BHARATI VIDYAPEETH
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Action Taken Report

2022-2023

The meeting of the Internal Quality Assurance Cell (IQAC) was held on **21st September 2022 at 11.00am** at Conference Hall, 2nd floor, Bharati Vidyapeeth Bhavan, Pune

The following members were present for the meeting

1. Prof. M.M. Salunkhe, Vice Chancellor-Chairman.
2. Dr. R.S. Mali.
3. Dr. A.A. Natu.
4. Dr. V.R. Shirgurkar.
5. Prof. S.F. Patil - Coordinator.
6. Dr. A.B. Patil.
7. Dr. R.S. Zirange.
8. D. V.K. Kurkute
9. Dr. Anthony Rose.
10. Dr. Sachin Kadam – Special Invitee.
11. Dr. Kirti Gupta. - Special Invitee.

Leave of absence was granted to Dr. Vishwajeet Kadam, Shri. G. Jayakumar, Registrar BVDU , Dr. M.D. Karmarkar, Dr. Amol Patil and Jyothi Johnson as they expressed their inability to attend the meeting due to pre-engagements.

Hon'ble Vice Chancellor welcomed all the members of the IQAC.

The following agenda items were taken up for discussion and consideration.

Item No. 1

Confirmation of Minutes of the meeting held on 2nd June 2022

Resolution

Minutes of the IQAC meeting held on 2nd June 2022 were read and confirmed.

Item No. 2

Action taken Report

Resolution:

Report on the action taken on the decisions of the IQAC at its meeting held on 2nd June 2022 was noted.

Item No. 3

Status of AQAR for 2021-22.

Resolution:

Prof. S. F. Patil briefed the IQAC members about the progress of the compilation of AQAR for the academic year 2021-22. He also informed the IQAC members that the AQAR for the year 2021-22 will be submitted by end of December 2022

Item No. 4

Discussion on Academic Collaboration between Indian and Foreign Higher Educational Institutions to offer Twinning, Joint Degree, and Dual Degree Programmes.

Resolution:

Hon. Vice chancellor informed the IQAC members about the UGC circular dated D.O. No 4-1/2022 (IC) dated 5th May 2022 and "The gazette of India" CG-DL-E-02052022-235497 dated 2 May 2022 regarding the Academic collaboration between Indian and Foreign Higher Educational Institutions to offer Twinning, Joint Degree, and Dual Degree Programme. He also briefed the guidelines given by the UGC regarding the credit system to be offered.

The IQAC members suggested to identify the constituent units who can undertake the Programmes with foreign Universities. It is suggested to constitute a committee of 3 members consisting of Dean, Subject Expert, and Senior faculty to decide the structure of the Programme to be undertaken.

The IQAC members also suggested to discuss the implementation of Twinning Joint Degree and Dual degree Programme and regulation be passed in Academic council.

The IQAC member also suggested to constitute a committee under the guidance of Hon Vice Chancellor to draft a Policy document in the line of NEP 2020.

Item No. 5

Discussion on revised course structure of BBA & BCA for Faculty of Management, from 3 year to 4 years (Honors) in the light of NEP 2020

Resolution:

Hon. Vice chancellor informed the IQAC members about the implementation of BBA and BCA course in the Faculty of Management in the line of NEP 2020 from academic year 2022-23.

Dr. Kirti Gupta briefed the IQAC members about the course structure and the credit system offered by the University. She also explained the exit and entry level of the students during the course.

Item No. 6

Discussion on equivalence of degree obtained through ODL and Online mode with degree obtained through conventional mode.

Resolution:

Hon. Vice chancellor informed the IQAC members about the circular F.No. 3-5/2022(DEB-III) dated 2 Sep 2022 regarding the equivalence of degree obtained through ODL and Online mode with degree obtained through conventional mode.

The IQAC members suggested to follow the changes as per the UGC circular.

Item No. 7

Discussion on the progress of incubation cell

Resolution:

Hon. Vice chancellor informed the IQAC members about the progress of BVDU Incubation center at various constituent units.

The IQAC members suggested to start separate incubation center in every college and appoint professional people from industry to guide the students. The IQAC members also suggested to incubate the project jointly with two or more departments and focus on interdisciplinary project.

Item No. 8

Any other item with the permission of chair.

1. Establishment of BVDU's Statistical Support Cell for researchers.

   Dr. Sachin Kadam informed the details of the BVDU's Statistical Support Cell for researchers. He also informed the IQAC member about the various Programme conducted under by the Statistical Support Cell.
   It is suggested to organize training Programmes for different constituent units.

As there were no other items for discussion, the meeting ended with a vote of thanks to the chair.

(Prof. S.F. Patil)
Coordinator

(Prof. M.M Salunkhe)
Chairman

BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY)
Bharati Vidyapeeth Bhavan, LBS Marg
Pune-411030

The meeting of the Internal Quality Assurance Cell (IQAC) was held on **2nd June 2022 at 11.00am** at Conference Hall, 2nd floor, Bharati Vidyapeeth Bhavan, Pune

The following members were present for the meeting

1. Prof. M.M. Salunkhe, Vice Chancellor-Chairman.
2. Dr. R.S. Mali.
3. Dr. A.A. Natu
4. Prof. S.F. Patil - Coordinator.
5. Dr. M.D. Karmarkar.
6. Dr. R.S. Zirange.
7. D. V.K. Kurkute
8. Dr. Anthony Rose.
9. Shri. G. Jayakumar, Registrar BVDU – Special Invitee.
10. Dr. Kirti Gupta. - Special Invitee.

Leave of absence was granted to Dr. Vishwajeet Kadam, Dr. V.R. Shirgaurkar, Dr. A.B. Patil, Dr. Amol Patil and Dr. Sachin Kadam. as they expressed their inability to attend the meeting due to pre-engagements.

Hon'ble Vice Chancellor welcomed all the members of the IQAC.

The following agenda items were taken up for discussion and consideration.

Item No. 1

Confirmation of Minutes of the meeting held on 24th February 2022

Resolution

Minutes of the IQAC meeting held on 24th February 2022 were read and confirmed.

Item No. 2

Action taken Report

Resolution:

Report on the action taken on the decisions of the IQAC at its meeting held on 24th February 2022 was noted.

Item No. 3

Suggestion from respective criteria head regarding AQAR 2020-21 and planning for AQAR 2021-22.

Resolution:

Prof. S. F. Patil briefed the IQAC members about suggestions made by coordinator heads for speedy completion of AQAR. It was decided to take appropriate steps to resolve difficulties encountered.

Item No. 4

Implementation of curriculum development in the light of NEP

Resolution:

Hon. Vice chancellor informed the IQAC members about the constitution of committee for the implementation of NEP from the academic year 2022-23. Dr. Sachin Vernekar, Director IMED, Pune will look after the implementation of NEP. He also informed the IQAC members that NEP will be implemented from 2022-23 for BBA course in the Faculty of Management.

Prof. S.F. Patil insisted to make 20% change in the syllabus for those courses whose syllabi are not revised in the light of NEP.

It was resolved to call respective BoS meeting for revising syllabi of the courses on priority basis. It is also suggested that change in syllabus for each course to be highlighted.

Item No. 5

FDP on Value added courses and collaboration with BAHA'I academy

Resolution:

Matter was discussed and decided to keep the proposal submitted by BAHA'I Academy in the Academic Council. Further it is resolved that the name of the courses proposed by BAHA'I Academy be sent to Dean of the respective faculty for selecting them and accordingly proposing the agenda to Academic Council

Item No. 6

Organization of Seminars, Workshops and National/International Conferences during the academic year 2022-23

Resolution:

The proposal sent for Organization of Seminars, Workshops and National/International Conferences by various Constituent Units was discussed and noted

Item No. 7

Status of research funding & publication in different constituent Units

Resolution:

Various constituent Units of the University submitted number of publications appeared in Scopus/Web of Science/ Pubmed/UGC Care for 2021-22 and projected publications in 2022-23.

The IQAC members appreciated that every constituent Unit projected higher number of publications in 2022-23 as compared to 2021-22.

The data on status of research funding are not provided by some of the constituent unit. Hence it was decided to put up this item in the next IQAC meeting. It was also decided to send the letters to the constituent units in this regard.

