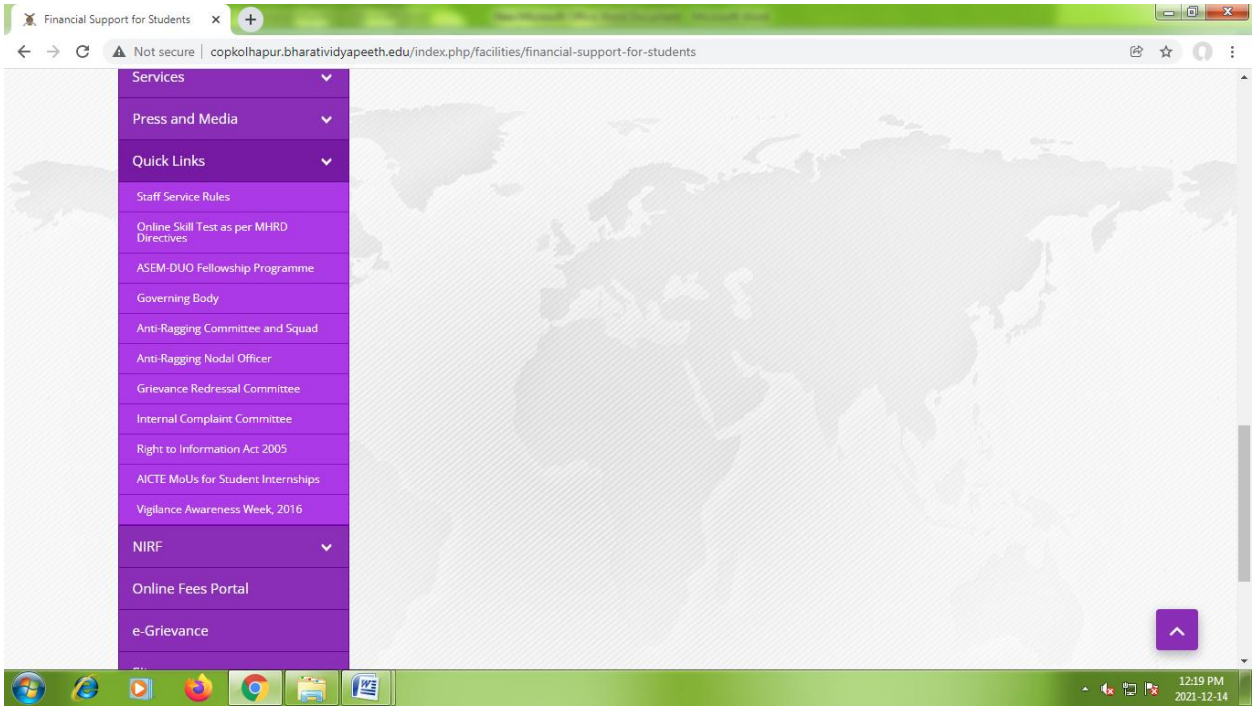
48.	Nikhil Bhore	Research Associate	S. Zhaveri Pharmakem Pvt.Ltd., Mumbai	8600405108 nikhil.b4@rediffmail.com
49.	Aafrin Attar	Clinical Pharmacist, Trainee in Clinical Research & Pharmacovigilance	TCS, Thane	8421705460 aafrin.kb20@gmail.com
50.	Mayuri Bhandari	Clinical Data Specialist	Covance, Bengaluru	8485057502 mayuri.bhandari55@gmail.com
51.	Nilesh Jadhav	Senior Manager	Blue Cross, Goa	8484870117 nileshjadhav1494@gmail.com
52.	Amrut Bongale	Manager	Lupin Pharma, Goa	9158987388 amrutbongale@lupin.com
53.	Ashok Ghadge	Research Scientist Formulation and Development	Aurobindo Hyderabad.	9766353634 ashokaghadge87@gmail.com
54.	Yogesh Shetty	Research Scientist Formulation and Development	Piramal Ahmedabad.	9892304641 yogesh.shetty80@gmail.com

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH **Annexure -XII**
COLLEGE OF PHARMACY, KOLHAPUR

Website : copkolhapur@bharatividyapeeth.edu

Service Rules



PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

Decentralization - Working Committees

BHARATI VIDYAPEETH COLLEGE OF PHARMACY, KOLHAPUR

WORKING COMMITTEES FOR ACADEMIC YEAR 2021-22

Sr. No.	COMMITTEES	INCHARGE &MEMBERS	Sr. No.	COMMITTEES	INCHARGE &MEMBERS
1.	POST GRADUATE PROGRAMME COMMITTEE	**Dr. Mrs. N.M. Bhatia (PG Academic)** Dr. D. A. Bhagwat (PG P'ceutics) Mr. D. P. Mali (PG PQA) Dr. P. B. Choudhari(PG Ph. Chemistry)	9.	EXAM. COMMITTEE	**Mr. V. T. Pawar** Mrs. A.S. Jadhav Mrs. P. K. Mane Mr. V. D. Jangam Mr. D. S. Desai
2.	UNDER GRADUATE PROGRAMME COMMITTEE	**Dr. A. A. Hajare (UG Academic)** Mr. R.R Chavan , Smt.P. S. Yadav (FY. B.Pharm.) Dr. D. T. Gaikwad (SY B.Pharm) Dr. F. A. Tamboli (TY B.Pharm) Dr. R. J. Jarag (Final Year)	10.	INTERNAL COMPLAINTS COMMITTEE	**Dr. Mrs. N. M. Bhatia** Mrs. R. R. Jarag Mr. R. J. Jarag Mrs. R. R. Kulkarni Mr. C. S. Suryawanshi Mrs. P. K. Mane
3.	IQAC	**Dr. M. S. Bhatia** Dr. Mrs. N. M. Bhatia, Dr. A. A. Hajare Mr. R. J. Jarag, Dr. P. B. Choudhari Dr. D. A. Bhagwat, Mrs. P. A. Uchale	11.	LEAD COLLEGE COORDINATION COMMITTEE	**Dr. D. P. Mali** Mr. D.A. Chavan
4.	RESEARCH COORDINATION COMMITTEE	**Dr. M. S. Bhatia** Dr. N. R. Jadhav Dr. Mrs. N. M. Bhatia Dr. A. A. Hajare	12.	IIPC & PLACEMENT COMMITTEE	**Dr. A. J. Shinde** Smt..P.S. Yadav Mr. S. A. Chougule Dr. P. B. Choudhari
5.	ANTI-RAGGING COMMITTEE	**Dr. H. N. More** Mr. R. J. Jarag Mr.D. A. Chavan Mr. S. A. Chougule`	13.	STORE COMMITTEE	**Mr. P. A. Mahadik** Mr. S. B. Khavale **Dr. S.A. Ashtekar**
6.	STUDENT COUNCIL / GYMKHANA	**Dr. F. A. Tamboli**	14.	COLLEGE WEBSITE	**Dr. D. P. Mali** Mr. V. A. Kadam
7.	GAURDIAN TEACHER	**Dr. F. A. Tamboli** Mr. D. A. Chavan			
8.	ePHARMARHYTHM 10th May, yearly	**D. T. Gaikwad** Mrs.P. S. Uchale Mr. V. A. Kadam	15.	HOD'S P.Chem. P'ceutics Q.A. Pharmacognosy Pharmacology D.Pharm	Dr. M. S. Bhatia Dr. N. R. Jadhav Dr. Mrs. N. M. Bhatia Dr. F. A. Tamboli Mr. R. J. Jarag Dr. D. A. Bhagwat
	BVCPK TECH-MAG 10th Oct, yearly	**Mr. R. P. Dhavale** Mrs. J. R.Pantwalawalkar Mr. K. N. Harale			

VICE PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy
Kolhapur

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH COLLEGE OF PHARMACY, KOLHAPUR

WORKING COMMITTEES FOR ACADEMIC YEAR 2021-22

Sr. No.	COMMITTEES	INCHARGE/MEMBERS		Sr. No.	COMMITTEES	INCHARGE & MEMBERS
16.	**ADMISSION COMMITTEE**	Mr. C.H. Suryawanshi Dr. P. B. Choudhari Dr. D. A. Bhagwat		21.	**ALUMNI**	**Mr. F. A. Tamboli** Mr. S. S. Mali Mr. D.A. Chavan
17.	**INNOVATION, INCUBATION, STARTUP**	Dr. H. N. More Dr. M. S. Bhatia Dr. N. R. Jadhav		22.	**SWAYAM, MOOC & similar**	**Mrs. Snehal Patil** Mrs.J.R.Pantwalawalkar
18.	**REGULATORY WORK (AICTE, NBA, NAAC, University, etc)**	**Dr. M. S. Bhatia** Mr. U. S. Patil Mr. D.V. Mahuli	**TECH. SUPPORT** Dr. P.B. Choudhari Dr. D.A. Bhagwat	23.	**NSS**	**Mrs. R.R. Jarag** Mr. V. T. Rajigare Mr. D. A.Chavan
19.	**NIRF**	**Dr. N. R. Jadhav**		24.	**SPORT**	**Mr. D.A. Chavan** Mr. Umesh.S. Patil
20.	**LAB** PG Pharm Chem. PG QA Lab PG Pharmaceutics Pharmaceutics II Pharm. Chem.-I Pharm. Chem.-II Pharm. Analysis Pharmaceutics-I Pharm. Micro. Pharmacognosy Pharmacology Computer Lab AI/CAD Lab Pharmacy Practice Pharmaceutics III Animal House CFC Language Lab Pharm. Chem.-III Machine Room	**INCHARGE** **Mr. S. B. Khavale,** Dr. M. S. Bhatia **Mr. S. S. Mali,** Dr. Mrs. N. M. Bhatia **Mr. R. T. Chavan,** Dr. N. R. Jadhav **Mr. R. T. Chavan,** Dr. A. A. Hajare **Mr. V. T. Rajigare,** Dr. P. B. Choudhari **Mr. V. T. Rajigare,** Mrs. R. R. Jarag **Mr. V.R. Jadhav,** Mrs. S. A.Thorat **Mr. Umesh S. Patil,** Mr. U. S. Patil **Mr. Umesh S. Patil,** Mr. R.P. Dhavale **Mr. V. A. Kadam,** Dr. F. A. Tamboli **Mr. R. B. Patil,** Mr. R. J. Jarag **Mr. K. N. Harale** **Mr. K. N. Harale,** Mr. D.V. Mahuli **Mr. R. B. Patil,** Mrs.P. S. Uchale **Mr. V. A. Kadam,** Mr. S. A. Chougule **Mr. R. B. Patil,** Mr. R. J. Jarag **Mr. V.R. Jadhav,** Mr. R. R. Chavan **Mr. K. N. Harale,** Mr. V. A. Kadam **Mr. V. A. Kadam,** Mrs. P. K. Mane **Mr. R. B. Patil,** Dr. D. T. Gaikwad		25.	**CULTURAL**	**Mrs. S. S. Patil** Mr. D.A. Chavan Mr. V.R. Jadhav
				26.	**CO-CURRICULAR**	**Mr. V. H. Thorat** Mr. S. A. Chougule Mr. R. T. Chavan
				27.	**PUBLICITY**	**Mr. P. D. Sawant** Mr. S. S. Mali
				28.	**Vmedulife - LMS**	**Dr. A. A. Hajare** **Mr. S. A. Chougule**
				29.	**GOVERNING BODY CDC, LMC, STANDING COMMITTEE**	**Mr. R. J. Jarag** Mr. D. S. Desai
				30.	**LIBRARY CDSCO & MSPC**	**Mrs. S. S. Patil** Mr. P. D. Sawant
				31.	**STAFF MEETINGS**	**Mrs. S. A. Thorat**

VICE PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy
Kolhapur.

