

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI, SECUNDERABAD. Autonomous college- Affiliated to Osmania University (Accredited with 'A' grade by NAAC)

DEPARTMENT OF BIOCHEMISTRY MINUTES OF THE BOARD OF STUDIES MEETING

The 7th meeting of the Board of Studies (BoS) in the department of Biochemistry was held on 29.11.2019 at 2.30 pm in Committee room, MBA block, of the college.

The following members were present in the meeting:

- Dr. A Sai Padma, Head, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad.
- Dr. Ch.Venkata Ramana Devi Professor, Department of Biochemistry, OU, Hyderabad.
- Dr.Shasi Vardhan Kalivendi Principal Scientist CSIR-Indian Institute of Chemical Technology (Council of Scientific and Industrial Research) Tarnaka, Hyderabad.
- Dr. Rajesh Medisetty HoD, Analytical R&D Biological E Ltd, Hyderabad.
- Ms U.R.Sriveena Information Scientist DuPont, Hyderabad.
- 6. Ms.Mohammed Juweriya Tahseen M.Sc (Biochemistry) II semester
- Mrs.D.Rajani
 Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

H: Lai Jad

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 Subject Expert

University Nominee

Chairperson

Industry Expert

Alumnus

Student

Internal member

Internal member 8. Dr.S.Padma Asst. Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad. 9. Mrs.S.Vanitha, Internal member Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad. Internal member 10. Dr.S. Manju Devi Lecturer, Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad Internal member 11. Ms.M.Snigdha Lecturer, Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad

The following points were discussed as per the agenda and resolved as follows:

Review of B.Sc (Biochemistry) Curriculum of Semesters II, IV and VI:

It was decided that the syllabus of these semesters would be followed as approved in the earlier BoS meeting without any changes.

The employability of the Core/Elective Courses, SEC and GE courses of B.Sc (Biochemistry) were discussed and approved.

1. BC 234 Biomolecules-II

Good knowledge on biomolecules of proteins and nucleic acids of this paper help students to carry out related laboratory tests in food and beverage industries and other analytical labs.

2. BC434 Biochemical Techniques and Metabolism of amino acids and nucleotides

Knowledge on techniques of colorimetry, spectrophotometry, chromatography and electrophoresis help students to work with equipment available at diagnostic centres, pharma industries or set up a small scale instrumentation lab.

3. BC 634 Molecular biology

Training in isolation, estimation and analysis of nucleic acids will enable students to work in molecular biology labs.

4. BC 634A Immunology and Nutrition

Practical skills on various immunotechniques provide opportunities for employment in molecular diagnostic labs.

Estimations and analysis of various food samples enable students to fit in food analytical labs.

5. SE 434 Basic of Food and Nutrition

Students can find employability in food related industries.

6. SE 634 Computational Biochemistry

Students will find employment in contract research organizations which provides contract research & development services in the area of bioinformatics.

Review of M.Sc Curriculum of Semester II and IV:

1. BI 201 Enzymology

The syllabus provides methods of enzyme isolation, purification, kinetic parameters and catalytic mechanisms. This knowledge is useful in purifying and marketing of enzymes by biotech companies and also useful in pharmaceutical industries where drug designing is targeted towards a particular enzyme.

2. BI 202 Molecular Biology

Students find employability in molecular biology labs of commercial or research.

3. BI 203 Biochemical Genetics & Model Organisms

The topics discussed in this paper form the basis for working in genetics labs.

4. BI 204 Biostatistics & Clinical Biochemistry

Statistical data analysis will be useful in population studies and health related studies. Sound knowledge of clinical biochemistry will help in interpreting clinical investigations in diagnostic labs

5. BI 402 Bioinformatics

The students will be able to use the knowledge in retrieving, analyzing and studying evolutionary significance of nucleic acid and protein sequences across species. This paper also introduces the students to databases that are useful in computational and drug designing labs.

6. BI 403 Biotechnology

Learning basic techniques of cell culture, vaccine production, microbial fermentation and cloning techniques will make student competent to take up employment in biotech and pharmaceutical industries.

Value added courses or certificate courses

Value added course on "Clinical Laboratory Diagnostics" is proposed and approved.

Any other points:

30 classes are allotted for each of the SEC and GE courses of which 15 classes are scheduled for theory and 15 classes for field work/practical work. 2 credits are assigned for each of these courses (SEC and GE).

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Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094

The above points were approved in the meeting and will get implemented with immediate effect.

The meeting ended with vote of thanks by the chairperson.

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Signatures:

1.	Chairperson Board	of Studies: 12 Jai half
2.	University Nominee	
3.	Subject Experts:	i. Bjochemindry & Neurobiology Shaedund
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4.	Expert from Indust	ry:
5.	Alumnus:	Eleillum
6.	Members:	i. Dhagani
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The following members attended the Seventh Board of studies meeting in Biochemistry held in Committee room, MBA block on 29.11.2019 at 2.30pm.