Item No. 8

Preparation of Academic Calendar for University and individual Constituent Unit of academic year 2022-23

Resolution:

It was resolved to send the letter to each Constituent Unit for preparing Academic Calendar in detail for academic year 2022-23. It was also resolved to write a letter to the Registrar of the University for making University Academic Calendar for 2022-23 on priority basis.

Item No. 9

Discussion on proposed system for Feedback and Students satisfaction survey for academic year 2021-22.

Resolution:

Dr. Kirti Gupta presented profroma for collecting the feedback on Curriculum by Teachers, Students Alumina and Employer as well as the questions framed for Students Satisfaction Survey. She also presented the analysis of feedback system by taking the data from selected constituent Units.

The members expressed the satisfaction on the profroma and recommended to follow for academic year 2022-23.

Item No. 10

Future plan of the University for Academic Year 2022-23

Resolution:

Future plan for the academic year submitted by various constituent units was discussed and approved. It was further resolved that future plan of University for the academic year 2022-23 be prepared on priority basis, and letter be sent to administration unit of the University.

Item No. 11

Analysis of Extension activities for 2021-22

Resolution:

The Extension activity conducted by various Constituent Units was appreciated by IQAC members.

Dr. Sachin Kadam and Dr. Kiri Gupta were given the responsibility of Analysis of extension activities. It was reported that meeting with Dr. Mhetre had been conducted and the parameters required for analysis have been discussed. Once 2021-22 data is available in the required format, the analysis would be possible.

Item No. 12

Any other item with the permission of chair

Resolution:

As there were no other items for discussion, the meeting ended with a vote of thanks to the chair.

(Prof. S.F. Patil)
Coordinator

(Prof. M.M Salunkhe)
Chairman

Bharati Vidyapeeth
(Deemed to be University)
Founder Chancellor : Dr. Patangrao Kadam

Prof. Dr. Shivajirao Kadam
Chancellor   M.Sc., Ph.D.

Dr. Atmaram Pawar
M.Pharm., Ph.D.
In-charge Principal

● Accredited with 'A+' Grade (2017) by NAAC
● Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC
● Category-I University Status by UGC

POONA COLLEGE OF PHARMACY
● Reaccredited by NBA & NAAC ● ISO-9001-2015 Certified Institute
● DTE Code 6652

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Action Taken Report AY (2022- 2023)

S. No	Feedback	Issues taken into consideration	Action taken
1.	Student Feedback	Student online feedback by the university indicated more Industry- Institute interactions to be done.	More number of Industries were identified and contacted for internship and collaborative works to increase the interactions
		Student suggested to correlate practical with theory.	The feedback was conveyed to the teachers and were advised to strengthen the areas of concern.
		Placement cell should include more grooming sessions for better opportunities for UG students.	As per the communication with placement cell, more number of grooming and personality development courses were organized.
2.	Teachers feedback on curriculum	Feedback from teacher on curriculum suggested Training on effective teaching and learning pedagogy to be conducted for faculty. Pedagogy as well as case based study should be used to improve the teaching learning process. Faculty to be sent for industrial training. Faculty to be encouraged to undertake research on societal problems/needs.	Intensive training Sessions have been planned for faculty members on teaching pedagogy/ICT usage/ video/ lecture recording and e- content development. The training workshop on "Tools and Techniques for e-content development" was conducted on 17th June 2023. The staff are motivated to undertake industrial trainings and few staff members Dr. Sharvil Patil, Mrs. Malati Salunhke have undergone Industrial training Most of our research work addresses the health related issues. However, Faculty members have been informed by the research committee of the institute to undertake research on societal needs.

Dr. Sathyanarayanan L.
BOS Chairman

Dr. Atmaram Pawar
Principal

Action Taken Report AY (2022- 2023)

3.	Parents feedback on curriculum	Overall parent feedback was good. Parents suggested to create Whatsapp group	Teacher- wards are informed to create WhatsApp group.
4.	Employer feedback	Employees' feedback was found to be satisfactory. Allied fields for broader insight, soft skill practice and minor projects from third year should be focused.	The suggestion has been considered to introduce value added courses for UG students on soft skill practice. Allied fields like AI, Python, SPSS training are introduced.
5.	Alumni feedback	Alumni feedback was satisfactory. Skill development was suggested during the course.	Skill development workshops have been arranged for the students.
6.	Professional Feedback	Professional feedback was found to be satisfactory. Updation of syllabus with respect to advancement in the field such as courses on natural products, industrial pharmacy, research methodology and artificial intelligence (AI).	Faculty members were informed and allowed to take training with respect to advancements in the field as suggested by the professional feedback. Accordingly few faculty members have taken training on AI, Python courses. A value added course on Python was conducted for the students. M.Pharm in industrial Pharmacy has been introduced from AY 2022-23.

Dr. Sathyanarayanan L.
BOS Chairman

Dr. Atmaram Pawar
Principal

ACTION TAKEN FOR STUDENT FEEDBACK ON CURRICULUM
(2022-23)

Sr No.	Question	Response	Action Taken
1	Applicability / relevance to real life situation/ patient and local developmental needs (as per health/current scenario of country)	About 70% responses constitutes excellent to good. 30 % responses are in average and below average category	i)Teachers training programme conducted . ii)Teachers trained to included problem and patient based learning
2	Weightage given to skill development/ entrepreneurship development/employability	78 % responses falls in excellent to good category About 20% responses are in average and below average category	i)More of skill developmental programmes started for interns. ii)Practice management / research methodology programmes conducted for interns. iii)AETCOM for undergraduate students
3	Weightage given to project based learning	About 74% graded excellent to good. 20% were averageto below average response	i) Projects already given to students. Students sensitized for better involvement to learn from these projects. ii) UG and interns have been involved in research projects and participated in SRC
4	Weightage given to theory, Practical & field work component	About 80 % responses were of excellent to good. 20% were average response	i) Enough theory classes conducted ii) To improve practical and field work component. More of camps are being conducted by

			Community and pediatric dentistry department. To cater for different age groups.
5	Fulfilment of programme / course outcome	77 % responses were of excellent to good. Only 20 % were average to below average response	Dental Education Unit established. Teacher training done .Teachers will be better able to evaluate, implement and fulfil the course outcome, after training.
6	Weightage given to learning values(in terms of knowledge, concept, manual skills, analytical abilities & broadening perspective	88% responses were of excellent to good. 12% average response received	Value added programs including Practice Management and AETCOM session for UG students and interns introduced
7	Weightage given to ethics, communication, counselling	74%- excellent to good response 22% - average response	i)AETCOM for undergraduate students. ii)Robust mentor/mentee programme planned iii) Students are kept under constant check for studies
8	Quality, clarity & relevance to textual reading reference material/study material	88%- excellent to good response About 12% - average response	Enough reading material available. Library period included in timetable for students to visit and access this. Online access to e-journal provided for further improvement
9.	Creation of interest to pursue higher education/ specialization	78%- excellent to good response. 20%- average to below average response	NEET training started for interns. Many programs related to career opportunities after BDS conducted by academic committee
10.	Overall rating		No action needed.

11.	Aims and objectives of the syllabi are well defined and clear	74%- excellent to good response. 20%- average to below average response	Orientation program already been conducted for Interns, 1st year UG and PG
12.	Departmental level subject expert committee meetings are held for reviewing the syllabus	80%- excellent to good response 10%- average to below average	Orientation program conducted for 1st year BDS and MDS students
13.	The Board of Studies (BOS) is taking care to ensure the current relevance of the program being offered	86%- excellent to good response 14%- Average to below average	All rules and regulations informed to students for exams in pandemic time
14.	I am given enough freedom to contribute my ideas on curriculum design and development	89%- Excellent to good response 9%- Average to below average response	i)Teachers training programme conducted . ii)Teachers trained to included problem and patient based learning iii)Dental education unit established

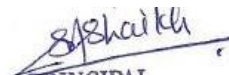- **Analysis of Feedback on Curriculum: By Students**

1   About 83.72 % students rated curriculum as excellent/very good for applicability and relevance to real life situations and having scope for local development needs. The other 13.95 rated it in the good category.