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR

GRIEVANCE REDRESSAL COMMITTEE

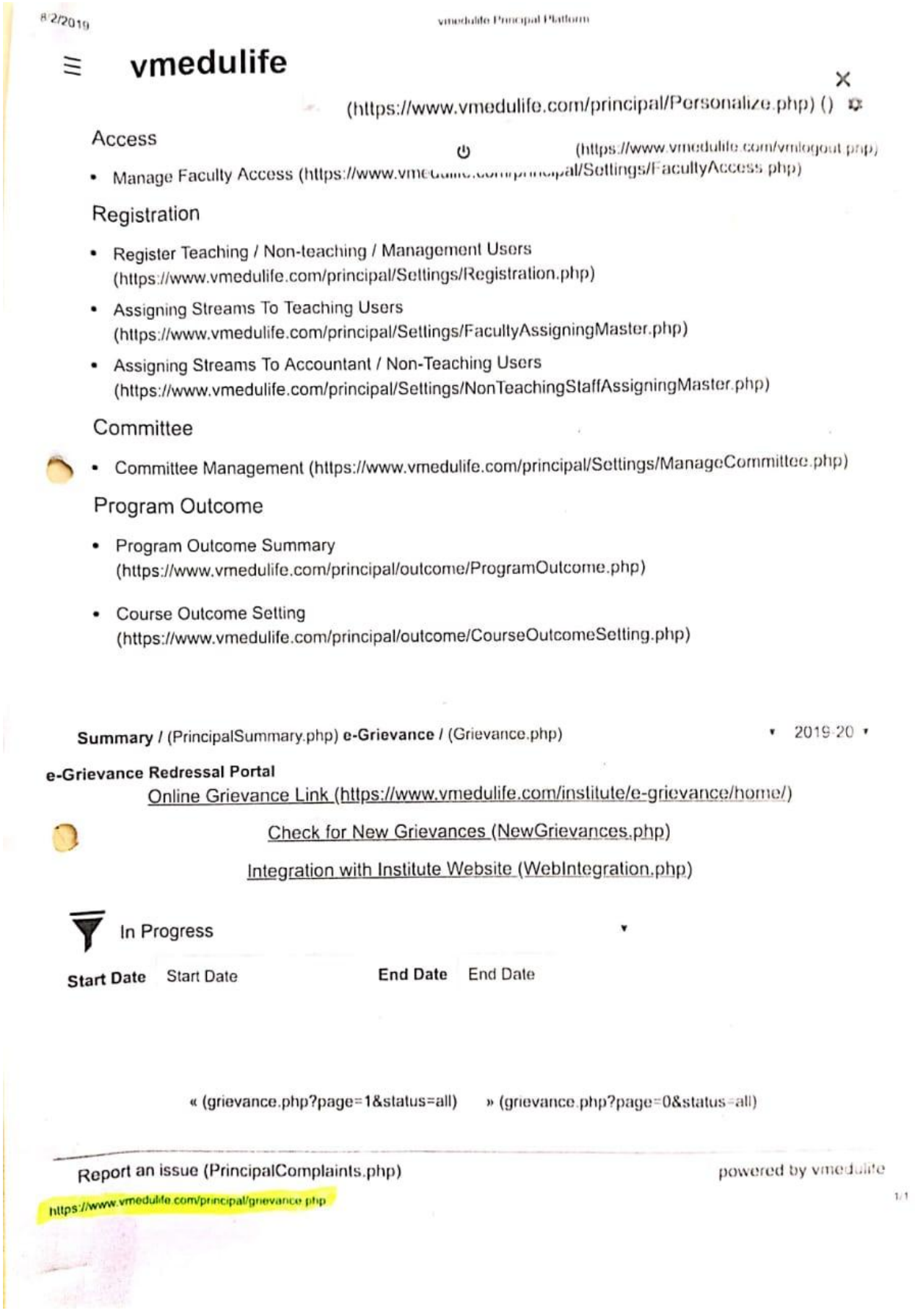
As per All India Council for Technical Education (Establishment of mechanism for Grievance Redressal) Regulations, 2012 Notification No.F.No.37-3/Legal/2012. dated 25th May 2012 **Grievance Redressal Committee** has been constituted with objective of resolving the grievance of students, parents and others. The following Grievance Redressal Committee is constituted at the institute level.

URL - https://www.vmedulife.com/principal/grievance.php

Sr. No.	Name	Category	Contact No.
1	Dr. Harinath N. More	Chairperson	9890626433
2	Dr. Manish S. Bhatia	Vice-Principal	9822172940
3	Dr. Mrs. Neela M. Bhatia	In-charge, ICC and PG Academics	9823463687
4	Dr. Ashok A. Hajare	In-charge, UG Academics	9823695030
5	Mr. Ravindra J. Jarag	In-charge, ARC and Squad	9423595699
6	Dr. Durgacharan A. Bhagwat	HOD, Diploma in Pharmacy	9561350999
7	Dr. Firoj A.Tamboli	In-charge Student Council	9503709095

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

Online Grievance Redressal Link



8/2/2019 vmedulife Principal Platform

vmedulife

(https://www.vmedulife.com/principal/Personalize.php) ()

Access

(https://www.vmedulife.com/vmlogout.php)

- Manage Faculty Access (https://www.vmedulife.com/principal/Settings/FacultyAccess.php)

Registration

- Register Teaching / Non-teaching / Management Users (https://www.vmedulife.com/principal/Settings/Registration.php)
- Assigning Streams To Teaching Users (https://www.vmedulife.com/principal/Settings/FacultyAssigningMaster.php)
- Assigning Streams To Accountant / Non-Teaching Users (https://www.vmedulife.com/principal/Settings/NonTeachingStaffAssigningMaster.php)

Committee

- Committee Management (https://www.vmedulife.com/principal/Settings/ManageCommittee.php)

Program Outcome

- Program Outcome Summary (https://www.vmedulife.com/principal/outcome/ProgramOutcome.php)
- Course Outcome Setting (https://www.vmedulife.com/principal/outcome/CourseOutcomeSetting.php)

Summary / (PrincipalSummary.php) **e-Grievance** / (Grievance.php) 2019-20

e-Grievance Redressal Portal

Online Grievance Link (https://www.vmedulife.com/institute/e-grievance/home/)

Check for New Grievances (NewGrievances.php)

Integration with Institute Website (WebIntegration.php)

In Progress

Start Date Start Date **End Date** End Date

« (grievance.php?page=1&status=all) » (grievance.php?page=0&status=all)

Report an issue (PrincipalComplaints.php) powered by vmedulife

https://www.vmedulife.com/principal/grievance.php

1/1

Raise & View e-Grievances

Pending - 0 In progress - 0 Closed - 0

Add Grievance

My Grievances

No grievance added yet. Please click on 'Add Grievance' button to add the grievance.

Grievance Consider Committees

No Committees assigned to grievance yet.

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH **Annexure -XIV**

COLLEGE OF PHARMACY, KOLHAPUR

Delegation of financial powers

Pub. Trust No. F/277/Poona

Soc. Reg. No. Bom./441 Poona

FOUNDER
Dr. PATANGRAO KADAM
M.A., LL.B., Ph.D.

SECRETARY
VISHWAJIT KADAM
B.E.(Comp.), M.B.A.

JOINT SECRETARIES
V. B. MHETRE
Prin. K. D. JADHAV
Dr. M. S. SAGARE

Bharati Vidyapeeth

Bharati Vidyapeeth Bhavan, L.B.S. Marg, Pune - 411 030.
PHONE : 24325701, 24325509, 24325510 • FAX : 020-24339121
Website : http://www.bharatividyapeeth.edu, E-mail : info@bharatividyapeeth.edu

(DONATIONS ARE EXEMPTED FROM INCOME-TAX VIDE NO. P 165/B-40)

Date: 27/8/1998

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dr. H. N. More, is working as Principal in Bharati Vidyapeeth College of Pharmacy, Kolhapur. He is hereby authorised to act as the signing authority for all documents relating to financial matters of Bharati Vidyapeeth College of Pharmacy, Kolhapur.

Joint Secretary
Bharati Vidyapeeth

BHARATI VIDYAPEETH

COLLEGE OF PHARMACY, KOLHAPUR

Comparative report of equipment to be purchased for the year 2021-22

Name of Equipment	Name of agency with equipment specifications
	Trident Equipments, Pvt. Ltd., Mumbai
Microfluidizer, Small volume, Electric 30K PSI Max Pressure **Make: Microfluidics International Corporation, Canada** **Specifications**: • Nominal flow rate up to 90 ml/min (water) depending on operating pressure, • 14 ml minimum sample size, 2068 bar (30000 psi) maximum working pressure • Electric power requirement: Low voltage is considered: 208-230, 60Hz 3PH and 190-220, 50Hz 3PH, High Voltage: 460-480V, 60Hz 3PH and 380-415V, 50Hz 3PH. Dimensions: (HxWxL) 23" H x 33"W x 26"L (59 x 84 x 66 cm), Weight: 250 lbs (112kg) **Operating Environment:** 50-80F (10-26^{0}C), altitude less than 1000 meters, Humidity less than 80% **Standard Features:** One Diamond interaction chamber, Digital color touch screen display with: Pressure control and indication, Stroke counter, Multiple display language, Product contact surface: 316/316L stainless steel, Feed reservoir: ONE 300 ml glass with Tuf-Flex gasket , Emergency stop switch Electro hydraulic power unit, air cooled **Cooling coil** include stabilizer walany 3 years	Rs. 1500000.00
Subtotal (INR)	**Rs. 1500000.00**
Add: Freight charges	Rs. 15000.00
Total F.O.R. Price (INR) In words: Rs. Fifteen Lakh Fifteen Thousand Only	**Rs. 1515000.00**

***GST @ 18% or @ 5% against submission of Exemption (Concessional) certificate extra as applicable at time of supply.**

Note: Microfluidizer, it is the only product of **Microfluidics International Corporation, Canada** of whose the only dealer in India is **Trident Equipments, Pvt. Ltd., Mumbai.** So, after negotiations and further discussion, **Trident Equipments, Pvt. Ltd., Mumbai** has agreed to supply above equipment at lowest rate. Hence, the purchase of above equipment from **Trident Equipments, Pvt. Ltd., Mumbai** firm is recommended.

Dhavale

Mr. R. P. Dhavale
Store In-charge

Dr. N. R. Jadhav
HOD, Dept., Pharmaceutics

Dr. M. S. Bhatia
Vice Principal

Dr. H. N. More
Principal & In Charge
Purchase Committee

Founder :
DR. PATANGRAO KADAM
M.A., LL.B., PhD.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY
NEAR CHITRANAGARI, KOLHAPUR - 416013
Phone No. (0231) 2637286, 2638833

To,
TRIDENT EQUIPMENTS PVT LTD.,
A-105, F-409/410, Kailas Industrial Complex,
Hiranandani Godrej Link Road, Park site,
Vikhroli [W], Mumbai – 400 079, Maharashtra
Email:- info@tridentequipments.com,
samir.kane@tridentequipments.com
Tel: +91 22 2518 1705/04/06
Mob No.: 9987045724

PURCHASE ORDER NO.
BV / CPK / 220 /2021 - 2022
Date: 14 / 09 /2021

DELIVERY REQUIRED ON: Urgent
at Bharati Vidyapeeth College of Pharmacy,
Kolhapur - 416 013.
Goods to dispatched through: ...DOOR DELIVERY

Dear Sir,

With reference to your quotation No.: TEPL/MFIC/INR/00192/01092021, dated: 13/09/2021 and subsequent discussions / correspondence with us, the undersigned is pleased to place the purchase order for the supply of the equipment as per the schedule given below and on the terms and condition mentioned overleaf.