Designation	Name of the Member	Signature
Chairperson	Dr. A Sai Padma	
	Head, Department of Biochemistry	it lai ubd
	Bhavan's Vivekananda college,	22/11/18
	Sainikpuri, Secunderabad	23/4/15
University Nominee	Dr. Ch.Venkata Ramana Devi	ChrrDun
	Professor,	OUND OUND
	Department of Biochemistry,	MUMM
2 2	OU, Hyderabad.	
Subject Expert	Dr. Shasi Vardhan Kalivendi	DA
	Principal Scientist	hen vou
	CSIR-Indian Institute of Chemical Technology	29/11/19
	(Council of Scientific and Industrial Research)	291111
	Tarnaka, Hyderabad.	
Subject Expert	Prof .N. Siva Kumar	
	Department of Biochemistry	
	School of Life Sciences, University of Hyderabad	
	Hyderabad.	
Industry Expert	Dr. Rajesh Medisetty	
	HoD, Analytical R&D	-
	Biological E Ltd, Hyderabad	
Alumnus	Ms. U. R. Sriveena	a il
	Information Scientist,	Deillem 29/11/19
	DuPont, Hyderabad	291111
Student	Ms. Mohammed Juweriya Tahseen	
	M.Sc (Biochemistry) II semester	Educetahar
Faculty Members	Mrs. D. Rajani	and
	Asst.Prof.in Biochemistry, BVC	algour
	Dr. S. Padma	c. lan-
	Asst.Prof.in Biochemistry, BVC	J. 6 00000
	Mrs.S. Vanitha	Icon alia
	Asst.Prof.in Biochemistry, BVC	2 291.
	Dr.S.Manju Devi	AT.
	Lecturer in Biochemistry, BVC	Day
	Ms. M.Snigdha	A when
	Lecturer in Biochemistry, BVC	Mysurg atully



BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI, SECUNDERABAD. Autonomous College Affiliated to OSMANIA UNIVERSITY, Hyderabad. (Accredited with 'A' grade by NAAC) DEPARTMENT OF BIOCHEMISTRY MINUTES OF THE BOARD OF STUDIES MEETING

The 6th meeting of the board of studies (BoS) in the department of Biochemistry was held on 26.04.2019 at 2.00 pm in committee room, MBA block of the college.

The following members were present in the meeting:

- Dr.A Sai Padma, Head, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Dr. Ch.Venkata Ramana Devi Professor, Department of Biochemistry, OU, Hyderabad.
- Dr.Shasi Vardhan Kalivendi Principal Scientist CSIR-Indian Institute of Chemical Technology (Council of Scientific and Industrial Research) Tarnaka, Hyderabad.
- Prof .N. Siva Kumar Department of Biochemistry School of Life Sciences, University of Hyderabad Hyderabad.
- Dr. Rajesh Medisetty HoD, Analytical R&D Biological E Ltd, Hyderabad.
- 6. Ms U.R.Sriveena Information Scientist DuPont, Hyderabad.
- 7. Ms.Mohammed Juweriya Tahseen M.Sc(Biochemistry) II semester

Chairperson

University Nominee

Subject Expert

Subject Expert

Industry Expert

Alumnus

Student

H- Jai lad

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 Mrs.D.Rajani
 Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
 Internal member

Internal member

 Dr.S.Padma Asst. Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

 Mrs.S.Vanitha, Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad. Internal member

The following points were discussed as per the agenda and resolved as follows:

- The syllabus and credit pattern of B.Sc (MBBCC) Biochemistry for 1st Year (Semesters I and II) under Choice Based Credit System (CBCS) for academic year 2019-20 was approved.
- The course objectives and course outcomes of B.Sc Ist year were discussed and got approved.
- The syllabus content of BC134 & BC134P, BC234 and BC234P for Biomolecules I and II would enable students to develop their skill for further analysis, as mentioned in the course outcomes.
- 4. The syllabus and credit pattern of Biochemistry for 2nd and 3rd years of B.Sc (MBBCC) remains same as approved in earlier BoS meetings.
- The credit pattern for 1st and 2nd year of M.Sc Biochemistry with effect from academic year 2019-20 was discussed and approved.
- The syllabus of M.Sc Biochemistry for 1st Year (Semesters I and II) under Choice Based Credit System (CBCS) for academic year 2019-20 was approved.
- The course objectives and course outcomes of 1st year of M.Sc Biochemistry was discussed and approved.
- 8. The syllabus content of all the papers of M.Sc Biochemistry of 1st Year would enable students to develop their skill for further analysis, as mentioned in the course outcomes.

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Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094

- 9. The board member from industry suggested implementation of the project as complete curriculum in the last semester for three months with no theory papers. The theory syllabus should be adjusted in other semesters.
- 10. Scheme of examination for both CIA and SEE and list of examiners was also approved.
- 11. Discussions were made on star DBT funding and suggestions were given on purchase of equipment.
- 12. The chairperson, BoS is authorized to appoint in consultation with the principal of the college, qualified examiners outside the approved panel in case of urgency. Such arrangement should however be reported to the BoS in the immediate meeting.
- 13. The changes, if any, proposed by Osmania University for CBCS credit pattern will be taken into consideration in accordance with the policy of the college.