2   72.09 % students rated the syllabus for weightage given to skill development, entrepreneurship and employability generation in category of excellent and very good. 18.60 % students have rated these criteria in syllabus as good.

3   72.09 % students have ranked the curriculum as excellent and good for weightage given to project based learning. Again 18.60% have rated it as good.

4   Maximum, i.e., 88.37 % students are highly satisfied for weightage given to theory, practical and field work component. Remaining 11.63% students have rated it in good category. There were none in average or below average categories.

5. 81.39% students have rated the fulfillment of program and course outcomes as excellent and very good. The 18.6 % considers it as good while none have given average or below average remarks.

6. 81.4 % consider the learning values in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives to be excellent and very good in the syllabus. 13.95 have rated it as good and 4.65 % as average.

7. 65.11 % students have rated the weightage given to ethics, communication and counseling as excellent and very good category. 23.26 have given Good and 11.63 % as Average.

8. The quality, clarity and relevance of textual reading, reference/ study material is excellent and good for 69.77% students. 25.58 % rated it as Good and 4.65% as Average.

9. 69.77 % students write the syllabi as excellent and good for creating interest to pursue higher education. Another 25.58 % considered it as Good one and 4.65 % rated as Average.

10. 76.74 % students are highly satisfactory and have given excellent and good ratings to overall syllabus. 18.6 % considers as Good and 4.65 % as Average.

11. 74.42 % students are highly satisfactory for orientation program conducted for students. 20.93 % rates it as Good and 4.65% as Average.

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12. 95.35 % are pleased with the introduction given for curriculum in initial phase of the program. 4.65% has given Good.
13. 53.45 % have remarked excellent and 34.88 % as Very Good for adequate information for rules and regulations regarding internal assessment, examinations and changes if any due to pandemic conditions. 9.3 % have given good and 2.33 % as Average.
14. 44.19 % have given excellent and 32.56 % have given Very Good ratings for use of student centric methods such as experimental learning. About 16.28 % rates Good and 2.33 % as Average.
15. As many as 86.98% students have rated excellent and very good for information on program and course outcomes
16. Very high satisfactory rate i.e. 97.54% rating for complete coverage of syllabus in the class

Suggestions of students

- Most of them have suggested their overall satisfaction with curriculum. Increase in practical component and field based learning in B.Sc. Biotechnology curriculum
- Preparation of concise syllabus for appropriate coverage
- More soft skill oriented programs for grooming of students for interviews and innovative activities and assignments are criteria to be considered in teaching programs
- Encourage active and practical learning by making connection with real world applications
- Better availability of experimental material and conducting experiments in more detailed manner
- More project based learnings and internships for students
- Students should be given cultural liberty few more times in the year
- Placements should be improved
- In spite of best efforts by staff, the job trends are challenging for students
- The parallel hands-on practical sessions associated with most of the courses helped students to acquire individual education and team based collaborative work skills
- Overall, teaching program prepared students to face the world.
- There is always a room for improvement and improvement is required in every aspect

Action Taken

1) The curriculi for B.Sc. Biotechnology semester III and IV were revised. The course structures for these two semesters were designed to include the suggestions of stakeholders.

2) Provision to undertake any of the Swayam courses is made in the revised B.Sc. Biotechnology curriculum which provides wide range of options to students for selection of courses as per their interest

3) The credits earned through Swayam Courses will be considered in final evaluation of the student

4) The content of soft skills in the syllabus is increased. Two courses 'Yoga & Sports' and Communication Skills & Personality Development' having weightage of two credits each are included in Semester III and Semester IV respectively. They are intended to develop physical, communication and presentation skills of students as well as to enhance their capacities to deal with stress.

5) A value added course 'Enzymes and its Industrial Applications' is initiated. Learning of Enzymes and its kinetics is an integral aspect of Biotechnology. Students learn its role in various metabolic pathways of the body. These enzymes are useful in various industrial processes and utilized in paint, textile, food, agriculture, pharmaceutical and environmental industries. This Value added course provides a comprehensive understanding on applications of enzymes in various industries. This course is aimed at increasing the job and entrepreneurship opportunities of students.

6) The revised B.Sc. Biotechnology curriculum not only provides the comprehensive training in all the core areas of Biotechnology, but it also trains students for the competitive examinations to be undertaken for admissions to PG programs in Biotechnology and allied disciplines. Moreover, the employability generation courses, Innovative thinking skills and entrepreneurship development are highly emphasized in the curriculum.

7) Activities such as Journal Club, presentations, group projects to prepare students to face the world are essential aspects of the teaching learning program.

General Comments: Overall, the alumni are satisfied with the curricula of Biotechnology programs in Rajiv Gandhi Institute of IT and Biotechnology. They have given few valuable suggestions.

- About 93.8 % have rated the syllabus as very good for applicability and relevance to real life situations with scope for local development needs
- 80.2% considered the syllabus very good for employability generation
- 93.8 % of students rated the curriculum very good for skill development
- 85 % alumni considered the syllabus as very good for research project & dissertation weightage
- 100 % students have claimed the curriculum to be good for theory, practical and field work component
- 95.8 % alumni have rated the curriculum as very good for depth of course content
- 88.3 % of alumni considered the curriculum to be very good for inclusion of latest advancements of the subject
- 91.8% alumni rated the curriculum to have attained the relevance of learning objectives as well as course outcome
- 93.8 % students are satisfied with Weightage given to Learning values (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives)
- 41.5 % alumni have rated the syllabus as excellent in all the respects where as 50% have rated it as good in all respects. 9.5 % students have considered it as average.

Suggestions of Alumni

- About 90% of students have shown satisfaction with curriculum.
- Increase the content of field based courses
- Give more emphasis to practical courses
- Include the core interdisciplinary subjects such as Physics, Mathematics and Chemistry in the curriculum as they are an important section of most competative examinations and are also involved in advanced biotechnology
- Involve the industry connect with students either as guest lectures or internship, training, visits etc. for students to develop awareness of the industry requirements

- The curriculum helped to gain career knowledge and confidence to focus on future goals.
- Students enjoyed the learning process and diversity of the courses.
- The parallel hands-on practical sessions associated with most of the courses helped students to acquire individual education and team based collaborative work skills
- Overall, teaching program prepared students to face the world.

Action Taken

- Experts from industry and academia are involved in BOS and meetings of curriculum revision
- The courses of Mathematics and Physics for Biologists are included in the curriculum of revised B.Sc. Bitoechnology
- Industry/research oriented courses giving hands on training are planned in the revised curriculum of B.Sc. and M.Sc. Biotechnology Programs
- The employment generation and entrepreneurship development courses are emphasized in the revised curriculum

Feedback on Curriculum: By Employers

Suggestions of employers on curriculum:

- Practical and field work component of the curriculum should be made very strong to provide hands on training to students
- Involvement of interdisciplinary courses is recommended
- More innovative subjects should be added
- Emphasis on development of overall personality, presentation skills and confidence is suggested
- The curriculum should have courses to improve communication and analytical skills of the students
- Syllabus should thoughtfully incorporate components that will develop managerial and leadership qualities of students
- Entrepreneurial skills of students should be developed right from early college days

Action Taken

- 100% of the core courses of the revised biotechnology programs are supplemented with practical courses.
- Seminar presentation and classroom discussion is incorporated as integral part of teaching –learning process to develop communication and analytical skills of students
- Course on entrepreneurship development, management of business, innovative ideas for startup are developed and included in the syllabus

Teachers have rated the syllabus as excellent and very good for all the criteria.
- 100% teachers have rated the syllabus as excellent or very good for applicability/relevance to real life situations and current scenario of the country
- 90.92 % rates excellent and very good for weightage given to skill development/entrepreneurship development and employability
- 100% teachers are highly satisfactory for weightage to project based learning
- 100% faculty are also satisfied for weightage to theory, practical and field work component
- 100% rates excellent and very good for fulfillment of program outcome
- 100% ratings are also for weightage given to learning of values
- Only 81.82 are highly satisfactory for weightage given to ethics, communication and counseling
- 100% marks from faculty for quality, clarity and relevance of textual reading/reference material and study material
- 100% have rated the curriculum as excellent or very good for creation of interest to pursue higher education
- 72.73 % teachers considers the overall syllabus as excellent and 27.27 % as very good
- 90.91% teachers are for excellent grade for Board of Studies taking care to ensure the current relevance of the program being offered
- 72.73 % teachers have rated excellent and 27.27% as very good for organization of the department level subject expert committee meetings for review of syllabus
- 100% of teachers are highly satisfactory for clarity in aims and objectives of syllabi
- 100% are pleased with freedom given to contribute ideas on curriculum design and development
- 100% Teachers considers the system followed by the university for design and development of curriculum to be effective
- 100 % satisfaction from teachers for timely revision of syllabus
- Only 91% faculty are satisfactory for representation from business and industry in UG/PG Board of studies