Sr. No.	Instrument/equipment	Qty.	Total Price (Rs.)
1.	**Microfluidizer, Small Volume, Electric. 30K PSI Max Pressure.** **Make: Microfluidics International Corporation, Canada** LM20-30 **Specifications:** – Nominal flow rate up to 90 ml/min (water) depending on operating pressure, product characteristics and chamber selection 14 ml minimum sample size – 2,068 bar (30,000 psi) maximum working pressure – Electrical Power Requirement: Low voltage is considered: 208-230, 60Hz 3 PH and 190-220, 50Hz 3 PH. – High voltage is considered: 460-480V, 60Hz 3 PH and 380-415V, 50Hz 3 PH. All other electrical power configurations are not supported by the LM20. – Dimensions: (H x W x L) 23" H x 33" W x 26" L (59 x 84 x 66 cm) Options may add to dimensions – Weight: 250 lbs. (112 kg)	1	1428572.00

Received
14/9/21

	– Operating Environment: 50-80 F (10-26 C), humidity less than 80% **Standard Features:** - One (1) Diamond Interaction Chamber DIXC):F12Y(809D.00008); F20Y(809D.00001)*; G10Z(809D.00037); H210Z(809D.00024)*; H10Z(809D.00023)* and H30Z(809D.00002)* (F20Y, H210Z, H10Z and H30Z will not be able to achieve 30,000 psi).). – Digital Color Touch Screen Display with: o Pressure control and indication o Stroke counter with Maintenance Minder notification o Multiple display languages (English, Spanish, French, German, Russian, Finish, Dutch, Chinese, Japanese and Korean) – Product contact surfaces include: 316/316L stainless steel, 17-4 PH stainless steel, PEEK, UHMWPE, Zirconia Ceramic, Aluminum Oxide Ceramic, Diamond and Teflon – Feed reservoir: ONE 300 ml glass with Tuf-Flex gasket 90.10199 is standard with machine. – UHMWPE plunger seal is standard – Tool and spare parts kit – O-ring standard material is FKM – CE compliant, noise level less than or equal to 75 dBA – Single acting, hydraulically driven intensifier pump – Emergency Stop switch – Electro-hydraulic power unit, air cooled		
2.	**90.10587** – Cooling coil (10 feet long) in open type cooling tray for immersion of interaction chamber and product cooling coil. – Allows continuous flow back to feed reservoir	1	
3.	Suitable Voltage Stabilizer for three phase with std one year warranty	1	
	Total Price in INR (Including Fright Charges)		1428572.00
	Add GST @5% against submission of Concessional certificate		71428.00
	TOTAL F.O.R Kolhapur price in INR (In words: Rs. Fifteen Lakh only)		**1500000.00***

*** Including Fright Charges & GST @5% against submission of Concessional certificate**

TERMS & CONDITIONS

Prices	:	F.O.R. Kolhapur. Prices mentioned in this Purchase order are firm.
Delivery	:	06 to 08 Weeks from the date of confirmed Purchase Order
Warranty	:	The equipment shall be under warranty for 36 months (03 years) from the date of installation, wear and tear parts not covered under warranty.
Inspection	:	The goods/equipments delivered shall be subjected to inspection and on approval of the same by the undersigned or his representative, shall be accepted. The supplier should be arranged to take the delivery of the rejected goods / equipments, for the immediate replacement at this cost.
Payment	:	100% after installation. Payment shall be made on receipt of the goods/equipments at our college in good condition and the balance payment shall be arranged within reasonable period, after acceptance of the goods/equipments.
Installation & Training	:	Installation and training of an equipment shall be done in the institute
Forced major Circumstances	:	Forced major circumstances shall not apply to this contract.
Bills	:	Bills should be produced in triplicate.

Principal
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur – 416 013

I hereby accept the order against above mentioned **Terms and Conditions**.

Name of the firm – **TRIDENT EQUIPMENTS PVT LTD., Mumbai** Sign- .....

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR
Comparative report of equipments to be purchased for the year 2021-22

Name of Equipment	Name of agency with equipment specifications		
	Anatek Services, Pvt.Ltd., Mumbai	**Spincotech Systems LLP, Chennai**	**Suntek Services, Mumbai**
QUATERNARY HPLC SYSTEM **Make: JASCO** • 7002-J014APU-4180-LPG RHPLC Quaternary Pump • 7054-J002AMD-4015 Diode-array Detector • 7008-H071AINU-7725i Manual Injector Unit • 7058-J011ABS-4000-1 Bottle stand • 7059-J012AChromNAV Ver.2 Chromatography Data System including LC-NetII/ADC, LC-Net AG cable (1m) and LAN cable • Maintenance toolskit & Tubing kit • Column C18-5µ	Rs. 2800000.00	Rs. 1975000.00	Rs. 3200000.00
Subtotal	**Rs. 2800000.00**	Rs. 1975000.00	Rs. 3200000.00
-Discount 35%	Rs. 980000.00	Nil	Rs. 1120000.00
Total(In words: Rs. Eighteen Lakh Twenty Thousand only)	**Rs. 1820000.00**	Rs. 1975000.00	Rs. 2080000.00

***GSTextra as applicable at time of supply.**

Note: After negotiations and further discussion, **Anatek Services, Pvt. Ltd., Mumbai** has agreed to supply above equipment at lowest rate. Hence, the purchase of above equipment from **Anatek Services, Pvt. Ltd., Mumbai** firm is recommended.

Dhavale
Mr. R. P. Dhavale
Store In-charge

Dr. M. S. Bhatia
Vice Principal

Dr. H. N. More
Principal & In Charge
Purchase Committee

Dr. H. M. Kadam
Regional Director
Bharati Vidyapeeth, Pune

Founder :
DR. PATANGRAO KADAM
M.A., LL.B., PhD.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY
NEAR CHITRANAGARI, KOLHAPUR - 416013
Phone No. (0231) 2637286, 2638833

To,
ANATEK SERVICES PVT. LTD.,
8, Valmiki Apt.,
CST Road, Kalina, Santacruz (East),
Mumbai – 400 098, Maharashtra
Email:- sunil@anatekservices.com
Mob No.: 9867026503

PURCHASE ORDER NO.
BV / CPK / 219 /2021 - 2022
Date: 14 / 09 /2021

DELIVERY REQUIRED ON: Urgent
at Bharati Vidyapeeth College of Pharmacy,
Kolhapur - 416 013.
Goods to dispatched through: ...DOOR DELIVERY

Dear Sir,

With reference to your quotation No.: JAS/2122/KOL/104R, dated: 07/09/2021 and subsequent discussions / correspondence with us, the undersigned is pleased to place the purchase order for the supply of the equipment as per the schedule given below and on the terms and condition mentioned overleaf.

Sr. No.	Instrument/equipment	Qty.	Total Price (Rs.)
	QUATERNARY HPLC SYSTEM **Make: JASCO Model: HPLC-4000 Series**		
1.	7002-J014A **PU-4180-LPG RHPLC Quaternary Pump** Displacement Volume : 40 µL Flow rate range : 0.001 ~ 10.0 mL/min Applicable flow rate range: 0.5 ~ 6.0 mL/min (70 MPa), ~ 10.0 mL/min (~ 35 MPa) Maximum pressure : 70 MPa (~ 6.0 mL/min) 35 MPa (~ 10.0 mL/min) Flow Rate Accuracy : ± 1% or ± 2 µL/min, whichever is larger. (0.5 ~ 10.0 mL/min) Flow rate precision : 0.05% RSD or ± 0.04 min SD, whichever is larger. (0.5 ~ 5.0 mL/min) Measurement by chromatogram pH Range (recommended): 1.0-12.5 Materials : SUS, ceramic, ruby, sapphire, fluorocarbon polymer, and PEEK Plunger cleaning : Standard. Degasser : Built in Number of Line : 4+1(Standard 4ch, Option: +1ch) Solvent hold-up volume : Approx. 0.4 mL	1	2800000.00

Received
14/9/21

	Safety mechanism : Leak sensor etc Dimension and weight : 300(W)x470(D)x150(H) mm, 13 kg Power Input Voltage : AC 100 ~ 240 V, 50/60 Hz, 80 VA		
2.	**7054-J002A** **MD-4015 Diode-array Detector** Light source : D2 lamp, Wavelength range : 190 - 600 nm PDA elements : 512ch Slit Width : 4nm fixed Wavelength Accuracy : ±1nm Noise : ±3.0mAU Drift : < 0.5mAU/h Linearity : 2.0AU or more Standard Flow Cell : Standard Flow Cell Optional Flow Cell : Semi-micro cell, Prep cell, Inert cell, HP cell Communication : USB2.0 Validation Support Functions : Lamp operation time, Lamp Energy monitoring WL Calib using Hg cell Flow Cell Type : Front loading cassette Cell Lamp Replacement : Front access Lamp Life Time : 2000 hours (D2 lamp) Dimensions, Weight : 300(W)×470(D)× 150(H)mm, 13.5 kg Required Power : AC100 to 240 V, 120 VA 50/60Hz	1	
3.	7008-H071A- **INU-7725i Manual Injector Unit**	1	
4.	7058-J011A- **BS-4000-1 Bottle stand**	1	
5.	Main & Tools kit **Maintenance Kit & Tubing kit includes below** a) Maintenance tool kit b) Stainless tube 1/16", 0.25mm ID x 10m c) Single ferrule , short, 1/16", 10pcs./set d) Compression screw (short) 1/16", 10 pcs./set e) One-piece connector, PEEK, 10 pcs./set	1	
6.	Column C18-5µ	1	
7.	7059-J012A **ChromNAV Ver.2 Chromatography Data System including LC-Net II/ADC, LC-Net AG cable(1m) and LAN cable**	1	
		Total Price in Rupees	2800000.00
		Special DISCOUNT -	1200000.00
		Total Price (In words: Rs. Sixteen Lakh only)	**1600000.00**

GST 18% Extra or at actual

TERMS & CONDITIONS

Prices	:	Prices mentioned in this Purchase order are firm.
Note	:	Electrobot Gaming Tower PC - Intel 10th Gen i7 10700F, RTX 2060 6GB, 16GB RAM, 1TB HDD, 240GB SSD with 4 ARGB Cooling Fans (Intel 10700F).....**Free Supply** C- 18 & C-8 ,10micron Column 1 Each .....**Free Supply** Chromatography S/W Upgradation f2 old JASCO HPLC systems...**Free of cost.** Delivery Installation .....**Free of cost** Injection Syringes ...2 Nos...**Free of cost**
Delivery	:	4 to 5 weeks after receipt of Purchase Order & Advance Payment
Warranty	:	3 Years (Except consumables parts). The equipment shall be under warranty for 18 months from the date of installation.
Inspection	:	The goods/equipments delivered shall be subjected to inspection and on approval of the same by the undersigned or his representative, shall be accepted. The supplier should be arranged to take the delivery of the rejected goods / equipments, for the immediate replacement at this cost.
Payment	:	100 % after installation. Payment shall be made on receipt of the goods/equipments at our college in good condition and the balance payment shall be arranged within reasonable period, after acceptance of the goods/equipments.
Installation & Training	:	Installation and training of an equipment shall be done in the institute
Forced major Circumstances	:	Forced major circumstances shall not apply to this contract.
Bills	:	Bills should be produced in triplicate.

Principal
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur – 416 013

I hereby accept the order against above mentioned **Terms and Conditions**.

Name of the firm – **ANATEK SERVICES PVT. LTD., Mumbai** Sign- .....

BHARATI VIDYAPEETH COLLEGE OF PHARMACY, KOLHAPUR

Comparative report of M. Pharm equipment to be purchased for the year 2020-21

Sr. No.	Name of Equipment	Name of agency with equipment specifications		
		Catalyst Systems, Pune	**Sabar Scientific, Gujarat**	**Balaji Microwave Services, Pune**
1.	**Scientific Microwave Synthesizer** MODEL: CATA - 4R, Cavity – 34 litre, Reaction – 10 ml to 175ml (Can be extended up to 350ml for CATA - 4R) Stirrer – Four Magnetic stirrers with controller Voltage stabilizer 12 amp	Rs. 171000.00	Rs. 225000.00	Rs. 250000.00
	Total	**Rs. 171000.00**	Rs. 225000.00	Rs. 250000.00

***GST extra as applicable at time of supply.**

Note: After negotiations and further discussion, **Catalyst systems, Pune** has agreed to supply above all equipments at lowest rate.

