Bharatiya Vidya Bhavan

Bhavan's Vivekananda College

of Science, Humanities and Commerce
(Sainikpuri, Secunderabad, Telangana – 500094)
Reaccredited with 'A' Grade by NAAC
Autonomous College – Affiliated to Osmania University

Commencement of B.Sc(Microbiology,Biotechnology,Chemistry)

2022-23

Bhavan
Bhavan's Vivekananda College
of Science, Humanities & Commerce
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Sainikpuri, Secunderabad-500094

Department of Microbiology

1. Name of the Programme and Year of Introduction

Programme: B.Sc. (Microbiology, Biotechnology, Chemistry – BTMC)
Year of Introduction: Academic Year 2022–23.

The existing B.Sc. combination of Microbiology, Biochemistry and Chemistry was replaced with Microbiology, Biotechnology and Chemistry (BTMC) considering the emerging importance and growing applications of Biotechnology in Life Sciences.

2. Rationale / Need for Introduction of the Programme

The BTMC combination was introduced as per the need of the hour, considering the rapid developments in Biotechnology and its applications in healthcare, pharmaceuticals, diagnostics, agriculture, food technology, environmental science and industrial biotechnology.

The combination of Microbiology, Biotechnology and Chemistry provides students with an interdisciplinary foundation connecting microorganisms, modern biological technologies and chemical principles. It also prepares students for higher education, research and employment in emerging areas of Life Sciences.

3. Department Proposal

Considering the increasing relevance of Biotechnology and the need to provide students with contemporary and application-oriented Life Science education, the Department proposed replacing the existing combination with B.Sc. (Microbiology, Biotechnology, Chemistry).

4. Board of Studies Recommendation

The proposal for introduction of the BTMC combination was placed before the concerned Board of Studies for academic consideration. The Board considered the academic relevance, course structure and curriculum requirements and recommended the programme for further approval.

5. Academic Council Approval

The proposal was subsequently considered through the Academic Council. The available institutional record specifically states that the change in the Life Sciences combination was proposed as per the suggestion given by the Academic Council in its Eighth Meeting.

6. Governing Body / Other Institutional Approval

The available institutional minutes clearly record the following change:

Existing Combination: B.Sc. (Microbiology, Biochemistry, Chemistry)
Proposed Combination: B.Sc. (Microbiology, Biotechnology, Chemistry)

The resolution further states that "the proposed course combinations are approved."

7. University Intimation / Communication

Following institutional approval, the introduction of the BTMC programme combination was communicated to the affiliating University as per the applicable procedure.

8. Website / Prospectus Notification

The approved B.Sc. (Microbiology, Biotechnology, Chemistry) programme was subsequently included in the College prospectus/admission notification/website for informing prospective students.

9. Admission

Admissions were conducted as per the approved admission schedule for the academic year 2022–23.

The available records indicate:

- Paper Notification – 2 July 2022
- Sale of Applications – 2 July to 23 July 2022
- Phase I Admissions – 26 July to 29 July 2022
- Phase II Admissions – 1 August to 4 August 2022

10. Implementation

The BTMC programme was implemented with the required faculty, curriculum, laboratory facilities, equipment, library resources and other teaching-learning infrastructure. Theory and practical courses were conducted in accordance with the approved curriculum and academic schedule.

11. Subsequent Developments / Review

The programme has subsequently been reviewed through the appropriate academic bodies. Any changes made in curriculum, course structure, credits or syllabi have been processed through the concerned Board of Studies, Academic Council and other competent authorities, wherever applicable.