Suggestions of teachers for B.Sc. Curriculum

- Improvement is necessary with regards to skill development and employability to cater to the demands of various sectors of biotechnology
- More insights in industrial applications is suggested
- Curriculum should involve value added, employability generated and skill development courses for students
- As per the current advancements of subjects, practical based teaching should be followed
- Internships should be encouraged. Add pm courses should be included and new value added courses should be added

Suggestions of teachers on M.Sc. Bioinformatics Curriculum:

- Timely improvements in syllabus are recommended
- Curriculum should be designed as per the industry requirements
- Periodic up-gradation is needed and changes in technology should be considered
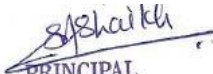- Revision of syllabus as per current technology should be a priority

Suggestions of teachers on M.Sc. Biotechnology and Medical Biotechnology Curriculum:

- More focus on skill development
- Regular revision of syllabus is essential to include newer emerging areas/topics in syllabus. Industrial exposure to students should be considered. Industrial internships should be part of syllabus. Students should earn credits for such internships. New value added / employability oriented and skill based courses should be added. Students should be oriented for life skills
- Linkage with industry should be encouraged
- Need more linkages with industries
- Needs improvements with regards to skill development, entrepreneurship and employability keeping in view future demands of healthcare sector
- Some advanced knowledge of self study and assessment done continuously as part of IA. Group presentations for improving scientific writing/oral communication skills and soft skill development
- Weightage for industry training should be included in PG curriculum
- The curriculum should be updated as per current topics. Industry academica interactive courses should be included

Suggestions of teachers on M.Sc. Bioinformatics Curriculum:

- Timely improvements in syllabus are recommended
- Curriculum should be designed as per the industry requirements
- Periodic up-gradation is needed and changes in technology should be considered
- Revision of syllabus as per current technology should be a priority

Suggestions of teachers on M.Sc. Biotechnology and Medical Biotechnology Curriculum:

- More focus on skill development
- Regular revision of syllabus is essential to include newer emerging areas/topics in syllabus. Industrial exposure to students should be considered. Industrial internships should be part of syllabus. Students should earn credits for such internships. New value added / employability oriented and skill based courses should be added. Students should be oriented for life skills
- Linkage with industry should be encouraged
- Need more linkages with industries
- Needs improvements with regards to skill development, entrepreneurship and employability keeping in view future demands of healthcare sector
- Some advanced knowledge of self study and assessment done continuously as part of IA. Group presentations for improving scientific writing/oral communication skills and soft skill development
- Weightage for industry training should be included in PG curriculum
- The curriculum should be updated as per current topics. Industry academica interactive courses should be included

Action Taken:

- Feedback from all the stakeholders were considered for revision of B.Sc. Biotechnology curriculum
- The courses were redesigned to include the emerging areas and its industry applications
- The practical courses are strengthened to be able to provide hands on training and development of student's skills.
- Demonstration of advance practicals and visits to research institutes and industries are integral part of the curriculum
- Linkages to various industries and research institutes are developed for dissertation studies of M.Sc. programs

- The experience of every teacher in implementing the courses and the placement cell co-ordinator in placement of students are considered for overall revision of the curriculum

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Pune-Satara Road, Pune - 411046.

Faculty of Medical Sciences

Name of the Programme: MD, MS, B Optometry, M Optometry

Suggestions from the stake holder's feedback

FACULTY OF MEDICAL SCIENCES	
Stake holder	**Suggestions**
Student	- More patient based, practical hands on learning would be beneficial - Internet facility, **in silico anatomy models** and more ICT tools for learning required
Teachers	- Up gradation of **ICT facilities required** - Students involvement and attendance monitoring tools required
Alumni	- Invite alumni as guest speaker for sharing knowledge and experience - Increase more clinical exposure - More focus on clinical knowledge for budding doctors. Curriculum should be more emphasized on clinical cases. - Examination pattern should be modified including the clinical cases, applications, interpretations, analysis to **impart outcome based assessment**
Employers	More **clinical exposure and training sessions** should be imparted to students.
Professionals	Present **curriculum has adequate depth of course content**, **has included / incorporated latest advancement in the subject** & **optimization of course content has been done satisfactorily.**

Name of the Programme: Post graduation - MD/ MS

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	The following revisions and points must be incorporated in the curriculum revision: **Anatomy** • Soft embalming and other newer embalming techniques • Plastination • recent advances in Genetics **Physiology** • Cell signaling in space and time • Molecular mechanism for controlling circadian rhythm • Molecular a basis of heat (TRPV1) and touch (Piezo2) somatosensation **Pharmacology** • Inclusion of Protocol writing exercise in MD Pharmacology Practical examination • Replacement of isolated tissue experiment with Interpretation of previous tracing - keeping abreast with animal use guidelines • Practical exam now includes Pharmacokinetic exercises / Statistics exercises & Evaluation of promotional literature which is need of the hour for MD Pharmacology students **Microbiology** • Antibiotic stewardship for prevention and control of AMR • To set up and manage Central Sterile Services Department (CSSD) and prepare effective sterilization and disinfection policy for the hospital. • Role of microbes in non-communicable diseases - infectious agents in origin and progression of non-communicable diseases like	10%

	cancer, diabetes, musculoskeletal disorder and influence of these microbes on mental health • Information technology (computers) in microbiology **Community Medicine** • Health Technology Assessment • GIS in public health practice • Artificial Intelligence in Public Health **MS ENT** • Surgeries in obstructive sleep apnea (OSA). • Advances in airway surgeries. • Robotics in ENT. **BIOCHEMISTRY** • Biochemistry of olfaction, taste, vision and taste. • Biochemical basis of drug addiction and abuse. • Gene imprinting • Accreditation of lab NABL, ISO **OBSTETRICS & GYNAECOLOGY** • Critical Care Obstetrics • Fetal Medicine • Preventive oncology **FMT** • Amendment to POSCO act 2012-2020, 2022 • Amendments to various acts related to drugs/poisons	
Outcome-based Education	Identification of Postgraduate attributes/Competencies (As Applicable) **Programme Outcomes** **Course Outcomes** **Mapping of CO-PO**	5%
Scheme of Assessment	Outcomes based Assessment to be done. **Inclusion of OSCE/ OSPE**	5 %

Teaching Learning Methods	**Select any 2-4 as applicable for the Programme** **Problem Based Learning** **Laboratory Based Learning** **Self Directed Learning and Teaching** **Simulation-Based Learning**	10 %
Total Curriculum Revised		30 %

Faculty of Ayurved

Name of the Programme: BAMS

Suggestions from the stake holder's feedback

FACULTY OF AYURVED	
Stake holder	**Suggestions**
Student	• Information and training for employment in **Ayurvedic pharmacy** is required
Teachers	• Students need to explore more employment opportunities
Alumni	• **Training outside analytical lab** should be increased
Employers	• **Analytical abilities** of students need **to be improved**
Professionals	• More **digital sources** on Ayurveda are required.