Hence, the purchase of above all equipments from **Catalyst systems, Pune** firm is recommended.

Dhavale

Mr. R. P. Dhavale
Store In-charge

Dr. H. N. More
Principal & In Charge
Purchase Committee

Dr. H. M. Kadam
Regional Director
Bharati Vidyapeeth, Pune

: Founder :
DR. PATANGRAO KADAM
M.A., LL.B., PhD.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY
NEAR CHITRANAGARI, KOLHAPUR - 416013
Phone No. (0231) 2637286, 2638833

To,
Catalyst Systems,
7, Shrisai Appt, Taware colony,
Aranyeshwar Road, Behind SVC Bank,
Pune – 411 009, Maharashtra
Email:- catalystengineers@gmail.com
Mob No.: 09370104679

PURCHASE ORDER NO.
BV / CPK / 847 /2019 - 2020
Date: 17/ 03 /2020

DELIVERY REQUIRED ON: Urgent
at Bharati Vidyapeeth College of Pharmacy,
Kolhapur - 416 013.
Goods to dispatched through: …DOOR DELIVERY

Dear Sir,

With reference to your revised quotation No.: 2450/01 Micro B, dated: 18/01/2020 and subsequent discussions / correspondence with us, the undersigned is pleased to place the purchase order for the supply of the chemicals as per the scheduled given below and on the terms and condition mentioned on overleaf.

M. Pharm

Sr. No.	Instrument/equipment	Qty.	Total Price (Rs.)
1.	**Scientific Microwave Synthesizer** MODEL: CATA - 4R, Cavity – 34 litre, Reaction – 10 ml to 175ml (Can be extended up to 350ml for CATA - 4R) Stirrer – Four Magnetic stirrers with controller Voltage stabilizer 12 amp	1	171000.00
	Total (In words: One Lakh Seventy One Thousand only)		**171000.00**

GST as applicable at the time of supply

TERMS & CONDITIONS

Prices : Prices mentioned in this Purchase order are firm.

Warranty : The equipment shall be under warranty for 18 months from the date of installation. Warranty does not cover damages by misuse; natural or manmade calamities. Warranty is invalid in case the equipment is services by unauthorized person.

Guarantee : The goods/equipments shall be guaranteed for a period of 12 months from the date of commissioning or 18 months from the date of dispatch whichever is later. Any defect noticed during the guarantee period due to bad workmanship, defective design, defective material shall be rectified free to cost by you.

Inspection : The goods/equipments delivered shall be subjected to inspection and on approval of the same by the undersigned or his representative, shall be accepted. The supplier should be arrange to take the delivery of the rejected goods / equipments, for the immediate replacement at this cost.

Payment : 100 % after installation. Payment shall be made on receipt of the goods/equipments at our college in good condition and the balance payment shall be arranged within reasonable period, after acceptance of the goods/equipments.

Forced major Circumstances: Forced major circumstances shall not apply to this contract.

Bills : Bills should be produced in triplicate.

Principal
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur – 416 013

I hereby accept the order against above mentioned Terms and Conditions.

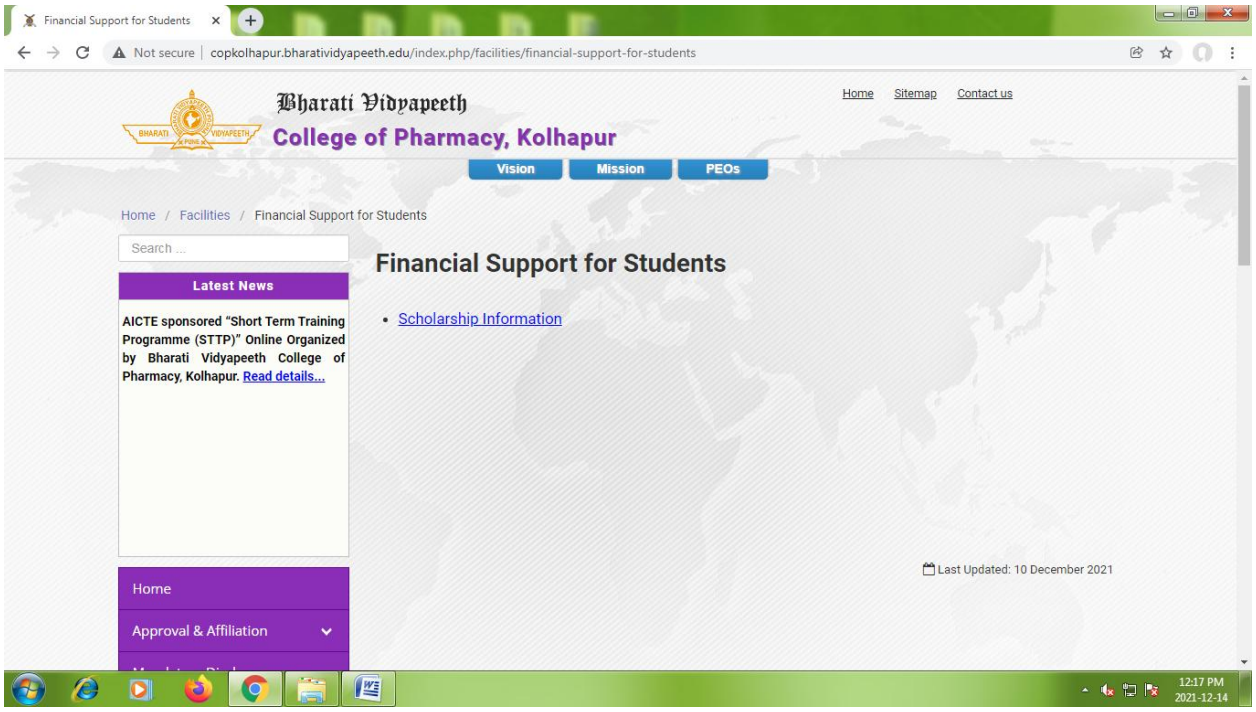
Name of the firm – **Catalyst Systems, Pune** Sign- .....

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

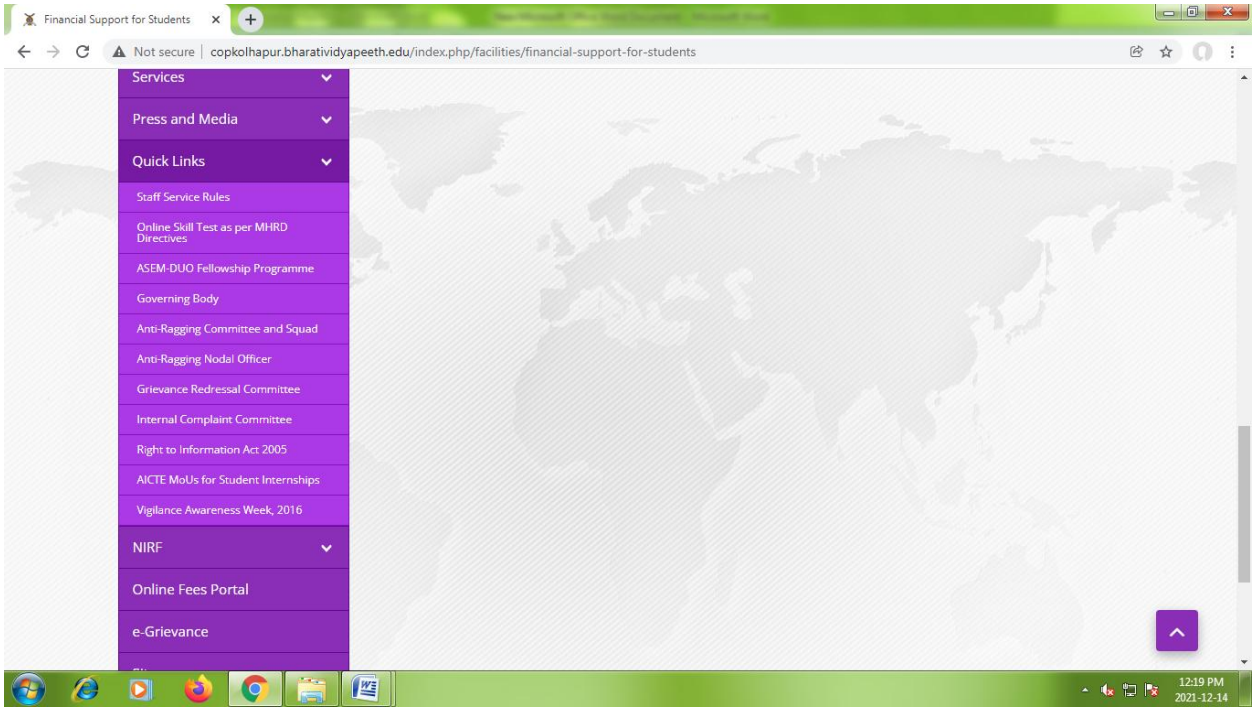
BHARATI VIDYAPEETH Annexure -XV
COLLEGE OF PHARMACY, KOLHAPUR

Website : copkolhapur@bharatividyapeeth.edu

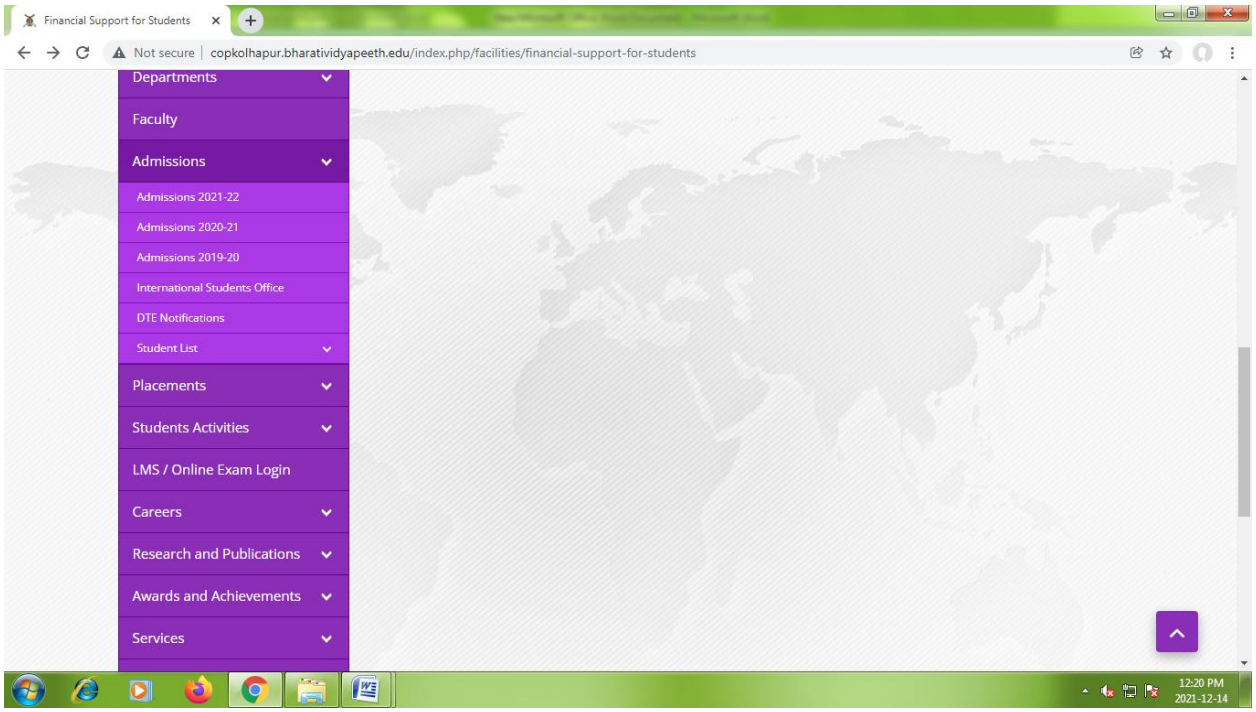
Scholarship Information



Service Rules & Committees



Admissions



PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH **Annexure -XVI**
COLLEGE OF PHARMACY, KOLHAPUR

Additional Classes for First Year B. Pharm Students

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

Date: 01/01/2022

NOTICE

All faculty members teaching to First Year B. Pharm. (AY 2021-22) are hereby informed that due to ongoing Covid19 pandemic, admissions to First Year B. Pharm. class are delayed. In order to manage the academic activities and to complete the curriculum in time you are hereby informed to complete the syllabus by conducting extra lectures on all national holidays including Saturdays and Sundays.

