

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.

Chairperson

 Dr. Ch.Venkata Ramana Devi Professor,
 Department of Biochemistry,
 OU, Hyderabad. University Nominee

 Dr. Shasi Vardhan Kalivendi Principal Scientist CSIR-Indian Institute of Chemical Technology (Council of Scientific and Industrial Research) Tarnaka, Hyderabad.

Subject Expert

4. Dr. Rajesh Medisetty
HoD, Analytical R&D
Biological E Ltd, Hyderabad.

Industry Expert

 Ms U.R.Sriveena Information Scientist DuPont, Hyderabad. Alumnus

6. Ms.Mohammed Juweriya Tahseen M.Sc (Biochemistry) II semester

Student

7. Mrs.D.Rajani
Asst.Prof, Department of Biochemistry,
Bhavan's Vivekananda college,
Sainikpuri, Secunderabad.

Internal member

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

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8. Dr.S.Padma

Internal member

Asst. Prof, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad.

9. Mrs.S. Vanitha,

Internal member

Asst.Prof, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad.

10. Dr.S. Manju Devi

Internal member

Lecturer, Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad

11. Ms.M.Snigdha

Internal member

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).

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.

Signatures	:
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1.	Chairperson Board of	Studies: A ai Vady
2.	University Nominee:	Chr nolemunt
3.	Subject Experts:	i. Bjocheminary & Neurobialogy Starburt
	i	i
4.	Expert from Industry	:
5.	Alumnus:	Eei Jun
6.	Members:	i. Dhayan
		ii. S. Vadme.
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		. Julahren

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	1 1 . 1 .	
	Head, Department of Biochemistry	it ai bd	
,	Bhavan's Vivekananda college,	28/4/18	
	Sainikpuri, Secunderabad	0-11 0 00	
University Nominee	Dr. Ch. Venkata Ramana Devi	Chrequent	
	Professor,	Olive Dund	
	Department of Biochemistry,	Myrania	
	OU, Hyderabad.		
Subject Expert	Dr. Shasi Vardhan Kalivendi	0 1 -	
	Principal Scientist	Spanivous	
	CSIR-Indian Institute of Chemical Technology	29/11/19	
	(Council of Scientific and Industrial Research)	2911111	
	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	0.1	
	Information Scientist,	29 Julia	
	DuPont, Hyderabad	2alat.	
Student	Ms. Mohammed Juweriya Tahseen		
	M.Sc (Biochemistry) II semester	EJuse Jahre	
Faculty Members	Mrs. D. Rajani	900	
	Asst.Prof.in Biochemistry, BVC	a gam	
	Dr. S. Padma	C. L. Sans	
	Asst.Prof.in Biochemistry, BVC	29/11/19	
	Mrs.S. Vanitha	100 119	
	Asst.Prof.in Biochemistry, BVC	25/1/19	
	Dr.S.Manju Devi	MT.	
	Lecturer in Biochemistry, BVC	Dough .	
	Ms. M.Snigdha	1 collection	
	Lecturer in Biochemistry, BVC	Monte	



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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's Vivekananda college, Sainikpuri, Secunderabad.

Chairperson

 Dr. Ch. Venkata Ramana Devi Professor,
 Department of Biochemistry,
 OU, Hyderabad. University Nominee

 Dr.Shasi Vardhan Kalivendi Principal Scientist CSIR-Indian Institute of Chemical Technology (Council of Scientific and Industrial Research) Tarnaka, Hyderabad. Subject Expert

Prof .N. Siva Kumar
 Department of Biochemistry
 School of Life Sciences, University of Hyderabad
 Hyderabad.

Subject Expert

5. Dr. Rajesh Medisetty
HoD, Analytical R&D
Biological E Ltd, Hyderabad.

Industry Expert

Ms U.R.Sriveena
 Information Scientist DuPont, Hyderabad.

Alumnus

7. Ms.Mohammed Juweriya Tahseen M.Sc(Biochemistry) II semester

Student

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

Internal member

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

Internal member

Mrs.S.Vanitha,
 Asst.Prof, Department of Biochemistry,
 Bhavan's Vivekananda 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.
- 3. 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.
- 5. 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.
- 7. 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.