**Recommendations of BOS based on NCISM guidelines and Stakeholders' feedback
for Curriculum Revision**

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision for Dravyaguna

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Recommendations for Addition of the following points 1. Interpret Clinical application of Raspanchak 2. Classifications and techniques of aqueous and alcoholic extracts 3. Adverse drug reaction and Pharmacovigilance with recent updates 4. Vrikshayurveda and Ethno-medicine 5. Network pharmacology and Bioinformatics 6. Bheshajavacharaniya (Criteria's to be considered for selection of drugs in vyadhis) 7. Assessment and understanding the relation between Parthivatwa & subjective/ objective parametric tests. 8. Rational prescription along with safe dispensing of Ayurvedic formulations. 9. Traditional & Local health Practices	10 %
Outcome-based Education	Recommended implementation of Programme outcomes and Course out comes for Dravyaguna as **Program Outcomes for Post Graduate Courses in Ayurved-** • PG degree holder should be expert and specialist of his/ her branch who can be competent and efficient teacher, physician, surgeon, gynaecologist and obstetrician (Stri Roga and Prasuti Tantragya), pharmaceutical expert, researcher and profound scholar in various fields of specialisation of Ayurved. • Should have knowledge of Concept of Good clinical practices in Ayurved and modern medicine. **Course specific outcomes** • Have a clear understanding of medicinal plants in context to Ayurved and modern Pharmacology and Pharmaceutics • Have an accurate knowledge of identification, Authentication, and standardization of raw and wet plant drugs. • Ability of cultivation and plantation of medicinal plants	5 %

		• Knowledge about Pharmacovigilance	
		• Ability to conduct the pre-clinical and clinical trials of medicinal plants	
Scheme of Assessment		Outcomes based Assessment to be done.	5 %
Teaching Learning Methods		**The following teaching learning methods are to be adopted.** Problem based learning, Laboratory based learning, and self-directed learning and teaching, Brainstorming, Inquiry-Based Learning, Project-Based Learning, Game-Based Learning, Recitation, Flipped classroom and Demo on Model etc.	10%
Total Curriculum Revised			30 %
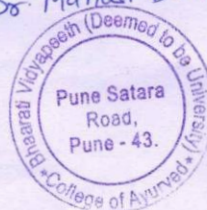
M.D.- Ayurved Vachaspati in Rog Nidan

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision for Rog Nidan

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Recommendations for Addition of the following points 1. Interpret the findings of general examination and various systemic examination - General physical examination, Nervous system, Musculo skeletal system, Gastrointestinal system, Respiratory system, Integumentary system, Uro-genital system, Cardiovascular system, etc. (Inspection, Palpation, Percussion, Auscultation 2. Infer diagnosis and prognosis based on a given clinical scenario. 3. Hypothetic-deductive model of clinical reasoning, Pattern recognition model, dual process diagnostic reasoning model, pathway for clinical reasoning model, integrative model of clinical reasoning model, model of diagnostic reasoning strategies in primary care for clinical diagnosis 4. Janapadodhwamsa vikara (Pandemic disorders) 5. Digital health	10 %
Outcome-based Education	Recommended implementation of Programme outcomes and Course out comes for Rasashahtra evam Bhaishjyakalpna as **Program Outcomes for Post Graduate Courses in Ayurved-** • PG degree holder should be expert and specialist of his/ her branch who can be competent and efficient teacher, physician, surgeon, gynecologist and obstetrician (Stri Roga and Prasuti Tantragya), pharmaceutical expert, researcher and profound scholar in various fields of specialization of Ayurved. • Should have knowledge of Concept of Good clinical practices in Ayurved and modern medicine.	5 %

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. 1.Kayachikitsa, 2. Prasutitantra & Streerog, 3.Agadatantra, 4.Swasthvrutta, 5.Panchkarma, 6.Shalya tantra, 7.Shalakya tantra 8.Kaumarbhritya tantra.	10%
Outcome-based Education	**Post Graduate Course attributes-** ➢ Evaluation based on Clinical Oriented knowledge and is to be incorporated. ➢ Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Following recommendations are recommended for Samhita subjects for incorporations in teaching learning method ➢ Problem based teaching learning. ➢ Samhita Wachan Methods Following recommendations are recommended for Kriya Sharir and Rachana Sharir subjects for incorporations in teaching learning method ➢ Application based teaching learning/Clinically Oriented teaching learning.	10%

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Total Curriculum Revised		28%

Chairman
Prof & HOD
DR SWATI SURENDRA MOHITE

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Prasutitantra

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

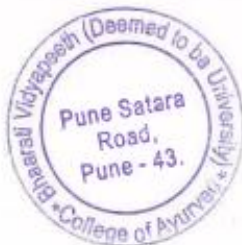| Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Kayachikitsa MD Ayurved final year course curriculum is revised for following course. Kayachikitsa It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	**Post graduate Course attributes-** Kayachikitsa Program Outcome ➤ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome ➤ Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Following recommendations are recommended for Kayachikitsa subjects for incorporations in teaching learning method ➤ Problem based teaching learning. Bed side clinic Teamwork, self-directed learning, and reflection are the three important components of problem-based discussions. ➤ Self-directed learning & teaching ➤ Application based teaching learning/Clinically Oriented teaching learning.	10%
Total Curriculum Revised		28%

Chairman

Prof & HOD

DR. SWATI SURENDRA MOHITE

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Panchkarma

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Panchakarma MD Ayurved final year course curriculum is revised for following course. Panchakarma It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	Post graduate Course attributes- Panchakarma Program Outcome ➢ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome ➢ Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Panchakarma Following recommendations are recommended for Panchakarma subject for incorporations in teaching learning method ➢ Problem based teaching learning. Bed side clinics ➢ Self-directed learning & teaching Performing Panchkarma ➢ Application based teaching learning/Clinically Oriented teaching learning. Observation of various Panchkarma procedures	10%
Total Curriculum Revised		28%

Chairman

Prof & HOD

DR. SWATI SURENDRA MOHITE

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in KaumarbhrityaTantra

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

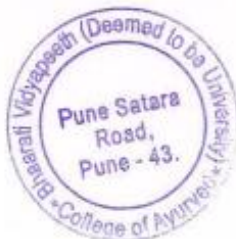| Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Kaumarbhritya Tantra MD Ayurved final year course curriculum is revised for following course. Kaumarbhritya Tantra It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	Post graduate Course attributes- Kaumarbhritya Tantra Program Outcome ➢ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome ➢ Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Following recommendations are recommended for Kaumarbhritya Tantra subjects for incorporations in teaching learning method ➢ Problem based teaching learning. Hospital bed side clinics ➢ Simulation Simulation mimics a clinical encounter and is defined as a technique that replaces or amplifies real experiences with guided experiences that replicate aspects of the real world in an interactive manner ➢ Application based teaching learning/Clinically Oriented teaching learning.	10%
Total Curriculum Revised		28%

Chairman

Prof & HOD

DR. SWATI SURENDRA MOHITE

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Shalya Tantra

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Shalya Tantra MD Ayurved final year course curriculum is revised for following course. Shalya Tantra It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	**Post graduate Course attributes-** Shalya Tantra Program Outcome ➢ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Following recommendations are recommended for Shalya Tantra subjects for incorporations in teaching learning method ➢ Problem based teaching learning. Hospital bed side clinics ➢ Simulation Study on mannequin ➢ Application based teaching learning/Clinically Oriented teaching learning. Performing various Ayurvedic & Modern procedures.	10%
Total Curriculum Revised		28%

Chairman

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Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Shalakya

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Shalakya Tantra MD Ayurved final year course curriculum is revised for following course. Shalakya Tantra It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	**Post graduate Course attributes-** Shalakya Tantra Program Outcome ➤ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Following recommendations are recommended for Shalakya Tantra subjects for incorporations in teaching learning method ➤ Problem based teaching learning. Hospital bed side clinics ➤ Simulation Study on mannequin ➤ Application based teaching learning/Clinically Oriented teaching learning. Performing various Ayurvedic & Modern procedures. ➤ Self-directed learning & teaching	10%
Total Curriculum Revised		28%

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Prof & HOD

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Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Aagadtantra

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Agadatantra MD Ayurved final year course curriculum is revised for following course. Agadatantra It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	**Post graduate Course attributes-** Agadatantra Program Outcome ➤ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome ➤ Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Agadatantra Following recommendations are recommended for Agadatantra subject for incorporations in teaching learning method ➤ Problem based teaching learning. Vishdravya & its application ➤ Simulation based learning Models of various Visha ➤ Application based teaching learning/Clinically Oriented teaching learning.	10%
Total Curriculum Revised		28%