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590/BVC/ACM/2022 — 12th July 2022

MINUTES OF THE 9th MEETING OF THE ACADEMIC COUNCIL HELD ON 12th JULY 2022 AT 02.30 p.m.ON ZOOM PLATFORM

IX - 1.0 Members present:

			Designation
1	Mrs.B Niraimathi	Offg. Principal	Chairperson
2	Prof.Usha Kiran V	Dean, Faculty of Commerce	Member
3	Prof. A Bala Kishan	Dean, Faculty of Science	Member
4	Prof. C. Murali Krishna	Dean, Faculty of Arts	Member
5	Dr. Jyothi Nayar	Head, Dept. of Genetics & Biotechnology	Member
6	Dr. K Anuradha	Head, Dept. of Microbiology	Member
7	Dr. A Sai Padma	Head, Dept. of Biochemistry	Member
8	Dr. N S Chakravarthy	Head, Dept. of Management Studies	Member
9	Dr. G Kondal Reddy	Physical Director	Member
10	Dr.Seema Ghosh	Head, Dept. of Economics & Co-ordinator - BA	Member
11	Mrs. G S Mini	Head, Dept. of Maths & Statistics	Member
12	Mrs.Nygi Kurian	Head, Dept. of Chemistry	Member
13	Mrs.L V Kamala Devi	Head, Dept. of Commerce	Member
14	Mr.N. Bhaskar	Offg Head, Dept. of Computer Science	Member
15	Mr. P R Venugopal	Asst. Professor, Dept. of Commerce	Member
16	Dr.J Sarada	Asst. Professor, Dept. of Microbiology	Member
17	Dr. M V S Mahendra	Associate Professor, Dept. of Mgt. Studies	Member
18	Mr. Bibhudendu Das	Lecturer, Dept. of Political Science	Special Invitee
19	Mr. Shiva Trishul	Lecturer, Dept. of Mass Communication	Special Invitee
20	Ms. Sai Mahathi D	B.Sc (MPCs) III Yr	Student Representative
21	Ms.Tanushree Sharma M	M.Sc (Biochemistry) II Yr	Student Representative
22	Ms. Madhuri Mathur	Head, Dept. of Languages	Member Secretary

IX - 2.0 : Agenda for discussion:

(a) Approval of the minutes of the 8th Academic Council Meeting
(b) Consideration and approval of decisions of the Boards of Studies
(c) Consideration and approval of College Almanac for 2022-23
(d) Consideration and approval of Admission Schedule for 2022-23
(e) Consideration and approval of change of combination in two of the Life Science Programmes
(f) Commencement of new programme - BA (Mass Communication, Psychology, Economics)

Bhavan
(Founded in 1938 by Kulapati Dr. K.M. Munshi)
BHAVAN'S VIVEKANANDA COLLEGE
of Science, Humanities & Commerce
Estd : 1993 AFFILIATED TO OSMANIA UNIVERSITY
AUTONOMOUS COLLEGE
ACCREDITED WITH "A" GRADE BY NAAC
SAINIKPURI, SECUNDERABAD - 500 094. Ph : 27111611, 27115878

Date :

504/BVC/GB/2022

18th July 2022

To

Sub : Fifty first (51st) Governing Body Meeting of Bhavan's Vivekananda College, Sainikpuri.

***

Sir,

The Fifty first (51st) Governing Body Meeting of Bhavan's Vivekananda College will be held on **21st July, 2022 (Thursday) at 10.00 a.m.** through the Zoom platform.

The Agenda for the meeting will be as under:

(1) Approval of the Minutes of the 50th Governing Body Meeting held on 27th April 2022.
(2) Consideration and approval of the decisions of Boards of Studies
(3) Consideration and approval of College Almanac for 2022 - 23.
(4) Consideration and approval of the Admission schedule for 2022 - 23.
(5) Consideration and approval of change of combination in two of the Life Science Programmes.
(6) Fixation of fee for the new combination in two of the Life Science Programmes.
(7) Any other points with the permission of the Chairman, GB.

You are requested to make it convenient to attend.