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

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- 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:

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

2. Practical: Max. Marks =25

Signatures:

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1.	Chairperson Board of S	tudies: 1 al Vad/
2.	University Nominee:	Chr Ridemin
3.	Subject Experts:	i. Shaqual 26/4/19
		ii.
4.	Expert from Industry:	My 26/ou/19 (Rajush M.)
5.	Alumnus:	Deillin 26/4/19

6.	Members:	i
		II. S-Vadre
		III.
		iv
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M.Sc	- Biochemistry C	BCS syllabus
A.	INTERNAL EYAM	INATION: Max. Marks= 30
Α.	IN TERRIFICE EXAM	INATION. Max. Marks- 50
	Two tests of Inte Assignment: 5 m	ernal assessment with average taken: 25 marks narks
B. EX	CTERNAL (SEMESTE	R- END) EXAMINATION:
	 Theory: Max Practical/ Pro 	. Marks= 70 Duration: 3 hours. oject: Max. Marks = 75/100 Duration: 4. 5/6 hours
с. то	OTAL CREDITS FOR	4 SEMESTERS (24 each)
Signat	cures:	
		rd of Studies:
	Chairperson Boa	
1.	Chairperson Boa	
1. 2.	Chairperson Boa	
1. 2.	Chairperson Boar University Nomin Subject Experts:	i. Standard 2011
1. 2. 3.	Chairperson Boar University Nomin Subject Experts: Expert from Indu	i. Standard 2011
1. 2. 3.	Chairperson Boar University Nomin Subject Experts: Expert from Indu	i. Sharing 26 (Rajesh M.)
1. 2. 3.	Chairperson Boar University Nomin Subject Experts: Expert from Indu Alumnus:	i. Sharing 26 (Rajesh M.)
1. 2. 3. 4. 5.	Chairperson Boar University Nomin Subject Experts: Expert from Indu Alumnus:	i. Sharing 201119 ii
1. 2. 3. 4. 5.	Chairperson Boar University Nomin Subject Experts: Expert from Indu Alumnus:	i. Shand 2014119 ii. Marine (Rajesh M.) Seilung i. Mayunga (14119) ii. S. Ladan 2014119 iii. January
1. 2. 3. 4. 5.	Chairperson Boar University Nomin Subject Experts: Expert from Indu Alumnus:	i. Shawaranger M.) ii

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	11.
	Head, Department of Biochemistry	it ai lad
	Bhavan's Vivekananda college,	3/14/19
	Sainikpuri, Secunderabad	26 (1
University Nominee	Dr. Ch. Venkata Ramana Devi	1
	Professor,	(My mloum)
	Department of Biochemistry,	0 0 7 0 00000
	OU, Hyderabad.	
Subject Expert	Dr. Shasi Vardhan Kalivendi	0 A
	Principal Scientist	haria
	CSIR-Indian Institute of Chemical Technology	26/4/19
	(Council of Scientific and Industrial Research)	2614111
C 11 + F	Tarnaka, Hyderabad.	
Subject Expert	Prof .N. Siva Kumar	
	Department of Biochemistry	_
	School of Life Sciences, University of Hyderabad	
Industry Evener	Hyderabad.	0.6
Industry Expert	Dr. Rajesh Medisetty	M 26/04/19
	HoD, Analytical R&D	My allow
2	Biological E Ltd, Hyderabad	1 1 2
Alumnus	Ms. U. R. Sriveena	a Dun
	Information Scientist,	1.112
,	DuPont, Hyderabad	A614111
Student	Ms. Mohammed Juweriya Tahseen	1 Jahren
	M.Sc (Biochemistry) II semester	of exam
Faculty Members	Mrs. D. Rajani	a arm
	Asst.Prof.in Biochemistry, BVC	2614119
	Dr. S. Padma	
	Asst.Prof.in Biochemistry, BVC	3 ladamy
	Mrs.S. Vanitha	
	Asst.Prof.in Biochemistry, BVC	25/4/19



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DEPARTMENT OF BIOCHEMISTRY
MINUTES OF THE BOARD OF STUDIES MEETING

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:

 Dr.A Sai Padma, Head, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad.

Chairperson

Dr. Karuna Rupula,
 Chairperson, BOS,
 Department of Biochemistry,
 Osmania University, Hyderabad.

University Nominee

3. Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad.

Subject Expert

4. Dr.Krishnaveni Mishra,
Associate Professor,
Department of Biochemistry,
School of Life sciences,
University of Hyderabad, Hyderabad.