In addition, in order to enhance the soft skills of these students you are informed to conduct sessions using power point presentations, teach professional etiquettes, demonstrate MS Office, arrange group discussions and problem solving sessions and make aware students about some pharmacy related online free software, etc.

All concerned should take note of this and execute activities accordingly.

Dr. A. A. Hajare

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

Circulated to:

1. Dr. A. J. Shinde
2. Mr. R. J. Jarag
3. Mr. D. V. Mahuli
4. Ms. A. S. Jadhav
5. Dr. D. A. Bhagwat
5. Mr. R. R. Chavan
6. Mrs. R. R. Jarag
7. Ms. P. S. Yadav
8. Ms. S. A. Thorat
9. Ms. M. S. Kamble
10. Mr. S. A. Chougule

EXTRA TIME TABLE (FIRST HALF)
FIRST (SEM-I) and SECOND (SEM-III, LATERAL ENTRY) YEAR B. PHARM.
ACADEMIC YEAR 2021- 2022

(With effect from 04/01/2022)

DAY/Division	9.00 am 10.00 am	10.00 am 11.00 am	11.00 am - 12.00 pm	12.00 pm- 1.00 pm	1.00 – 2.00 pm	2.00 pm – 3.00 pm	3.00 pm – 4.00 pm	4.00 pm – 5.00 pm	5.00 pm – 6.00 pm
SATURDAY (Division 1)	Batch [A] Pharmaceutics (AJS) Batch [C] PIC (RRJ) Batch [B] PA (RRC)			CS [MSK]	RECESS	PIC [RRJ]	PA-I [RRC]	P'ceut-I [AJS]	HAP-I [ASJ]
SATURDAY (Division 2)	P'ceut-I [DAB]	PIC [RRJ]	HAP-I [DVM]	PA-I [RRC]		Batch [D] Pharmaceutics (DAB) Batch [E] PIC (SAT)			CS [MSK]
SUNDAY (Division 1)	Batch [B] Pharmaceutics (AAH) Batch [C] PA (RRC) Batch [A] PIC (RRJ)			CS [MSK]		P'ceut-I [DAB]	HAP-I [ASJ]	PIC [RRJ]	PA-I [PSY]
SUNDAY (Division 2)	HAP-I [DVM]	PA [PSY]	P'ceut-I [SAC]	PIC [SAT]		Batch [E] Pharmaceutics (AAH) Batch [D] PIC (SAT)			CS [MSK]
HOLIDAY (Division 1)	Batch [C] Pharmaceutics (AJS) Batch [A] PA (RRC) Batch [B] PIC (RRJ)			Batch [A/B/C] CS [MSK]		PIC [SAT]	PA-I [RRC]	P'ceut-I [AJS]	HAP-I [ASJ]
HOLIDAY (Division 2)	HAP-I [ASJ]	PA [PSY]	P'ceut-I [AJS]	PIC [SAT]		Batch [D] PA (PSY) Batch [E] HAP (RRJ)			Batch [D/E] CS [MSK]

NOTE:

- All theory and Practical classes will be conducted through online/offline mode on Microsoft Teams App as per Government policy for Covid19 Pandemic.
- Extra practical of HAP Batches A/B/C of Division 1 and Batch [D] of Division 2 will be conducted during regular classes in free time. Concerned faculty members are informed to communicate students in advance regarding the same.
- Second Year B. Pharm. (Lateral entry) student's Communication Skill academic activities will be conducted with First Year B. Pharm. (Division 1).

Dr. A. A. Hajare
Academic Incharge

Dr. H. N. More

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

Date: 10/02/2021

NOTICE

All faculty members teaching to First Year B. Pharm. (AY 2020-21) are hereby informed that due to current Covid19 pandemic admissions to First Year B. Pharm. class are delayed. In order to complete the curriculum in time you are informed to complete the syllabus by conducting extra lectures, daily, during zero hours on all working days from 15/02/2021.

In addition, in order to enhance the soft skills of these students you are informed to conduct power point presentations, professional etiquettes, demonstrations like MS Office, group discussions, problem solving, some pharmacy related online free software, etc. Such resources for soft skill development are made available in language laboratory and library.

All concerned should take note of this and execute activities accordingly.

DR. A. A. Hajare
ACADEMIC INCHARGE
Academic Incharge
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur.

DR. H. N. MORE
PRINCIPAL
Principal
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

TIME TABLE FOR FIRST YEAR B. PHARM. (SEM-I) 2020- 2021 (FIRST HALF)

(With effect from 15/02/2021)

DAY	9.00 am 10.00 am [Zero Hour]	10.00 am 11.00 am	11.00 am - 12.00 pm	12.00 noon - 1.00 pm	1.00 pm – 2.00 pm	2.00 pm - 3.00 pm	3.00 pm – 5.00 pm
MON	P'ceut-I [AJS]	PIC [RRJ]	HAP-I [RJJ]	CS [KSJ]	RECESS	PA-I (TU) [RRC]	Batch [A] Pharmaceutics (AJS) Batch [B] PIC (RRJ) Batch [C] HAP (ASJ)
TUE	PIC [RRJ]	PA-I [RRC]	P'ceut-I [AJS]	HAP-I (TU) [RJJ]		Batch [B] Pharmaceutics (AJS) Batch [A] PA (RRC) Batch [C] PIC (RRJ)	
WED	P'ceut-I [AJS]	PA-I [RRC]	HAP-I [DVM]	PIC [RRJ]		P'ceut-I [AJS]	Batch [A] PIC (DPM) Batch [B] PA (RRC) Batch [C] Pharmaceutics (DTG)
THU	PA-I [RRC]	HAP-I [ASJ]	P'ceut-I [AJS]	PIC [RRJ]		Batch [A] PIC (DPM) Batch [C] PA (ASJ) Batch [B] Pharmaceutics (AJS)	
FRI	HAP-I [ASJ]	P'ceut-I (TU) [AJS]	PIC (TU) [RRJ]	CS [KSJ]		PA-I [RRC]	Batch [A] Pharmaceutics (AJS) Batch [B] PIC (RRJ) Batch [C] PA (ASJ)
SAT	PIC (TU) [RRJ]	Batch [B&C] CS (KSJ) Batch [A] PA (RRC)					

NOTE: All theory classes will be conducted through online on Microsoft teams app and practical will be conducted physically (offline mode).

Circulated to:

1. Dr. A. J. Shinde .....
2. Mr. R. J. Jarag .....
3. Dr. F. A. Tamboli .....
4. Mr. D. V. Mahuli .....
5. Ms. A. S. Jadhav .....
5. Mr. R. R. Chavan .....
6. Mrs. R. R. Jarag .....
7. Mr. D. T. Gaikwad .....
8. Mr. K. S. Joshi .....
9. Mr. A. S. Patil .....

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

Date: 25/07/2019

NOTICE

All faculty members teaching to First Year B. Pharm. (AY 2019-20) are hereby informed that due to delay in admissions of students to First Year B. Pharm. the syllabus of all subjects need to be completed in time. In this connection all subject teachers are hereby by instructed to conduct extra lectures, daily, during zero hours on all working days as per regular time Table and also on all Saturdays as specified in Time Table attached with this notice from 01/08/2019.

All concerned should take note of this and conduct and complete curriculum on time.

Dr. A. A. Hajare
Academic Incharge

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

BHARATI VIDYAPEETH COLLEGE OF PHARMACY, KOLHAPUR

EXTRA TIME TABLE FOR ACADEMIC YEAR 2019- 2020 (FIRST HALF)

CLASS: FIRST (SEM-I) and SECOND (SEM-III Laterally Admitted Students)

(w. e. f. 01/08/2019)

Date	Sem.	09 – 10 am	10 – 11 am	11 – 12 am	12 – 01 pm
24/08/2019	I	HAP-I [RJJ]	P'ceut-I [AJS]	PIC [RRJ]	PA-I [SAP]
14/09/2019	I	PIC [RRJ]	HAP-I [RJJ]	PA-I [SDJ]	P'ceut-I [AJS]
28/09/2019	I	PA-I [SRN]	P'ceut-I [AJS]	P'ceut-I [AJS]	PIC [RRJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
12/10/2019	I	P'ceut-I [AJS]	PA-I [SRN]	PIC [RRJ]	HAP-I [RJJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
24/08/2019	I	PIC [RRJ]	HAP-I [RJJ]	PA-I [SRN]	P'ceut-I [AJS]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
07/09/2019	I	HAP-I [RJJ]	PIC [RRJ]	P'ceut-I [AJS]	PA-I [SAP]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
14/09/2019	I	PA-I [SRN]	P'ceut-I [AJS]	PIC [RRJ]	HAP-I [RJJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
21/09/2019	I	PIC [RRJ]	PA-I [SRN]	HAP-I [RJJ]	P'ceut-I [AJS]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
28/09/2019	I	P'ceut-I [AJS]	PIC [RRJ]	PA-I [SRN]	HAP-I [RJJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	

Dr. A. A. Hajare
Academic Incharge

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

Circulated to:

1. Dr. A. J. Shinde .....
2. Mr. R. J. Jarag .....
3. Dr. S. A. Pishawikar .....
4. Mr. D. V. Mahuli .....
5. Ms. A. S. Jadhav .....
6. Ms. S. R. Nirankari .....
7. Mrs. R. R. Jarag .....
8. Mrs. Arti Topale .....

BHARATI VIDYAPEETH COLLEGE OF PHARMACY KOLHAPUR

Date: 25/10/2018

NOTICE

All faculty members teaching to First Year B. Pharm. (AY 2018-19) are hereby informed that due to delay in admissions of students to First Year B. Pharm. the syllabus of all subjects need to be completed in time. In order to complete the syllabus all concerned subject teachers are hereby by instructed to conduct extra lectures, daily, during zero hours on all working days and also on all Saturdays from 31/10/2018. All concerned should take note of this and conduct and complete curriculum on time.

Dr. A. A. Hajare
Academic Incharge

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

BHARATI VIDYAPEETH COLLEGE OF PHARMACY, KOLHAPUR

EXTRA TIME TABLE FOR ACADEMIC YEAR 2018- 2019 (FIRST HALF)

CLASS: FIRST (SEM-I) and SECOND (SEM-III Laterally Admitted Students

(w. e. f. 31/10/2018)

Date	Sem.	09 – 10 am	10 – 11 am	11 – 12 am	12 – 01 pm
31/10/2018	I	HAP-I [RJJ]	P'ceut-I [AJS]	PIC [RRJ]	PA-I [SDJ]
1/11/2018	I	PIC [RRJ]	HAP-I [RJJ]	PA-I [SDJ]	P'ceut-I [AJS]
2/11/2018	I	PA-I [SDJ]	P'ceut-I [AJS]	P'ceut-I [AJS]	PIC [RRJ]
12/11/2018	I	P'ceut-I [AJS]	PA-I [SDJ]	PIC [RRJ]	HAP-I [RJJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
13/11/2018	I	PIC [RRJ]	HAP-I [RJJ]	PA-I [SDJ]	P'ceut-I [AJS]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
14/11/2018	I	HAP-I [RJJ]	PIC [RRJ]	P'ceut-I [AJS]	PA-I [SDJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
15/11/2018	I	PA-I [SDJ]	P'ceut-I [AJS]	PIC [RRJ]	HAP-I [RJJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
16/11/2018	I	PIC [RRJ]	PA-I [SDJ]	HAP-I [RJJ]	P'ceut-I [AJS]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	
17/11/2018	I	P'ceut-I [AJS]	PIC [RRJ]	PA-I [SDJ]	HAP-I [RJJ]
	III	CS [AT]	CS [AT]	CS [AT] [PRACT]	

Dr. A. A. Hajare
Academic Incharge

Dr. H. N. More
PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur

Circulated to:

1. Dr. A. J. Shinde .....
2. Mr. R. J. Jarag .....
3. Dr. S. A. Pishawikar .....
4. Mr. D. V. Mahuli .....
5. Ms. S. D. Jadhav .....
6. Ms. A. S. Jadhav .....
7. Mrs. R. R. Jarag .....
8. Mrs. Arti Topale .....
9. Dr. S. B. Ghorpade .....
10. Mr. A. S. Patil .....