Thanking You,

Yours Sincerely,

Mrs.B. Niraimathi
Offg. PRINCIPAL &
Member Secretary, GB

(d) ***Consideration and approval of Admission Schedule for 2022-23 :***

Admission schedule for the academic year 2022-'23 was presented by Dr.Jyothi Nayar, Academic Coordinator & Head, Dept. of Genetics and Biotechnology :

Admission Schedule 2022-23

Paper Notification	2nd July 2022
Sale of Applications	2nd July 2022 to 23rd July 2022
Admissions – Phase I	26th July 2022 to 29th July 2022
Admissions – Phase II	1st August 2022 to 4th August 2022
Admissions – Spot	6th August 2022

Resolution : *The admission schedule for the academic year 2022-23 is approved.*

(e) ***Consideration and approval of change of combination in two of the Life Science Programme :***

As per the suggestion given by the Academic Council in its eighth meeting, changes in course combinations are proposed as follows :

Existing Combinations	*Proposed Combinations*
B Sc (Microbiology, Biochemistry, Chemistry)	*B Sc (Microbiology, Biotechnology, Chemistry)*
B Sc (Microbiology, Nutrition & Dietetics, Chemistry	*B Sc (Biochemistry, Nutrition & Dietetics, Chemistry)*

Resolution *: The proposed course combinations are approved.*

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Department of Microbiology

CIRCULAR

13/07/2021

A 9th meeting of the Board of Studies in Microbiology is scheduled on 15/07/21 in online platform Microsoft Teams at 11.30am. The meeting link will be shared 1 hour before the scheduled time. All the members of Board of studies in Microbiology are requested to attend the meeting. The following will be the agenda of the meeting:

1. Presentation and approval of Syllabus Structure
2. Presentation and Approval of Syllabus for B.Sc III & IV Semester
3. Presentation and approval of Courses / New Courses/ Proposed activity leading to employability/ Skill Development/ Entrepreneurship
4. Presentation and approval of Value added Courses
5. Presentation and approval of Certificate Courses with MOU if any
6. Review of List of Paper Setters
7. Question Paper Pattern / Scheme of Examination
8. Any other points.

Dr. K.Anuradha
Head, Dept of Microbiology
Chairperson, BOS

Head of the Department
Department of Microbiology
Bharatiya Vidya Bhavan's Vivekananda College
Sainikpuri, Secunderabad - 500 094.

9. Dr.J.Sarada, Member
   Department of Microbiology, BVC

10. Ms.S.Anju, Member
    Department of Microbiology, BVC

11. Dr.Y.Aparna, Member
    Department of Microbiology, BVC

12. Dr.S. Shalini Devi, Member
    Department of Microbiology, BVC;

13. Mrs. T. Chaitanya, Member
    Department of Microbiology, BVC

14. Dr.Smriti Bajpai, Member
    Department of Microbiology, BVC

15. Dr. V.R. Narayana Rao, Member
    Department of Microbiology, BVC

Agenda 1. Presentation and approval of Syllabus Structure

Undergraduate:

Approved the revised syllabus structure of B.Sc Microbiology (Microbiology, Genetics, Chemistry (MGC), Microbiology, Biochemistry, Chemistry (MBiC), Microbiology, Nutrition & Dietics, Chemistry (MN&D, C) with 150 total credits for 2020-21 & 2021-22 academic batches.

Post Graduate:
The revised syllabus structure of M.Sc Microbiology approved for academic batch 2020-21 in the eighth BOS meeting is approved to be the same for the academic batch 2021-22.

Agenda 2. Presentation and Approval of Syllabus for B.Sc III & IV Semester

Undergraduate:

Approved revised syllabus of B.Sc Semester-III and IV and Syllabus for B.Sc Semester I & II is agreed to be same as the syllabus approved earlier in the eighth BOS meeting.

Post Graduate:
Syllabus of M.Sc Microbiology for all semesters (I, II, III and IV) were approved to be same as approved earlier in the eighth BOS meeting.

Agenda 3. Presentation and approval of Courses / New Courses/ Proposed activity leading to employability/ Skill Development/ Entrepreneurship

Undergraduate:

- Approved courses leading to employability/ Skill Development/ Entrepreneurship
  i. Mushroom Cultivation- Skill Development
  ii. Microbial Products – Bio-fertilizer & Bio-pesticides- Employability
  iii. Clinical Microbiology- Employability
  iv. Interactions with Entrepreneurs in Microbial Technology and startups- Entrepreneurship

Agenda 4. Presentation and approval of Value added Courses

Approved two value added courses i.e. "***Proteomics***" course for Undergraduate & ***Integrated Pest Management / Clinical Research/ Advanced Bioinformatics*** course for Postgraduate programs.