Subject Expert

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

Industry expert

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

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

Special Invitee

Dept. of Bio-Chemistry

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 8. Dr.S.Padma
Asst. Prof, Department of Biochemistry,
Bhavan's Vivekananda college,
Sainikpuri, Secunderabad.

Internal member

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

Internal member

Mrs.S.Vanitha,
 Asst.Prof, Department of Biochemistry,
 Bhavan's Vivekananda college,
 Sainikpuri, Secunderabad.

Internal member

11. Mrs.M.Usha
Lecturer, Department of Biochemistry,
Bhavan's Vivekananda college,
Sainikpuri, Secunderabad.

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.
- 2. 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.
- 4. 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.
- 6. 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.

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:

1.	Chairperson Board of	Studies: _	A: Jai Odu 31/3/18.
2.	University Nominee:		Camp
3.	Subject Experts:	i	t Ela. 31/3
		ii	
4.	Expert from Industry:		
5.	Alumnus:		My 21.03.2018
6.	Members:	i	s fadme Jalle
		ji	an ayum 3/3/2
		iii	Lazia
		iv	311 (By
		v	3:1818
		vi	Albarichay .
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M.Sc- Biochemistry CBCS syllabus

,	٠.	INTERNAL EXAMINATION: Max	c. iviari	(5= 50		
		Two tests of Internal assessme Assignment: 5 marks	ent wit	h average taken	: 25 marks	
В.	EXT	TERNAL (SEMESTER- END) EXAM	IINATI	ON:		
		 Theory: Max. Marks= Practical/Project : Max. Max. Max. Max. Max. Max. Max. Max.	arks =	70. 75/100.	Duration: 3 hours. Duration: 5/6 hours.	
c.	то	TAL CREDITS FOR 4 SEMESTERS	(24 e	each)		
Sig	natu	ures:				
	1.	Chairperson Board of Studies:		A-big	Dody	
	2.	University Nominee:		Camp		
	3.	Subject Experts:	i	791	un 31/3	
			ii			
	4.	Expert from Industry:				
	5.	Alumnus:		An	Sur. rus	
					5(
	6.	Members:	i	S. Vadn	213/18	
			ii	Sol	ymm 31/3/18	
			iii.	de	5,0	
			iv.	31/3		
						

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 Pody_
University Nominee	Dr.Karuna Rupula Chairperson, BOS, Department of Biochemistry, Osmania University, Hyderabad.	31-03-2018
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.	8.31/3/me-
Industry expert	Dr.K Satyanarayana Vice President, R & D, Natco Pharma Ltd. Hyderabad.	Alsent-
Alumnus	Dr.P.N.B.S. Srinivas, Scientist – II, R & D, Shantha Biotechnics Limited, Post Box No.4, Medchal, Hyderabad – 501 401.	31.03.2018
Special invitee	Ms.Maria Angeleena Student representative, M.Sc (Biochemistry) Sem IV	J. Mainohrol.
Faculty members	Dr.S.Padma	5. / adm
	Mrs.D.Rajani	20 mgmm 31 2018
	Mrs.S.Vanitha	25/3/18
7	Mrs.M.Usha	28 y 3 18



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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's Vivekananda college, Sainikpuri, Secunderabad.

Chairperson

 Prof. Ch. Venkataramana Devi, Chairperson, BOS, Department of Biochemistry, Osmania University, Hyderabad. University Nominee

3. Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad.

Subject Expert

Dr.Krishnaveni Mishra,
 Associate Professor,
 Department of Biochemistry,
 School of Life sciences,
 University of Hyderabad, Hyderabad.

Subject Expert

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

Industry expert

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

Alumni student

7. Dr.S.Padma

Internal member

Asst. Prof, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad.

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

Internal member

Mrs.S.Vanitha,
 Asst.Prof, Department of Biochemistry,
 Bhavan's Vivekananda college,
 Sainikpuri, Secunderabad.

Internal member

Mrs.M.Usha
 Lecturer, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad.

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.
- 5. 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.