The chairperson is authorized to act on the above items and seek the approval of members by circulation.

The meeting ended with vote of thanks by the chairperson.

B.Sc- Biochemistry CBCS syllabus:

- A. INTERNAL EXAMINATION: Max. Marks= 30
- 1. Two tests of Internal assessment with average taken: 25marks
- 2. Assignment: 5 marks
- B. EXTERNAL (SEMESTER- END) EXAMINATION:
- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =25 Duration:2 hours.

Signatures:

1.	Chairperson Board of S	tudies: al lad
2.		Chu Ripennut
3.	Subject Experts:	i. Shaquat 26(4119
		ii.
4. 5.	Expert from Industry: Alumnus:	Mr 26/04/19 (Rajesh M.) Deiller 26/4/19

6. Members:

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M.Sc-Biochemistry CBCS syllabus

A. INTERNAL EXAMINATION: Max. Marks= 30

1. Two tests of Internal assessment with average taken: 25 marks

2. Assignment: 5 marks

B. EXTERNAL (SEMESTER- END) EXAMINATION:

1. Theory: Max. Marks= 70 Duration: 3 hours.	x. Marks=	ι. 1	ory: Max. Marks=	70	Duration: 3 hours.	
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2. Practical/ Project : Max. Marks = 75/100 Duration: 4. 5/6 hours

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C. TOTAL CREDITS FOR 4 SEMESTERS (24 each)

Signatures:

Chairperson Board of Studies	- is lai lady -
University Nominee:	W RIDELLUM +
Subject Experts:	i. Straggerd 2.614117
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Expert from Industry:	M 26/04/19 (Rajesh M.)
Alumnus:	Seillun
Members:	i2614119
	ii. s. ladan 21/4/19
	III. diatalis
	iv. Jefahren
	v
	Chairperson Board of Studies: University Nominee: Subject Experts: Expert from Industry: Alumnus:

The following members attended the Sixth Board of studies meeting in Biochemistry held in the Department of Biochemistry on 26.04.2019 at 2.00pm.

Designation	Name of the Member	Signature
Chairperson	Dr. A Sai Padma Head, Department of Biochemistry Bhavan's Vivekananda college, Sainikpuri, Secunderabad	1. lai (bd)
University Nominee	Dr. Ch.Venkata Ramana Devi Professor, Department of Biochemistry, OU, Hyderabad.	chu ndeun
Subject Expert	Dr. Shasi Vardhan Kalivendi Principal Scientist CSIR-Indian Institute of Chemical Technology (Council of Scientific and Industrial Research) Tarnaka, Hyderabad.	Sharival 2614/19
Subject Expert	Prof .N. Siva Kumar Department of Biochemistry School of Life Sciences, University of Hyderabad Hyderabad.	_
Industry Expert	Dr. Rajesh Medisetty HoD, Analytical R&D Biological E Ltd, Hyderabad	MA 26/04/19
Alumnus	Ms. U. R. Sriveena Information Scientist, DuPont, Hyderabad	Deilem A6(4/19
Student	Ms. Mohammed Juweriya Tahseen M.Sc (Biochemistry) II semester	Jefancer
Faculty Members	Mrs. D. Rajani Asst.Prof.in Biochemistry, BVC	Dayan 14/19
	Dr. S. Padma Asst.Prof.in Biochemistry, BVC Mrs.S. Vanitha	S la la 2614/19
	Asst.Prof.in Biochemistry, BVC	Artylig



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The 5th meeting of the board of studies (BoS) in the department of Biochemistry was held on 31.03.2018 at 10.00am in room no 71, biochemistry block of the college.

The following members were present in the meeting:

- 1. Dr.A Sai Padma,ChairpersonHead, Department of Biochemistry,Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Dr. Karuna Rupula, Chairperson, BOS, Department of Biochemistry, Osmania University, Hyderabad.
- Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad.
- Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences, University of Hyderabad, Hyderabad.

 Dr.K Satyanarayana Vice President, R & D, Natco Pharma Ltd, Hyderabad.

 Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.

 Ms.Maria Angeleena Student, M.Sc (Biochemistry) Sem IV Special Invitee

University Nominee

Subject Expert

Subject Expert

Industry expert

Alumni student

H- Lai Dal

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 Dr.S.Padma Asst. Prof, Department of Biochemistry, Bhavan'sVivekananda college,

 Mrs.D.Rajani Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Sainikpuri, Secunderabad.

