



Ramakrishna Mission Vidyamandira

P.O. BelurMath, Dist. Howrah - 711202, West Bengal
A Residential Autonomous College affiliated to Calcutta University
College with Potential for Excellence * Re-accredited by NAAC with 'A'
Phone No. (033) 2654-9181 / 9632; E-mail: vidyamandira@gmail.com
Website : www.vidyamandira.ac.in

Notice No. BOS/MBIO/8

Dated : 28th February 2015

Eighth Meeting of the Board of Studies

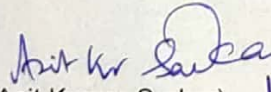
The eighth meeting of the Board of Studies for UG Course in Microbiology will be held on the 12th March, 2015, Thursday at 2.30 pm at the Teachers' Colloquium Room of our college to discuss the following agenda.

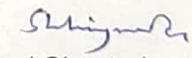
Agenda:

- B. Sc. 1st year (1st Sem.); 2nd year (3rd Sem.) and 3rd year (5th Sem.) results
- Discussion about the revised syllabus for the 1st sem.
- Miscellaneous

All members are earnestly requested to attend the meeting.

With regards,


(Asit Kumar Sarkar) 12/03/15
Head of the Department

Yours sincerely,

(Swami Shastrajnananda)
Principal

- 1) Shreyas
- 2) Ekachittananda
- 3) Abhinav Sankar
- 4) Subrata Mojumdar
- 5) Anil (Anil Pal)
- 6) ~~Adarsh~~ Anurag
- 7) Sanjit Das 12.03.15
- 8) Prasad & Raju
- 9) Parth Chakrabarti
- 10) ~~Arth~~ Arth
- 11) Santanu Majumdar
- 12) Chandan Rai
- 13) Abhishek Pal
- 14) Arindam Roy

- 1) ~~Dr. A.K. Sarker~~ All the members are welcomed by Dr. A.K. Sarker.
- 2) Introduction of Acting vice-Principal to all the BOS members.
- 3) Result (1st, 3rd and 5th Sem) presented to all the BOS members.
- 4) change in syllabus (Sem-I) discussed.
- 5) Resulting of Sem-I syllabus presented to BOS.
- 6) Introduction of practical (Partition coefficient) in Sem-II.
- 7) Introduction of SDS-PAGE (Practical) suggested by Dr. A.K. Sarker and praised by all members.
- 8) change in Sem-II syllabus discussed.
- 9) Introduction of cell-biology-I in Sem-II and Molecular Biology-I in Sem-II.
- 10) "Transport through mem." shifted to Sem-III.
- 11) Discussions held about the in-depth teaching of secretory pathway. Dr. Sarker suggested to

give only overview idea of the Secretary System.

- (12) "DNA, Gene, and chromosome" - (Module -I, Sem-I)
now shifted to Sem - II.
- (13) Informed all the BOS members about our
new building for the department and about
new instruments coming in the department.
- (14) Informed all the members about the success of
students (passed out, 2014) to the members.
- (15) Suggestion by the members to present the
related documents of the meetings in form of
"power point presentation" in the next BOS
meetings.
- (16) Thanks giving to all members. by Do. A.K.
Samar.
- (17) SM: Change in Lipid Metabolism [Sem 4, Cr. B (part)]

Proceeding of the meeting of Board of Studies:

Date: ^{12/3} 28/2/2015

Time: 2 pm

Venue: Saradananda Conference hall

1. Proceeding of the last meeting was recorded and confirmed.
2. Nothing specific came up out of the discussion on proceedings.
3. Overall result of previous semester was discussed.
4. Members of the BoS discuss on the syllabus of Microbiology and following resolution was adopted in relation to the revision of the course:

Resolved that the following revisions be done and implemented from 01/07/2015:

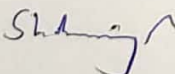
Name of the Course	Semester	Course Code	Credit	Marks in the Course	Name of the Programme	Programme Code	Introducti on year of new course <i>Revision</i>
Qualitative tests for carbohydrates Separation of amino acids Separation of lipids by thin layer chromatography Estimation of amino acid (glycine) by formol titration Staining of capsule Enumeration of microbes (yeast) by haemocytometer	2	MCBA P2 P	4	50	B.Sc. Microbiology Hons	MCBA	20


HoD of the Microbiology Department reported that the college will introduce the Zoology Generic Elective course for the Microbiology Honours Programme initially. As the department of Zoology is at its nascent stage and as these two are to some extent related subjects, hence at present BoS of Microbiology will introduce this course and later on when Zoology department will start functioning fully with its Zoology Honours Programme for which it is preparing, then these courses will be handled by Zoology Department only.