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpur, 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	it (ai) all
	Bhavan's Vivekananda college,	24/3/17
	Sainikpuri, Secunderabad	- (1
University Nominee	Prof. Ch. Venkataramana Devi,	
	Chairperson, BOS,	Chr nouman
	Department of Biochemistry,	M mullian
	Osmania University, Hyderabad.	
Subject Expert	Dr.V Vijayalakshmi,	\
	Scientist F, HOD,	
	Stem Cell Biology,	1100
	National Institute of Nutrition,	
	Hyderabad.	X
Subject Expert	Dr.Krishnaveni Mishra,	\
	Associate Professor,	1
	Department of Biochemistry,	1 Clark
	School of Life sciences,	1
	University of Hyderabad,	
	Hyderabad.	
Industry expert	Dr.K Satyanarayana	10 lt mans
VI le prosider	DGM , R & D,	& Salyan Vi-
V 1 001	Natco Pharma Ltd.	0 /
	Hyderabad.	
Alumnus	Dr.P.N.B.S. Srinivas,	
	Scientist – II,	down ox
	R & D, Shantha Biotechnics Limited,	Man or ross
	Post Box No.4, Medchal,	24-
	Hyderabad – 501 401.	0
Faculty members	Dr.S.Padma	S. Padma
	Mrs.D.Rajani	80 Cyprin
		24/3/17
	Mrs.S.Vanitha	50/2/17
		24/3/11
	Mrs.M.Usha	(A) e
		24/3/17

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

	A.	INTERNAL EXAMINATION:
	1.	Theory: Max. Marks= 30. Duration: 1 hour
	В.	EXTERNAL (SEMESTER- END) EXAMINATION:
	1.	Theory: Max. Marks= 70. Duration: 3 hours.
	2.	Practical: Max. Marks =50. Duration: 3 hours.
Sig	natu	ires:
	1.	Chairperson Board of Studies: A lai Adu
	2.	University Nominee: Chy Nollinging
	3.	Subject Experts: i.
		ii.
	4.	Expert from Industry/Alumnus: L. Stymmy
	5.	Members: i
		ii. S. ladmar 112
		III. Dynn 241311
		iv
		v. Bra
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M.Sc. CBCS Biochemistry syllabus (wef. 2017-18)

F	١.	INTERNAL EXAMINATION:	
	1.	Theory: Max. Marks= 30.	Duration: 1 hour
В.	EX	TERNAL (SEMESTER- END) EXAMII	NATION:
		 Theory: Max. Marks = 70. Practical: Max. Marks = 75/10 	Duration: 3 hours. Duration: 5/6 hours.
c.	то	TAL CREDITS FOR SEMESTERS III	& IV : 48 (24 each)
Sig	natı	ıres:	
	1.	Chairperson Board of Studies:	A. Lai Jody
	2.	University Nominee:	Clev noturne
	3.	,	· Pru
	4.	Expert from Industry/Alumnus:	C- Styring
	5.		
		i	· S. Vadma
		i	i. Shyon



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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's Vivekananda college, Sainikpuri, Secunderabad.

Chairperson

 Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad. University Nominee

 Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad. Subject Expert

Dr.Krishnaveni Mishra,
 Associate Professor,
 Department of Biochemistry,
 School of Life sciences,
 University of Hyderabad, Hyderabad.

Subject Expert

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

Industry expert

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

Alumni student

7. Dr.S.Padma
Lecturer, Department of Biochemistry,
Bhavan's Vivekananda college,
Sainikpuri, Secunderabad.

Internal member

Head, Dept. of Bio-Chemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094 Board of Studies in Biochemistry
Department of Biochemistry

8. Dr.M.K.Sukumaran, Lecturer, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad. Internal member

9. Mrs.D.Rajani
Lecturer, Department of Biochemistry,
Bhavan's Vivekananda college,
Sainikpuri, Secunderabad.

Internal member

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

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.
- 2. 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 16.06.2016 for both B.Sc and M.Sc.
- 4. The examiners list remains same as approved in the last BoS meeting that was held on 16.06.201**6** 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