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- Mrs.S.Vanitha, Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.M.Usha Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Internal member

Internal member

Internal member

Internal member

The following points were discussed as per the agenda and resolved as follows:

- The syllabus for 3rd Year (Semesters V and VI) of B.Sc (M.Bi.C) under Choice Based Credit System (CBCS) was approved.
- The syllabus and credit pattern for 1st and 2nd year of B.Sc Biochemistry remains same as approved in earlier BoS meetings.
- Skill enhancement course (SEC-4) for B.Sc (Life sciences) was approved as Computational biochemistry.
- Generic elective course (GE –I) and Generic elective course-(GE- II) to be offered to other disciplines, by the department, were approved as Nutrition and Health & Human Physiology.
- 5. Practical exam marks of B.Sc were approved for 25 marks with 1 credit.
- The syllabus and credit pattern for 1st and 2nd year of M.Sc Biochemistry remains same as approved in earlier BoS meetings.
- 7. The examiners list was approved for both B.Sc and M.Sc.
- 8. The chairperson, BoS is authorized to appoint in consultation with the principal of the college, qualified examiners outside the approved panel in case of urgency. Such arrangement should however be reported to the BoS in the immediate meeting.
- 9. The changes, if any, proposed by Osmania University for CBCS credit pattern will be taken into consideration in accordance with the policy of the college.

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Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 The chairperson is authorized to act on the above items and seek the approval of members by circulation.

The meeting ended with vote of thanks by the chairperson.

B.Sc- Biochemistry CBCS syllabus:

- A. INTERNAL EXAMINATION: Max. Marks= 30
- 1. Two tests of Internal assessment with average taken: 25marks
- 2. Assignment: 5 marks
- B. EXTERNAL (SEMESTER- END) EXAMINATION:
- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =25 Duration:2 hours.

Signatures:

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1.	Chairperson Board of S	Studies:	A: Jai Odu 31/3/18.
2.	University Nominee:		Canter
3.	Subject Experts:	i	5 Fla. 21/3
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4.	Expert from Industry:		<u>.</u>
5.	Alumnus:		ANIA 31:03.2018
6.	Members:	i	S. Jackman Jalls
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M.Sc- Biochemistry CBCS syllabus

- A. INTERNAL EXAMINATION: Max. Marks= 30
 - 1. Two tests of Internal assessment with average taken: 25 marks
 - 2. Assignment: 5 marks

B. EXTERNAL (SEMESTER- END) EXAMINATION:

- 1. Theory: Max. Marks= 70.
- 2. Practical/Project : Max. Marks = 75/100.

Duration: 3 hours. Duration: 5/6 hours.

C. TOTAL CREDITS FOR 4 SEMESTERS (24 each)

Signatures:

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1.	Chairperson Board of Studies:	A- bi bdy
2.	University Nominee:	Cant
3.	Subject Experts:	i. f(h 3)] ?
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4.	Expert from Industry:	
5.	Alumnus:	An Elist vors
6.	Members:	i. S. Vadment 3/18
		ii. 20 ym 21/3/18
		III. dis 18
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		v. A. Deniardnez.

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The following members attended the fifth Board of studies meeting in Biochemistry held in the Department of Biochemistry on 31. 03.2018 at 10.00 am.

Designation	Name of the Member	Signature
Chairperson	Dr. A Sai Padma, Head, Department of Biochemistry Bhavan's Vivekananda college, Sainikpuri, Secunderabad	A- lai Adu
University Nominee	Dr.Karuna Rupula Chairperson, BOS, Department of Biochemistry, Osmania University, Hyderabad.	Jaun 2018
Subject Expert	Dr.V Vijayalakshmi, Scientist F, HOD, Stem Cell Biology, National Institute of Nutrition, Hyderabad.	Absent-
Subject Expert	Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences, University of Hyderabad, Hyderabad.	P. 21/2/2018-
Industry expert	Dr.K Satyanarayana Vice President, R & D, Natco Pharma Ltd. Hyderabad.	Absent-
Alumnus	Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.	1100 - 2018 31-03-2018
Special invitee	Ms.Maria Angeleena Student representative, M.Sc (Biochemistry) Sem IV	N. Okuinotros
Faculty members	Dr.S.Padma	S. Ladman 31/2/18
	Mrs.D.Rajani	201 ayann 211 31 2018
	Mrs.S.Vanitha	25/25/18
	Mrs.M.Usha	(By 213/18

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BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI, SECUNDERABAD. Autonomous College Affiliated to OSMANIA UNIVERSITY, Hyderabad. (Accredited with 'A' grade by NAAC) DEPARTMENT OF BIOCHEMISTRY MINUTES OF THE BOARD OF STUDIES MEETING

The 4th meeting of the board of studies (BoS) in the department of Biochemistry was held on 24.03.2017 at 2.00 pm in the department of the college.