BHARATI VIDYAPEETH COLLEGE OF PHARMACY, KOLHAPUR

Comparative report of M. Pharm equipment to be purchased for the year 2020-21

Sr. No.	Name of Equipment	Name of agency with equipment specifications		
		Catalyst Systems, Pune	Sabar Scientific, Gujarat	Balaji Microwave Services, Pune
1.	**Scientific Microwave Synthesizer** MODEL: CATA - 4R, Cavity – 34 litre, Reaction – 10 ml to 175ml (Can be extended up to 350ml for CATA - 4R) Stirrer – Four Magnetic stirrers with controller Voltage stabilizer 12 amp	Rs. 171000.00	Rs. 225000.00	Rs. 250000.00
	Total	**Rs. 171000.00**	Rs. 225000.00	Rs. 250000.00

***GST extra as applicable at time of supply.**

Note: After negotiations and further discussion, **Catalyst systems, Pune** has agreed to supply above all equipments at lowest rate.

Hence, the purchase of above all equipments from **Catalyst systems, Pune** firm is recommended.

Dhavale

Mr. R. P. Dhavale
Store In-charge

Dr. H. N. More
Principal & In Charge
Purchase Committee

Dr. H. M. Kadam
Regional Director
Bharati Vidyapeeth, Pune

: Founder :
DR. PATANGRAO KADAM
M.A., LL.B., PhD.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY
NEAR CHITRANAGARI, KOLHAPUR - 416013
Phone No. (0231) 2637286, 2638833

To,
Catalyst Systems,
7, Shrisai Appt, Taware colony,
Aranyeshwar Road, Behind SVC Bank,
Pune – 411 009, Maharashtra
Email:- catalystengineers@gmail.com
Mob No.: 09370104679

PURCHASE ORDER NO.
BV / CPK / 847 /2019 - 2020
Date: 17/ 03 /2020

DELIVERY REQUIRED ON: Urgent
at Bharati Vidyapeeth College of Pharmacy,
Kolhapur - 416 013.
Goods to dispatched through: …DOOR DELIVERY

Dear Sir,

With reference to your revised quotation No.: 2450/01 Micro B, dated: 18/01/2020 and subsequent discussions / correspondence with us, the undersigned is pleased to place the purchase order for the supply of the chemicals as per the scheduled given below and on the terms and condition mentioned on overleaf.

M. Pharm

Sr. No.	Instrument/equipment	Qty.	Total Price (Rs.)
1.	**Scientific Microwave Synthesizer** MODEL: CATA - 4R, Cavity – 34 litre, Reaction – 10 ml to 175ml (Can be extended up to 350ml for CATA - 4R) Stirrer – Four Magnetic stirrers with controller Voltage stabilizer 12 amp	1	171000.00
	Total (In words: One Lakh Seventy One Thousand only)		**171000.00**

GST as applicable at the time of supply

TERMS & CONDITIONS

Prices : Prices mentioned in this Purchase order are firm.

Warranty : The equipment shall be under warranty for 18 months from the date of installation. Warranty does not cover damages by misuse; natural or manmade calamities. Warranty is invalid in case the equipment is services by unauthorized person.

Guarantee : The goods/equipments shall be guaranteed for a period of 12 months from the date of commissioning or 18 months from the date of dispatch whichever is later. Any defect noticed during the guarantee period due to bad workmanship, defective design, defective material shall be rectified free to cost by you.

Inspection : The goods/equipments delivered shall be subjected to inspection and on approval of the same by the undersigned or his representative, shall be accepted. The supplier should be arrange to take the delivery of the rejected goods / equipments, for the immediate replacement at this cost.

Payment : 100 % after installation. Payment shall be made on receipt of the goods/equipments at our college in good condition and the balance payment shall be arranged within reasonable period, after acceptance of the goods/equipments.

Forced major Circumstances: Forced major circumstances shall not apply to this contract.

Bills : Bills should be produced in triplicate.

Principal
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur – 416 013

I hereby accept the order against above mentioned Terms and Conditions.

Name of the firm – **Catalyst Systems, Pune** Sign- .....

Catalyst SYSTEMS

7, Shri Sai Appt, Taware Colony, Aranyeshwar Road, Behind SVC Bank, Pune 411 009
M: 09370104679 Email: catalystengineers@gmail.com

GST INVOICE

To,
The Principal,
Bharathi Vidyapeeth College of Pharmacy,
Morewadi Karveer,
Kolhapur – 416 002

INVOICE No: 04 / 20 - 21 Date:- 19/Jan/2021
Your Order No:- BV / CPK / 292 / 2020 - 21
Date:- 13/Jan/21
Challan No.:- 03 / 20 - 21 Date:- 19/Jan/2021

Sr.No.	Description	Qty.Nos.	Rate	Amount
1	**Scientific Microwave Synthesizer** **MODEL: CATA - 4 R** **Cavity –** 34 liter **Power –** Output- 850 W (2450 MHz) **Magnetron–** Magnetron protected from reflected microwave energy. **Panel –** Set all operational parameters through one panel. **Stages –** 85watt to 850watt **Stirrer –** FOUR Magnetic stirrers with controller **Temperature –** With flexible probe up to 450°C **Timer –** 99.59 minutes timer **Top –** C R C Top & Sides **Choke –** B24 microwave leakage proof inlet at the top **Reaction Size –** 10 ml to 175 ml **HSN Code: 8514**	1	₹ 171,000.00	₹ 171,000.00

Account Name:- **Catalyst Systems**
Bank Name:- **THE FEDERAL BANK LTD**
Branch:- Tilak Road Pune.
Account No:- **15000200013343**
IFSC:- **FDRL0001500**

Amount Of Tax Subject to Reverse Charge :- Yes ☐ No ☑

Company's GSTIN :- **27AGIPP6981D1Z0** w.e.f. 1 / 7 / 17
Subject to Pune Jurisdiction

Taxeble Value / Sub Total	₹ 171,000.00
SGST @ 9.0%	₹ 15,390.00
CGST @ 9.0%	₹ 15,390.00
IGST @ %	
Grand Total In Figure	₹ 201,780.00

In Words ₹ Two Lakh One Thousand Seven Hundred Eighty Only

E. & O.E. *THANK YOU FOR YOUR BUSINESS WITH US!*

For Catalyst Systems

CATALYST SYSTEMS PUNE

Authorized Signatory

Sr. No. अनुक्रम नं.	Description of Articles वस्तुचे वर्णन	Authority of Purchase & Date of Purchase खरेदी करण्याचे अधिकार पत्र व खरेदीची तारीख	Number or Qty. संख्या किंवा परिमाण	Value किंमत Rs. रू.	Value किंमत Ps. पैसे	Initial of He कार्यालयाच्या अ
		2020-2021				
	Catalyst Systems 7, Shri Sai Appt., Taware Colony, Aranyeshwar Road, Behind SVC Bank, Pune - 411009 M.No - 09370104679 Invoice No. :→ 04/20-21 Date :→ 19/01/2021					
76.	Scientific Microwave Synthesizer Model : CATA-4R Cavity - 34 Ltr. Power - Output - 850 W Stirrer - Four magnetic stirrers controller Reaction size - 10ml to 175 ml.		01	171000=00		
				171000=00		
		+ SGST @	9.0%	15390=00		
		+ CGST @	9.0%	15390=00		
		Total Rs.		201780=00		
	[In words Rs Two Lakh One Thousand Seven Hundred Eighty only]					

STORE INCHARGE
Bharati Vidyapeeth
College of Pharmacy
Kolhapur

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR
Comparative report of equipment to be purchased for the year 2021-22

Name of Equipment	Name of agency with equipment specifications
	Trident Equipments, Pvt. Ltd., Mumbai
Microfluidizer, Small volume, Electric 30K PSI Max Pressure **Make: Microfluidics International Corporation, Canada** **Specifications**: • Nominal flow rate up to 90 ml/min (water) depending on operating pressure, • 14 ml minimum sample size, 2068 bar (30000 psi) maximum working pressure • Electric power requirement: Low voltage is considered: 208-230, 60Hz 3PH and 190-220, 50Hz 3PH, High Voltage: 460-480V, 60Hz 3PH and 380-415V, 50Hz 3PH. Dimensions: (HxWxL) 23" H x 33"W x 26"L (59 x 84 x 66 cm), Weight: 250 lbs (112kg) **Operating Environment:** 50-80F (10-26^{0}C), altitude less than 1000 meters, Humidity less than 80% **Standard Features:** One Diamond interaction chamber, Digital color touch screen display with: Pressure control and indication, Stroke counter, Multiple display language, Product contact surface: 316/316L stainless steel, Feed reservoir: ONE 300 ml glass with Tuf-Flex gasket , Emergency stop switch Electro hydraulic power unit, air cooled **Cooling coil** include stabilizer walany 3 years	Rs. 1500000.00
Subtotal (INR)	**Rs. 1500000.00**
Add: Freight charges	Rs. 15000.00
Total F.O.R. Price (INR) In words: Rs. Fifteen Lakh Fifteen Thousand Only	**Rs. 1515000.00**

***GST @ 18% or @ 5% against submission of Exemption (Concessional) certificate extra as applicable at time of supply.**

Note: Microfluidizer, it is the only product of **Microfluidics International Corporation, Canada** of whose the only dealer in India is **Trident Equipments, Pvt. Ltd., Mumbai.** So, after negotiations and further discussion, **Trident Equipments, Pvt. Ltd., Mumbai** has agreed to supply above equipment at lowest rate. Hence, the purchase of above equipment from **Trident Equipments, Pvt. Ltd., Mumbai** firm is recommended.

Dhavale
Mr. R. P. Dhavale
Store In-charge

Dr. N. R. Jadhav
HOD, Dept., Pharmaceutics

Dr. M. S. Bhatia
Vice Principal

Dr. H. N. More
Principal & In Charge
Purchase Committee

Founder :
DR. PATANGRAO KADAM
M.A., LL.B., PhD.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY
NEAR CHITRANAGARI, KOLHAPUR - 416013
Phone No. (0231) 2637286, 2638833

To,
TRIDENT EQUIPMENTS PVT LTD.,
A-105, F-409/410, Kailas Industrial Complex,
Hiranandani Godrej Link Road, Park site,
Vikhroli [W], Mumbai – 400 079, Maharashtra
Email:- info@tridentequipments.com,
samir.kane@tridentequipments.com
Tel: +91 22 2518 1705/04/06
Mob No.: 9987045724

PURCHASE ORDER NO.
BV / CPK / 220 /2021 - 2022
Date: 14 / 09 /2021

DELIVERY REQUIRED ON: Urgent
at Bharati Vidyapeeth College of Pharmacy,
Kolhapur - 416 013.
Goods to dispatched through: ...DOOR DELIVERY

Dear Sir,

With reference to your quotation No.: TEPL/MFIC/INR/00192/01092021, dated: 13/09/2021 and subsequent discussions / correspondence with us, the undersigned is pleased to place the purchase order for the supply of the equipment as per the schedule given below and on the terms and condition mentioned overleaf.