Resolved that following new courses be introduced from the session 2015-16.

Name of the Course	Semster	Course Code	Credit	Marks in the Course	Name of the Programme	Programme Code	Introduction year of new course	BoS Date
--------------------	---------	-------------	--------	---------------------	-----------------------	----------------	---------------------------------	----------

Gr. A. Non-Chordates Gr. B. Cell Biology, Genetics & Molecular Biology	1	ZOOG-P1T	2	50	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Laboratory Course	1	ZOOG-P1P	1	25	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Gr. A. Chordates Gr. B. Developmental Biology	2	ZOOG-P2T	2	50	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Laboratory Course	2	ZOOG-P2P	1	25	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Gr. A. Histology, Endocrinology, Animal Physiology & Biochemistry Gr. B. Ecology, Animal Behavior, Biodiversity & Wildlife	3	ZOOG-P3T	2	50	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Laboratory Course	3	ZOOG-P3P	1	25	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Gr. A. Applied Zoology Gr. B. Evolutionary Biology, Parasitology & Immunology	4	ZOOG-P4T	2	50	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015
Laboratory Course	4	ZOOG-P4P	1	25	B.Sc. Zoology Honours	ZOOA	2015-16	28.02.2015


Signature of the Principal


Signature of the HOD



Ramakrishna Mission Vidyamandira

P.O. BelurMath, Dist. Howrah - 711202, West Bengal

A Residential Autonomous College affiliated to Calcutta University
College with Potential for Excellence * Re-accredited by NAAC with 'A'
Phone No. (033) 2654-9181 / 9632; E-mail: vidyamandira@gmail.com
Website : www.vidyamandira.ac.in

Notice No. BOS/MBIO/9

Dated: 11th September 2015

Ninth Meeting of the Board of Studies

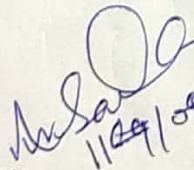
The ninth meeting of the Board of Studies for UG Course in Microbiology will be held on the 11th September, 2015, Friday at 2.30 pm at the Teachers' Colloquium Room of our college to discuss the following agenda.

Agenda:

- B. Sc. 1st year (2nd Sem.), 2nd year (4th Sem.) and 3rd year (6th Sem.) results
- Discussion about the revised syllabus for the 2nd & 3rd sem
- Miscellaneous


All members are earnestly requested to attend the meeting.

With regards,


11/09/15

(Asit Kumar Sarkar)
Head of the Department

Yours sincerely,


(Swami Shastrajnananda)
Principal

P.T.O.

Members present in the meeting

1. Sneh
2. Kanchitnanada
3. Amit Mr. Sankar
4. Anjananda
5. Subrata Chhopadhyay, 11.9.2015
6. Samit Dey 11.09.15
7. Partha Chakrabarti
8. Amit Pal
9. Anurag Kumar J. J. 11.9.15
10. Pratap Mr. Das
11. Sreelaxya
12. Santanu Maitra
13. Anindam Roy
14. Chandan Rai
15. Pranab Mr. Borger
16. Abhishek Pal.

7.
ed
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

P.T.O.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

Proceedings:-

- ① Welcome to all BOS members by HOD.
- ② Result of all the Semester (Ist, IVth and Vth) Semester discussed.
- ③ Placement of the previous Semester, ^[Post graduate entry] (VIth Sem, IIIrd yr. final) students discussed.
- ④ All the members highly praised the dept. for proper maintaining the record of placement of previous out students.
- ⑤ Dr. A.K. Sankar highly praised all the ~~BOS~~ external members of BOS for giving chance ~~for doing~~ to dept. students for laboratory exposure in their reputed laboratory.
- ⑥ Syllabus of IIIrd sem discussed.
- ⑦ Introduction of b) molecular transport and cell signaling in IIIrd Sem. - Dr. SiI suggested to teach only elementary ideas about these two topics.

- 8) Proposal to introduce h) RNA modification and 7. RNAs in gene regulation of eukaryotes. Discussed and accepted.
- 9) Point (8) in syllabus of IIIrd Sem should be renamed as "Non-ribosomal peptide synthesis" and (8-b) should be deleted.
- 10) "Poisubstrate enzymatic reactions (I)" should be introduced in IIIrd Sem.
- 11) "Mixed inhibition" introduced in IIIrd Sem.
- 12) Module -IV discussed and accepted by all members in the proposed form. (Microbial Ecology).
- 13) "Biochemical activity of microorganisms" introduced in practical portion in Sem -III. Total (08) new practical introduced.
- 14) "Metagenomics" should be introduced in Soil microbiology in IVth Sem.
- 15) "NO production test" should be introduced in practical portion in IIIrd Sem.
- 16) "Phage display" should be introduced in industrial microbiology portion.
- 17) SM: Change introduced in Enzyme Kinetics [Sem 3, Gr. B (part)]

Proceeding of the meeting of Board of Studies:

Date: 11/9/15

Time: 2 pm

Venue: Saradananda Conference hall

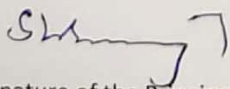
1. Proceeding of the last meeting was recorded and confirmed.
2. Nothing specific came up out of the discussion on proceedings.
3. Overall result of previous semester was discussed.
4. Members of the BoS discuss on the syllabus of Microbiology and following resolution was adopted in relation to the revision of the course:

✚ Resolved that the following revisions be done and implemented from 01/07/2016:

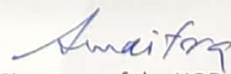
Name of the Course	Semester	Course Code	Credit	Marks	Name of the Programme	Programme Code	Percentage of Revision
CELL BIOLOGY- II MOLECULAR BIOLOGY- II BIOCHEMISTRY- I MICROBIAL ECOLOGY- I	3	MCBA P3 T	10	100	B.Sc. Microbiology Hons	MCBA	40

✚ Further Resolved that the following course be introduced from 01/07/2016:

Name of the Course	Semester	Course Code	Credit	Marks	Name of the Programme	Programme Code
Isolation of pure culture from natural resources Microbiological examination of water IMViC reactions Microbiological assay of antibiotics Determination of Minimal Inhibitory Concentration (MIC) by serial dilution method for assaying commonly used antibiotics Biochemical activities of microorganisms Measurement of growth by turbidometry Isolation of mutants of bacteria by UV exposure	3	MCBA P3 P	4	50	B.Sc. Microbiology Hons	MCBA



Signature of the Principal



Signature of the HOD



Ramakrishna Mission Vidyamandira

P.O. Belur Math, Dist. Howrah - 711202, West Bengal

A Residential Autonomous College affiliated to Calcutta University
College with Potential for Excellence • Re-accredited by NAAC with 'A'
Phone No. (033) 2654-9181 / 9632; E-mail: vidyamandira@gmail.com
Website : www.vidyamandira.ac.in

Notice No. BOS/MBIO/13

Dated: 1st March 2017

Thirteenth Meeting of the Board of Studies

The thirteenth meeting of the Board of Studies for UG Course in Microbiology will be held on the 2nd March, 2017, Thursday at 2.30 pm at the Teachers' Colloquium Room of our college to discuss the following agenda.

Agenda:

- (a) B. Sc. 1st year (1st Sem.), 2nd year (3rd Sem.) and 3rd year (5th Sem.) results
- (b) Discussion about the revised syllabus
- (c) Miscellaneous

All members are earnestly requested to attend the meeting.

With regards,

Asit Kumar Sarkar
02/03/17

(Asit Kumar Sarkar)
Head of the Department

Yours sincerely,

(Swami Shastrajnananda)
Principal

Members present in the meeting held on 02/03/2017

- 1) T. Enachitananda
- 2) Asst. in Surcan
- 3) Dore Anonand - V. C. Nominee w.e.f 12/08/17
- 4) Subrata Chettopadhyay
- 5) Amit Pal
- 6) Majumder - Academic Council Nominee
- 7) Animesh Kumar Bandyopadhyay
- 8) Punyasloke Bhattacharya
- 9) Partha Chakrabarti
- 10) Anindam Roy
- 11) Bhattacharya
- 12) Chandan Rai
- 13) Dipankar Sarkar
- 14) Santanu Maitra
- 15) Sanjit Dey 02.03.17
- 16) Abhishek Pal.

1. Prof. Santanu Maitra presented the results of Sem I, Sem III and Sem IV.
2. J. Kujm of Sem III deemed very poor.
3. Introduction to Bioinformatics included in the syllabus of Sem VI.
4. Our newest faculty Dr. D. Sarkar was introduced by HoD. He himself introduced him to the members.
5. Prof. D. Sarkar would teach Bioinformatics chapters.
6. Prof. D. Sarkar designed the syllabus on Bioinformatics. He then discussed the syllabus to substantiate.
7. SM: Change to Immunology [Sem 5, Gr. B(part)]

7. Generation of phylogenetic tree by Similarity dendrogram should be included - proposed by Dr. Alok Sij. It has been included in Backical syllabus.

8. Concept of algorithm to be introduced and mentioned in the syllabus. Concepts of ribosomal database also have to be ~~intro~~ included.

9. Developmental genetics and model systems have also been newly included in Sem VI.

10. Basic ideas of evolutionary genetics have also been included in Sem VI.

Proceeding of the meeting of Board of Studies:

Date: 1/3/17

Time: 2 pm

Venue: Saradananda Conference hall

1. Proceeding of the last meeting was recorded and confirmed.
2. Nothing specific came up out of the discussion on proceedings.
3. Overall result of previous semester was discussed.
4. Members of the BoS discuss on the syllabus of Microbiology and following resolution was adopted in relation to the revision of the course:

Resolved that the following revisions be done and implemented from 01/07/2017:

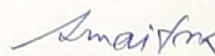
Name of the Course	Semester	Course Code	Credit	Marks	Name of the Programme	Programme Code	Percentage of Revision
Microbiological examination of milk Isolation of pure culture from natural resources Isolation, ammonium sulphate precipitation and quantitative estimation of protein by Folin-Lowry method Isolation of Protease, Amylase, Phosphatase producing microorganisms from soil Microbial quality study of fresh salad vegetables using dilution plating technique Observation of the stages of cell division and mitotic chromosomes Stain and identify the VAM from root samples.	4	MCBA P4 P	4	50	B.Sc. Microbiology Hons	MCBA	20

It is resolved further that the following new courses of Microbiology Generic Elective would be introduced from the academic session 2017-2018 –

Programme Name	Program me Code	Name of the New Course	Code of the new Course	Year of introduction
Microbiology General	MCBG	Basic Microbiology, Microscopy and Staining techniques; Bacterial Morphology, Bacterial Growth and Eukaryotic Microbiology	MCBG – P1 T	2017
		Demonstration of lab instruments, Microscopy, micrometry, staining	MCBG – P1 P	
		Virology, Biomolecules, Enzymes and Bacterial Metabolism; Environmental Microbiology-I	MCBG – P2 T	
		Biochemistry, culture techniques, environmental microbiology	MCBG – P2 P	
		Environmental Microbiology-I I; Molecular Biology-I and Industrial Microbiology	MCBG – P3 T	
		Biotyping ,Antibiotyping	MCBG – P3 P	
		Molecular Biology-II and Bacterial Genetics and Recombinant DNA Technology; Immunology and Medical Microbiology	MCBG – P4 T	
		Cell biology, Immunology, medical microbiology	MCBG – P4 P	



Signature of the Principal



Signature of the HOD



Ramakrishna Mission Vidyamandira

P.O. Belur Math, Dist. Howrah - 711202, West Bengal

A Residential Autonomous College affiliated to Calcutta University
College with Potential for Excellence * Re-accredited by NAAC with 'A'
Phone No. (033) 2654-9181 / 9632; E-mail: vidyamandira@gmail.com
Website : www.vidyamandira.ac.in

Notice No. BOS/MBIO/14

8th August 2017

Fifteenth Meeting of the Board of Studies

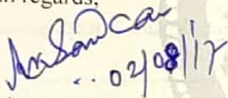
The 14th meeting of the Board of Studies for UG Course in Microbiology will be held on the 8th August 2017, Tuesday at 2.30 pm at the Teachers' Colloquium Room to discuss the following agenda. We would request you to be kindly present at the meeting by 2.00 pm.

Agenda:

- B. Sc. 2nd Sem. (1st year); 4th Sem. (2nd year) and 6th Sem. (3rd year) results
- Revision of syllabus
- Miscellaneous

All members are earnestly requested to attend the meeting.

With regards,


.. 02/08/17
(Asit Kumar Sarkar)
Head of the Department

Yours sincerely,

(Swami Shastrajnananda)
Principal

Members present in the meeting held on 08/08/2017

- 1)
- 2)
- 3) Mr. in San car
- 4) Ratan Kumar Das
- 5) Pranab Kumar Bagchi
- 6) Santanu Majumdar
- 7) Santu Chakrabarti
- 8) Sangit Dey
- 9) Chittapanigrahy
- 10) Apur
- 11) Anindam Roy
- 12) Aloke Anand ~~→ v.c. committee~~
- 13) ~~Chittapanigrahy~~
- 14) Dipankar Sankar
- 15) Anindam Roy
- 16) Abhishek Paul
- 17) Chandan Rai

- 1) Prof ARS given welcome address
- 2) Presentation given by DS
- 3) Discus on result of II Sem; Rumidil closed and ^{to be given for 276/304 of} ARS Sem.
- 4) Prof Aloke Kr. Sil proposed to increase intake - ^{for 276/304 of} ARS Sem.
Sir ~~mon~~ mentioned our hostel bed problem.
- 5) Discus on why marks reduced to few students & how to do proper monitoring them.
- 6) ~~⊗~~ All outgoing (passed out) VI Sem students ~~⊗~~ qualified in all National level competitive exam. - Sayantan Ghosh - IIT JAM exam rank II (appreciated by all).
- 7) All BOS member suggested that our syllabus have to be compared with guidelines of UGC model syllabus for CBCS.
- 8) Syllabus shifting approved by board member.
- 9) New incorporation of contents for both theory & practical syllabus approved by the members.
- ✓ 10) Western Blot technique can be incorporated ~~⊗~~ along with SDS-PAGE, ~~⊗~~ Sem VI

- 10) SD Sir suggested research scholars may come to our Dept for demonstrating few practicals if needed.
- 11) Reduction in the component of syllabus ~~by~~ proposed by SD Sir & SM Sir. → Modification in Enzyme Kinetics [Sem 3, Gr-D (part)]
- 12) Syllabus should be reformed in accordance with that of UGC model syllabus - in next BOS meeting. Also ~~not~~ mentioned it is necessary for next NAAC visit mentioned by AXL Sir.
- 13)

Proceeding of the meeting of Board of Studies:

Date: 8/8/17

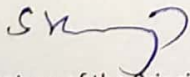
Time: 2 pm

Venue: Saradananda Conference hall

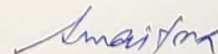
1. Proceeding of the last meeting was recorded and confirmed.
2. Nothing specific came up out of the discussion on proceedings.
3. Overall result of previous semester was discussed.
4. Members of the BoS discuss on the syllabus of Microbiology and following resolution was adopted in relation to the revision of the course:

Resolved that the following revisions be done and implemented from 01/01/2018:

Name of the Course	Semester	Course Code	Credit	Marks	Name of the Programme	Programme Code	Percentage of Revision
GENETICS AND GENOMICS-II IMMUNOLOGY-III VIROLOGY II RECOMBINANT DNA TECHNOLOGY MEDICAL MICROBIOLOGY Antigen-Antibody interaction Restriction digestion of DNA Ligation of DNA fragment SDS-PAGE and Western Blotting Project/Review Grand Viva	6	MCBA P8 P	13	100	B.Sc. Microbiology Hons	MCBA	20



Signature of the Principal



Signature of the HOD



Ramakrishna Mission Vidyamandira

P.O. Belur Math, Dist. Howrah - 711202, West Bengal

A Residential Autonomous College affiliated to Calcutta University
College with Potential for Excellence * Re-accredited by NAAC with 'A'
Phone No. (033) 2654-9181 / 9632; E-mail: vidyamandira@gmail.com
Website : www.vidyamandira.ac.in

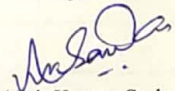
Notice No. BOS/MBIO/16

20th Feb., 2018

Sub : Sixteenth Meeting of the Board of Studies

The sixteenth meeting of the Board of Studies for UG Course in Microbiology will be held on the **20th February, 2018**, Tuesday at **2.30 pm** at the Saradananda Conference Hall to discuss the following agenda. We would request you to be kindly present at the meeting by **2.00 pm**.

With regards,


(Asit Kumar Sarkar)
Head of the Department

Yours sincerely,

(Swami Shastrajnananda)
Principal

Agenda:

- B. Sc. 1st Sem. (1st year); 3rd Sem. (2nd year) and 5th Sem. (3rd year) results
- Syllabus under CBCS system
- Miscellaneous

Proceedings of 16th B.O.S. meeting held on 20/02/2018

Participants:-

1. Amit Paul
2. Subrata Majumdar.
3. Arun Sanon
4. Santanu Majtra
5. Chandan Paul
6. Anindam Roy
7. Dipanku Sanyal
8. Abhishek Paul.
9. Anatp Kumar Das
10. Partha Chakrabarti.
11. Kanchitrananda
12. Purnyashoke Bhadury
13. Anurag Anand
14. SS
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.

Proceedings: —

1. HoD welcomed all.
2. Over view of result presented by Prof. DS.
3. One student of 1st Sem (from Bangladesh) could not qualify. He has left.
4. Sem V had very good result (all > 70% in Sem V)
5. Zabihur should be encouraged to get 60% marks
6. Jisan Sanyal has improved well in the 5th Sem.
7. UGC proposed CBCS syllabus was discussed.
8. All core

9. Prof. A.K. Sil replied not to change in UGC proposed syllabus format. He told that UGC syllabus is very good.

10. DSE = 2 / 6 / 9 / 10

11. Basic principle of Bioinformatics may be incorporated into the syllabus

11. Next incorporation depending on ^{departmental} strength
in Bioinformatics
Biostat
Plant ~~Pathology~~ Pathology

12. Prof. A.K. Sil told that CBCS should be started from 2018-19 session in the dept because it is started by CU from this session

13. Principal Maharaj replied that being Autonomous Institution, it is not applicable to RKM Vidyamandira. So, RKMV would not start CBCS from 2018-19.

14. In RKMV SE could be substituted by value addition courses

15. Project at Sem V

16. Project to be divided into — 1. Review of literature — marks allotted — ~~more marks 25~~
20 marks 2. Bench work — marks allotted — ~~less marks 15~~

40 marks 17. Continuous fund from college is required to run bench work.

18. SM: Modification of Nucleic Acid Biochemistry [Sem I, G.B. (part)]

Proceeding of the meeting of Board of Studies:

Date: 20/2/18

Time: 2 pm

Venue: Saradananda Conference hall

1. Proceeding of the last meeting was recorded and confirmed.
2. Nothing specific came up out of the discussion on proceedings.
3. Overall result of previous semester was discussed.
4. Members of the BoS discuss on the syllabus of Microbiology and following resolution was adopted in relation to the revision of the course:

Resolved that the following revisions be done and implemented from 01/01/2018:

Programme name	Programme code	Name of the course	Code of course	Revision done	% of revision
Microbiology Hons	MCBA	GENERAL MICROBIOLOGY-I, MICROBIOLOGICAL METHODS, BIOPHYSICS, STEREOCHEMISTRY AND BIOMOLECULES-I, BIOMETRY I	MCBA P1 T	Nucleic acid	20

Signature of the Principal

Signature of the HOD