The following members were present in the meeting:

- Dr.A Sai Padma, Head, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Prof. Ch. Venkataramana Devi, Chairperson, BOS, Department of Biochemistry, Osmania University, Hyderabad.
- Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad.
- Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences, University of Hyderabad, Hyderabad.
- Dr.K Satyanarayana DGM, R & D, Natco Pharma Ltd, Hyderabad.
- Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.
- Dr.S.Padma Asst. Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094

University Nominee

Chairperson

Subject Expert

Subject Expert

Industry expert

Alumni student

Internal member

Internal member

- Mrs.D.Rajani
 Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.S.Vanitha, Asst.Prof, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.M.Usha Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Internal member

Internal member

The following points were discussed as per the agenda and resolved as follows:

- The syllabus for 2nd Year of B.Sc (M.Bi.C) under Choice Based Credit System (CBCS) was approved and is the same as the syllabus approved under non-CBCS in the BoS meeting, held on 19.03.2016.
- 2. The syllabus and credit pattern for 2nd year (Semesters III and IV) of M.Sc Biochemistry under CBCS was approved for both theory and practicals.
- Skill enhancement courses (4) for B.Sc (M.Bi.C) were approved as Basics of Food and Nutrition, Medical Diagnostics, Automation and Clinical Laboratory Informatics and Enzyme Purification Methods.
- 4. Skill enhancement course for M.Sc was approved as Clinical Laboratory Diagnostics.
- Generic elective course to be offered by the department was approved as Nutrition and Diet Planning.
- 6. The examiners list was approved for both B.Sc and M.Sc.
- 7. The chairperson, BoS is authorized to appoint in consultation with the principal of the college, qualified examiners outside the approved panel in case of urgency. Such arrangement should however be reported to the BoS in the immediate meeting.
- 8. The changes proposed by Osmania University for CBCS credit pattern will be taken into consideration in accordance with the policy of the college.

The chairperson is authorized to act on the above items and seek the approval of members by circulation.

The meeting ended with vote of thanks by the chairperson.

A fai by

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpyn, Secunderabad-500 094 The following members attended the fourth Board of studies meeting in Biochemistry held in the Department of Biochemistry on 24. 03.2017 at 2.00 pm.

Designation	Name of the Member	Signature
Chairperson	Dr. A Sai Padma,	
-	Head, Department of Biochemistry	1- Lai lady
	Bhavan's Vivekananda college,	24/3/17
	Sainikpuri, Secunderabad	21/10
University Nominee	Prof. Ch. Venkataramana Devi,	
·····	Chairperson, BOS,	01
	Department of Biochemistry,	Chr mannun
	Osmania University, Hyderabad.	0.01.01.01
Subject Export	Dr.V Vijayalakshmi,	N N
Subject Expert	Scientist F, HOD,	
	Stem Cell Biology, National Institute of Nutrition,	1 A A
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Cubic at Free out	Hyderabad. Dr.Krishnaveni Mishra,	
Subject Expert	Associate Professor,	
		· el de
	Department of Biochemistry,	T Com
	School of Life sciences,	
	University of Hyderabad,	
	Hyderabad.	
Industry expert	Dr.K Satyanarayana	O. Ltown
VILE Mosily	∼ DGM , R & D,	C Sanger / -
•	Natco Pharma Ltd.	0, ,
	Hyderabad.	
Alumnus	Dr.P.N.B.S. Srinivas,	
	Scientist – II,	Mr. or vort
	R & D, Shantha Biotechnics Limited,	(NV2. 3. 10
	Post Box No.4, Medchal,	24
	Hyderabad – 501 401.	V
Faculty members	Dr.S.Padma	S. Padina
		- 1
	Mrs.D.Rajani	D Cyprin -
		24[3]17
	Mrs.S.Vanitha	545212
		0 24/21.1
	Mrs.M.Usha	Ana.
		24/3/17

B.Sc. CBCS Biochemistry syllabus (wef. 2017-18)

- A. INTERNAL EXAMINATION:
- 1. Theory: Max. Marks= 30. Duration: 1 hour
- B. EXTERNAL (SEMESTER- END) EXAMINATION:
- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =50. Duration: 3 hours.

Signatures:

1.	Chairperson Board of Studies: A bi (bdu
2.	University Nominee: <u>Chry politication</u>
3.	Subject Experts: i
	iiMetvu
4.	Expert from Industry/Alumnus: k. Stymmy
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5.	Members: i
	11. S. Padman 112
	III. Symme sylistic
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M.Sc. CBCS Biochemistry syllabus (wef. 2017-18)

- A. INTERNAL EXAMINATION:
 - 1. Theory: Max. Marks= 30. Duration: 1 hour

B. EXTERNAL (SEMESTER- END) EXAMINATION:

- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =75/100. Duration: 5/6 hours.

C. TOTAL CREDITS FOR SEMESTERS III & IV : 48 (24 each)

Signatures:

1.	Chairperson Board of Studies:	A- Lai Jody
2.	University Nominee:	Chy noturne
3.	Subject Experts:	i
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4.	Expert from Industry/Alumnus:	Q- Cityunang -
5.	Members:	New moz 2017
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		24/3/17



BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI, SECUNDERABAD. Autonomous College Affiliated to OSMANIA UNIVERSITY, Hyderabad. (Accredited with 'A' grade by NAAC) DEPARTMENT OF BIOCHEMISTRY MINUTES OF THE BOARD OF STUDIES MEETING

The 3nd meeting of the board of studies (BoS) in the department of Biochemistry was held on 27.06. 2016 at 11.00 am in the department of the college.