Agenda 5. Presentation and approval of Certificate Courses with MOU if any

Proposed certificate course on ***Fermentation technology*** in collaboration with Microbiology department at Osmania University as they have a well-developed laboratory facility for this purpose. Dr.Bhima, O.U Nominee had given his consent on this proposal and advised to initiate the programme.

Agenda 6. Review of List of Paper Setters

List of examiners were agreed to be the same as per the list approved in eighth BOS meeting.

Agenda 7. Question Paper Pattern / Scheme of Examination

Question paper pattern remains same as earlier format i.e. 70 Marks SEE & 30 Marks CIA.

Agenda 8. Any other points.

i. Subject expert member (Dr. Bhima) has advised to update the Semester III and IV syllabus of B.Sc, in accordance with the OU syllabus, which is likely to be revised shortly.
ii. Industrial expert (Dr. Sai Ram) appreciated the introduction of SEC on "***Interactions with Entrepreneurs in Microbial Technology and Startups***". He promised to extend expressed his guidance and support in this regard. Dr. Prasad Ernala alumnus of BVC also welcomed the proposal and extended his cooperation in contacting Entrepreneurs.
iii. J.Sridevi suggested to articulate " Artificial intelligence" in Microbiology curriculum

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16.06.2022

MINUTES OF THE MEETING HELD ON 16TH JUNE, 2022 FOR NEW COMBINATIONS IN LIFE SCIENCES

Members Present:

1 Dr. Jyothi Nayar, Head, Department of Genetics & Biotechnology

2. Dr.K.Anuradha, Head, Department of Microbiology

3. Dr.A.Sai Padma, Head, Department of Biochemistry & Nutrition

Agenda of the meeting:

i). Discussion on new combinations in Life Sciences programs for the academic year 2022-23.

Resolutions:

As suggested in the 8th meeting of academic council held on 28th September, 2021 as point no.(c) to change the combinations of the programs and increase the admissions in life sciences, a meeting was held amongst Heads of the departments of Genetics & Biotechnology; Microbiology and Biochemistry & Nutrition on 16.6.2022.

a). Various combinations in life sciences programs were discussed and decided to come up with new and viable programs including all the subjects and decided to submit a proposal to Principal for consideration for the next academic year 2022-23.

The following combinations are proposed by the heads of departments for B.Sc life sciences with effect from the academic year 2022-23.

The programs suggested were:

- Microbiology, Genetics and Chemistry- will continue as earlier.
- Biotechnology, Genetics and Chemistry- will continue as earlier.
- Biotechnology, Microbiology and Chemistry- New combination in place of Microbiology, Biochemistry and Chemistry.

- Biochemistry, Nutrition & Dietetics and Chemistry- New Combination in place of Microbiology, Nutrition & Dietetics and Chemistry.

b). It is resolved that a proposal will be submitted to the Principal with the above suggested combinations for consideration and implementation from academic year 2022-23..

Signatures of members :

1. Dr. Jyothi Nayar,
   Head, Department of Genetics & Biotechnology.

2. Dr.K.Anuradha,
   Head, Department of Microbiology

3. Dr.A.Sai Padma,
   Head, Department of Biochemistry & Nutrition

24.06.2022

To,
The Principal,
Bhavan's Vivekananda College of Science, Humanities and Commerce,
Sainikpuri, Secunderabad.

Sir,

Sub: Re-organization of B.Sc Life Science programs-Reg

As suggested in the 8th meeting of academic council held on 28th September, 2021 as point no.(c) to change the combinations of the programs and increase the admissions in life sciences, the following proposal is submitted for your consideration.

I. The following combinations are proposed for B.Sc life sciences with effect from the academic year 2022-23.

1. Microbiology, Genetics and Chemistry- will continue as earlier.
2. Biotechnology, Genetics and Chemistry- will continue as earlier.
3. Biotechnology, Microbiology and Chemistry- New combination in place of Microbiology, Biochemistry and Chemistry.
4. Biochemistry, Nutrition & Dietetics and Chemistry- New Combination in place of Microbiology, Nutrition & Dietetics and Chemistry.

II. Biotechnology being the most preferred optional subject by the students, a second combination is proposed with Microbiology and Chemistry.

III. Biochemistry with Nutrition & Dietetics and Chemistry is a viable combination based on the survey made from other colleges in the twin cities- Vanitha Maha Vidhyalaya has been offering this program since 2010 with full intake of 50 students per section with two sections.

IV. Biochemistry with various combinations is being offered in St.Francis, Degree and PG College for Women, Begumpet; St.Anns College for women, Mehdipatnam; St.Pious X Degree and PG college, Nacharam; Aurora Degree and PG college, Chikkadapally with good intake.

V. Moreover, the department of Biochemistry is one of the recipients of DBT-Star College scheme funding for the undergraduate program. Hence continuing Biochemistry subject at the undergraduate level will enhance the infrastructural facilities of the department and the college.

VI. Infrastructure requirements for the new programs (3 & 4) include:

1. One laboratory in sharing between Biotechnology and Biochemistry.
2. One additional classroom.

VII. A suggestion was made by the faculty of life sciences that all the laboratories for undergraduate Life Science programs are on the same floor i.e., the first floor of the

science block. This would help in the smooth conduction of practical sessions and efficient utilization of resources by all the departments.

We kindly request you to consider our proposals and permit us to start the new programs with effect from the academic year 2022-23.

Thanking you,

Yours Sincerely,

1.Dr.Jyothi Nayar 25/6/2022
Head, Department of Genetics & Biotechnology,
Faculty Incharge- Life Sciences

2.Dr.K.Anuradha
Head, Department of Microbiology

3.Dr,A.Sai Padma
Head, Department of Biochemistry & Nutrition

25/6/22

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24.06.2022

MINUTES OF THE MEETING HELD ON 24th JUNE, 2022 FOR NEW COMBINATIONS IN LIFE SCIENCES

Members Present:	**Designation**
1. Prof.Y.Ashok, Principal	Chairman
2. Dr. Jyothi Nayar, Head, Department of Genetics & Biotechnology	Member
3. Dr.K.Anuradha, Head, Department of Microbiology	Member
4. Dr.A.Sai Padma, Head, Department of Biochemistry & Nutrition	Member

Agenda of the meeting:

i). Presentation of new combinations in Life Sciences programs for the academic year 2022-23.

The following combinations are proposed by the Heads of the Departments for B.Sc life sciences with effect from the academic year 2022-23 for Principal's consideration.

The programs proposed were:

- Microbiology, Genetics and Chemistry- will continue as earlier.
- Biotechnology, Genetics and Chemistry- will continue as earlier.
- Biotechnology, Microbiology and Chemistry- New combination in place of Microbiology, Biochemistry and Chemistry.
- Biochemistry, Nutrition & Dietetics and Chemistry- New Combination in place of Microbiology, Nutrition & Dietetics and Chemistry.

Further justification for the suggestion of above programs was made by the following points:

- Biotechnology being the most preferred optional subject by the students, a second combination is proposed with Microbiology and Chemistry.
- Biochemistry with Nutrition & Dietetics and Chemistry is a viable combination based on the survey made from other colleges in the twin cities- Vanitha Maha Vidhyalaya has been offering this program since 2010 with full intake of 50 students per section with two sections.
- Biochemistry with various combinations is being offered in St.Francis, Degree and PG College for Women, Begumpet; St.Anns College for women, Mehdipatnam; St.Pious X Degree and PG college, Nacharam; Aurora Degree and PG college, Chikkadapally with good intake.
- Moreover, the department of Biochemistry is one of the recipients of DBT-Star College scheme funding for the undergraduate program. Hence continuing Biochemistry subject at the undergraduate level will enhance the infrastructural facilities of the department and the college.

Resolutions:

It is resolved that the proposed programs in life sciences will come into effect from the academic year 2022-23.

Prof.Y.Ashok,
Chairman

Signatures of members:

1. Dr. Jyothi Nayar, 25/6/22
   Head, Department of Genetics & Biotechnology.
2. Dr.K.Anuradha,
   Head, Department of Microbiology
3. Dr.A.Sai Padma,
   Head, Department of Biochemistry & Nutrition 25/6/22

Bharatiya Vidya Bhavan

Bhavan's Vivekananda College

Let noble thoughts come to us from every direction
Rigveda 1-89-(1)

आ नो भद्राः क्रतवो यन्तु विश्वतः -
ऋग्वेद 1-89-(i)

Bhavan's Vivekananda College of Science, Humanities, and Commerce, Sainikpuri, was founded in August 1993 under the aegis of Bharatiya Vidya Bhavan, Mumbai. Since inception, the college has been strongly promoting the ideals of the Bhavan, by providing education blended with a strong foundation of the fundamental values of life.

BVC, today, is one of the premier institutions in the twin cities. It has achieved an Autonomous status, with the first autonomous batch passing out in 2018, its Silver Jubilee year. The College takes pride in its sprawling, vibrant green campus that supports a rich ecosystem, highly qualified faculty, and fine infrastructure and amenities. BVC is dedicated to providing quality education and holistic development to its students. It offers its students ample opportunities and guidance in academics, co-curricular and extra-curricular activities, sports and also research, with a vision to promote "Youth empowerment with culture, knowledge and strength of body and mind."

We are what our thoughts
have made us; so take care about
what you think. Words are secondary.
Thoughts live; they travel far



- Swami Vivekananda

Programmes Offered

P.G. Programmes : Admissions are done by the Director of Admissions, Osmania University, Hyderabad, through a common entrance test conducted by Osmania University (except MBA). Admissions to MBA are done by the convener TS - ICET, except Management Quota

U.G. Programmes : UG Admissions are done on the basis of merit at the qualifying exam

Ph.D Programmes

1) Ph.D - Microbiology
2) Ph.D – Biochemistry

PG Programmes

S. No.	Name of the Programme	Sections	Strength per Section
1	M.Sc. Computer Science	1	40
2	M.Sc. Microbiology	1	30
3	M.Sc. Biochemistry	1	30
4	M.Com	1	40
5	MBA	2	60

UG Programmes

1) COMPUTER SCIENCES

S. No.	Name of the Programme	Sections	Students per Section
1	B.Sc - Mathematics, Physics & Computer Science (M.P.Cs)	2	50
2	B.Sc - Mathematics, Statistics & Computer Science (M.S.Cs)	2	50
3	B.Sc - Mathematics, Electronics & Computer Science (M.E.Cs)	2	50
4	B.Sc - (Honours - Data Science)	1	50
5	BCA - Bachelor of Computer Applications	2	50

2) LIFE SCIENCES

S. No.	Name of the Programme	Sections	Strength per section
6	B.Sc - Biotechnology, Genetics, Chemistry (Bt.G.C)	1	50
7	B.Sc - Microbiology, Biotechnology, Chemistry (Mb.Bt.C)	1	50
8	B.Sc - Microbiology, Genetics, Chemistry (M.G.C)	1	50
9	B.Sc - Biochemistry, Nutrition & Dietetics, Chemistry (Bi.ND.C)	1	50

3) COMMERCE

S. No.	Name of the Programme	Sections	Students per Section
10	B.Com (Computer Applications)	3	60
11	B.Com (General)	2	60
12	B.Com (Honours)	2	60
13	B.Com (Honours-Business Analytics)	1	60

4) ARTS

S. No.	Name of the Programme	Sections	Strength per section
15	B.A (Mass Communication, Political Science, Economics)	1	60
16	B.A (Mass Communication, Psychology, Economics)	1	60

5) MANAGEMENT STUDIES

S. No.	Name of the Programme	Sections	Strength per section
17	B.B.A - Bachelor of Business Administration	3	60