Chairman

Prof & HOD

DR. SWATI SURENDRA MOHITE

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Swasthvrutta

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Pre Ph. D. Course work curriculum is revised for three Ph. D. Courses. Swasthvrutta MD Ayurved final year course curriculum is revised for following course. Swasthvrutta It is recommended to implement the revised course curriculum from academic year 2022-23.	10%
Outcome-based Education	**Post graduate Course attributes-** Swasthvrutta Program Outcome ➤ Evaluation based on Clinical Oriented knowledge and is to be incorporated. Course outcome Evaluation based on Fundamental and Scientific understanding regarding knowledge of related descriptions in Samhita regarding the specialty concerned is to be incorporated.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	Following recommendations are recommended for Swasthvrutta subjects for incorporations in teaching learning method ➤ Problem based teaching learning. Hospital bed side clinics ➤ Self- directed learning & teaching ➤ Application based teaching learning/Clinically Oriented teaching learning. Performing various Ayurvedic & Modern procedures.	10%
Total Curriculum Revised		28%

Chairman

Prof & HOD

DR. SWATI SURENDRA MOHITE

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Samhita Sidhanta

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

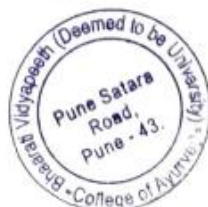| Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	• Ph. D. Course work curriculum is revised for following Ph. D. Course. **Samhita Siddhant** • M D. Ayurved Final Year Course curriculum is revised for following Course. **Ayurveda Samhita evam Siddhant** It is recommended to implement the revised course curriculum form academic year 2022-23	11%
Outcome-based Education	Post Graduate Course attributes- **Ayurveda Samhita evam Siddhant** **Programme outcomes-** • Teaching /Learning based on Clinical Oriented knowledge and is to be incorporated. **Course Outcomes-** • Teaching and Evaluation based on Fundamental and scientific understanding regarding knowledge of related descriptions in various Samhita.	4%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	**Ayurveda Samhita evam Siddhant** Following recommendations are recommended for Samhita subjects for incorporations in teaching learning method • Problem based teaching learning regarding Basic Principles described in various Samhita. Samhita Vachan Methods and teaching-learning of Sanskrit language. Application based teaching learning/Clinically Oriented teaching learning. • Comprehensive training regarding appropriate review of Samhita & its commentaries related Ayurvedic literature. • Training/Teaching related to clinical applications of the basic principles described in Samhita. Practical application of basic terminologies of Samhita. **Problem Based Learning regarding-** • Prakruti Parikshan/ Rugna Parikshan and its clinical orientation in context of Samhita.	10%
Total Curriculum Revised		28%

U. V. Tekawade

Dr. Umesh V. Tekawade
Chairman B.O.S.
Pre-Clinical Board (Faculty of Ayurved)

Bhaarati Vidyapeeth (Deemed to be University)
Pune Satara Road, Pune - 43.
College of Ayurved

(4)

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Rachana Sharir

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	• Ph. D. Course work curriculum is revised for following Ph. D. Course. **Rachana Sharir** • M D. Ayurved Final Year Course curriculum is revised for following Course. **Rachana Sharir** It is recommended to implement the revised course curriculum form academic year 2022-23	10%
Outcome-based Education	**Post Graduate Course attributes-** **Rachana Sharir** • Teaching /Learning based on Clinical Oriented knowledge and is to be incorporated. **Course Outcomes-** • Teaching and Evaluation based on Fundamental and scientific understanding regarding the structures described in various Samhita. **Programme outcomes-** • Practical Knowledge of Cadaveric Dissection. • Practical Knowledge of preparation of Specimens. • Hands on Training for Surface Anatomy/Surface Marking. **Course Outcomes-**Clinical Orientation of the topics of the Curriculum. Comprehensive Knowledge of related modern Medical aspects of Anatomy. Skill development regarding Clinical Correlations of the descriptions described in Sushrut Samhita related to Sharir.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	**Rachana Sharir** Following recommendations are recommended for Rachana Sharir subject for incorporations in teaching learning method. • Application based teaching learning/Clinically Oriented teaching learning. • Training/Teaching related to clinical applications of the basic principles described in Samhita related to Sharir. Practical application of basic terminologies of Rachana Sharir. • Practicals /Hands on training for Dissection methodology • Radiological Anatomy including Understanding of USG	10%
Total Curriculum Revised		28%

U.V. Tekawade

Dr. Umesh V. Tekawade
Chairman B.O.S.
Pre-Clinical Board (Faculty of Ayurved)

(5)

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Kriya Sharir

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	• Ph. D. Course work curriculum is revised for following Ph. D. Course. **Kriya Sharir** • M D. Ayurved Final Year Course curriculum is revised for following Course. **Kriya Sharir** It is recommended to implement the revised course curriculum form academic year 2022-23	10%
Outcome-based Education	**Post Graduate Course attributes-** **Kriya Sharir** **Programme outcomes-** • Teaching /Learning based on Clinical Oriented knowledge and is to be incorporated. • Practical knowledge of care and usage of equipments like stethoscope, sphygmomanometer, haemoglobinometer, haemocytometer, spirometer, kymograph, thermometer etc. • Methods of estimating blood sugar, serum lipids, serum protein, serum creatinine, serum cholesterol and blood urea. Practical knowledge of care and usage of equipments like stethoscope, sphygmomanometer, haemoglobinometer, haemocytometer, spirometer, kymograph, thermometer etc. **Course Outcomes-**Clinical Orientation of the topics of the Curriculum. Comprehensive Knowledge of related modern Medical aspects of Physiology.	5%
Scheme of Assessment	Departmental Periodical Assessment/ Internal Assessment are recommended.	3%
Teaching Learning Methods	**Kriya Sharir** Following recommendations are recommended for Kriya Sharir subject for incorporations in teaching learning method **Problem Based Learning regarding-** 1. Prakruti Parikshan and its clinical orientation. 2. Orientation of Ayurvedic clinical examinations. **Laboratory Based Learning-** Modern laboratory and ayurvedic and clinical methods to assess the functional mechanism of dosha, dhatu, mala and other factors. Methods of estimating blood sugar, serum lipids, serum protein, serum creatinine, serum cholesterol and blood urea. **Simulation Based Learning-** Basics of Biophysics & Biochemistry	10%
Total Curriculum Revised		28%

U.V. Tekawade

Dr. Umesh V. Tekawade
Chairman B.O.S.
Pre-Clinical Board (Faculty of Ayurved)

(6)

Faculty of Homeopathy

Name of the Programme: BHMS

FACULTY OF HOMEOPATHY	
Stake holder	**Suggestions**
Student	• Knowledge of **Materia medica of Homeopathy** with **applicability with current scenario** be imparted along with **comparison with other pathies.**
Teachers	• **Clinical practice of Pure Homeopathy** medicines in day today practice for disease management should be **more elaborated.**
Alumni	• **Updates of immunization** be in included in syllabus with infectious diseases topics
Employers	• **Management of common diseases with homeopathic medicines** be imparted to students with respect to clinical exposure
Professionals	• Present **curriculum is good with content incorporating latest advancement in the subject**

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Materia Medica

Faculty of Homoeopathy

Name of program - M.D.(Hom.) MATERIA MEDICA

Programme code – 710-766

Recommendation of BOS based on stakeholder's feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	The following revisions and points must be incorporated in the curriculum revision: 1.Study of pure effects of Homoeopathic Drugs from all source books & to interpret the same. 2.Scope & Limitations of the current state of knowledge of Homoeopathic Materia medica with the demands of Clinical practice and Education. 3.Comparative study Of Homoeopathic Materia Medica in all systems of Medicine under AYUSH for integrated study to understand the Philosophical Background. 4. Posological Study with difference in way of Preparations of the Medicine – can help promote solidarity and integrity in treatment of patients under the Umbrella of BIOETHICS. 5.Study of group characteristics with remedy differentiation 6.Review of latest research conducted in Homoeopathy-Homoeopathic Pathogenetic Trial, Veterinary Homoeopathy Agro Homoeopathy 7.Observational studies to update application of Organ Remedies/Specifics. 8.Therapeutic indications drugs with special reference to rare remedies. 9.Systematic study of common diseases in medicine & its homoeopathic management.	5%
Outcome based Education	--	-
Scheme of Assessment	--	-
Teaching Learning Methods	--	-
Total Syllabus Revised		5%

DEAN
Faculty of Homoeopathy
Bharati Vidyapeeth Deemed University
Pune-411043.