The following members were present in the meeting:

- Dr.A Sai Padma, Head, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad.
- Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad.
- Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences, University of Hyderabad, Hyderabad.
- Dr.K Satyanarayana DGM, R & D, Natco Pharma Ltd, Hyderabad.
- Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.
- Dr.S.Padma Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Head, Dept. of Bio

Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 Chairperson

University Nominee

Subject Expert

Subject Expert

Industry expert

Alumni student

Internal member

CHAIRMAN Board of Studies in Biochemistry Department of Biochemistry Osmania University

- Dr.M.K.Sukumaran, Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.D.Rajani Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.S.Vanitha, Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Internal member

Internal member

Internal member

The following points were discussed as per the agenda and resolved as follows:

- 1. The syllabus and credit pattern for 1st year of B.Sc (M.Bi.C) semesters I and II for CBCS is approved for both theory and practicals effective from the academic year 2016-17.
- The syllabus and credit pattern for 1st year of M.Sc Biochemistry semesters I and II for CBCS is approved for both theory and practicals effective from the academic year 2016-17.
- 3. The question paper pattern for theory and practical is remains same as got approved in the last BoS meeting that was held on 16.06.2015 for both B.Sc and M.Sc.
- 4. The examiners list remains same as approved in the last BoS meeting that was held on 16.06.2015 for both B.Sc and M.Sc.
- 5. The chairperson, BoS is authorized to appoint in consultation with the principal of the college, qualified examiners outside the approved panel in case of urgency. Such arrangement should be put up for ratification in the next BoS meeting.
- 6. The changes proposed by Osmania University for CBCS credit pattern will be taken into consideration in accordance with the policy of the college.

The chairperson is authorized to act on the above items and seek the approval of members by circulation.

The meeting ended with vote of thanks by the chairperson.

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 CHAIRMAN CHAIRMAN Board of Studies in Biochemistry Department of Biochemistry Osmania University Osmania University Hurderabad-500 007. Telangana The following members attended the third Board of studies meeting in Biochemistry held in the Department of Biochemistry on 27. 6.2016 at 11.00 am.

Designation	Name of the Member	Signature
Chairperson	Dr.A Sai Padma,	Λ
	Head, Department of Biochemistry	A- Lai Jady
10	Bhavan's Vivekananda college,	N=
	Sainikpuri, Secunderabad	
University Nominee	Prof. S Satyanarayan Singh,	1
	Chairman, BOS,	Cashap
	Department of Biochemistry,	Sivi
	Osmania University, Hyderabad.	
Subject Expert	Dr.V Vijaylaxmi, Dr Vijoyalalishu V.	
, ,	Scientist F, HOD,	
	Stem Cell Biology,	Not al
	National Institute of Nutrition,	WIT
	Hyderabad.	
Subject Expert	Dr.Krishnaveni Mishra,	
	Associate Professor,	N L
	Department of Biochemistry,	Kril shino
	School of Life sciences,	And M
	University of Hyderabad,	
	Hyderabad.	1
Industry expert	Dr.K Satyanarayana	
	DGM, R & D,	n. Christian
	Natco Pharma Ltd.	C. Signaray.
	Hyderabad.	0 0
Alumni student	Dr.P.N.B.S. Srinivas,	
	Scientist – II,	NO NOW
	R & D, Shantha Biotechnics Limited,	NVar
	Post Box No.4, Medchal,	U
	Hyderabad – 501 401.	
Faculty members	Dr.S.Padma	s. Padma
	Dr.M.K.Sukumaran	1 Mar anna
		m. Mornan
	Mrs.D.Rajani	Agin
		with
	Mrs.S.Vanitha	land
r		Ha

M.Sc. CBCS Biochemistry syllabus (wef. 2016-17)

- A. INTERNAL EXAMINATION:
 - 1. Theory: Max. Marks= 30. Duration: 1 hour

B. EXTERNAL (SEMESTER- END) EXAMINATION:

- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =100. Duration: 6 hours.