Sr. No.	Instrument/equipment	Qty.	Total Price (Rs.)
1.	**Microfluidizer, Small Volume, Electric. 30K PSI Max Pressure.** **Make: Microfluidics International Corporation, Canada** LM20-30 **Specifications:** – Nominal flow rate up to 90 ml/min (water) depending on operating pressure, product characteristics and chamber selection 14 ml minimum sample size – 2,068 bar (30,000 psi) maximum working pressure – Electrical Power Requirement: Low voltage is considered: 208-230, 60Hz 3 PH and 190-220, 50Hz 3 PH. – High voltage is considered: 460-480V, 60Hz 3 PH and 380-415V, 50Hz 3 PH. All other electrical power configurations are not supported by the LM20. – Dimensions: (H x W x L) 23" H x 33" W x 26" L (59 x 84 x 66 cm) Options may add to dimensions – Weight: 250 lbs. (112 kg)	1	1428572.00

Received
14/9/21

	– Operating Environment: 50-80 F (10-26 C), humidity less than 80% **Standard Features:** - One (1) Diamond Interaction Chamber DIXC):F12Y(809D.00008); F20Y(809D.00001)*; G10Z(809D.00037); H210Z(809D.00024)*; H10Z(809D.00023)* and H30Z(809D.00002)* (F20Y, H210Z, H10Z and H30Z will not be able to achieve 30,000 psi).). – Digital Color Touch Screen Display with: o Pressure control and indication o Stroke counter with Maintenance Minder notification o Multiple display languages (English, Spanish, French, German, Russian, Finish, Dutch, Chinese, Japanese and Korean) – Product contact surfaces include: 316/316L stainless steel, 17-4 PH stainless steel, PEEK, UHMWPE, Zirconia Ceramic, Aluminum Oxide Ceramic, Diamond and Teflon – Feed reservoir: ONE 300 ml glass with Tuf-Flex gasket 90.10199 is standard with machine. – UHMWPE plunger seal is standard – Tool and spare parts kit – O-ring standard material is FKM – CE compliant, noise level less than or equal to 75 dBA – Single acting, hydraulically driven intensifier pump – Emergency Stop switch – Electro-hydraulic power unit, air cooled		
2.	**90.10587** – Cooling coil (10 feet long) in open type cooling tray for immersion of interaction chamber and product cooling coil. – Allows continuous flow back to feed reservoir	1	
3.	Suitable Voltage Stabilizer for three phase with std one year warranty	1	
	Total Price in INR (Including Fright Charges)		1428572.00
	Add GST @5% against submission of Concessional certificate		71428.00
	TOTAL F.O.R Kolhapur price in INR (In words: Rs. Fifteen Lakh only)		**1500000.00***

*** Including Fright Charges & GST @5% against submission of Concessional certificate**

TERMS & CONDITIONS

Prices	:	F.O.R. Kolhapur. Prices mentioned in this Purchase order are firm.
Delivery	:	06 to 08 Weeks from the date of confirmed Purchase Order
Warranty	:	The equipment shall be under warranty for 36 months (03 years) from the date of installation, wear and tear parts not covered under warranty.
Inspection	:	The goods/equipments delivered shall be subjected to inspection and on approval of the same by the undersigned or his representative, shall be accepted. The supplier should be arranged to take the delivery of the rejected goods / equipments. for the immediate replacement at this cost.
Payment	:	100% after installation. Payment shall be made on receipt of the goods/equipments at our college in good condition and the balance payment shall be arranged within reasonable period, after acceptance of the goods/equipments.
Installation & Training	:	Installation and training of an equipment shall be done in the institute
Forced major Circumstances	:	Forced major circumstances shall not apply to this contract.
Bills	:	Bills should be produced in triplicate.

Principal
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur – 416 013

I hereby accept the order against above mentioned **Terms and Conditions**.

Name of the firm – **TRIDENT EQUIPMENTS PVT LTD., Mumbai** Sign- .....

TAX INVOICE

Trident Equipments Pvt Ltd
F 409/410, Kailas Industrial Complex
Parksite, Vikhroli (W), Mumbai- 400 079
Tel : 91 22 2518 1706/ 2518 5463/ 25181704
Fax : + 91 22 25185463/ 2518 1706
GSTIN/UIN: 27AAACT9019K1Z1
State Name : Maharashtra, Code : 27
CIN: U32109MH1998PTC115978
E-Mail : info@tridentequipments.com

Invoice No. **TRI/SI/2122/1893**	Dated **11-Nov-21**
Delivery Note	Mode/Terms of Payment 50% advance payment and 50% against installation
Reference No. & Date. TRI/SI/2122/1893 dt. 11-Nov-21	Other References **1237/21-22**
Buyer's Order No. **BV/CPK/220/2021-2022**	Dated **14-Sep-21**
Dispatch Doc No.	Delivery Note Date
Dispatched through	Destination
Terms of Delivery	

Consignee (Ship to)
Bharti Vidyapeeth
The Principal,
Bharati Vidyapeeth College of Pharmacy
Near Chitranagari,
Kolhapur - 416013
Kind Attn :- Mr. R. P. Dhavale
Tel :- 9765929378
State Name : Maharashtra, Code : 27

Buyer (Bill to)
Bharti Vidyapeeth
The Principal,
Bharati Vidyapeeth College of Pharmacy
Near Chitranagari,
Kolhapur - 416013
Kind Attn :- Mr. R. P. Dhavale
Tel :- 9765929378
State Name : Maharashtra, Code : 27
Place of Supply : Maharashtra

Sl No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
1	**LM20-30 A** *Microfluidizer* *Includes :-* *90.10587 :- Cooling Coil*	84798200	5 %	**1 No**	14,28,572.00	No	**14,28,572.00**
	Output CGST						**35,714.30**
	Output SGST						**35,714.30**
	Rounded Off						**(-)0.60**
	Less :						
	Total			**1 No**			**₹ 15,00,000.00**

E. & O.E

Amount Chargeable (in words)
Rupees Fifteen Lakh Only

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
	14,28,572.00	2.50%	35,714.30	2.50%	35,714.30	71,428.60
84798200	**Total** **14,28,572.00**		**35,714.30**		**35,714.30**	**71,428.60**

Tax Amount (in words) : **Rupees Seventy One Thousand Four Hundred Twenty Eight and Sixty paise Only**

Company's PAN : **AAACT9019K**

Kamaraj Mangapatirao Voleti
Digitally signed by Kamaraj Mangapatirao Voleti
Date: 2021.11.11 10:42:05 +05'30'

for Trident Equipments Pvt Ltd

Authorised Signatory

This is a Computer Generated Invoice

FROM OF REGISTER OF DEAD STOCK OR MOVEBLE P...

Sr. No. अनुक्रम नं.	Description of Articles वस्तुचे वर्णन	Authority of Purchase & Date of Purchase खरेदी करण्याचे अधिकार पत्र व खरेदीची तारीख	Number or Qty. संख्या किंवा परिमाण	Value किंमत Rs. रू.	Value किंमत Ps. पैसे	Initial of Head...
		2021-2022				
	Trident Equipments Pvt. Ltd. A-105, F-409/410, Kailas Industrial Complex, Hiranandani Godrej Link Road, Park site, Vikhroli [W], Mumbai-400079, Tax Invoice No.: TRI/SI/2122/1893 Date : 11/11/2021					
1102	Microfluidizer, small volume, Electric, 30K PSI Max pressure	1		1428572=00		
	Make: Microfluidics International Corporation, Canada.					
	Mode: LM20-30					
	- Cooling coil		1			
	- Voltage stabilizer		1			
				1428572=00		
		+ CGST	2.5%	35714=30		
		+ SGST	2.5%	35714=30		
		-		0=60		
		Total amount	Rs.	1500000=00		
	[In words: Rs Fifteen Lakh only]					

STORE INCHARGE
Bharati Vidyapeeth
College of Pharmacy
Kolhapur

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR
Comparative report of equipments to be purchased for the year 2021-22

Name of Equipment	Name of agency with equipment specifications		
	Anatek Services, Pvt.Ltd., Mumbai	**Spincotech Systems LLP, Chennai**	**Suntek Services, Mumbai**
QUATERNARY HPLC SYSTEM **Make: JASCO** • 7002-J014APU-4180-LPG RHPLC Quaternary Pump • 7054-J002AMD-4015 Diode-array Detector • 7008-H071AINU-7725i Manual Injector Unit • 7058-J011ABS-4000-1 Bottle stand • 7059-J012AChromNAV Ver.2 Chromatography Data System including LC-NetII/ADC, LC-Net AG cable (1m) and LAN cable • Maintenance toolskit & Tubing kit • Column C18-5µ	Rs. 2800000.00	Rs. 1975000.00	Rs. 3200000.00
Subtotal	**Rs. 2800000.00**	Rs. 1975000.00	Rs. 3200000.00
-Discount 35%	Rs. 980000.00	Nil	Rs. 1120000.00
Total(In words: Rs. Eighteen Lakh Twenty Thousand only)	**Rs. 1820000.00**	Rs. 1975000.00	Rs. 2080000.00

***GSTextra as applicable at time of supply.**

Note: After negotiations and further discussion, **Anatek Services, Pvt. Ltd., Mumbai** has agreed to supply above equipment at lowest rate. Hence, the purchase of above equipment from **Anatek Services, Pvt. Ltd., Mumbai** firm is recommended.

Dhavale
Mr. R. P. Dhavale
Store In-charge

Dr. M. S. Bhatia
Vice Principal

Dr. H. N. More
Principal & In Charge
Purchase Committee

Dr. H. M. Kadam
Regional Director
Bharati Vidyapeeth, Pune

Founder :
DR. PATANGRAO KADAM
M.A., LL.B., PhD.

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY
NEAR CHITRANAGARI, KOLHAPUR - 416013
Phone No. (0231) 2637286, 2638833

To,
ANATEK SERVICES PVT. LTD.,
8, Valmiki Apt.,
CST Road, Kalina, Santacruz (East),
Mumbai – 400 098, Maharashtra
Email:- sunil@anatekservices.com
Mob No.: 9867026503

PURCHASE ORDER NO.
BV / CPK / 219 /2021 - 2022
Date: 14 / 09 /2021

DELIVERY REQUIRED ON: Urgent
at Bharati Vidyapeeth College of Pharmacy,
Kolhapur - 416 013.
Goods to dispatched through: ...DOOR DELIVERY

Dear Sir,

With reference to your quotation No.: JAS/2122/KOL/104R, dated: 07/09/2021 and subsequent discussions / correspondence with us, the undersigned is pleased to place the purchase order for the supply of the equipment as per the schedule given below and on the terms and condition mentioned overleaf.