Faculty of Nursing

FACULTY OF Nursing	
Stake holder	**Suggestions**
Student	• **Simulation labs would be helpful** in advance training
Teachers	• **Semester pattern** be implemented for students
Alumni	• Skill stations should be provided to ANM and PNMs
Employers	• More **clinical exposure and training sessions** should be imparted to students.
Professionals	• Present **curriculum has adequate depth of course content**

Name of the Programme: BSc Nursing

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in BSc Nursing

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content and Structure	As per the guidelines of Indian Nursing Council the semester pattern must be incorporated in the B.Sc. nursing program.	100%
Outcome-based Education	Competencies need to be identified and CO PO mapping for new semester pattern UG program to be done as early as possible.	60%
Scheme of Assessment	Outcomes based Assessment to be done.	30%
Teaching Learning Methods	For UG Program: -Laboratory Based Learning -Self Directed Learning and Teaching -Simulation-Based Learning	40%
Total Curriculum Revised	B.Sc. Nursing P.B.B.Sc. Nursing M.Sc. Nursing	100% -- --

Dr. Nilima Rajan Bhore

Chairman, B.O.S.

Dr. (Mrs.) Nilima Rajan Bhore
Dean, Faculty of Nsg. / Principal
BVDU. College of Nsg. Sangli.

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content and Structure	-As per the guidelines of Indian Nursing Council the semester pattern must be incorporated in the B.Sc. nursing program. - As per suggestions by members and subject experts some topics added in the syllabus with effect from the academic year 2022-23 in the following programs M.Sc. Medical Surgical Nursing M.Sc. Obstetrics and Gynecology Nursing M.Sc. in Child Health Nursing M.Sc. Community Health Nursing M.Sc. Mental Health Nursing	100% 3 % each program
Outcome-based Education	Competencies need to be identified and CO PO mapping for new semester pattern UG program to be done as early as possible. Outcome based assessment to be done for PG Program	60%
Scheme of Assessment	MCQs to be added for B.Sc. Nursing semester pattern. Also OSCE/OSPE for clinical skills evaluation.	30%
Teaching Learning Methods	For UG Program: -Laboratory Based Learning -Self Directed Learning and Teaching -Simulation-Based Learning For PG Program -Natural birthing methods -Skill station for ANC and PNC	40%

Dr. (Mrs.) Nilima Rajan Bhore
Dean, Faculty of Nsg. / Principal
BVDU. College of Nsg. Sangli.

Total Curriculum Revised	B.Sc. Nursing	100%
	M.Sc. Medical Surgical Nursing	3%
	M.Sc. Obstetrics and Gynecology Nursing	3%
	M.Sc. in Child Health Nursing	3%
	M.Sc. Community Health Nursing	3%
	M.Sc. Mental Health Nursing	3%

Dr. (Mrs.) Nilima Rajan Bhore
Dean, Faculty of Nsg. / Principal
BVDU, College of Nsg. Sangli.

Dr. Nilima Rajan Bhore

Chairman, B.O.S.

Faculty of Dentistry

Name of the Programme: BDS

Suggestions from the stake holder's feedback

FACULTY OF DENTISTRY	
Stake holder	**Suggestions**
Student	• Majority of the students were satisfied with the fulfillment of program and course outcome, weightage given to communication skills and creation of interest to pursue higher education.
Teachers	• Teacher training is required to include problem based and self directed learning for students
Alumni	• Internships needs to be enriched
Employers	• Clinic based exposure of students be improved for advance knowledge in implants and esthetic restoration
Professionals	• Although council derived subjects are good in syllabus, short term courses could be conducted for advancing students knowledge base.

Faculty of Pharmacy
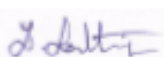
Name of the Programme: Pharm D

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in Pharm D

FACULTY OF PHARMACY	
Stake holder	**Suggestions**
Student	• Project / internships should to be for duration
Teachers	• Problem based learning abilities of students need to be encoraged
Alumni	• Project based learning on practical applications of theory be given emphasized
Employers	• Recent needs of industry's and their orientation need to be focused
Professionals	• Although council derived subjects are good in syllabus, short term courses could be conducted for advancing students knowledge base.

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	The following revisions and points must be incorporated in the curriculum revision: Recent Advances in the existing topics are included	10 %
Outcome-based Education	Identification of Postgraduate attributes Programme Outcomes, Course Outcomes and Mapping of CO-PO	5 %
Scheme of Assessment	Outcomes based Assessment to be done.	5 %
Teaching Learning Methods	Problem Based Learning Laboratory Based Learning Simulation-Based Learning	10 %
Total Curriculum Revised		30%

Dr. L. Sathiyanarayanan
Chairman, Board of studies in Pharmacy.

Faculty of Management Studies

Name of the Programme: MBA General, MCA, BBA, BCA

FACULTY OF MANAGEMENT STUDIES	
Stake holder	**Suggestions**
Student	• Foreign languages be included in management syllabus
Teachers	• Skill based application oriented topics could be incorporated in the syllabus
Alumni	• Industry based management projects be given to students
Employers	• Recent advances as per industry requirements be included in syllabus
Professionals	• Professional writing skills of the students be improved

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in MBA General, MCA, BBA, BCA.

Name of the Programme: MBA General CBCS 2022

Recommendations of BOS based on Stakeholders' Feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	New Specializations were introduced and MOOCs are incorporated. **MOOCs** Semester –I MOOCS- 4 Credit Semester –II MOOCS- 8 Credit Semester –III MOOCS- 8 Credit **Introduced New specialization(4)** • Business Analytics • Event Management • Hospitality Management • Sports Management	15 %
Outcome-based Education	The said syllabus includes **Graduate/Postgraduate attributes/Competencies, Programme Outcomes, Course Outcome**s etc.	8 %
Scheme of Assessment	Outcomes based Assessment through the suggested components of CES/CCA, 1. Online Case Study 2. On line Test 3. Online Assignment 4. Online Business plan 5. Online Quiz 6. Online Presentations	5 %
Teaching Learning Methods	**The following teaching learning methods are incorporated:** Problem Based Learning	12 %

	Laboratory Based Learning Self-Directed Learning and Teaching	
Total Curriculum Revised		40 %

Dr. Sachin S Vernekar
Dean FMS BVDU &
Director IMED, PUNE

Name of the Programme: Master of Computer Application CBCS 2022

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	**Curriculum Revision:** Considering the need of the industry and students, one specialization is introduced and **Open courses** are incorporated in the syllabus which includes MCA Sem I **New specialization** Data Management **Open Courses:**	15 %
	1 **Universal Human Values (UHV)**	
	2 **Cyber Security**	
	3 **Soft Skills**	
	MCA Sem II	
	1 **Foreign Language**	
	2 **Digital Technology**	
	3 **Human Psychology at Workplace**	
	MCA Sem III	
	1 **Social Change in Technology**	
	2 **Water Management**	
	3 **Economics for IT Industry**	
	MOOCS-with 4 Credit is added in Semester –I, II & III	
Outcome-based Education	The said syllabus includes **Graduate/Postgraduate attributes/Competencies, Programme Outcomes, Course Outcomes etc.**	5 %
Scheme of Assessment	Outcomes based Assessment through the suggested components of CES/CCA,	3 %

	1. On line Quizzes/Test	
	2. Online Assignment	
	3. Online Presentations	
	4. Mini Projects	
	5. Information Technology Case Studies	
Teaching Learning Methods	IT Problem Based Learning Laboratory Based Learning Self-Directed Learning and Teaching	12 %
Total Curriculum Revised		35 %