Board of Studies in Biochemistry

Department of Biochemistry

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	1. Jai Jadel
	Bhavan's Vivekananda college,	N
	Sainikpuri, Secunderabad	
University Nominee	Prof. S Satyanarayan Singh,	A
	Chairman, BOS,	mangh
	Department of Biochemistry,	8,01
	Osmania University, Hyderabad.	
Subject Expert	Dr.V Vijaylaxmi, D Vijoyalalishus V.	
	Scientist F, HOD,	1 .4
	Stem Cell Biology,	NM.
	National Institute of Nutrition,	
	Hyderabad.	
Subject Expert	Dr.Krishnaveni Mishra,	
	Associate Professor,	
	Department of Biochemistry,	Ky lanha
	School of Life sciences,	The state of the s
	University of Hyderabad,	V
	Hyderabad.	1
Industry expert	Dr.K Satyanarayana	
	DGM, R & D,	n. (Ations
	Natco Pharma Ltd.	L' Singaror y.
	Hyderabad.	0 0
Alumni student	Dr.P.N.B.S. Srinivas,	
	Scientist – II,	Mr row
	R & D, Shantha Biotechnics Limited,	1100
	Post Box No.4, Medchal,	
	Hyderabad – 501 401.	
Faculty members	Dr.S.Padma	s. Padma
		01.
	Dr.M.K.Sukumaran	m & Manan
	Mrs.D.Rajani	2n ajam
- A	Mrs.S.Vanitha	draw

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: _

2. University Nominee:

3. Subject Experts:

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4. Expert from Industry/Alumnus:

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5. Members:

i. S. Pandma

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

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	1.	Theory: Max. Marks= 30. Duration: 1 hour
	В.	EXTERNAL (SEMESTER- END) EXAMINATION:
	1. 2.	Theory: Max. Marks = 70. Duration: 3 hours. Practical: Max. Marks = 50. Duration: 3 hours.
(С.	TOTAL CREDITS FOR SEMESTER I & II : 10 (5 each)
Sign	atu	res:
	1.	Chairperson Board of Studies:
· 2	2.	University Nominee:
3	3.	Subject Experts: i
4	4.	Expert from Industry/Alumnus:
5	5.	Members: i. S. Padma
		ii. W-K. Donom
		III & cycmi
		iv. Nam

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

Hyderabad-500 007. Telangana
Hyderabad-500 007.





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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's Vivekananda college, Sainikpuri, Secunderabad. Chairperson

 Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad. University Nominee

3. Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad. Subject Expert

Dr.Krishnaveni Mishra,
 Associate Professor,
 Department of Biochemistry,
 School of Life sciences,
 University of Hyderabad, Hyderabad.

Subject Expert

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

Industry expert

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

Alumnus

7. Dr.S.Padma
Lecturer, Department of Biochemistry,
Bhavan's Vivekananda college,
Sainikpuri, Secunderabad.

Internal member

Bordo Man Biochemistry

Bordo Manuel Manuel Strateger Strateger Sainikpuri, Secunderabad-500 69

8. Dr.M.K.Sukumaran, Lecturer, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad. Internal member

Mrs.D.Rajani
 Lecturer, Department of Biochemistry,
 Bhavan's Vivekananda college,
 Sainikpuri, Secunderabad.

Internal member

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

Internal member

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.
- 4. 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.
- 7. 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,	Λ
	Head, Department of Biochemistry,	1 (ai Jadu
	Bhavan's Vivekananda college,	A fact
	Sainikpuri, Secunderabad	
University Nominee	Prof. S Satyanarayan Singh,	
	Chairman, BOS,	tenon ten
	Department of Biochemistry,	2008
	Osmania University, Hyderabad.	
Subject Expert	Dr.V Vijayalakshmi,	4
	Scientist F, HOD,	1/13/16
	Stem Cell Biology,	11/11/51
	National Institute of Nutrition,	
	Hyderabad.	
Subject Expert	Dr.Krishnaveni Mishra,	
	Associate Professor,	- 1/ - 2
	Department of Biochemistry,	1 8 000
	School of Life sciences,	4 10
	University of Hyderabad,	V
	Hyderabad.	
Industry expert	Dr.K Satyanarayana	In Ottombund
	Senior GM, R & D,	1 Sugar
	Natco Pharma Ltd,	19.68
	Hyderabad.	1).03
Alumni student	Dr.P.N.B.S. Srinivas,	N
	Scientist – II,	Characons
	R & D, Shantha Biotechnics Limited,	19.03. with
	Post Box No.4, Medchal,	19.03
	Hyderabad – 501 401.	
Faculty members	Dr.S.Padma	5-ladma
	Y .	1
	Dr.M.K.Sukumaran	1 MOD SANOM
	~ ~	m. x minou
	Mrs.D.Rajani	Museum
		No Vigoria.
	Mrs.S.Vanitha	Har
	Mrs. M.Usha	7