C. TOTAL CREDITS FOR SEMESTERS | & II : 48 (24 each)

Signatures:

1.	Chairperson Board of Studies:	A. Soi Indel
		Con the fatter .
2.	University Nominee:	Shout
3.	Subject Experts:	i. Jy-J
		II. HChre
4.	Expert from Industry/Alumnus	ly. Styanny
		(Moul o
5.	Members:	i. s. Partma
		ii. W.K. Appmon
		III. Dreyan
		iv
		V

CHAIRMAN Board of Studies in Biochemistry Department of Biochemistry Osmania University Hyderabad-500 007 T

4. Lai Jab

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094

B.Sc. CBCS Biochemistry syllabus (wef. 2016-17)

A. INTERNAL EXAMINATION:

1. Theory: Max. Marks= 30. **Duration: 1 hour**

B. EXTERNAL (SEMESTER- END) EXAMINATION:

1. Theory: Max. Marks= 70. Duration: 3 hours.

2. Practical: Max. Marks =50. **Duration: 3 hours.**

C. TOTAL CREDITS FOR SEMESTER I & II : 10 (5 each)

Signatures:

1.	Chairperson Board of Studies: <u>A Lai Dady</u>
2.	University Nominee:
3.	Subject Experts: i
	II. HELL
4.	Expert from Industry/Alumnus: > Q = Strangen
	- and
5.	Members: i. <u>s. Padma</u>
	ii. M-K. Banom
	III
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H. Lai lad

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Stintinpuri, Secunderabad-500 094 Hyderabad-500 007. Telangana

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BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI, SECUNDERABAD.

Autonomous College Affiliated to OSMANIA UNIVERSITY, Hyderabad. (Accredited with 'A' grade by NAAC)

DEPARTMENT OF BIOCHEMISTRY

MINUTES OF THE BOARD OF STUDIES MEETING

The 2nd meeting of the board of studies (BoS) in the department of Biochemistry was held on 19.03.2016 at 11.00 am in room No.71 of the college.

The following members were present in the meeting:

- Dr.A Sai Padma, Head, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad.
- Dr.V Vijaylakshmi, Scientist F, HOD, Stem Cell Biology, NIN, Hyderabad.
- 4. Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences, University of Hyderabad, Hyderabad.
- Dr.K Satyanarayana DGM, R & D, Natco Pharma Ltd, Hyderabad.
- 6. Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.
- Dr.S.Padma Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Subject Expert

University Nominee

Chairperson

Subject Expert

Industry expert

Alumnus

Internal member

Internal member

- Dr.M.K.Sukumaran, Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.D.Rajani Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Internal member

Internal member

 Mrs.S.Vanitha, Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

The following points were discussed as per the agenda and resolved as follows:

- 1. The syllabus for 2nd year of B.Sc (M.Bi.C) semesters III and IV is approved for both theory and practicals effective from the academic year 2016-17.
- 2. The syllabus for 3rd year of B.Sc (M.Bi.C) semesters V and VI is approved for both theory and practicals effective from the academic year 2017-18.
- 3. Electives papers for B.Sc paper-VI are approved as Elective 1-Microbiology, Genetics and rDNA Technology & Elective 2- Cell Biology and Biotechnology.
- Electives papers for B.Sc paper-VIII are approved as Elective 1 Immunology and Nutrition & Elective 2- Clinical Diagnosis and Biostatistics.
- 5. No changes are made in the course syllabus of M.Sc Biochemistry which was approved in the 1st board of studies meeting held on 16.06.2016.
- 6. The chairperson, BoS is authorized to appoint in consultation with the principal of the college, qualified examiners outside the approved panel in case of urgency. Such arrangement should however be reported to the BoS in the immediate meeting.

 The department will follow the details of CBCS in accordance with the policy of the college. The chairperson is authorized to act on the above items and seek the approval of members by circulation.

The meeting ended with vote of thanks by the chairperson.

The following members have attended the Second Board of studies meeting in Biochemistry held in the Department of Biochemistry on 19.3.2016 at 11:00am.

Designation	Name of the Member	Signature
Chairperson	Dr.A Sai Padma,	
	Head, Department of Biochemistry,	1 (ai Jody
	Bhavan's Vivekananda college,	A au your
	Sainikpuri, Secunderabad	
University Nominee	Prof. S Satyanarayan Singh,	
,	Chairman, BOS,	
	Department of Biochemistry,	an anti-
	Osmania University, Hyderabad.	
Subject Expert	Dr.V Vijayalakshmi,	
Subject Expert		and me
	Scientist F, HOD,	19/3/16
	Stem Cell Biology,	1910
	National Institute of Nutrition,	14.00
	Hyderabad.	1
Subject Expert	Dr.Krishnaveni Mishra,	
	Associate Professor,	
	Department of Biochemistry,	1 Line
	School of Life sciences,	9 10
	University of Hyderabad,	V
	Hyderabad.	
Industry expert	Dr.K Satyanarayana	10 at the
	Senior GM, R & D,	- Sugarout - J-
	Natco Pharma Ltd,	0 10 42
	Hyderabad.	- 17.05
Alumni student	Dr.P.N.B.S. Srinivas,	Ν
	Scientist – II,	Ban Dus
	R & D, Shantha Biotechnics Limited,	I Was
	Post Box No.4, Medchal,	12. 7 3. 2010
	Hyderabad – 501 401.	\bigcirc (\uparrow
Faculty members	Dr.S.Padma	CP 1
ruculty members	Dribit duffu	3-lagma
	Dr.M.K.Sukumaran	4. K Alman
	Dimmourumaran	W.K. C. Down
	Mrs.D.Rajani	
	in s.D.Majam	Dynm.
	Mrs.S.Vanitha	TU
		Non
	Mrs. M.Usha	

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A. INTERNAL EXAMINATION:

1. Theory: Max. Marks= 30. Duration: 1 hour

B. EXTERNAL (SEMESTER- END) EXAMINATION:

- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =50. Duration: 3 hours.

Total: 150 marks per Paper (1200 marks for the entire 3 years).

Signatures:

19/3/16,
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BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI, SECUNDERABAD. Autonomous College Affiliated to OSMANIA UNIVERSITY, Hyderabad.

(Accredited with 'A' grade by NAAC)

DEPARTMENT OF BIOCHEMISTRY

MINUTES OF THE BOARD OF STUDIES MEETING

The 1st meeting of the board of studies (BoS) in the department of Biochemistry was held on 16.06.2015 at 9.00 am in committee room of the college.

The following were present in the meeting:

- Dr.S.Padma Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad
- Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad.
- Dr.V Vijaylakshmi, Scientist F, HOD, Stem Cell Biology, NIN, Hyderabad.
- Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences, University of Hyderabad, Hyderabad.
- 5. Dr.K Satyanarayana DGM, R & D, Natco Pharma Ltd. Hyderabad.
- 6. Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.

Acting Chairperson.

University Nominee

Subject Expert

Subject Expert

Industry expert

Alumni student

- Dr.M.K.Sukumaran, Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.D.Rajani
 Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.
- Mrs.S.Vanitha, Lecturer, Department of Biochemistry, Bhavan'sVivekananda college, Sainikpuri, Secunderabad.

Internal member

Internal member

Internal member

The board members have discussed the agenda and resolved as follows:

- 1. The syllabus for 1st year of B.Sc (M.Bi.C) semesters I and II is approved effective from the academic year 2015-16.
- 2. The structuring of the syllabus in theory and practicals for all 6 semesters is finalized.
- 3. The electives to be offered in semester V and VI are discussed.
- 4. The course syllabus of M.Sc Biochemistry for 1st and 2nd year is approved effective from the academic year 2015-16.
- 5. The pattern of credit distribution for theory and practical papers is discussed and approved.
- 6. Scheme of examination and list of examiners is also approved.
- 7. The chairperson, BoS is authorized to appoint in consultation with the principal of the college, qualified examiners outside the approved panel in case of urgency. Such arrangement should however be reported to the BoS in the immediate meeting.
 - 8. The members also have suggested
 - a) inclusion of statistics in B.Sc curriculum
 - b) a uniform textbook paper-wise
 - c) more hands-on training in practicals
 - d) guest lectures on specified topics

The department will follow the details of CBCS in accordance with the policy of the college.

The chairperson is authorized to act on the above items and seek the approval of members by circulation.

The following members attended the First Board of studies meeting in Biochemistry held in the Department of Biochemistry on 16.6.2015 at 9.30am.

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Designation	Name of the Member	Signature
Chairperson	Dr.A Sai Padma, Head, Department of Biochemistry	S. Padma
v	Bhavan's Vivekananda college, Sainikpuri, Secunderabad	
University Nominee	Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad.	Swangh
Subject Expert	Dr.V Vijaylasmi, DWG cyclablen Scientist F, HOD, Stem Cell Biology, National Institute of Nutrition, Hyderabad.ph;	12/00/15
Subject Expert	Dr.Krishnaveni Mishra, Associate Professor, Department of Biochemistry, School of Life sciences,	21ho
Industry expert	University of Hyderabad, Hyderabad. Dr.K Satyanarayana DGM, R & D, Sr. GM	b OF Triange
	Natco Pharma Ltd. Hyderabad.	l- sugaring
Alumni student	Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.	16-06-2015
Faculty members	Dr.S.Padma Dr.M.K.Sukumaran	5. 1 a dima 6. 6.15
	Mrs.D.Rajani	M. K. Kulthmann JE 16
	Mrs.S.Vanitha	ACTOTIS
	Mrs. M.Usha	

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A. INTERNAL EXAMINATION:

- 1. Theory: Max. Marks= 30.Duration: 1 hour2. Practical: Continuous assessment.Max. Marks = 15.
- B. EXTERNAL (SEMESTER- END) EXAMINATION:
- 1. Theory: Max. Marks= 70. Duration: 3 hours.
- 2. Practical: Max. Marks =35. Duration: 3 hours.

Total: 150 marks per Paper (1200 marks for the entire 3 years).

Signatures:

1. Chairperson Board of Studies: _____

2. University Nominee:

3. Subject Experts:

- 4. Expert from Industry/Alumnus:
- 5. Members:

i. _ ii. Nous 16.06.2015 i. an Mik ii. iii. ___ am iv. v. _ No vi. vii.