Dr. Sachin S Vernekar
Dean FMS BVDU &
Director IIMED, PUNE

Name of the Programme: BBA CBCS 2022

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	BBA (Honors) Four Year Degree Program was introduced. Exit options are made available for students New Specializations were introduced and MOOCs are incorporated. **MOOCs** Semester –I MOOCS- 4 Credit Semester –II MOOCS- 8 Credit Semester –III MOOCS- 8 Credit **Introduced New specialization(4)** • Business Analytics • Event Management • Hospitality Management • Sports Management	10 %
Outcome-based Education	The said syllabus includes **Graduate/Postgraduate attributes/Competencies, Programme Outcomes, Course Outcomes etc.**	8 %
Scheme of Assessment	**Scheme of Examination:** For BBA Three Year / BBA (Honors), Courses having Internal Examinations (IA) and University Examinations (UE) shall be evaluated by the respective constituent units and the University at the term end for 40 (Forty) and 60 (Sixty) Marks respectively Outcomes based Assessment through the suggested components of CES/CCA, a) Class Tests b) Presentations c) Assignments d) Case studies	5 %

	e) Field Assignments and f) Mini Project	
Teaching Learning Methods	**The following teaching learning methods are incorporated:** Problem Based Learning Laboratory Based Learning Self-Directed Learning and Teaching	10 %
Total Curriculum Revised		33 %

Dr. Sachin S Vernekar
Dean FMS BVDU &
Director IMED, PUNE

Name of the Programme: BCA CBCS 2022

Recommendations of BOS based on Stakeholders' feedback for Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	Curriculum revision: The Programme Structure is designed as per new NEP Guidelines. • The programme is designed to offer 3 year (Bachelor's degree) and 4-year (Honors Degree) • The programme has multiple entry and exit points. Considering the need of the industry and student **new courses** are in the syllabus which includes 1. Organization of IT Business 2. Human Universal Values 3. Language – I 4. Web Development Technology 5. Data Structures using C 6. Lab on Web Development Technology 7. Start-up Management 8. Yoga & Meditation 9. Advanced JAVA 10. Advanced HTML with Javascript and CSS 11. Lab on HTML, Javascript and CSS & Minor Project – I 12. Basic Python Programming 13. Dot Net programming using C# 14. Entrepreneurship Development 15. Lab on Python 16. IT based Aptitude 17. Human Rights 18. Lab on Data Visualization 19. Digital marketing 20. Indian Culture 21. Cloud Computing 22. Mobile Application Development 23. Internet of Things 24. Research Methodology 25. Lab on IOT 26. Technical Writing	25 %

	27. Professional Ethics 28. IPR 29. Dissertation	
Outcome-based Education	The said syllabus includes **Graduate/Postgraduate attributes/Competencies, Programme Outcomes, Course Outcomes etc.**	5 %
Scheme of Assessment	Outcomes based Assessment through the suggested components of CES/CCA, 1. On line Quizzes/Test 2. Online Assignment 3. Online Presentations 4. Mini Projects 5. Information Technology Case Studies	3 %
Teaching Learning Methods	Computational Problem Solving Computational Case Studies	7 %
Total Curriculum Revised		40 %

Dr. Sachin S Vernekar
Dean FMS BVDU &
Director IMED,PUNE

5) To discuss on Syllabus revision MBA, MBA (HR), BBA, BCA

✓ Dr.S.B.Sawant (Chairman-HR & Communication) requested to attendee to give their suggestions on revision of syllabus of all programees under FMS. At the same time he brought in to notice of attendee that we should take in to consideration study material prepared and online material prepared of previous syllabus while framing new syllabus.

✓ Dr.Alaskar and Dr Pratap Desai informed attendee that as per New Education Policy we have to do necessary changes in syllabus.

✓ Dr. Ajit More suggested that in case of core subjects their will not be more changes in syllabus only 10% to 20% changes will be there. We can do more changes in case of specializations.

✓ Dr.Pallavi Jamsandikar (Chairman-Computer Applications) asked to take review of study material prepared and accordingly we will do necessary changes in syllabus.

✓ Dr. Broto Bhardwaj suggested to add skill based and application oriented subjects in syllabus for improving quality of students and Placements.

✓ Dr.Vinod Ingawale requested attendee to forward their suggestion with due justifications on Syllabus revision MBA, MBA (HR), BBA, BCA.

6) To discuss on revision of PhD Syllabus.

✓ Dr.S.B.Sawant (Chairman-HR & Communication) briefed about present structure and syllabus of Ph.D. programme and what changes need to brought as per UGC

✓ Dr. B.R. Patil keep his view on why there is need to keep Management Concepts subject in syllabus of Ph.D. when subject is already taught during MBA.

✓ Dr.Rajesh Kante informed attendee that though name of subject is Management Concepts but we are adding 'Recent Trends in Management' in this subject.

✓ Dr.Pallavi Jamsandikar (Chairman-Computer Applications) suggested to organize FDP on How to write Research Proposal during Ph.D.Course Work examination.

Item 4: Addition of French, German and Korean language in BBA,BCA,MBA,MBA(HR) and MCA Syllabus.

Discussion: The members had constructive discussion on Addition of French, German and Korean language in BBA,BCA,MBA,MBA(HR) and MCA Syllabus.

Resolution: It is agreed unanimously to add French, German and Korean language in BBA,BCA,MBA,MBA(HR) and MCA Syllabus.

The meeting ended with vote of thanks by Prof. Dr.Yogesh Gurav.

Prof. Dr.Vinod Ingawale

(Chairman- BOS Business Administration)

Name of the Programme: BSc (H&HA) and BHMCT

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in BSc (H&HA) and BHMCT

Recommendations of BOS based on Stakeholders feedback for

B.Sc. (H&HA) and BHMCT CBCS (2018) Curriculum Revision

Areas of Curriculum Revision	Recommendation of BOS	Percentage of Curriculum Revised
Course Content	1. The following new subjects with additional content to be incorporated related to Food Production department: • Food commodities Semester I for B.Sc. (H&HA) and BHMCT. • Bakery component to be added to Advance food production and Kitchen management in the Semester-VI for B.Sc. (H&HA) and Semester-VII for BHMCT. 2. The following new subjects with additional content to be incorporated related to Food and Beverage department: • The content of Alcoholic Beverages-I & II to be increased with detailing added with respect to types, properties, brands and uses of alcoholic beverages. The provision has been made to increase the Hands-on skills for Cocktail making in the practical module for the mentioned subjects. • The Bar operations component to be added to Food and Beverage Operations and Management in the Sem-VI for B.Sc. (H&HA) and Sem-VII for BHMCT. 3. The following new subjects with additional content to be incorporated related to Rooms division department with division of the course into 2 distinct departments: House Keeping and Front Office:	20%

B.Sc. (H&HA)	BHMCT
Semester-I Basic Housekeeping operations Basic Front office operations	Semester-I Basic Housekeeping operations Basic Front office operations
Semester-II Managing Housekeeping operations Managing Front office operations	Semester-II Managing Housekeeping operatio... Managing Front office operations
Semester-IV Allied Housekeeping functions Front office Accounting	Semester-III Allied Housekeeping functions Front office Accounting
Semester-V Accommodation Operations	Semester-V Accommodation Operations

	Semester-VI Accommodation Operations	Semester-VII Accommodation Operations	

	5. It was unanimously decided to introduce the following Value added courses in the AY 2018-2019:
	    • Effective Team Management in Hospitality
	    • Contemporary Flower Arrangement
	    • Fruit and Vegetable Carving
	
	6.The Industrial Training Schedules for B.Sc.(H&HA) and BHMCT to be finalized as follows:
	
	    It is proposed that - BHMCT students should undergo industrial training in semester IV and semester VIII so that they are exposed to the industry in Summer as well as Winter months.
	
	    It is proposed that- B.Sc.(H&HA) students should undergo industrial training in semester III. Specialization subjects to be introduced in semester V so that they can choose their area of interest after hands-on experience from Industrial training.		

Outcome – based Education	New Programme Outcomes and Course Outcomes are Designed		5%
Scheme of Assessment	Outcome based Assessment		-
Teaching Learning Methods	Laboratory Based Learning Problem Based Learning Simulation- Based Learning		5%
Total Curriculum Revised			30%

Faculty of Engineering

FACULTY OF ENGINEERING	
Stake holder	**Suggestions**
Student	• Latest trends in the field be included in the syllabus
Teachers	• More E-resources be included in teaching learning for better understanding of students
Alumni	• Guest lectures from expert should be arranged for updates in technology
Employers	• Recent industry needed practical skills be taught to students
Professionals	• Advance courses should be taught to students

Name of the Programme: B. Tech. Electrical and Computer Engineering

Recommendation of BOS based on Stakeholders' feedback for curriculum revision in B. Tech. Electrical and Computer Engineering