Sr. No.	Instrument/equipment	Qty.	Total Price (Rs.)
	QUATERNARY HPLC SYSTEM **Make: JASCO Model: HPLC-4000 Series**		
1.	7002-J014A **PU-4180-LPG RHPLC Quaternary Pump** Displacement Volume : 40 µL Flow rate range : 0.001 ~ 10.0 mL/min Applicable flow rate range: 0.5 ~ 6.0 mL/min (70 MPa), ~ 10.0 mL/min (~ 35 MPa) Maximum pressure : 70 MPa (~ 6.0 mL/min) 35 MPa (~ 10.0 mL/min) Flow Rate Accuracy : ± 1% or ± 2 µL/min, whichever is larger. (0.5 ~ 10.0 mL/min) Flow rate precision : 0.05% RSD or ± 0.04 min SD, whichever is larger. (0.5 ~ 5.0 mL/min) Measurement by chromatogram pH Range (recommended): 1.0-12.5 Materials : SUS, ceramic, ruby, sapphire, fluorocarbon polymer, and PEEK Plunger cleaning : Standard. Degasser : Built in Number of Line : 4+1(Standard 4ch, Option: +1ch) Solvent hold-up volume : Approx. 0.4 mL	1	2800000.00

Received
Suraik
14/9/21

	Safety mechanism : Leak sensor etc Dimension and weight : 300(W)x470(D)x150(H) mm, 13 kg Power Input Voltage : AC 100 ~ 240 V, 50/60 Hz, 80 VA		
2.	**7054-J002A** **MD-4015 Diode-array Detector** Light source : D2 lamp, Wavelength range : 190 - 600 nm PDA elements : 512ch Slit Width : 4nm fixed Wavelength Accuracy : ±1nm Noise : ±3.0mAU Drift : < 0.5mAU/h Linearity : 2.0AU or more Standard Flow Cell : Standard Flow Cell Optional Flow Cell : Semi-micro cell, Prep cell, Inert cell, HP cell Communication : USB2.0 Validation Support Functions : Lamp operation time, Lamp Energy monitoring WL Calib using Hg cell Flow Cell Type : Front loading cassette Cell Lamp Replacement : Front access Lamp Life Time : 2000 hours (D2 lamp) Dimensions, Weight : 300(W)×470(D)× 150(H)mm, 13.5 kg Required Power : AC100 to 240 V, 120 VA 50/60Hz	1	
3.	7008-H071A- **INU-7725i Manual Injector Unit**	1	
4.	7058-J011A- **BS-4000-1 Bottle stand**	1	
5.	Main & Tools kit **Maintenance Kit & Tubing kit includes below** a) Maintenance tool kit b) Stainless tube 1/16", 0.25mm ID x 10m c) Single ferrule , short, 1/16", 10pcs./set d) Compression screw (short) 1/16", 10 pcs./set e) One-piece connector, PEEK, 10 pcs./set	1	
6.	Column C18-5µ	1	
7.	7059-J012A **ChromNAV Ver.2 Chromatography Data System including LC-Net II/ADC, LC-Net AG cable(1m) and LAN cable**	1	
		Total Price in Rupees	2800000.00
		Special DISCOUNT -	1200000.00
		Total Price (In words: Rs. Sixteen Lakh only)	**1600000.00**

GST 18% Extra or at actual

TERMS & CONDITIONS

Prices	:	Prices mentioned in this Purchase order are firm.
Note	:	Electrobot Gaming Tower PC - Intel 10th Gen i7 10700F, RTX 2060 6GB, 16GB RAM, 1TB HDD, 240GB SSD with 4 ARGB Cooling Fans (Intel 10700F).....**Free Supply** C- 18 & C-8 ,10micron Column 1 Each .....**Free Supply** Chromatography S/W Upgradation f2 old JASCO HPLC systems...**Free of cost.** Delivery Installation .....**Free of cost** Injection Syringes ...2 Nos...**Free of cost**
Delivery	:	4 to 5 weeks after receipt of Purchase Order & Advance Payment
Warranty	:	3 Years (Except consumables parts). The equipment shall be under warranty for 18 months from the date of installation.
Inspection	:	The goods/equipments delivered shall be subjected to inspection and on approval of the same by the undersigned or his representative, shall be accepted. The supplier should be arranged to take the delivery of the rejected goods/ equipments, for the immediate replacement at this cost.
Payment	:	100 % after installation. Payment shall be made on receipt of the goods/equipments at our college in good condition and the balance payment shall be arranged within reasonable period, after acceptance of the goods/equipments.
Installation & Training	:	Installation and training of an equipment shall be done in the institute
Forced major Circumstances	:	Forced major circumstances shall not apply to this contract.
Bills	:	Bills should be produced in triplicate.

Principal
Bharati Vidyapeeth
College of Pharmacy,
Kolhapur – 416 013

I hereby accept the order against above mentioned **Terms and Conditions**.

Name of the firm – **ANATEK SERVICES PVT. LTD., Mumbai** Sign- .....

Tax Invoice

Annual Turnover being below Rs. 50 Cr., provisions of e-Invoice is not applicable

ANATEK SERVICES PVT. LTD.
8, Valmiki Apartment, C.S.T Road,
Kalina, Santacruz (East),
Mumbai - 400098
Phone No.:-022-2667 1004, 2667 0975
Our MSME No.MH19D0131404 W.E.F.06.01.2020
GSTIN/UIN: 27AAACA9079Q1ZW
State Name : Maharashtra, Code : 27
CIN: U29299MH1997PTC109057
E-Mail : sales@anatekservices.com;services@anatekservices.co

Invoice No.	e-Way Bill No.	Dated
INST/2122/11/005	291359208775	12-Nov-2021
Delivery Note		Mode/Terms of Payment
DC/2122/11/004		
Supplier's Ref.		Other Reference(s)
BV/CPK/219/2021-2022		
Buyer's Order No.		Dated
BV/CPK/219/2021-2022		14-Sep-2021
Despatch Document No.		Delivery Note Date
410176194		12-Nov-2021
Despatched through		Destination
Gati Courier		Kolhapur

Consignee
Bharati Vidyapeeth College of Pharmacy
Nr. Chitranagari,Kolhapur-416013., Ph: 0231
-2637286,2638833
State Name : Maharashtra, Code : 27

Buyer (if other than consignee)
Bharati Vidyapeeth College of Pharmacy
Nr. Chitranagari,Kolhapur-416013.,
Ph: 0231-2637286,2638833
State Name : Maharashtra, Code : 27
Place of Supply : Maharashtra

Terms of Delivery

Sl No.	Description of Goods	HSN/SAC	Part No.	Quantity	Disc. %	Amount
1	**PU-4180-LPG RHPLC Quarternary Pump** *S/N : PU - D218161695* *S/N: LG - A143461855* *S/N : DG - A176161735*	90272000	7002-J014A	**1 Nos.**		
2	**MD-4015 Diode-Array Detector** *S/N : A023261663*	90272000	7054-J002A	**1 Nos.**		
3	**7725i Rheodyne Sample Injector** *7725I 2/6, Man, Syr, SS, W/Pos Sensor*	90279090	0507-0925	**1 Nos.**		
4	**L-Shape Panel for Rheodyne Injector**	90279090	7001-H451A	**1 Nos.**		
5	**ChromNAV Ver.2 Chromatography Data System** *Includes LC NET II ADC box. for JASCO HPLC* *S/N : A251961868*	90279090	7059-J012A	**1 Nos.**		
6	**Stainless Tube 1/16", 0.25mm ID**	90279090	0910-0053A	**10 Mtr**		
7	**Single Ferrule (Short) 1/16"**	90279090	6560-H145A	**10 Nos.**		
8	**Compression Screw (Short) 1/16",**	90279090	6560-H144A	**10 Nos.**		
9	**One-Piece Connector, PEEK**	90279090	0507-H112A	**10 Nos.**		
10	**Maintenance Tool Kit B**	90279090	6778-H401B	**1 Nos.**		
11	**BS-4000-1 Bottle Stand**	90272000	7058-J011A	**1 Nos.**		

continued ...

SUBJECT TO MUMBAI JURISDICTION

This is a Computer Generated Invoice

Tax Invoice(Page 2)

Annual Turnover being below Rs. 50 Cr., provisions of e-Invoice is not applicable

ANATEK SERVICES PVT. LTD.
8, Valmiki Apartment, C.S.T Road,
Kalina, Santacruz (East),
Mumbai - 400098
Phone No.:-022-2667 1004, 2667 0975
Our MSME No.MH19D0131404 W.E.F.06.01.2020
GSTIN/UIN: 27AAACA9079Q1ZW
State Name : Maharashtra, Code : 27
CIN: U29299MH1997PTC109057
E-Mail : sales@anatekservices.com;services@anatekservices.co

Invoice No. / e-Way Bill No.	INST/2122/11/005 / 291359208775
Dated	12-Nov-2021
Delivery Note	DC/2122/11/004
Mode/Terms of Payment	
Supplier's Ref.	BV/CPK/219/2021-2022
Other Reference(s)	
Buyer's Order No.	BV/CPK/219/2021-2022
Dated	14-Sep-2021
Despatch Document No.	410176194
Delivery Note Date	12-Nov-2021
Despatched through	Gati Courier
Destination	Kolhapur
Terms of Delivery	

Consignee
Bharati Vidyapeeth College of Pharmacy
Nr. Chitranagari,Kolhapur-416013., Ph: 0231
-2637286,2638833
State Name : Maharashtra, Code : 27

Buyer (if other than consignee)
Bharati Vidyapeeth College of Pharmacy
Nr. Chitranagari,Kolhapur-416013.,
Ph: 0231-2637286,2638833
State Name : Maharashtra, Code : 27
Place of Supply : Maharashtra

Sl No.	Description of Goods	HSN/SAC	Part No.	Quantity	Disc. %	Amount
12	**Finepak SIL C18T-54.6x250mm** *S/N : 1169209161*	90279090	0509-0017	**1 Nos.**		
13	**REAGENT BOTTLE SCREW CAP** *Solvent Reserviour Bottle-1 Ltr*	7017	1501	**3 Nos.**		
						16,00,000.00
	Output CGST 2.5%					**40,000.05**
	Output SGST 2.5%					**40,000.05**
	Less : ***Round Off***					**(-)0.10**
	Total					**INR 16,80,000.00**

E. & O.E

Amount Chargeable (in words)
Indian Rupees Sixteen Lakh Eighty Thousand Only

Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
16,00,000.00	2.50%	40,000.05	2.50%	40,000.05	80,000.10
Total: 16,00,000.00		**40,000.05**		**40,000.05**	**80,000.10**

Tax Amount (in words) : **Indian Rupees Eighty Thousand and Ten paise Only**

Company's PAN : **AAACA9079Q**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details
Bank Name : **Union Bank of India**
A/c No. : **510341000049724**
Branch & IFS Code : **Santacruz (East) & UBIN0904996**

for ANATEK SERVICES PVT. LTD.

Authorised Signatory

SUBJECT TO MUMBAI JURISDICTION

This is a Computer Generated Invoice

Sr. No. अनुक्रम नं.	Description of Articles वस्तुचे वर्णन	Authority of Purchase & Date of Purchase खरेदी करण्याचे अधिकार पत्र व खरेदीची तारीख	Number or Qty. संख्या किंवा परिमाण	Value किंमत Rs. रू.	Value किंमत Ps. पैसे	Initial of Head कार्यालयाच्या मु... अधाक्षी
	Anatek Services Pvt. Ltd.					
	8, Valmiki Apt.,					
	CST Road, Kalina, Santacruz, [East],					
	Mumbai - 400098,					
	Tax Invoice No:- INST/2122/11/005					
	Date : 12 Nov. 2021.					
1103	Quaternary HPLC System.					
	Make: JASCO, Model: HPLC-4000series					
1.	PU-4180-LPG RHPLC Quaternary Pump	1		1600000=00		
2.	MD-4015 Diode-Array Detector	1				
3.	7725i Rheodyne Sample Injector	1				
4.	L-shape Panel for Rheodyne injector	1				
5.	ChromNav Ver.2 Chromatography Data System	1				
6.	Stainless Tube 1/16", 0.25 mm ID	10 mtr				
7.	Single Ferrule (Short) 1/16"	10.				
8.	Compression screw (Short) 1/16"	10				
9.	One-Piece Connector, PEEK	10				
10.	Maintenance Tool kit B	1				
11.	BS-4000-1, Bottle stand	1				
12.	Finepak SIL C18T-54.6x250 mm	1				
13.	Reagent Bottle screw cap	5				
				1600000=00		
		+ COST	2.5%	40000=05		
		+ SAST	2.5%	40000=05		STORE INC... Bharati Vid... College of ...
		–		0.10		
	Total Amount		Rs	1680000=00		

PRINCIPAL
Bharati Vidyapeeth
College of Pharmacy, Kolhapur.

HARINATH NIVRUTTI MORE

Digitally signed by HARINATH NIVRUTTI MORE
Date: 2023.11.09 14:10:47 +05'30'