	A.	INTERNAL EXAMINATION:	
	1.	Theory: Max. Marks= 30.	Duration: 1 hour
	В.	EXTERNAL (SEMESTER- END) E	XAMINATION:
	1. 2.	Theory: Max. Marks= 70. Practical: Max. Marks = 50.	Duration: 3 hours. Duration: 3 hours.
	Tot	al: 150 marks per Paper (1200	marks for the entire 3 years).
Sigr	natu	ıres:	
	1.	Chairperson Board of Studies:	A lai Jady
	2.	University Nominee:	Snengh
	3.	Subject Experts: i	b Po Cra
		ii	1913116
	4.	Expert from Industry :	6. Styanovny: 19/3/16
	5.	Alumnus :	Wen 19.03. 2016
	6.	Members: i	e ladania
		iii	M.K. Callina



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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's Vivekananda college,
 Sainikpuri, Secunderabad

Acting Chairperson.

 Prof. S Satyanarayan Singh, Chairman, BOS, Department of Biochemistry, Osmania University, Hyderabad. University Nominee

3. Dr.V Vijaylakshmi, Scientist F, HOD,Stem Cell Biology, NIN, Hyderabad.

Subject Expert

4. Dr.Krishnaveni Mishra,
Associate Professor,
Department of Biochemistry,
School of Life sciences,
University of Hyderabad, Hyderabad.

Subject Expert

 Dr.K Satyanarayana DGM, R & D, Natco Pharma Ltd. Hyderabad. Industry expert

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

Alumni student

7. Dr.M.K.Sukumaran, Lecturer, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad. Internal member

8. Mrs.D.Rajani

Lecturer, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad. Internal member

9. Mrs.S. Vanitha.

Lecturer, Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad. 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.

Designation	Name of the Member	Signature
Chairperson	Dr.A Sai Padma,	1
0	Head, Department of Biochemistry	S- Vadma
	Bhavan's Vivekananda college,	
	Sainikpuri, Secunderabad	
University Nominee	Prof. S Satyanarayan Singh,	C 1:
	Chairman, BOS,	Cong man
	Department of Biochemistry,	8/08/0
e eg e	Osmania University, Hyderabad.	
Subject Expert	Dr.V Vijaylarmi, July oyalablum-	
	Scientist F, HOD,	1 2/2011
	Stem Cell Biology,	VA
	National Institute of Nutrition,	VINIS
	Hyderabad.ph;	16/91
Subject Expert	Dr.Krishnaveni Mishra,	
	Associate Professor,	
	Department of Biochemistry,	0,100
	School of Life sciences,	100
	University of Hyderabad,	
· ·	Hyderabad.	
Industry expert	Dr.K Satyanarayana	1 11-
	DGM, R&D, Sr. GM	1) - Stygenery
*	Natco Pharma Ltd.	8
	Hyderabad.	,
Alumni student	Dr.P.N.B.S. Srinivas,	
	Scientist – II,	40 rough
	R & D, Shantha Biotechnics Limited,	Win
	Post Box No.4, Medchal,	18-00
	Hyderabad – 501 401.	
Faculty members	Dr.S.Padma	
		5.12 dino 16.6.15
	Dr.M.K.Sukumaran	(Vh.1)
		M. K. Julament
* *	Mrs.D.Rajani	Majani
		-
	Mrs.S.Vanitha	La se
		A) letel 12
	Mrs. M.Usha	

	1.	Theory: Max. Marks= 30.	Duration: 1 hour
	2.	Practical: Continuous assessm	ent. Max. Marks =15.
	В.	EXTERNAL (SEMESTER- END) E	XAMINATION:
	1.	Theory: Max. Marks= 70.	Duration: 3 hours.
	2.	Practical: Max. Marks =35.	Duration: 3 hours.
	Tot	tal: 150 marks per Paper (1200	marks for the entire 3 years).
Sig	natu	ures:	4
	1.	Chairperson Board of Studies:	Susugh
	2.	University Nominee:	
	3.	Subject Experts: i	A September 1
		ii	
	4.	Expert from Industry/Alumnus	: O Sugar
			Mail 16.06. 2015
	5.	Members: i	SV- Minor
		ii	M.K. Coleman
		III.	Θ
		iv	Majani.
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A. INTERNAL EXAMINATION: