



**RAMAKRISHNA MISSION  
VIVEKANANDA CENTENARY COLLEGE**

(An Autonomous College under West Bengal State University)

**P.O. RAHARA, KOLKATA-700118**

**WEST BENGAL, INDIA**

*College with Potential for Excellence (CPE)*  
Accredited by NAAC with Grade A

Ph: 033-2568-2049

Email: [rkmvccollege@rkmvccrahara.org](mailto:rkmvccollege@rkmvccrahara.org)

Website: [rkmvccrahara.org](http://rkmvccrahara.org)

**Date : 11-08-2017**

**NOTICE**

A meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College, Rahara, will be held at the Mathematics Department of the college on Friday, the 18<sup>th</sup> August, 2017 at 3.00 PM.

Members are requested kindly to attend.

*PKRana 11-08-17*  
Dr.P.K.Rana  
(Dr. Pravanjan Kumar Rana)  
HOD & Chairman of BOS  
Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

## Department of Mathematics

**The following List of External Members for Paper setter and Moderator has been approved**

**Semester-I**

**CI**

Sl.No.	Name, Designation, and Present Affiliation	Paper Setter	Moderator	Mobile& e-mail
1	Prof. Subenoy Chakraborty, Professor, Dept. of Mathematics Jadavpur University	√	√	schakraborty@math.jdvu.ac.in 9433356784
2	Prof. Chanchal Kumar Basu, Professor, Department of Mathematics, WBSU	×	√	9433421144
3	Prof. Abhijit Banerjee, Professor, Dept. of Mathematics, University of Kalyani.	√	√	abanerjee_kal@yahoo.co.in abanerjee_kal@gmail.com abanerjee_kal@rediffmail.com 09432060523, 09432587251
4	Prof. Arindam Bhattacharyya, Professor, Dept. of Mathematics Jadavpur University	√	√	abhattacharya@math.jdvu.ac.in / aribh22@hotmail.com / arin1968@indiatimes.com 09433949472
5	Prof. Bijay Baran Pal, Professor, Dept. of Mathematics, University of Kalyani	×	√	bbpal18@hotmail.com 9674321836
6	Dr. Gour Chandra Mahata, Asst. Professor of Math. Dum Dum Motijheel College	√	√	9474190816 gourmahata@yahoo.co.in
7	Dr. Sandip Jana, Asst. Professor, Department of Mathematics, Calcutta University	×	√	9432433132 Sjpm12@gmail.com
8	Dr. Pabitra Debnath, Asst. Professor of Math St. Xavier's College, Kolkata	√	×	9874132377 Pdebnath23@gmail.com
9	Dr. Sumanta Chattopadhyay, Asst. Professor of Math, Sovarani Memorial College, Howrah	√	√	9477486484
10	Dr. Subrata Bhowmik, Associate Professor of Math, Tripura University	√	√	8258946624 Bhowmik_s@tripuruniv.in
11	Dr. Ramij Rahaman, Asst. Professor of MATH, University of Allahabad	√	×	9628199072 ramijrahaman@gmail.com
12	Dr. Debraj Chandra, Asst. Professor of MATH, University of Gour Banga	√	×	9062070030 Debrajchandra1986@gmail.com
13	Dr. Sudip Kumar Pal Assistant Professor Dept. of Mathematics Diamond Harbor Women's University	√	√	sudipkmpal@yahoo.co.in sudipkmpal@yahoo.in 09051158192 08697971705
14	Dr. Amarjit Kundu, Asst. Professor of Math, Santipur College	√	√	9433135396



## **Department of Mathematics**

**The following List of External Members for Paper setter and Moderator has been approved**

### **Semester-I**

### **C2**

Sl.No.	Name, Designation, and Present Affiliation	Paper Setter	Moderator	Mobile& e-mail
1	Prof.M.N.Mukherjee, Department of Mathematics, CU	×	√	9433278768
2	Prof. Sanjib Kumar Datta, Dept. of Mathematics University of Kalyani	√	√	<a href="mailto:sanjib_kr_datta@yahoo.co.in">sanjib_kr_datta@yahoo.co.in</a> 09593403873,08017105978
3	Dr. Avijit Sarkar Dept. of Mathematics University of Kalyani	√	√	<a href="mailto:avjaj@yahoo.co.in">avjaj@yahoo.co.in</a> 9932220737
4	Dr.Sahidul Islam, Dept. of Mathematics University of Kalyani	√	√	<a href="mailto:sahidul.math@gmail.com">sahidul.math@gmail.com</a> 9433122823,
5	Dr. Bappa Das, Ramakrishna Mission Vidyamandira, Belur Math	√	√	bappa.das1@gmail.com
6	Dr. Sujit Kumar De, Associate Prof of MATH, Midnapore College (Autonomous),	√	√	9733060745
7	Dr. Santosh Biswas Dept. of Mathematics Jadavpur University	√	√	<a href="mailto:sant_biswas@yahoo.co.in">sant_biswas@yahoo.co.in</a> <a href="mailto:sant.biswas@gmail.com">sant.biswas@gmail.com</a> 9474658983
8	Dr. Manab Ghosh, Asst. Professor of MATH, Kalyani Mahavidyalaya	√	×	9831352321
9	Dr. Sanjukta Chakraborty Associate Professor Dept. of Mathematics AJC Bose College, CU	√	√	sanjuktachakraborty77@gmail.com
10	Dr. Pulak Sahoo Assistant Professor, Dept. of Mathematics, University of Kalyani	√	×	<a href="mailto:sahoopulak1@gmail.com">sahoopulak1@gmail.com</a> 09432919372
11	Dr. Ritabrata Biswas Assistant Professor Dept. of Mathematics Burdwan University	√	×	biswas.ritabrata@gmail.com 7407206393
12	Dr. Soumen De, Department of Applied Mathematics, CU	√	√	9231893526
13	Dr. Sanjoy Kr. Ghosal Assistant Professor Dept. of Mathematics Netaji Subhas Open University	√	√	<a href="mailto:sanjoykrghosal@yahoo.co.in">sanjoykrghosal@yahoo.co.in</a> 09432902847
14	Dr. Dibyendu Ghosh Barackpore, Asst. Professor of MATH, Rastraguru Surendranath College.	√	√	9433270623

The meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College held at the Mathematics Department of the college on Friday, the 18th August, 2017 at 3.00 PM.

### Members Present:

Sl. No.	Name:	Members	Signature
1	Dr. Pravanjan Kumar Rana	Chair Person, INTERNAL	Pravanjan Kr. Rana
2	Sri Partha Ray	INTERNAL	Partha Ray
3	Sri Sujoy Kr. Biswas	INTERNAL	Sujoy Kr. Biswas
4	Sri Abhishek Kanti Biswas	INTERNAL	Abhishek Kanti Biswas
5	Sri Bikash Chakraborty	INTERNAL	Bikash Chakraborty 18/Aug/17
6	Prof. Samaresh Pal, KU	ALUMNI	
7	Prof. Avishek Adhikari, CU	EXTERNAL EXPERTS	Avishek Adhikari 18/8/17
8	Prof. Biswajit Mitra, BU	EXTERNAL EXPERTS	B. Mitra
9	Prof. Chanchal Kr. Basu, WBSU	UNIVERSITY NOMINEE	

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator



**R.K.M.V.C. College, Rahara, Kolkata- 700118.**

Proceedings of meeting of the Board of studies in Mathematics Department of R.K.M.V.C College held at the Mathematics Department on Friday, 18<sup>th</sup> August, 2017 at 3:00 PM.

The Chairman took the chair.

1. The syllabus presented in the meeting was unanimously approved in the Board meeting.
2. A list of teachers from different colleges under different universities were made to act as External Paper setter and Moderator in the semester examination and list was unanimously accepted by the members present in the Board meeting.
3.
  - i) Resolved that whole syllabus of B.Sc Mathematics be introduced with Choice Based Credit System (CBCS) from session 2017-2018.
  - ii) Further resolved that 85% modification of the B.Sc. Mathematics syllabus be adopted from the session 2017-2018.
  - iii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Mathematics.
  - iv) Resolved that the identified PSOs and COs of all courses be introduced from this session 2017-2018 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
  - v) All members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Mathematics.
  - vi) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
  - vii) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
  - viii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2017-18
  - ix) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Mathematics.
  - x) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2017-2018.
  - xi) Prof. Adhikari and Prof. Mitra suggested that  
In Semester V 'Industrial Mathematics' as DSE-III should be included.  
In CI, Unit-4 the topic 'Introduction to Vector Spaces' should be included.  
Practical problem for all semester can be solved using 'SAGE' software on 'LINUX'.

The meeting ended with a vote of thanks to the Chair.

*P.K. Lane* 18-08-2017  
(.....)

HOD & Chairman of BOS

Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118



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**BOS/MATH/2-18**

**Date :17-03-2018**

**NOTICE**

A meeting of the Board of studies in Mathematics Department of RKMVC College, Rahara, will be held at the Mathematics Department of the college on Friday, 23<sup>rd</sup> March, 2018 at 3pm.

Members are requested kindly to attend.

*P.K. Rana*

**Dr. P.K.RANA**

**HOD & Chairman of BOS**

*Head*

*Dept. of Mathematics*

*Ramakrishna Mission Vivekananda*

*Centenary College*

*Rahara, Kolkata-700118*

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system-II;
2. To consider the matter in respect of External Paper Setter and Moderator for End II-Semester Examination;
3. To consider question pattern of End Semester Examination
4. Any other matter with permission of the Chair.



The meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College held at the Mathematics Department of the college on Friday, the 23<sup>rd</sup> March, 2018 at 3.00 PM.

Meeting No. BOS/MATH/2-18

Date: 23-03-2018

Sl. No.	Name:	Members
1	Dr. Pravanjan Kumar Rana	Chair Person, INTERNAL
2	Sri Partha Ray	INTERNAL
3	Dr. Sujay Kr. Biswas	INTERNAL
4	Sri Abhishek Kanti Biswas	INTERNAL
5	Dr. Bikash Chakraborty	INTERNAL
6	Prof. Samaresh Pal, KU	ALUMNI
7	Prof. Avishek Adhikari, CU	EXTERNAL EXPERTS
8	Prof. Biswajit Mitra, BU	EXTERNAL EXPERTS
9	Prof. Chanchal Kr. Basu, WBSU	UNIVERSITY NOMINEE

1. To consider the matter relating to syllabus of the Semester system-II;
2. To consider the matter in respect of External Paper Setter and Moderator for End II-Semester Examination;
3. To consider question pattern of End Semester Examination
4. To consider the matter relating to syllabus of M.Sc. in Mathematics Under CBCS;
5. Any other matter with permission of the Chair.

The meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College held at the Mathematics Department of the college on Friday, the 23<sup>rd</sup> March, 2018 at 3.00 PM.

Meeting No. BOS/MATH/2-18

Date: 23-03-18

### Members Present:

Sl. No.	Name:	Members	Signature
1	Dr. Pravanjan Kumar Rana	Chair Person, INTERNAL	P.K. Rana 23/3/18
2	Sri Partha Ray	INTERNAL	Partha Ray 23/3/18
3	Dr. Sujay Kr. Biswas	INTERNAL	Sujay Kr. Biswas 23/03/2018.
4	Sri Abhishek Kanti Biswas	INTERNAL	Abhishek Kanti Biswas 23/3/18
5	Dr. Bikash Chakraborty	INTERNAL	Bikash Chakraborty 23/March/18
6	Prof. Samaresh Pal, KU	ALUMNI	Samaresh Pal 23-03-2018
7	Prof. Avishek Adhikari, CU	EXTERNAL EXPERTS	
8	Prof. Biswajit Mitra, BU	EXTERNAL EXPERTS	Biswajit Mitra 23/3/18
9	Prof. Chanchal Kr. Basu, WBSU	UNIVERSITY NOMINEE	

5. To consider the matter relating to syllabus of the Semester system-II;
6. To consider the matter in respect of External Paper Setter and Moderator for End II-Semester Examination;
7. To consider question pattern of End Semester Examination
8. To consider the matter relating to syllabus of M.Sc. in Mathematics Under CBCS;
9. Any other matter with permission of the Chair.



## Department of Mathematics

**The following List of External Members for Paper setter and Moderator has been approved**

**Semester-II**

**C3**

Sl.No.	Name, Designation, and Present Affiliation	Paper Setter	Moderator	Mobile& e-mail
1	Prof. Subenoy Chakraborty, Professor, Dept. of Mathematics Jadavpur University	√	√	schakraborty@math.jdvu.ac.in 9433356784
2	Prof. Chanchal Kumar Basu, Professor, Department of Mathematics, WBSU	×	√	9433421144
3	Prof. Abhijit Banerjee, Professor, Dept. of Mathematics, University of Kalyani.	√	√	abanerjee_kal@yahoo.co.in abanerjeeekal@gmail.com abanerjee_kal@rediffmail.com 09432060523,09432587251
4	Prof. Arindam Bhattacharyya, Professor, Dept. of Mathematics Jadavpur University	√	√	abhattacharya@math.jdvu.ac.in/ aribh22@hotmail.com / arin1968@indiatimes.com 09433949472
5	Prof. Bijay Baran Pal, Professor, Dept. of Mathematics, University of Kalyani	×	√	bbpal18@hotmail.com 9674321836
6	Dr. Gour Chandra Mahata, Asst. Professor of Math. Dum Dum Motijheel College	√	√	9474190816 gourmahata@yahoo.co.in
7	Dr. Sandip Jana, Asst. Professor, Department of Mathematics, Calcutta University	×	√	9432433132 Sjpm12@gmail.com
8	Dr. Pabitra Debnath, Asst. Professor of Math St. Xavier's College, Kolkata	√	×	9874132377 Pdebnath23@gmail.com
9	Dr. Sumanta Chattopadhyay, Asst. Professor of Math, Sovarani Memorial College, Howrah	√	√	9477486484
10	Dr. Subrata Bhowmik, Associate Professor of Math, Tripura University	√	√	8258946624 Bhowmik_s@tripuruniv.in
11	Dr. Ramij Rahaman, Asst. Professor of MATH, University of Allahabad	√	×	9628199072 ramijrahaman@gmail.com
12	Dr. Debraj Chandra, Asst. Professor of MATH, University of Gour Banga	√	×	9062070030 Debrajchandra1986@gmail.com
13	Dr. Sudip Kumar Pal Assistant Professor Dept. of Mathematics Diamond Harbor Women's University	√	√	sudipkmpal@yahoo.co.in sudipkmpal@yahoo.in 09051158192 08697971705
14	Dr. Amarjit Kundu, Asst. Professor of Math, Santipur College	√	√	9433135396
15	Dr. Bapi Saha, Berhampore Govt. Eng. College, Home-Belghoria	√	√	9339831862
16	Dr. Amalendu Ghosh	√	√	9830522924



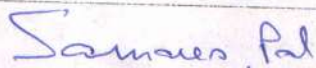
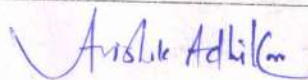
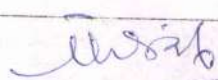
**Department of Mathematics**  
**The following List of External Members for Paper setter and Moderator has been approved**  
**Semester-II**

**C4**

Sl.No.	Name, Designation, and Present Affiliation	Paper Setter	Moderator	Mobile& e-mail
1	Prof.M.N. Mukherjee, Department of Mathematics, CU	×	√	9433278768
2	Prof. Sanjib Kumar Datta, Dept. of Mathematics, University of Kalyani	√	√	sanjib_kr_datta@yahoo.co.in 09593403873,08017105978
3	Dr. Avijit Sarkar Dept. of Mathematics University of Kalyani	√	√	avjaj@yahoo.co.in 9932220737
4	Dr.Sahidul Islam, Dept. of Mathematics, University of Kalyani.	√	√	sahidul.math@gmail.com 9433122823,
5	Dr. Bappa Das, Ramakrishna Mission Vidyamandira, Belur Math	√	√	bappa.das1@gmail.com
6	Dr. Sujit Kumar De, Associate Prof of MATH, Midnapore College (Autonomous),	√	√	9733060745
7	Dr. Santosh Biswas Dept. of Mathematics Jadavpur University	√	√	sant_biswas@yahoo.co.in sant.biswas@gmail.com 9474658983
8	Dr. Manab Ghosh, Asst.Professor of MATH, Kalyani Mahavidhyalaya	√	×	9831352321
9	Dr. Sanjukta Chakraborty Associate Professor Dept. of Mathematics AJC Bose College, CU	√	√	sanjuktachakraborty77@gmail.com
10	Dr. Pulak Sahoo Assistant Professor, Dept. of Mathematics, University of Kalyani	√	×	sahoopulak1@gmail.com 09432919372
11	Dr. Ritabrata Biswas Assistant Professor Dept. of Mathematics Burdwan University	√	×	biswas.ritabrata@gmail.com 7407206393
12	Dr. Soumen De, Department of Applied Mathematics, CU	√	√	9231893526
13	Dr. Sanjoy Kr. Ghosal Assistant Professor Dept. of Mathematics Netaji Subhas Open University	√	√	sanjoykrghosal@yahoo.co.in 09432902847
14	Dr.Dibyendu Ghosh, Barackpore, Asst. Professor of MATH, Rastraguru Surendranath College.	√	√	9433270623
15	Dr. Manas Kr. Ghosh, Asso. Professor, Srirampur College	√	√	9433425931
16	Dr. Somnath Banerjee	√	√	9831157868



**Expert Committee for the Syllabus approval of PG course in  
Mathematics under CBCS of Ramakrishna Mission Vivekananda  
Centenary College, Rahara, Kolkata-700118.**

<b>Sl. No.</b>	<b>Name &amp; Designation:</b>	<b>Signature</b>
1	Prof. Samaresh Pal, Professor, Kalyani University, <b>Chairperson of Syllabus Committee</b>	 23/03/18
2	Prof. Avishek Adhikari, Asst. Professor, Calcutta University, <b>Member</b>	
3	Prof. Biswajit Mitra, Asst. Professor, Burdwan University, <b>Member</b>	 23/3/18

R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.

**Meeting No. BOS/MATH/2-18**

**Date: 23-03-2018**

Proceedings of the meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College held at the Mathematics Department of the college on Friday, the 23<sup>rd</sup> March, 2018 at 3.00 PM.

The Chairman took the Chair.

1. The syllabus for Semester-II presented in the meeting was unanimously approved in the Board Meeting;
2. A list of teachers from different colleagues under different Universities were made to act as External Paper and Moderator in the Semester Examinations. This list was unanimously accepted by the members present in the Board Meeting;
3. The question pattern for Semester-II presented in the meeting was unanimously approved in the Board Meeting;
4. To consider the matter relating to the Syllabus of M.Sc. in Mathematics Under CBCS ;

construct Expert Committee with following members for the Syllabus approval of PG course in Mathematics under CBCS w.e.f 2018,

Sl. No.	Name & Designation:
1	Prof. Samarendra Pal, Professor, Kalyani University, Chairperson of Syllabus Committee
2	Prof. Avishek Adhikari, Asst. Professor, Calcutta University, Member
3	Prof. Biswajit Mitra, Asst. Professor, Burdwan University, Member

**Discussion:**

\*\* The syllabus for M.Sc. in Mathematics Under CBCS ; presented in the Syllabus approval Meeting was unanimously approved;

\*\* Prof. Adhikari and Prof Mitra suggested that

- i. Some topics in Algebra & Analysis Syllabus should be included which will be helpful for NET, SET & GATE etc., Examinations;
- ii. Linear Algebra syllabus should be modified.



5.

- i) Resolved that whole syllabus of M. Sc Mathematics be introduced with Choice Based Credit System (CBCS) from session 2018-2019.
- ii) Further resolved that 100% modification of the M.Sc. Mathematics syllabus be adopted from the session 2018-2019.
- iii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of M. Sc. Mathematics.
- iv) Resolved that the identified PSOs and COs of all courses be introduced from this session 2018-2019 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
- v) All members discussed the relevance to the local, national, regional and global needs present in all the courses in M. Sc. Mathematics.
- vi) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
- vii) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- viii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2018-2019
- ix) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in M. Sc. Mathematics.
- x) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2018-2019.

The meeting ended with a vote of thanks to the Chair.

(.....*P.K. Rane* - *23/9*.....)

HOD & Chairman of BOS

Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118



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Website: [rkmvccrahara.org](http://rkmvccrahara.org)

**Date : 11-08-2019**

**NOTICE**

A meeting of the Board of studies in Mathematics Department of Ramakrishna Mission Vivekananda Centenary College, Rahara, will be held at the Mathematics Department of the college on Friday, the 16<sup>th</sup> August, 2019 at 3.30 PM.

Members are requested kindly to attend.

Dr.P.K.Rana *P.K.Rana*  
(Dr. Pravanjan Kumar Rana)  
HOD & Chairman of BOS

Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118

**Agenda:**

1. Confirmation of the Proceeding of the previous meeting;
2. To consider the matter relating to UG-syllabus of the Semester-I, III & V;
3. To consider the matter in respect of External Paper Setter and Moderator for the End Semester-I, III & V;
4. To consider the matter relating to Question pattern of UG-Mid / End Semester(Theory/Practical/Tutorial)Examination;
5. To consider the matter relating to PG-syllabus of the Semester-I, III;
6. To consider the matter relating to Question pattern of PG-Mid / End Semester-I, III Examination;
7. To consider the matter in respect of Moderator for the PG-End Semester- I, III ;
8. Any other matter with permission of the Chair.

**Copy to:-**

1. Prof. Sanjib Kumar Datta, Department of Mathematics, Kalyani University
2. Prof. Chanchal Kr. Basu, Department of Mathematics, WBSU
3. Prof. Sabyasachi Bhattacharya, Professor of ISI, Kolkata
4. Prof. Avishek Adhikari, Department of Mathematics, Presidency University
5. Prof. Partha Ray, Department of Mathematics, RKMVC College, Rahara
6. Prof. Sujay Kr. Biswas, Department of Mathematics, RKMVC College, Rahara
7. Prof. Abhishek Kanti Biswas, Department of Mathematics, RKMVC College, Rahara
8. Prof. Bikash Chakraborty, Department of Mathematics, RKMVC College, Rahara



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

The meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College held at the Mathematics Department of the college on Friday, the 16<sup>th</sup> August, 2019 at 3.30 PM.

**Members Present:**

Sl. No.	Name:	Members	Signature
1	Prof. Pravanjan Kumar Rana	Chair Person, INTERNAL	P.K. Rana 16-08-2019
2	Prof. Partha Ray	INTERNAL	Partha Ray 16/08/19
3	Prof. Sujay Kr. Biswas	INTERNAL	Sujay Kr. Biswas 16.08.19.
4	Prof. Abhishek Kanti Biswas	INTERNAL	Abhishek Kanti Biswas 16/8/19
5	Prof. Bikash Chakraborty	INTERNAL	Bikash Chakraborty 16/Aug/2019
6	Prof. Sanjib Kumar Datta, KU	ALUMNI	Sanjib Kumar Datta 16.08.2019
7	Prof. Avishek Adhikari, CU	EXTERNAL EXPERTS	Avishek Adhikari 16/8/19
8	Prof. Sabyasachi Bhattacharya, Professor of ISI, Kolkata	EXTERNAL EXPERTS	S. Bhattacharya 16.8.19.
9	Prof. Chanchal Kr. Basu, WBSU	UNIVERSITY NOMINEE	

1. Confirmation of the Proceeding of the previous meeting;
2. To consider the matter relating to UG-syllabus of the Semester-I, III & V;
3. To consider the matter in respect of External Paper Setter and Moderator for the End Semester-I, III & V;
4. To consider the matter relating to Question pattern of UG-Mid / End Semester(Theory/Practical/Tutorial)Examination;
5. To consider the matter relating to PG-syllabus of the Semester-I, III;
6. To consider the matter relating to Question pattern of PG-Mid / End Semester-I, III Examination;
7. To consider the matter in respect of Moderator for the PG-End Semester- I, III ;
8. Any other matter with permission of the Chair.

**QUESTION PATTERN FOR UG-COURSE (MID & END SEM)**  
**COURSE C1: HE-AKB**  
**C1-Calculus, Geometry & Differential Equation**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1&amp;2: Name of the Questions Setter / Examiner-AKB</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--AKB</b>	<b>Marks</b>
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
		<b>Unit-2: Name of the Questions Setter / Examiner-AKB</b> i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>Unit-3: Name of the Questions Setter / Examiner-PS</b>		<b>Unit-3: Name of the Questions Setter / Examiner- AKB &amp; PS</b> i) Attempt 2 questions out of 4 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 4 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>Unit-4: Name of the Questions Setter / Examiner-AB</b>		<b>Unit-4: Name of the Questions Setter / Examiner-AB</b> i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>14</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**QUESTION PATTERN FOR UG-COURSE (MID & END SEM)**  
**COURSE C2: HE-BC**  
**C2-Algebra**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-BC</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--BC</b>	<b>Marks</b>
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>Unit-2: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-2: Name of the Questions Setter / Examiner-SP</b>	
		i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ iii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>14</b>
<b>Unit-3: Name of the Questions Setter / Examiner-BC</b>		<b>Unit-3: Name of the Questions Setter / Examiner-BC</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>Unit-4: Name of the Questions Setter / Examiner-BC</b>		<b>Unit-4: Name of the Questions Setter / Examiner-BC</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**  
**COURSE C5: HE-BC**

**C5-Theory of Real functions & Introduction to Metric Space**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-BC</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--BC</b>	<b>Marks</b>
		i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>14</b>
<b>Unit-2: Name of the Questions Setter / Examiner-BC</b>		<b>Unit-2: Name of the Questions Setter / Examiner- BC</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-3: Name of the Questions Setter / Examiner-PKR</b>		<b>Unit-3: Name of the Questions Setter / Examiner-PKR</b>	
		i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>14</b>
<b>Unit-4: Name of the Questions Setter / Examiner-PKR</b>		<b>Unit-4: Name of the Questions Setter / Examiner-PKR</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**QUESTION PATTERN FOR UG- COURSE (MID & END SEM)**

**COURSE C6: HE-PR**

**C6-Group Theory**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-PR</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--PR</b>	<b>Marks</b>
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 1 question out of 2 questions and each question carries 4 marks = $1 \times 4 = 4$	<b>6</b>
<b>Unit-2: Name of the Questions Setter / Examiner-PR</b>		<b>Unit-2: Name of the Questions Setter / Examiner-PR</b>	<b>6</b>
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 1 question out of 2 questions and each question carries 4 marks = $1 \times 4 = 4$	
<b>Unit-3: Name of the Questions Setter / Examiner-PR</b>		<b>Unit-3: Name of the Questions Setter / Examiner-PR</b>	<b>14</b>
		i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ iii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
<b>Unit-4: Name of the Questions Setter / Examiner-PR</b>		<b>Unit-4: Name of the Questions Setter / Examiner-PR</b>	<b>12</b>
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
<b>Unit-5: Name of the Questions Setter / Examiner-PR</b>		<b>Unit-5: Name of the Questions Setter / Examiner-PR</b>	<b>12</b>
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FOR UG- COURSE (MID & END SEM)**  
**COURSE C7: HE-SKB**  
**C7-Numerical Methods**

MID SEM.: Total Marks.-25		END SEM: Total Marks.-50	
Unit-1:Name of the Questions Setter / Examiner-SKB	Marks	Unit-1: Name of the Questions Setter / Examiner--SKB	Marks
		Answer any ONE from TWO questions $1 \times 2 = 2$	2
Unit-2:Name of the Questions Setter / Examiner-SKB		Unit-2:Name of the Questions Setter / Examiner-SKB	10
		Answer any TWO from THREE questions $2 \times 5 = 10$	
Unit-3:Name of the Questions Setter / Examiner-SKB		Unit-3:Name of the Questions Setter / Examiner-SKB	6
		i) Answer the question (ONE) COMPULSORY: Mark-1 ii) Answer any ONE from TWO questions $1 \times 5 = 5$	
Unit-4:Name of the Questions Setter / Examiner-SKB		Unit-4:Name of the Questions Setter / Examiner-SKB	10
		Answer any TWO from THREE questions $2 \times 5 = 10$	
Unit-5: Name of the Questions Setter / Examiner-AB		Unit-5: Name of the Questions Setter / Examiner-AB	12
		i) Answer any ONE from TWO questions $1 \times 2 = 2$ ii) Answer any TWO from THREE questions $2 \times 5 = 10$	
Unit-6: Name of the Questions Setter / Examiner-AB		Unit-6: Name of the Questions Setter / Examiner-AB	10
		i) Answer any TWO from THREE questions $2 \times 5 = 10$	
TOTAL MARKS FOR MID SEM		TOTAL MARKS FOR END SEM	
		50	



**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**  
**COURSE C11: HE-SKB**

**C11-Partial Differential Equations and Applications**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-SKB</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--SKB</b>	<b>Marks</b>
		i) Answer any TWO from THREE questions $2 \times 2 = 4$ ii) Answer any TWO from THREE questions $2 \times 5 = 10$	<b>14</b>
<b>Unit-2: Name of the Questions Setter / Examiner-SKB</b>		<b>Unit-2: Name of the Questions Setter / Examiner- SKB</b>	
		i) Answer any TWO from THREE questions $2 \times 5 = 10$	<b>10</b>
<b>Unit-3: Name of the Questions Setter / Examiner-SKB</b>		<b>Unit-3: Name of the Questions Setter / Examiner-SKB</b>	
		i) Answer any TWO from THREE questions $2 \times 7 = 14$	<b>14</b>
<b>Unit-4: Name of the Questions Setter / Examiner-AB</b>		<b>Unit-4: Name of the Questions Setter / Examiner-AB</b>	
		i) Answer any ONE from TWO questions $1 \times 2 = 2$ ii) Answer any TWO from THREE questions $2 \times 5 = 10$	<b>12</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**  
**COURSE C12: HE-PKR**  
**C12-Group Theory-II**

MID SEM.: Total Marks.-25		END SEM: Total Marks.-50	
Unit-1:Name of the Questions Setter / Examiner-PR	Marks	Unit-1: Name of the Questions Setter / Examiner--PR	Marks
		i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	14
Unit-2: Name of the Questions Setter / Examiner-PR		Unit-2: Name of the Questions Setter / Examiner- PR	10
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
Unit-3: Name of the Questions Setter / Examiner-PKR		Unit-3: Name of the Questions Setter / Examiner-PKR	14
		i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
Unit-4: Name of the Questions Setter / Examiner-PKR		Unit-4: Name of the Questions Setter / Examiner-PKR	12
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
TOTAL MARKS FOR MID SEM		TOTAL MARKS FOR END SEM	50



**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**  
**COURSE DSE-1: HE-AKB**  
**Linear Programming**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-AKB</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner-- AKB</b>	<b>Marks</b>
		i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>15</b>
<b>Unit-2: Name of the Questions Setter / Examiner- AKB</b>		<b>Unit-2: Name of the Questions Setter / Examiner- AKB</b>	
		i) Attempt 4 questions out of 6 questions and each question carries 5 marks = $4 \times 5 = 20$	<b>20</b>
<b>Unit-3: Name of the Questions Setter / Examiner- AKB</b>		<b>Unit-3: Name of the Questions Setter / Examiner- AKB</b>	
		i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>15</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**  
**COURSE DSE-II: HE-S Bhattacharya, ISI**  
**Probability and Statistics**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-SB</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--SB</b>	<b>Marks</b>
	<b>25</b>	i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	<b>12</b>
<b>Unit-2: Name of the Questions Setter / Examiner-SB</b>		<b>Unit-2: Name of the Questions Setter / Examiner- SB</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	<b>12</b>
<b>Unit-3: Name of the Questions Setter / Examiner-SB</b>		<b>Unit-3: Name of the Questions Setter / Examiner-SB</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	<b>14</b>
<b>Unit-4: Name of the Questions Setter / Examiner-SB</b>		<b>Unit-4: Name of the Questions Setter / Examiner-SB</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	<b>12</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**  
**COURSE GE1: HE-PR**  
**GE1-Algebra**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-BC&amp;PR</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner—BC&amp;PR</b>	<b>Marks</b>
	<b>5+5</b>	i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 4 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-2: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-2: Name of the Questions Setter / Examiner-SP</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-3: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-3: Name of the Questions Setter / Examiner-SP</b>	
	<b>10</b>	i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-4: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-4: Name of the Questions Setter / Examiner-SP</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-5: Name of the Questions Setter / Examiner-SKB</b>		<b>Unit-5: Name of the Questions Setter / Examiner-SKB</b>	
	<b>5</b>	i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FOR UG-COURSE (MID & END SEM)**  
**COURSE GE3: HE-AKB**  
**GE3-Algebra**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1: Name of the Questions Setter / Examiner-PKR</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--PKR</b>	<b>Marks</b>
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-2: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-2: Name of the Questions Setter / Examiner-SP</b>	
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-3: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-3: Name of the Questions Setter / Examiner-SP</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-4: Name of the Questions Setter / Examiner-SP</b>		<b>Unit-4: Name of the Questions Setter / Examiner-SP</b>	
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>Unit-5: Name of the Questions Setter / Examiner-AKB</b>		<b>Unit-5: Name of the Questions Setter / Examiner-AKB</b>	
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**The following List of External Members for Paper setter and Moderator  
FOR UG, PAPER :- C1,C2,C5 , C6 & C7,C11,C12,DSE1,DSE2**

Sl.No	Name, Designation, and Present Affiliation	Paper Setter	Moderator	Mobile& e-mail	Papers
1	Prof. M.N. Mukherjee, Department of Mathematics, CU	×	√	9433278768	Except- C7,C11, DSE1 &2
2	Prof. Chanchal Kumar Basu, Professor, Department of Mathematics, WBSU	×	√	9433421144	Except- C7,C11, DSE1 &2
3	Prof. Abhijit Banerjee, Professor, Dept. of Mathematics, University of Kalyani.	√	√	abanerjee_kal@yahoo.co.in abanerjeeekal@gmail.com abanerjee_kal@rediffmail.co m 09432060523,09432587251	Except- C7,C11, DSE1 &2
4	Prof. Sanjib Kumar Datta, Dept. of Mathematics ,University of Kalyani	√	√	sanjib_kr_datta@yahoo.co.i n 09593403873,08017105978	Except- C7,C11, DSE1 &2
5	Dr. Manas Kr. Ghosh, Asso. Professor, Srirampur College	√	√	9433425931	C7,C11, DSE1 &2
6	Dr. Gour Chandra Mahata, Asso.Professor of Math. SKBU,Purulia	√	√	9474190816 gourmahata@yahoo.co.in	All
7	Dr. Sandip Jana, Asst .Professor, Department of Mathematics, Calcutta University	×	√	9432433132 Sjpm12@gmail.com	Except- C7,C11, DSE1 &2
8	Dr. Pabitra Debnath , Asst. Professor of Math St. Xavier's College, Kolkata	√	×	9874132377 Pdebnath23@gmail.com	Except- C7,C11, DSE1 &2
9	Dr. Sumanta Chattopadhyay , Asst. Professor of Math, Sovarani Memorial College, Howrah	√	√	9477486484	Except- C7,C11, DSE1 &2
10	Dr. Subrata Bhowmik, Associate Professor of Math, Tripura University	√	√	8258946624 Bhowmik_s@tripuruniv.in	ALL
11	Dr. Ramij Rahaman, Asst. Professor of MATH, University of Allahabad	√	×	9628199072 ramijrahaman@gmail.com	ALL
12	Dr. Debraj Chandra, Asst. Professor of MATH, University of Gour Banga	√	×	9062070030 Debrajchandra1986@gmail. com	ALL
13	Dr. Sudip Kumar Pal Assistant Professor Dept. of Mathematics Diamond Harbor Women's University	√	√	sudipkmpal@yahoo.co.in sudipkmpal@yahoo.in 09051158192 08697971705	Except- C7,C11, DSE1 &2
14	Dr. Amarjit Kundu, Professor of Math, Raiganj University	√	√	9433135396	ALL
15	Dr. Bapi Saha, Berhampore Govt. Eng. College;Home-Belghoria	√	√	9339831862	ALL
16	Dr. Amalendu Ghosh	√	√	9830522924	Except- C7,C11, DSE1 &2
17	Dr. Avijit Sarkar Dept. of Mathematics University of Kalyani	√	√	avjaj@yahoo.co.in 9932220737	Except- C7,C11,D SE1 &2
18	Dr. Manab Ghosh, Asst.Professor of			9831352321	Except-

	MATH, Kalyani Mahavidhyalaya	√	×		C7,C11, DSE1 &2
19	Dr. Pulak Sahoo Assistant Professor, Dept. of Mathematics, University of Kalyani	√	×	<a href="mailto:sahoopulak1@gmail.com">sahoopulak1@gmail.com</a> 09432919372	Except- C7,C11, DSE1 &2
20	Dr. Sanjoy Kr. Ghosal Assistant Professor Dept. of Mathematics Netaji Subhas Open University	√	√	<a href="mailto:sanjoykrghosal@yahoo.co.in">sanjoykrghosal@yahoo.co.in</a> 09432902847	Except- C7,C11, DSE1 &2
21	Dr. Prasun Kr. Nayak, Associate Prof of MATH, Midnapore College (Autonomous),	√	√	9434335017	Except- C7,C11, DSE1 &2
22	Prof. Animesh Biswas ,Professor, Dept. of Mathematics, University of Kalyani	×	√	9433135508	ALL
23	Dr. Avijit Sarkar Dept. of Mathematics University of Kalyani	√	√	<a href="mailto:avjaj@yahoo.co.in">avjaj@yahoo.co.in</a> 9932220737	ALL
24	Dr. Sahidul Islam, Dept. of Mathematics, University of Kalyani.	√	√	<a href="mailto:sahidul.math@gmail.com">sahidul.math@gmail.com</a> 9433122823,	ALL
25	Dr. Bappa Das, Ramakrishna <i>Mission Vidyanandira, Behur Math</i>	√	√	<a href="mailto:bappa.das1@gmail.com">bappa.das1@gmail.com</a>	C7,C11, DSE1 &2
26	Dr. Sujit Kumar De, Associate Prof of MATH, Midnapore College (Autonomous),	√	√	9733060745	ALL
27	Dr. Santosh Biswas Dept. of Mathematics Jadavpur University	√	√	<a href="mailto:sant_biswas@yahoo.co.in">sant_biswas@yahoo.co.in</a> <a href="mailto:sant.biswas@gmail.com">sant.biswas@gmail.com</a> 9474658983	ALL
28	Dr. Sanjukta Chakraborty Associate Professor Dept. of Mathematics AJC Bose College, CU	√	√	<a href="mailto:sanjuktachakraborty77@gmail.com">sanjuktachakraborty77@gmail.com</a>	ALL
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30	Dr. Soumen De, Department of Applied Mathematics, CU	√	√	9231893526	ALL
31	Dr. Gour Chandra Mahata. Asso. Professor of Math. SKBU,Purulia	√	√	9474190816 <a href="mailto:gourmahata@yahoo.co.in">gourmahata@yahoo.co.in</a>	ALL
32	Dr.Dibyendu Ghosh, Barackpore, Asst. Professor of MATH, Rastraguru Surendranath College.	√	√	9433270623	ALL
33	Dr. Manas Kr. Ghosh, Asso. Professor, Srirampur College	√	√	9433425931	Except- C7,C11, DSE1 &2
34	Dr. Somnath Banerjee	√	√	9831157868	ALL
35	Prof. Subenoy Chakraborty, Professor, Dept. of Mathematics Jadavpur University	√	√	<a href="mailto:schakraborty@math.jdvu.ac.in">schakraborty@math.jdvu.ac.in</a> 9433356784	C7,C11, DSE1 &2
36	Prof. Arindam Bhattacharyya, Professor,Dept. of Mathematics Jadavpur University	√	√	<a href="mailto:abhattacharya@math.jdvu.ac.in">abhattacharya@math.jdvu.ac.in</a> / <a href="mailto:aribh22@hotmail.com">aribh22@hotmail.com</a> / <a href="mailto:arin1968@indiatimes.com">arin1968@indiatimes.com</a>	ALL



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39	Prof. Dibyendu De Professor, University of Kalyani	√	√	09051427543	Except- C7,C11, DSE1 &2
40	Dr. Joydeep Sengupta Associate Professor, Aliah University	√	√	Mobile: 07044741293	Except- C7,C11, DSE1 &2
41	Dr. Pradip Kumar Biswas Associate Professor, Kanchrapara College	√	√	08900022072	ALL
42	Dr. Anup Kumar Karak	√	√	8436918722	Except- C7,C11, DSE1 &2
43	Dr. Satyabrata Kundu	√	√	9836856352	ALL
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45	Dr. Azizul Haque	√	√	<a href="mailto:mhoque3@gmail.com">mhoque3@gmail.com</a>	ALL
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50	Chandan Kumar Mondal	√	√	9647554362	ALL
51	Dr. Arindam Sarkar	√	√	9434302385	ALL
52	Dr. Bikram Banerjee	√	√	09748031107	ALL
53	Dr. Pranab Bhattacharyya	√	√	6290191600	ALL
54	Dr. Rajib Mukherjee	√	√	9433460560	ALL
55	Dr. Sushanta Kumar Mohanta	√	√	9434997803	ALL
56	Dr. Uttam Ghosh	√	√	9434851986	ALL
57	Prof. Sabyasachi Bhattacharya	√	√	9433897120	DSE-2
58	Dr. Bratati Chakraborty	√	√	9051579551	DSE-2
59	Dr. Soumalya Mukhopadhyay	√	√	9432189425	DSE-2
60	Dr. Biman Chakraborty	√	√	8972714143	DSE-2

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-101: Head Examiner-PKR**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Gr.-A :Name of the Questions Setter / Examiner-C. Ghosh</b>	<b>Marks</b>	<b>Gr.-A : Name of the Questions Setter / Examiner—C. Ghosh</b>	<b>Marks</b>
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$ ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>Gr.-B : Name of the Questions Setter / Examiner-B. Ghosh</b>		<b>Gr.-B : Name of the Questions Setter / Examiner- B. Ghosh</b>	
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$ ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-102: Head Examiner -PKR**

<b>Gr-A: Name of the Questions Setter / Examiner-DKG</b>		<b>Gr.-A: Name of the Questions Setter / Examiner- DKG</b>	
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$ ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>Gr.-B: Name of the Questions Setter / Examiner-PKR</b>		<b>Gr.-B: Name of the Questions Setter / Examiner-PKR</b>	
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$ ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-103: Head Examiner -BC**

<b>Gr.-A : Name of the Questions Setter / Examiner-BC</b>		<b>Gr.-A : Name of the Questions Setter / Examiner- BC</b>	
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$	
		ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>Gr.-B: Name of the Questions Setter / Examiner-SKD</b>		<b>Gr.-B : Name of the Questions Setter / Examiner-SKD</b>	
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$	
		ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-104: Head Examiner -SKB**

<b>Gr.-A : Name of the Questions Setter / Examiner-SKB</b>		<b>Gr.-A : Name of the Questions Setter / Examiner-SKB</b>	
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$	
		ii) Attempt 4 questions out of 6 questions and each question carries 5 marks = $4 \times 5 = 20$	<b>30</b>
<b>Gr.-B: Name of the Questions Setter / Examiner-AB</b>		<b>Gr.-B : Name of the Questions Setter / Examiner-AB</b>	
		i) Attempt 4 questions out of 6 questions and each question carries 5 marks = $4 \times 5 = 20$	<b>20</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-105: Head Examiner-PCP**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Gr.-A :Name of the Questions Setter / Examiner-PCP</b>	<b>Marks</b>	<b>Gr.-A : Name of the Questions Setter / Examiner- PCP</b>	<b>Marks</b>
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$  ii) Attempt 4 questions out of 6 questions and each question carries 5 marks = $4 \times 5 = 20$	<b>30</b>
<b>Gr.-B : Name of the Questions Setter / Examiner-AB</b>		<b>Gr.-B : Name of the Questions Setter / Examiner- AB</b>	
		ii) Attempt 4 questions out of 6 questions and each question carries 5 marks = $4 \times 5 = 20$	<b>20</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-301: Head Examiner-RNM**  
**Functional Analysis**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Name of the Questions Setter / Examiner-RNM</b>	<b>Marks</b>	<b>Gr.-A : Name of the Questions Setter / Examiner—RNM</b>	<b>Marks</b>
		i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$  ii) Attempt 4 questions out of 6 questions and each question carries '10 marks = $4 \times 10 = 40$	<b>50</b>
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**QUESTION PATTERN FOR PG- COURSE (MID & END SEM)**  
**COURSE CC-302: Head Examiner –SKB**  
**Dynamical System**

Gr-A: Name of the Questions Setter / Examiner-SKB		Gr-A: Name of the Questions Setter / Examiner- SKB	
		i) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	15
Gr-B: Name of the Questions Setter / Examiner-BS		Gr-B: Name of the Questions Setter / Examiner-BS	
		ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	15
		Gr-C: Name of the Questions Setter / Examiner-SB	
		iii) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	10
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FOR PG- COURSE (MID & END SEM)**  
**COURSE CE-301: Head Examiner –DKG**  
**Advanced Real Analysis-I**

Gr-A : Name of the Questions Setter / Examiner-DKG		Gr-A : Name of the Questions Setter / Examiner- DKG	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	
		ii) Attempt 4 questions out of 6 questions and each question carries 10 marks = $4 \times 10 = 40$	50
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**QUESTION PATTERN FOR PG- COURSE (MID & END SEM)**  
**COURSE CE-302: Head Examiner –BC**  
**Advanced Complex Analysis-I**

Gr-A : Name of the Questions Setter / Examiner-BC		Gr-A : Name of the Questions Setter / Examiner-BC	
		i) Attempt 2 questions out of 3 questions and each question carries 10 marks = $2 \times 10 = 20$	
		ii) Attempt 1 question out of 2 questions and each question carries 5 marks = $1 \times 5 = 5$	25
Gr-B: Name of the Questions Setter / Examiner-SKD		Gr-B : Name of the Questions Setter / Examiner-SKD	
		i) Attempt 2 questions out of 3 questions and each question carries 10 marks = $2 \times 10 = 20$	
		ii) Attempt 1 question out of 2 questions and each question carries 5 marks = $1 \times 5 = 5$	25
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
 COURSE CE-303: Head Examiner-PKR  
 Algebraic Topology-I

Gr.-A : Name of the Questions Setter / Examiner-PKR		Gr.-A : Name of the Questions Setter / Examiner- PKR	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks $=2 \times 5 = 10$ ii) Attempt 4 questions out of 6 questions and each question carries 10 marks $=4 \times 10 = 40$	50
TOTAL MARKS FOR MID SEM		TOTAL MARKS FOR END SEM	50

QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
 COURSE CE-304: Head Examiner-S Kundu  
 Differential Manifold-I

Gr.-A : Name of the Questions Setter / Examiner- S Kundu		Gr.-A : Name of the Questions Setter / Examiner- S Kundu	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks $=2 \times 5 = 10$ ii) Attempt 4 questions out of 6 questions and each question carries 10 marks $=4 \times 10 = 40$	50
TOTAL MARKS FOR MID SEM		TOTAL MARKS FOR END SEM	50

QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
 COURSE CE-305: Head Examiner-SKB  
 Cosmology-I

Gr.-A : Name of the Questions Setter / Examiner-SKB		Gr.-A : Name of the Questions Setter / Examiner- SKB	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks $=2 \times 5 = 10$ ii) Attempt 4 questions out of 6 questions and each question carries 10 marks $=4 \times 10 = 40$	50
TOTAL MARKS FOR MID SEM		TOTAL MARKS FOR END SEM	50



**QUESTION PATTERN FOR PG- COURSE (MID & END SEM)**  
**COURSE CE-306: Head Examiner-KPDas**  
**Mathematical Biology-I**

Gr.-A : Name of the Questions Setter / Examiner- K P Das		Gr.-A : Name of the Questions Setter / Examiner- K P Das	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	50
		ii) Attempt 4 questions out of 6 questions and each question carries 10 marks = $4 \times 10 = 40$	
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	50

**QUESTION PATTERN FOR PG- COURSE (MID & END SEM)**  
**COURSE CE-307: Head Examiner-RNM**  
**Operation Research-I**

Gr.-A : Name of the Questions Setter / Examiner- RNM		Gr.-A : Name of the Questions Setter / Examiner- RNM	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	50
		ii) Attempt 4 questions out of 6 questions and each question carries 10 marks = $4 \times 10 = 40$	
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	50

**QUESTION PATTERN FOR PG- COURSE (MID & END SEM)**  
**COURSE CE-308: Head Examiner-PCPal**  
**Continuum Mechanics-I**

Gr.-A : Name of the Questions Setter / Examiner- PCPal		Gr.-A : Name of the Questions Setter / Examiner- PC Pal	
		i) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	50
		ii) Attempt 4 questions out of 6 questions and each question carries 10 marks = $4 \times 10 = 40$	
<b>TOTAL MARKS FOR MID SEM</b>		<b>TOTAL MARKS FOR END SEM</b>	50

**DEPARTMENT OF MATHEMATICS,**  
**Name of the Moderators for M.Sc. (Sem-I & III) in Mathematics**  
**RAMAKRISHNA KMISSION VIVEKANANDA CENTENARY COLLEGE, RAHARA**

Code	Name of Paper	NAME	Name of Univ.	Contact Number
CC-101	Algebra-I	Dr. Sunil Maity Asst. Professor,	Calcutta University	Mobile: 9123636736
		Prof. Angshuman Das	Presidency Univ.	9836861349
		Prof. Arnab Mandal	Presidency Univ.	9836648320
		Prof. Sanjib Kr. Dutta	Kalyani Univ.	8017105978
CC-102	Real Analysis	Prof. Ramij Rahaman	Presidency Univ.	9628199072
		Prof. Sudip Kr. Pal	Diamond Harber Univ.	9051158192
		Prof. Sandip Jana	Calcutta Univ.	9432433132
CC-103	Complex Analysis	Prof. Abhijit Banerjee	Kalyani Univ.	9432587251
		Prof. Kuntal Banerjee	Presidency Univ	9051015074
		Prof. Indrajit Lahiri	Kalyani Univ	8017501854
		Dr. Chinmay Ghosh	Kazi Nazural Univ	8653281282
		Prof. Puluk Shoo	Kalyani Univ.	9432919372
CC-104	Ordinary & Partial Differential Equations	Prof. P. C. Pal	IIT, Dhanbad	9430771974
		Dr. Soumen De,	Department of Applied Mathematics, CU	9231893526
		Dr. Supriya Pan,	Professor, Presidency University, Kolkata	<a href="mailto:supriya.math@presiu-niv.ac.in">supriya.math@presiu-niv.ac.in</a> 9051318393
		Dr. Soumen Shaw	Asst. Professor, Dinabandhu Andrews College, Kolkata	<a href="mailto:shaw_soumen@rediffmail.com">shaw_soumen@rediffmail.com</a> Phone:: 9007874279
		Prof. Nav Kumar Mahato	School of Science, Adamas Univ.	9556873672
		Prof. Ramij Rahaman	Presidency Univ	9628199072
		Prof. Raju Dutta	Susil Kar College, Ghoshpur	9883189499
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		Dr. Atreyee Biswas	Asst. Professor, Maulana Abul Kalam Azad University of Technology, Kolkata	Email:: <a href="mailto:atreyee11@gmail.com">atreyee11@gmail.com</a> Phone: 8017844011
		Prof. Nav Kumar Mahato	School of Science, Adamas Univ.	9556873672
		Prof. Ramij Rahaman	Presidency Univ	9628199072
		Dr. Prasun Kr. Nayak, Associate Prof of MATH, Midnapore College (Autonomous),	Midnapore College (Autonomous),	9434335017
CC-106	Computer	Prof. Santanu Halder,	Govt. Eng College	9732650349.



	Practical (External Expert)			
CC-301	Functional Analysis	Dr. Sunil Maity	Calcutta University	Mobile: 9123636736
		Prof Animesh Biswas	Kalyani Univ.	9433135508
		Dr. Gour Chandra Mahata, Associate Professor	SKBU, Purulia	9474190816 gourmahata@yahoo.co.in
CC-302	Dynamical System Analysis	Dr. Pradip Maji.	Calcutta University	9804160452
		Prof. Nav Kumar Mahato	School of Science, Adamas Univ.	9556873672
		Prof. Joydeep Sengupta	Associate Professor, Aliah University	Mobile: 07044741293
		Dr. Santosh Biswas	Jadavpur University	9474658983
		Dr. Supriya Pan,	Professor, Presidency University, Kolkata	supriya.math@presidencyuniv.ac.in 9051318393
CE-301	Advanced Real Analysis-I	Prof. P. Das	Jadavpur university	8240618018
		Prof. Subhashis Roy		9153030358
CE-302	Advanced Complex Analysis-I	Prof. Abhijit Banerjee	Kalyani Univ.	9432587251
		Prof. Kuntal Banerjee	Presidency Univ	9051015074
		Prof. Indrajit Lahiri	Kalyani Univ	8017501854
		Dr. Chinmay Ghosh	Kazi Nazrul Univ	8653281282
CE-303	Algebraic Topology-I	Prof. Sameek Paul	Belur University	986703558
		Prof. Somnath Basu	IJER, Kolkata	8584063017
		Prof. Samik Basu	ISI, Kolkata	9830138558
		Prof. MR Adhikari	Calcutta university	9830492677
CE-304	Differential Manifold-I	Prof. Joydeep Sengupta	Associate Professor, Aliah University	Mobile: 07044741293
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		Dr. Pradip Maji.	Calcutta University	9804160452
CE-304	Cosmology-I	Prof Tanuka Chattopadhyay		9433356784
		Dr. Ritabrata Biswas		7407206393
		Prof Subinay Chakraborty		9433356784
CE-306	Mathematical Biology-I	Prof Tapan Kar		9836195503
		Prof Nadadul Bairagi		9433110781
		Dr. Tridip Sardar		9674243948
		Dr. Uttam Ghosh		9475487454
CE-307	Operation Research-I	Prof. Sahidul Islam, Dept. of Mathematics	Kalyani University	9433122823
		Prof. T.K. Roy		9477419380
		Dr. Harekrishna Maity		9038163108
		Dr. Prasun Kr. Nayak, Associate Prof of MATH, Midnapore College (Autonomous).	Midnapore College (Autonomous),	9434335017
CE-308	Continuum Mechanics-I	Dr. Abhijit Pramanik	Brainware Univ	9534080407 /8210175820
		Dr. Kshitish Ch. Mistri		7209585189

		Dr. Prasun Kr. Nayak, Associate Prof of MATH, Midnapore College (Autonomous),	Midnapore College (Autonomous),	9434335017
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R.K.M.V.C. College, Rahara, Kolkata- 700118.

Proceedings of meeting of the Board of studies in Mathematics Department of R.K.M.V.C College held at the Mathematics Department on Friday, 16<sup>th</sup> August, 2019 at 3:00 PM.

The Chairman took the chair.

1. Paper '**Industrial Mathematics**' proposed in the BOS meeting on 18-08-2017 should be implemented in the UG-Sem-VI on and after 18-08-2020 in the following way: either Mathematical Biology or Industrial Mathematics has to be taken at a time by the student also 'Vector Space' as an introductory part in UG -Sem-I- CC2 should be implemented on and after 18-08-2020.
2. The modified Syllabus of UG presented in the meeting was unanimously approved in the Board Meeting; but
  - i) Prof. Sabyasachi Bhattacharya, ISI (Kol) suggest that '**Introduction of statistical methods**' should be included in the course DSE2, UG, Sem-V syllabus;
  - ii) Dr. Sujay Kr. Biswas propose that for solving 1st, 2nd and higher order PDE, **Lagrange Method, Charpit method** should be included in the course C11, UG-Sem -V,  
These will be implemented on and after 18-08-2020.
3. **For UG-Sem I, III & V (End Sem-2019)**, the maximum weightage for each Question will be 5 marks instead of 4 marks but for some exceptional cases it may be increase to 6 or 7 marks but the unit total marks for each paper should be fixed and the internal marks per unit will be flexible;  
  
**If UGC or the academic council of our college will give proper guideline about question pattern for UG courses to our department then it will be implemented properly.**
4. As per previous BOS meeting **tutorial Examination** for all semesters in UG, followed by **assignment**-10 marks (minimum 40 questions / paper or minimum 10 questions/unit will be supplied by corresponding teachers) ; for **presentation**-10 marks, the students will prepare 3-4 topics in their Exercise Book and represent the best one at the time of examination along with Viva-10 marks(the external professors will ask questions) and, **Practical Examination** for all semester in UG, will be followed by Problem solving (by computer)-20 marks; Viva-05 marks and note book-05 marks;
5. The Syllabus of PG presented in the meeting was unanimously approved in the Board Meeting.
6. Question pattern for PG- Sem -I & III (End Sem-2019) presented in the meeting was unanimously approved in the Board Meeting;
7. A list of teachers from different colleges and different Universities were made to act as External Paper and Moderator in the Semester Examinations both UG and PG. This list was unanimously accepted by the members present in the Board Meeting;
8.
  - i) Resolved that whole syllabus of B.Sc Mathematics be modified with Choice Based Credit System (CBCS) from session 2019-2020.

- ii) Further resolved that 25% modification of the B.Sc. Mathematics syllabus be adopted from the session 2019-2020.
- iii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Mathematics.
- iv) Resolved that the identified PSOs and COs of all courses be introduced from this session 2019-2020 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
- v) All members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Mathematics.
- vi) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
- vii) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- viii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2019-2020
- ix) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Mathematics.
- x) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2019-2020.

The meeting ended with a vote of thanks to the Chair.

(.....P.K. Rana .16-08-2019.....)

HOD & Chairman of BOS

Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118





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## RAMAKRISHNA MISSION VIVEKANANDACENTENARYCOLLEGE

(An Autonomous College under West Bengal State University)

P.O. RAHARA, KOLKATA-700118

WEST BENGAL, INDIA

College with Potential for Excellence(CPE)  
Accredited by NAAC with Grade A

Date : 14-02-2019

### NOTICE

A meeting of the Board of studies in Mathematics Department of Ramakrishna Mission Vivekananda Centenary College, Rahara, will be held at the Mathematics Department of the college on Tuesday, the 26<sup>th</sup> February, 2019 at 3.00 PM.

Members are requested kindly to attend.

*P.K. Rana*  
Dr.P.K.Rana  
(Dr. Pravanjan Kumar Rana)  
HOD & Chairman of BOS  
Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118

### Agenda:

1. Confirmation of the Proceeding of the previous meeting;
2. To consider the matter relating to UG-syllabus of the Semester-II & IV;
3. To consider the matter in respect of External Paper Setter and Moderator for the End Semester II & IV;
4. To consider the matter relating to Question pattern of UG-Mid/ End Semester(Theory/Practical)Examination;
5. To consider the matter relating to PG-syllabus of the Semester-II;
6. To consider the matter relating to Question pattern of PG-Mid / End Semester-II Examination;
7. Any other matter with permission of the Chair.

### Copy to:-

- 1.Prof. Samaresh Pal, Department of Mathematics, Kalyani University
- 2.Prof. Chanchal Kr. Basu, Department of Mathematics, WBSU
- 3.Prof. Avishek Adhikari, Department of Mathematics, Presidency University
- 4.Prof.Biswajit Mitra, Department of Mathematics , Burdwan University

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

The meeting of the Board of studies in Mathematics Department of R.K.M.V.C. College held at the Mathematics Department of the college on Friday, the 26th Feb, 2019 at 3.00 PM.

**Members Present:**

Sl. No.	Name:	Members	Signature
1	Dr. Pravanjan Kumar Rana	Chair Person, INTERNAL	P.K. Rana
2	Sri Partha Ray	INTERNAL	Partha Ray
3	Dr. Sujay Kr. Biswas	INTERNAL	Sujay Kr. Biswas 26/2/19
4	Sri Abhishek Kanti Biswas	INTERNAL	Abhishek Kanti Biswas
5	Dr. Bikash Chakraborty	INTERNAL	Bikash Chakraborty 26/2/19
6	Prof. Samaresh Pal, KU	ALUMNI	
7	Prof. Avishek Adhikari, PU	EXTERNAL EXPERTS	Avishek Adhikari 26/2/19
8	Prof. Biswajit Mitra, BU	EXTERNAL EXPERTS	
9	Prof. Chanchal Kr. Basu, WBSU	UNIVERSITY NOMINEE	

1. Confirmation of the Proceeding of the previous meeting;
2. To consider the matter relating to UG-syllabus of the Semester-II & IV;
3. To consider the matter in respect of External Paper Setter and Moderator for the End Semester II & IV;
4. To consider the matter relating to Question pattern of UG-Mid/ End Semester(Theory/Practical)Examination;
5. To consider the matter relating to PG-syllabus of the Semester-II;
6. To consider the matter relating to Question pattern of PG-Mid / End Semester-II Examination;
7. Any other matter with permission of the Chair.



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FOR UG-COURSE (MID & END SEM)  
COURSE C3: HE-PKR  
C3-Real Analysis**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-SP</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--SP</b>	<b>Marks</b>
i) Attempt 1 question out of 2 question and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 question out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>	i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 3 questions out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>16</b>
<b>Unit-2: Name of the Questions Setter / Examiner-PKR</b>		<b>Unit-2: Name of the Questions Setter / Examiner-PKR</b>	
i) Attempt 3 questions and each question carries 1 marks = $3 \times 1 = 3$ ii) Attempt 3 questions out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>15</b>	i) Attempt 3 questions out of 4 questions and each question carries 2 marks = $3 \times 2 = 6$ ii) Attempt 3 questions out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>18</b>
		<b>Unit-3: Name of the Questions Setter / Examiner- PKR</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 3 questions out of 4 question and each question carries 4 marks = $3 \times 4 = 12$	<b>16</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FOR UG-COURSE (MID & END SEM)**

**COURSE C4: HE-SKB**

**C4-Differential Equations and Vector Calculus**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-A: Name of the Questions Setter / Examiner-SKB</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--SKB</b>	<b>Marks</b>
i) Attempt 1 question and each question carries 1 marks = $1 \times 1 = 1$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>13</b>	i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 12$  <b>Preferably: 2+3/4+1)</b>	<b>15</b>
<b>Unit-B: Name of the Questions Setter / Examiner-AB</b>		<b>Unit-2: Name of the Questions Setter / Examiner-AB</b>	
i) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>12</b>	i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ iii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
		<b>Unit-3: Name of the Questions Setter / Examiner-SKB</b>	
		i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 12$  <b>Preferably: 2+3/4+1</b>	<b>15</b>
		<b>Unit-4: Name of the Questions Setter / Examiner-AB</b>	
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ iii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**

**COURSE C8: HE-PR**

**C8-Riemann Integration and Series of Functions**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-PR</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--PR</b>	<b>Marks</b>
i) Attempt 1 question and each question carries 1 marks = $1 \times 1 = 1$  ii) Attempt 2 question out of 3 question and each question carries 2 mark = $2 \times 2 = 4$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>17</b>	i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 12$  <b>Preferably: 2+3/4+1</b>	<b>15</b>
<b>Unit-2: Name of the Questions Setter / Examiner-PCP</b>	<b>8</b>	<b>Unit-2: Name of the Questions Setter / Examiner-PR</b>	<b>5</b>
i) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ iii) Attempt 1 questions out of 2 questions and each question carries 3 marks = $1 \times 3 = 3$	
		<b>Unit-3: Name of the Questions Setter / Examiner-PR</b>	<b>10</b>
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
	<b>11</b>	<b>Unit-4: Name of the Questions Setter / Examiner-PCP</b>	<b>10</b>
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
		<b>Unit-4: Name of the Questions Setter / Examiner-PR</b>	<b>10</b>
		i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FOR UG- COURSE (MID & END SEM)**

**COURSE C9: HE-AKB**

**C9-Multivariate Calculus**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-AB</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--AB</b>	<b>Marks</b>
i)Attempt 1 question and each question carries 1 mark = $1 \times 1 = 1$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>13</b>	i)Attempt 1 question and each question carries 1 mark = $1 \times 1 = 1$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>13</b>
		<b>Unit-2: Name of the Questions Setter / Examiner-AB</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>Unit-3: Name of the Questions Setter / Examiner-AKB</b>		<b>Unit-3: Name of the Questions Setter / Examiner-AKB</b>	
i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>	i)Attempt 1 question and each question carries 1 mark = $1 \times 1 = 1$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>13</b>
		<b>Unit-4: Name of the Questions Setter / Examiner-AKB</b>	
		i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FOR UG- COURSE (MID & END SEM)**

**COURSE C10: HE-BC**

**C10-Ring Theory and Linear Algebra**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Unit-1:Name of the Questions Setter / Examiner-BC</b>	<b>Marks</b>	<b>Unit-1: Name of the Questions Setter / Examiner--BC</b>	<b>Marks</b>
i) Attempt 3 questions out of 4 questions and each question carries 3 marks = $3 \times 3 = 9$ ii) Attempt 4 questions out of 5 questions and each question carries 4 marks = $4 \times 4 = 16$	<b>25</b>	i) Attempt 2 questions out of 3 questions and each question carries 2 marks = $2 \times 2 = 4$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>12</b>
		<b>Unit-2:Name of the Questions Setter / Examiner-BC</b> i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	<b>10</b>
		<b>Unit-3:Name of the Questions Setter / Examiner-BC</b> i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>14</b>
		<b>Unit-4:Name of the Questions Setter / Examiner-BC</b> i) Attempt 1 question out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 3 question out of 4 questions and each question carries 4 marks = $3 \times 4 = 12$	<b>14</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FORUG-COURSE (MID & END SEM)**

**COURSE GE2: HE-BC**

**GE2-Calculus , Geometry and Differential Equations(for Chemistry Honours)**

MID SEM.: Total Marks.-25		END SEM: Total Marks.-50	
Unit-1:Name of the Questions Setter / Examiner	Marks	Unit-1: Name of the Questions Setter / Examiner--PR	Marks
PR	6	i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	10
SKB	7		
BC	7		
PS	5		
		<b>Unit-2: Name of the Questions Setter / Examiner-BC</b> i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	10
		<b>Unit-3: Name of the Questions Setter / Examiner-PS+BC</b> i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	10
		<b>Unit-4: Name of the Questions Setter / Examiner-SKB</b> i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	10
		<b>Unit-5: Name of the Questions Setter / Examiner-PR+SKB</b> i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	10
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FOR UG-COURSE (MID & END SEM)**

**COURSE GE4: HE-AKB**

**GE4-Calculus , Geometry and Differential Equations(for Physics Honours)**

MID SEM.: Total Marks.-25		END SEM: Total Marks.-50	
Unit-1:Name of the Questions Setter / Examiner	Marks	Unit-1: Name of the Questions Setter / Examiner--PKR	Marks
PKR	5	i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$	10
AKB	5	ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
PS	5		
SP	10		
		Unit-2: Name of the Questions Setter / Examiner-AKB	10
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
		Unit-3: Name of the Questions Setter / Examiner-PS+AKB	10
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
		Unit-4: Name of the Questions Setter / Examiner-SP	10
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
		Unit-5: Name of the Questions Setter / Examiner-SP	10
		i) Attempt 1 questions out of 2 questions and each question carries 2 marks = $1 \times 2 = 2$ ii) Attempt 2 questions out of 3 questions and each question carries 4 marks = $2 \times 4 = 8$	
TOTAL MARKS FOR MID SEM	25	TOTAL MARKS FOR END SEM	50

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
COURSE CC-201: Head Examiner-PKR  
ASLGEBRA-II

MID SEM.: Total Marks.-25		END SEM: Total Marks.-50	
Gr.-A :Name of the Questions Setter / Examiner-SKD	Marks	Gr.-A : Name of the Questions Setter / Examiner—SKD	Ma
i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 15$	15	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$  ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	
Gr.-B : Name of the Questions Setter / Examiner-B. Ghosh		Gr.-B : Name of the Questions Setter / Examiner- B. Ghosh	
i) Attempt 1 question and each question carries 4 marks = $1 \times 4 = 4$  ii) Attempt 2 questions out of 2 questions and each question carries 3 marks = $2 \times 3 = 6$	10	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$  ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	2
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
COURSE CC-202: Head Examiner –PKR  
MEASURE AND INTEGRATION

Gr-A: Name of the Questions Setter / Examiner-DKG		Gr.-A: Name of the Questions Setter / Examiner- DKG	
i) Attempt 1 question and each question carries 5 marks = $1 \times 5 = 5$  ii) Attempt 2 questions out of 3 questions and each question carries 10 marks = $2 \times 10 = 20$	25	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$  ii) Attempt 4 questions out of 6 questions and each question carries 10 marks = $4 \times 10 = 40$	50
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
COURSE CC-203: Head Examiner –PKR  
GENERAL TOPOLOGY**

Gr.-A : Name of the Questions Setter / Examiner-PKR		Gr.-A : Name of the Questions Setter / Examiner- PKR	
i) Attempt 1 question and each question carries 5 marks = $1 \times 5 = 5$	25	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$	50
ii) Attempt 2 questions out of 3 questions and each question carries 10 marks = $2 \times 10 = 20$		ii) Attempt 4 questions out of 6 questions and each question carries 10 marks = $4 \times 10 = 40$	
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,  
DEPARTMENT OF MATHEMATICS**

**QUESTION PATTERN FORPG- COURSE (MID & END SEM)  
COURSE CC-204: Head Examiner –SKB  
CLASSICAL MECHANICS AND THEORY OF RELATIVITY**

Gr.-A : Name of the Questions Setter / Examiner-AB		Gr.-A : Name of the Questions Setter / Examiner-AB	
SKB	13	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$	25
		ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	
Gr.-B: Name of the Questions Setter / Examiner-SKB		Gr.-B : Name of the Questions Setter / Examiner-SKB	
AB	12	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$	25
		ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,**  
**DEPARTMENT OF MATHEMATICS**  
**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-205: Head Examiner-BC**

<b>MID SEM.: Total Marks.-25</b>		<b>END SEM: Total Marks.-50</b>	
<b>Gr.-A :Name of the Questions Setter / Examiner-CG</b>	<b>Marks</b>	<b>Gr.-A : Name of the Questions Setter / Examiner- CG</b>	<b>Marks</b>
i) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$	<b>10</b>	i) Attempt 5 questions out of seven questions and each question carries 2 marks = $5 \times 2 = 10$  ii) Attempt 3 questions out of 5 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>25</b>
<b>Gr.-B : Name of the Questions Setter / Examiner-BC</b>		<b>Gr.-B : Name of the Questions Setter / Examiner- BC</b>	
i) Attempt 3 questions out of 4 questions and each question carries 5 marks = $3 \times 5 = 15$	<b>15</b>	i) Attempt 2 questions out of 3 questions and each question carries 10 marks = $2 \times 10 = 20$  ii) Attempt 1 questions out of 2 questions and each question carries 5 marks = $1 \times 5 = 5$	<b>25</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE,**  
**DEPARTMENT OF MATHEMATICS**  
**QUESTION PATTERN FORPG- COURSE (MID & END SEM)**  
**COURSE CC-206: Head Examiner-PCP**

<b>Gr.-A : Name of the Questions Setter / Examiner-PCP</b>		<b>Gr.-A : Name of the Questions Setter / Examiner- PCP</b>	
i) Attempt 1 question and each question carries 5 marks = $1 \times 5 = 5$  ii) Attempt 2 questions out of 3 questions and each question carries 10 marks = $2 \times 10 = 20$	<b>25</b>	i) Attempt 2 questions out of 3 questions and each question carries 5 marks = $2 \times 5 = 10$ ii) Attempt question out of 4 questions and each question carries 10 marks = $4 \times 10 = 40$	<b>50</b>
<b>TOTAL MARKS FOR MID SEM</b>	<b>25</b>	<b>TOTAL MARKS FOR END SEM</b>	<b>50</b>



**The following List of External Members for Paper setter and Moderator  
FOR PAPER – C3,C4,C8 , C9 & C10**

Sl.No.	Name, Designation, and Present Affiliation	Paper Setter	Moderator	Mobile& e-mail
1	Prof.M.N. Mukherjee, Department of Mathematics, CU	×	√	9433278768
2	Prof. Chanchal Kumar Basu, Professor, Department of Mathematics, WBSU	×	√	9433421144
3	Prof. Abhijit Banerjee, Professor, Dept. of Mathematics, University of Kalyani.	√	√	<a href="mailto:abanerjee_kal@yahoo.co.in">abanerjee_kal@yahoo.co.in</a> <a href="mailto:abanerjeeekal@gmail.com">abanerjeeekal@gmail.com</a> <a href="mailto:abanerjee_kal@rediffmail.com">abanerjee_kal@rediffmail.com</a> 09432060523,09432587251
4	Prof. Sanjib Kumar Datta, Dept. of Mathematics ,University of Kalyani	√	√	<a href="mailto:sanjib_kr_datta@yahoo.co.in">sanjib_kr_datta@yahoo.co.in</a> 09593403873,08017105978
5	Dr. Manas Kr. Ghosh, Asso. Professor, Srirampur College	√	√	9433425931
6	Dr. Gour Chandra Mahata, Asst.Professor of Math. Dum Dum Motijgheel College	√	√	9474190816 <a href="mailto:gourmahata@yahoo.co.in">gourmahata@yahoo.co.in</a>
7	Dr. Sandip Jana, Asst. Professor, Department of Mathematics, Calcutta University	×	√	9432433132 <a href="mailto:Sjpm12@gmail.com">Sjpm12@gmail.com</a>
8	Dr. Pabitra Debnath , Asst. Professor of Math St. Xavier's College, Kolkata	√	×	9874132377 <a href="mailto:Pdebnath23@gmail.com">Pdebnath23@gmail.com</a>
9	Dr. Sumanta Chattopadhyay , Asst. Professor of Math, Sovarani Memorial College, Howrah	√	√	9477486484
10	Dr. Subrata Bhowmik, Associate Professor of Math, Tripura University	√	√	8258946624 <a href="mailto:Bhowmik_s@tripuruniv.in">Bhowmik_s@tripuruniv.in</a>
11	Dr. Ramij Rahaman, Asst. Professor of MATH, University of Allahabad	√	×	9628199072 <a href="mailto:ramijrahaman@gmail.com">ramijrahaman@gmail.com</a>
12	Dr. Debraj Chandra, Asst. Professor of MATH, University of Gour Banga	√	×	9062070030 <a href="mailto:Debrajchandra1986@gmail.com">Debrajchandra1986@gmail.com</a>
13	Dr. Sudip Kumar Pal Assistant Professor Dept. of Mathematics Diamond Harbor Women's University	√	√	<a href="mailto:sudipkmpal@yahoo.co.in">sudipkmpal@yahoo.co.in</a> <a href="mailto:sudipkmpal@yahoo.in">sudipkmpal@yahoo.in</a> 09051158192 08697971705
14	Dr. Amarjit Kundu, Professor of Math, Raiganj University	√	√	9433135396
15	Dr. Bapi Saha, Berhampore Govt. Eng. College;Home-Belghoria	√	√	9339831862
16	Dr. Amalendu Ghosh	√	√	9830522924
17	Dr. Avijit Sarkar Dept. of Mathematics University of Kalyani	√	√	<a href="mailto:avjai@yahoo.co.in">avjai@yahoo.co.in</a> 9932220737
18	Dr. Manab Ghosh, Asst.Professor of MATH, Kalyani Mahavidhyalaya	√	×	9831352321

19	Dr. Pulak Sahoo Assistant Professor, Dept. of Mathematics, University of Kalyani	√	×	sahoopulak1@gmail.com 09432919372
20	Dr. Sanjoy Kr. Ghosal Assistant Professor Dept. of Mathematics Netaji Subhas Open University	√	√	sanjoykrghosal@yahoo.co.in 09432902847
21	Dr. Prasun Kr. Nayak, Associate Prof of MATH, Midnapore College (Autonomous),	√	√	9434335017
22	Prof. Animesh Biswas, Professor, Dept. of Mathematics, University of Kalyani	×	√	9433135508
23	Dr. Avijit Sarkar Dept. of Mathematics University of Kalyani	√	√	avjaj@yahoo.co.in 9932220737
24	Dr. Sahidul Islam, Dept. of Mathematics, University of Kalyani.	√	√	sahidul.math@gmail.com 9433122823,
25	Dr. Bappa Das, Ramakrishna Mission Vidyamandira, Belur Math	√	√	bappa.das1@gmail.com
26	Dr. Sujit Kumar De, Associate Prof of MATH, Midnapore College (Autonomous),	√	√	9733060745
27	Dr. Santosh Biswas Dept. of Mathematics Jadavpur University	√	√	sant_biswas@yahoo.co.in sant.biswas@gmail.com 9474658983
28	Dr. Sanjukta Chakraborty Associate Professor Dept. of Mathematics AJC Bose College, CU	√	√	sanjuktachakraborty77@gmail.com
29	Dr. Ritabrata Biswas Assistant Professor Dept. of Mathematics Burdwan University	√	×	biswas.ritabrata@gmail.com 7407206393
30	Dr. Soumen De, Department of Applied Mathematics, CU	√	√	9231893526
31	Dr. Gour Chandra Mahata, Asst. Professor of Math. Dum Dum Motijheel College	√	√	9474190816 gourmahata@yahoo.co.in
32	Dr. Dibyendu Ghosh, Barackpore, Asst. Professor of MATH, Rastraguru Surendranath College.	√	√	9433270623
33	Dr. Manas Kr. Ghosh, Asso. Professor, Srirampur College	√	√	9433425931
34	Dr. Somnath Banerjee	√	√	9831157868
35	Prof. Subenoy Chakraborty, Professor, Dept. of Mathematics Jadavpur University	√	√	schakraborty@math.jdvv.ac.in 9433356784
36	Prof. Arindam Bhattacharyya, Professor, Dept. of Mathematics Jadavpur University	√	√	abhattacharya@math.jdvv.ac.in/ aribh22@hotmail.com / arin1968@indiatimes.com 09433949472
37	Dr. Supriya Pan, Asst. Professor, Presidency University, Kolkata	√	√	supriya.math@presiuniv.ac.in 9051318393
38	Dr. Soumen Shaw Asst. Professor, Dinabandhu			shaw_soumen@rediffmail.com Phone:: 9007874279



	Andrews College, Kolkata	√	√	
39	Dr. Milan Biswas Asst. Professor, A.J.C. Bose College, Kolkata	√	√	<u>milanju10@gmail.com</u> 9681485787
	Prof. Dibyendu De Professor, University of Kalyani	√	√	09051427543
40	Dr. Joydeep Sengupta Associate Professor, Aliah University	√	√	Mobile: 07044741293
41	Dr. Pradip Kumar Biswas Associate Professor, Kanchrapara College	√	√	08900022072

**DEPARTMENT OF MATHEMATICS,**  
**Name of the Moderators for M.Sc. (Sem-II) in Mathematics**  
**RAMAKRISHNA KMISSION VIVEKANANDA CENTENARY COLLEGE, RAHARA**

Code	Name of Paper	NAME	Name of Univ.	Contact Number
CC-201	Algebra-II	Dr. Sunil Maity Asst. Professor,	Calcutta University	Mobile: 9123636736
		Prof. Angshuman Das	Presidency Univ.	9836861349
		Prof. Sandip Jana	Calcutta Univ.	9432433132
CC-202	MEASURE AND INTEGRATION	Prof. Ramij Rahaman	Presidency Univ.	9628199072
		Prof. Sudip Kr. Pal	Diamond Harber Univ.	9051158192
		Prof. Sanjib Kr. Dutta	Kalyani Univ.	8017105978
		Prof. Sandip Jana	Calcutta Univ.	9432433132
		Dr. Sanjoy Kr. Ghosal	Asso Prof. of North Bengal University	<a href="mailto:sanjoykrghosal@yahoo.co.in">sanjoykrghosal@yahoo.co.in</a> 09432902847
CC-203	GENERAL TOPOLOGY	Prof Atasi Debnath	Calcutta Univ.	9433913662
		Dr. Pabitra Debnath ,	Asst. Professor of Math St. Xavier's College, Kolkata	9874132377 <a href="mailto:Pdebnath23@gmail.com">Pdebnath23@gmail.com</a>
		Dr. Soumen De,	IIT, Dhanbad Department of Applied Mathematics, CU	9430771974 9231893526
CC-204	Group-A CLASSICAL MECHANICS	Prof. P. C. Pal	IIT, Dhanbad	9430771974
		Dr. Soumen De,	Department of Applied Mathematics, CU	9231893526
		Dr. Supriya Pan,	Professor, Presidency University, Kolkata	<a href="mailto:supriya.math@presiuniv.ac.in">supriya.math@presiuniv.ac.in</a> 9051318393
CC-204	Group-B Theory of Relativity	Dr. Supriya Pan,	Presidency University, Kolkata	<a href="mailto:supriya.math@presiuniv.ac.in">supriya.math@presiuniv.ac.in</a> 9051318393
		Dr. Atreyee Biswas	Asst. Professor, Maulana Abul Kalam Azad University of Technology, Kolkata	Email: <a href="mailto:atreyee11@gmail.com">atreyee11@gmail.com</a> Phone: 8017844011
		Dr. Sunil Maity	Calcutta University	Mobile: 9123636736
CC-205	Group-A Linear algebra	Prof Animesh Biswas	Kalyani Univ.	9433135508
		Dr. Pradip Maji.	Calcutta University	9804160452
	Group-B Multivariate Calculus	Prof. Dibyendu De	Professor, University	Mobile: 09051427543
		Prof. Joydeep Sengupta	Associate Professor, Aliah University	Mobile: 07044741293



CC-206	Integral Transforms & Integral Equations	Dr.Santosh Biswas	Jadavpur University	9474658983
		Dr. Soumen Shaw	Asst. Professor, Dinabandhu Andrews College, Kolkata	<u>shaw_soumen@rediffmail.com</u> Phone:: 9007874279
		Dr. Sanjukta Chakraborty	Associate Professor Dept. of Mathematics AJC Bose College, CU	sanjuktachakraborty77@gmail.com

**R.K.M.V.C. College, Rahara, Kolkata- 700118.**

Proceedings of meeting of the Board of studies in Mathematics Department of R.K.M.V.C College held at the Mathematics Department on Tuesday, the 26<sup>th</sup> Feb, 2019 at 3:00 PM.

**The Chairman took the chair.**

1. The syllabus both UG-II, UG-IV and PG-II presented in the meeting was unanimously approved in the Board Meeting:
2. The Question pattern both UG-II, IV (Mid & End Sem-2019) & PG-II (Mid & End Sem-2019) presented in the meeting was unanimously approved in the Board Meeting.
3. The **Tutorial Examination** for all semesters in UG, followed by **assignment**- 10 marks (minimum 40 questions/ paper or minimum 10 questions/unit will be supplied by corresponding teachers); for **presentation** – 10 marks, the students will prepare 2-3 topics in their Exercise book and represent the best one at the time of Examination along with Viva 10 marks (the External professor will ask questions) and **Practical Examination** for all semester in UG, will be followed by problem solving (by Computer) 20 marks; Viva 5 marks and Note book 5 marks.
4. A list of the teachers from different colleagues under different universities were made to act as external paper setter and moderator in the semester examinations. This list was unanimously excepted by members present in the Board Meeting.
5.
  - i) Resolved that whole syllabus of Ph.D. Mathematics be introduced from session 2019-2020.
  - ii) Further resolved that 100% modification of the Ph.D. Mathematics syllabus be adopted from the session 2019-2020.
  - iii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of Ph. D. Mathematics.
  - iv) Resolved that the identified PSOs and COs of all courses be introduced from this session 2019-2020 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
  - v) All members discussed the relevance to the local, national, regional and global needs present in all the courses in Ph. D. Mathematics.



- vi) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
- vii) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- viii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2019-2020
- ix) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in Ph. D. Mathematics.
- x) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2019-2020.

The meeting ended with a vote of thanks to the Chair.

(.....P.K.Rane. 26-2-2019.....)

HOD & Chairman of BOS

Head  
Dept. of Mathematics  
Ramakrishna Mission Vivekananda  
Centenary College  
Rahara, Kolkata-700118



Ph: 033-2568-2049  
Email: [rkmvcccollege@rkmvccrahara.org](mailto:rkmvcccollege@rkmvccrahara.org)  
Website: [rkmvccrahara.org](http://rkmvccrahara.org)

**RAMAKRISHNA MISSION  
VIVEKANANDA CENTENARY COLLEGE**  
(An Autonomous College under West Bengal State University)  
**P.O. RAHARA, KOLKATA-700118**  
**WEST BENGAL, INDIA**


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**Date : 27-07-2017**

**NOTICE**


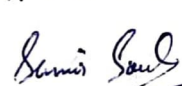
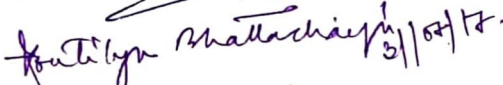

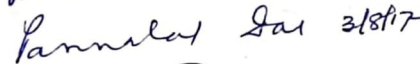

A meeting of the Board of studies of the Department of Zoology of R.K.M.V.C. College, Rahara, will be held at the Department of Zoology of the college on **Saturday, the 5<sup>th</sup> August, 2017 at 12.30 PM.**

Members are requested kindly to attend.

  
(Dr. Pradyot Kumar Medda)  
HOD & Chairman of BOS  
ASSOCIATE PROFESSOR  
AND HEAD  
Dept. of Zoology  
R. K. Mission V.C. College  
Rahara. Kol-700118

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

  
29/07/17  
  
29.07.17  
  
31/07/17  
  
date 03/8/17  
  
3/8/17  
  
4.8.17





Meeting of Board of Studies in Department of Zoology, RKMVC college,  
dated August 05, 2017

Members Present:

Name	Signature
1. Dr. Pradyot Kumar Medda Chairperson	<i>Medda</i>
2. Dr. Debkumar Datta	<i>Dr. Datta</i>
3. Dr. Koutilya Bhattacharjee	<i>K. Bhattacharjee</i>
4. Dr. Arunava Mukherjee	<i>Arunava Mukherjee 05/08/2017</i>
5. Sri Samir Sardar	<i>Samir Sardar</i>
6. Sri Rupak Kumar Das	<i>RKD</i>
7. Dr. Pannalal Das	<i>Pannalal Das</i>
8. Swami Vedanuragananda	<i>Swami Vedanuragananda</i>
9. Dr. Aniruddha Banerji	<i>ABanerji 5/8/17</i>
10. Prof. Sumit Homechaudhuri	<i>Sumit Homechaudhuri 5/8/17</i>
11. Dr. Rajib Majumder	<i>Rajib Majumder 5/8/17</i>
12. Prof. Chiranjib Pal	<i>Chiranjib Pal 05/08/2017</i>



**R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.**

Proceedings of the meeting of the Board of studies in the Department of Zoology, of R.K.M.V.C. College held at the Department of Zoology of the college on Saturday, the 5<sup>th</sup> August, 2017 at 12.30 p.m.

Members present:

Dr. Pradyot Kumar Medda, Chairperson

Dr. Debkumar Datta

Dr. Koutilya Bhattacharjee

Dr. Arunava Mukherjee

Sri Samir Sardar

Sri Rupak Kumar Das

Dr. Pannalal Das

Swami Vedanuragananda

Dr. Aniruddha Banerji

Prof. Sumit Homechaudhuri

Dr. Rajib Majumder

Prof. Chiranjib Pal

Dr. Pradyot Kumar Medda took the Chair.





## Minutes of the meeting:

### **1) Agenda I- Matter related to syllabus approval.**

- i) HOD detailed the syllabus to the external members.
- ii) Prof. Aniruddha Banerji (St. Xaviers) suggested that syllabus should be framed as per UGC guidelines for CBCS pattern.
- iii) Prof. Sumit Homechaudhuri proposed that topics related to Immunology, Endocrinology may be included under Physiology and Classification may be included in practical portion.
- iv) Prof. Chiranjib Pal suggested inclusion of onion root tip for study of cell division. He also suggested for topic wise seminar by eminent teachers
- v) Members also advocated for experimental work at undergraduate level as short dissertation, assignment and project work.
- vi) Resolved that whole syllabus of B.Sc Zoology be introduced with Choice Based Credit System (CBCS) from session 2017-2018.
- vii) Further resolved that 88.30% modification of the B.Sc. Zoology syllabus be adopted from the session 2017-2018.
- viii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Zoology.
- ix) Resolved that the identified PSOs and COs of all courses be introduced from this session 2017-2018 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
- x) All members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Zoology.
- xi) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
- xii) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- xiii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2017-18.
- xiv) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Zoology.
- xv) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2017-2018.



## 2) Agenda II – Selection of Paper setters and moderators.

- Retired teachers and external members of the Board of Studies may be included as moderators.
- Members suggested that an exhaustive list of paper setters and moderators to be prepared.
- Changes in the list of paper setter and moderators can be done by the internal members without prior notification to external members, however, the changes should be brought in the notice of external members in the immediate next meeting after making the changes.
- Following is the list of external paper setters and moderators of several courses for different semesters:

Sl no.	Name	Institute	Contact no. & e-mail	Subjects	Status
1	Dr. Anirban Ghosh	Panihati Mahavidyalaya	9830547592, aghosh06@gmail.com	Cell Biology, Genetics, Immunology, Molecular Biology etc.	Paper-setter, Moderator
2	Subhajit Maity	Research Scholar, Rajabazar Science College	9831940164, subho.maity@gmail.com	Cell Biology, Genetics, Immunology, Molecular Biology etc.	Paper-setter, Moderator
3	Dr. Korak Kanti Chaki	City College	9831168354, kkchaki@gmail.com	Animal Physiology, Cell Biology, Non-chordates, Chordates etc	Paper-setter, Moderator
4	Dr. Subhendu Bikash Patra	Brahmananda Keshabchandra College (BKC College)	9433530190, subhendubp@gmail.com	Ecology, Fisheries, Non-chordates, Chordates, Environmental Biology	Paper-setter, Moderator
5	Dr. Sujata De Chaudhuri	Barrackpore Rastraguru Surendranath College	9831967951, sujata7j@gmail.com	Genetics, Cell Biology, Molecular Biology, Immunology etc.	Paper-setter, Moderator
6	Dr. Asok Kumar Sarkar (Retd.)	Vivekananda College	9830753073, asoksarkar09@gmail.com	Genetics, Cell Biology, Ecology	Paper-setter
7	Dr. Somnath Mukhopadhyay	Principal, Dinabandhu Andrews College	9433526663, mukherjeed27@gmail.com	Genetics, Cell Biology, Molecular Biology etc.	Paper-setter
8	Dr. Satyen Maitra (Retd)	Acharya Prafulla Chandra College (APC)	9830253802, maitra.sat@gmail.com	Genetics, Cell Biology, Molecular Biology etc.	Moderator, paper-setter





		College)			
9	Dr. Subir Chandra Dasgupta	Maulana Azad College	9830471981 subirdgupta@gmail.com	Genetics, Cell Biology, Molecular Biology etc	Moderator, Paper-setter
10	Dr. Prajna Paramita Basu	Bangabasi College	9830068297 ppbasu2@yahoo.co.in	Endocrinology, Cell Biology, Physiology, Biochemistry etc	Moderator, Paper-setter
11	Dr. Prodosh Ranjan Ghosh (Retd)	DumDum Motijheel College	9830582159, 8584059201, prghosh56@gmail.com	Genetics, Cell Biology, Molecular Biology, Developmental Biology, Endocrinology etc.	Moderator, Paper-setter
12	Dr. Sumana Saha	Barasat Government College	9830547628 sahasumana2010@gmail.com	Non-chordates, Taxonomy, Evolutionary Biology, Economic Zoology, Ecology and Environmental Studies and Biostatistics	Paper-setter, Moderator
13	Dr. Dipak Shom	Maulana Azad college	9674914308	Non chordates	Paper-setter, Moderator
14	Dr. Tushar Mukherjee	Presidency college(Rtd)	9143303312	Taxonomy, Non chordate	Moderator
15	Dr. Krishna Ganguly	Netaji Nagar college	9239446502	Cell biology, Genetics	Paper-setter
16	Dr. Paulami Maiti	Lady Braborne college	9674377345	Chordate, Ecology, Evolution	Paper-setter
17	Dr. Binayak Mishra	Asutosh college (Rtd)		Non chordates, Chordates, Taxonomy	Moderator
18	Dr. Antara Kar	Lady Braborne college	9434841812	Cell biology, Genetics, Immunology	Paper-setter
19	Dr. Sharmila Pal	Hooghly Mohosin college	9903332757	Cell biology, Genetics	Paper-setter, Moderator
20	Dr. Sutapa Sannyal	Krishnagar Govt. college	9874075312	Chordate, Ecology, Animal Behavior, Microbiology	Paper-setter
21	Dr. Anirudhha Chatterjee	Scottish Church college	9433903216	Endocrinology, Animal Physiology, Biochemistry, Chordate	Paper-setter
22	Dr. Indranil Saha	Sarsuna college	9831351607	Endocrinology, Microbiology, Animal Physiology,	Paper-setter



				Biochemistry, Chordate, Ecology	
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Resolved that above mentioned paper setters and moderators of the courses in the Dept. of Zoology be approved for the ensuing semesters in B.Sc. Zoology (Hons.) of our College.

### 3) Agenda III – Any other matter

Examination Details – Marks and Question pattern for End Semester Examination (for Full Marks = 50)

- Q1 – MCQ of 1 mark (5 questions to be answered) with 8 options
- Q2 – very short question of 1 mark (5 questions to be answered) with 8 options
- Q3 – Short questions of 3 marks (5 questions to be answered) with 8 options [3 or (2+1) or (1+1+1) type of division of marks]
- Q4- Compulsory column matching type question of 5 marks with two options (Each question with 5 pairs of data to be matched)
- Q5- Long answer type questions of 5 marks (4 questions to be answered) with 7 options [5 or (4+1) or (3+2) or (2+2+1) or (3+1+1) type of divisions of marks]

*Pradyot Kumar Medda*

(Dr. Pradyot Kumar Medda)

HOD & Chairman of BOS

ASSOCIATE PROFESSOR  
AND HEAD  
Dept. of Zoology  
R. K. Mission V.C. College  
Rahara, Kol-700118







**RAMAKRISHNA MISSION  
VIVEKANANDA CENTENARY COLLEGE**  
(An Autonomous College under West Bengal State University)  
**P.O. RAHARA, KOLKATA-700118**  
**WEST BENGAL, INDIA**

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Website: [rkmvccorahara.org](http://rkmvccorahara.org)

**Date : 28-11-2020**

**NOTICE**

An online meeting of the Board of studies of the Department of Zoology of R.K.M.V.C. College, Rahara, will be held on **Sunday, the 29<sup>th</sup> November, 2020 at 5.00 PM**. A meeting link has been sent earlier in respective mail in this regard.

Members are requested kindly to attend.

(Dr. Pradyot Kumar Medda)  
HOD & Chairman of BOS

ASSOCIATE PROFESSOR  
AND HEAD  
Dept. of Zoology  
R. K. Mission V.C. College  
Rahara, Kol-700118

**Agenda:**

1. Confirmation of the proceedings of the meeting held on Wednesday, the 26th February, 2020, at 1.30 PM.
2. To report online class and examination of different semesters (UG).
3. To report result summary of final Semester Examination, 2020 (Semester VI) & some postgraduate admissions .
4. To report online class of newly admitted Semester I (UG).
5. To report introduction of PG course.
6. To report introduction of Ph.D. course.
7. Any other matter with permission of the Chair.



Online Meeting of the Board of Studies (UG)  
of the Department of Zoology, RKMVC College, Rahara  
Dated November 29 (Sunday), 2020

Members present:

Sl. No.	Name	Signature
1	Dr. Pradyot Kumar Medda, Chairperson	Present
2	Dr. Debkumar Datta	Present
3	Dr. Koutilya Bhattacharjee	Present
4	Dr. Arunava Mukherjee	Present
5	Sri Samir Sardar	Present
6	Dr. Suvajit Maity	Present
7	Dr. Subham Mookerji	Present
8	Dr. Pannalal Das	Present
9	Dr. Bulganin Mitra	Present
10	Swami Vedanuragananda	Present
11	Prof. Sumit Homechaudhuri	Present
12	Prof. Chiranjib Pal	Present
13	Dr. Aniruddha Banerji	Present
14	Dr. Rajib Majumder	Present





**R. K. M. V. C. COLLEGE, RAHARA, KOLKATA – 700118**

Proceedings of the online meeting of the Board of Studies of the Department of Zoology of R.K.M.V.C. College held on November 29, 2020, Sunday at 5 PM.

Members present:

Dr. Pradyot Kumar Medda  
Dr. Deb Kumar Datta  
Dr. Koutilya Bhattacharjee  
Dr. Arunava Mukherjee  
Sri Samir Sardar  
Dr. Suvajit Maity  
Dr. Subham Mookerji  
Dr. Pannalal Das  
Dr. Bulganin Mitra  
Swami Vedanuragananda  
Prof. Sumit Homechaudhuri  
Prof. Chiranjib Pal  
Dr. Aniruddha Banerji  
Dr. Rajib Majumder

Dr. Pradyot Kumar Medda took the chair.

**Minutes of the Meeting:**

**Agenda 1: Confirmation of the proceedings of the meeting held on Wednesday, the 26<sup>th</sup> February, 2020, at 1.30 PM**

Dr. P.K. Medda read out the proceedings of the meeting held on Wednesday, the 26<sup>th</sup> February, 2020.

**Agenda 2: To report online class and examination of different semesters (UG)**

Dr. P. K. Medda reported that B.Sc. Zoology (Hons.) Semesters II, IV and VI were running before the start of lockdown, and midsem examinations of these semesters were held in the college. In the period of lockdown online classes were held regularly to complete their syllabus. Endsem examination of Sem VI (final semester) was held in June and later result was also published. Online classes of provisional Sem III & Sem V (promoted from Sem II & Sem IV) started from August. Endsem examinations of backlog Sem II & IV were taken on September & October. Results of these semesters were also published just.

Resolved that the results of all the semesters of Zoology (Hons.) be adopted in the record.



**Agenda 3: To report result summary of Semester VI (Final semester) & some postgraduate admission**

Dr. P.K. Medda reported the result summary of final semester of 39 students. The highest CGPA is 9.5 (attained by Padmanava Dasgupta) while the lowest CGPA is 6.25 (attained by Bivasranjan Karmakar). A total of 8 students attained the CGPA in the range of 8.

Regarding the admission of some passed out final semester students, he mentioned that Padmanava Dasgupta has been taking integrated Ph.D. course in IISc, Bengaluru. However, he also got chances elsewhere, as in IIT Bombay; TIFR; IISER, Pune; IISER, Mahali; IISER, Tirupati; IACS, Kolkata. Uday Saha got admitted in NIBMG, Kalyani. Dipak Sil got admitted in M.Sc. of Animal Biology & Biotechnology, Hyderabad University while Amartya Bagchi in M.Sc. of Marine Biology, Madurai Kamraj University. Soumyaneel Chakraborty has been taking MBA Sports Management course in ESG India, Bengaluru.

**Agenda 4: To report online class of newly admitted Semester I (UG)**

Dr. P.K. Medda reported that during the lockdown period, newer batch of students were admitted in Semester I. Online classes have been continuing since October after Orientation & Induction programme.

**Agenda 5: To report introduction of PG course**

- i) Dr. P.K. Medda reported that as proposal of introducing PG course in Zoology was taken earlier in the meeting of Academic Council, the venture has been taken during the lockdown. A total of 32 PG students has been admitted in Semester I and doing their online classes since November 12 of this year after their Orientation & Induction programme.
- ii) Prof. Sumit Homechaudhuri asked whether anything innovative or newer approach has been incorporated in the new syllabus of PG. He emphasized on the functional aspects with respect to environment and adaptation to make the syllabus more attractive. Dr. A. Mukherjee replied that the Sem I syllabus is not much on such aspects, but these suggestions would be looked for next semesters. He also gave an outline for the papers of Sem I. Prof. Chiranjib Pal suggested for vector biology with special reference to mosquitoes mapping. He mentioned on saliva biochemistry of mosquitoes & related immunology of humans.
- iii) Further resolved that 100 % modification of the M.Sc. Zoology syllabus be adopted from the session 2020-2021.
- iv) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of M.Sc. Zoology.
- v) Resolved that the identified PSOs and COs of all courses be introduced from this session 2020-2021 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
- vi) All members discussed the relevance to the local, national, regional and global needs present in all the courses in M.Sc. Zoology.
- vii) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.





- viii) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- ix) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2020-2021.
- x) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in M.Sc. Zoology.
- xi) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2020-2021.

**Agenda 6: To report Introduction of Ph. D course**

- i) It is resolved that 100 % modification of the Ph.D. Zoology syllabus be adopted from the session 2020-2021.
- ii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of Ph.D. Zoology.
- iii) Resolved that the identified PSOs and COs of all courses be introduced from this session 2020-2021 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
- iv) All members discussed the relevance to the local, national, regional and global needs present in all the courses in Ph.D. Zoology.
- v) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
- vi) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- vii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2020-2021.
- viii) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in Ph.D. Zoology.
- ix) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2020-2021.

**Agenda 7: Any other matter :**

- 1) Dr. P.K. Medda raised the point whether any other additional names for examiners/moderators could be proposed. Some members added, as follows:

Name	Institution	Specialization
Dr. Nayan Roy	M.U.C. Women's College, Burdwan	Ecology
Dr. Priyanka De	St. Xavier's college, Kolkata	Ecology
Dr. Nandini Bhattacharjee	Rishi Bankim Chandra College, Naihati	Genetics
Dr. Dr. Anirban Banerjee	Chakdaha College	Parasitology
Dr. Ankur Bhawal	Vidyasagar College (Day), Kolkata	Molecular Biology, Immunology
Dr. Aniruddha Mitra	Sarojini Naidu College for Women, Kolkata	Animal Behaviour, Ecology, Evolution, Insect Physiology



Dr. Tapan Kumar Roy	Asutosh College	Entomology
Dr. Deep Chandan Chakraborty	Asutosh College	Ecology, Biodiversity & Wildlife

2) Swami Vedanuragananda asked for suggestions for taking online practical classes. Dr. Aniruddha Banerji expressed his views on demonstration-based practicals, particularly video-based or picture-based. Dr. Debkumar Datta mentioned that he is taking his practical classes on Animal Behaviour by providing related videos.

The meeting ended with vote of thanks to the Chair.

*Pradyot Kumar Medda*

(Dr. Pradyot Kumar Medda)  
HOD & Chairman of BOS

ASSOCIATE PROFESSOR  
AND HEAD  
Dept. of Zoology  
R. K. Mission V.C. College  
Rahara, Kol-700118







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Web : [www.rkmvccrahara.org](http://www.rkmvccrahara.org)

Date: 22-05-2021

NOTICE

An online meeting of the Board of studies of the Department of Zoology of R.K.M.V.C. College, Rahara, will be held on Sunday, the 23th May, 2021 at 5.00 PM. A meeting link has been sent earlier in respective mail in this regard.

Members are requested kindly to attend.

(Dr. Pradyot Kumar Medda)  
HOD & Chairman of BOS  
ASSOCIATE PROFESSOR  
AND HEAD  
Dept. of Zoology  
R. K. Mission V.C. College  
Rahara, Kol-700118.

**Agenda:**

1. Confirmation of the proceedings of the online meeting held on Sunday, the 29 November, 2020, at 5 PM.
2. To report online class and examination of different semesters.
3. To report result summary of examinations of different semesters.
4. To report syllabus modifications
5. Any other matter with permission of the Chair.



Online Meeting of the Board of Studies of the Department of Zoology, RKMVC College, Rahara  
Dated May 23 (Sunday), 2021 at 5 PM

Sl. No.	Members present :	Signature
1	Dr. Pradyot Kumar Medda, Chairperson	Present
2	Dr. Debkumar Datta	Present
3	Dr. Koutilya Bhattacharjee	Present
4	Dr. Arunava Mukherjee	Present
5	Sri Samir Sardar	Present
6	Sri Rupak Kumar Das	Present
7	Dr. Ajoy Mallick	Present
8	Dr. Suvajit Maity	Present
9	Dr. Subham Mookerji	Present
10	Dr. Pannalal Das	Present
11	Dr. Bulganin Mitra	Present
12	Swami Vedanuragananda	Present
13	Prof. Sumit Homechaudhuri	Present
14	Prof. Chiranjib Pal	Present
15	Dr. Aniruddha Banerji	Present
16	Dr. Rajib Majumder	Present





**R. K. M. V. C. COLLEGE, RAHARA, KOLKATA – 700118**

Proceedings of the online meeting of the Board of Studies of the Department of Zoology of R.K.M.V.C. College held on May 23, 2021, Sunday at 5 PM.

Members present:

Dr. Pradyot Kumar Medda  
Dr. Deb Kumar Datta  
Dr. Koutilya Bhattacharjee  
Dr. Arunava Mukherjee  
Sri Samir Sardar  
Sri Rupak Kumar Das  
Dr. Ajoy Mallick  
Dr. Suvajit Maity  
Dr. Subham Mookerji  
Dr. Pannalal Das  
Dr. Bulganin Mitra  
Swami Vedanuragananda  
Prof. Sumit Homechaudhuri  
Prof. Chiranjib Pal  
Dr. Aniruddha Banerji  
Dr. Rajib Majumder

Dr. Pradyot Kumar Medda took the chair.

**Minutes of the Meeting:**

**Agenda 1: Confirmation of the proceedings of the online meeting held on Sunday, the 29th November, 2020, at 5 PM**

The proceedings of the last online meeting held on 29<sup>th</sup> November, 2020 read by Dr. P. K. Medda and confirmed.

**Agenda 2: To report online class and examination of different semesters**

Dr. P. K. Medda reported that online classes of B.Sc. Zoology (Hons.) Semesters I, III and V started last year (*i.e.*, 2020) : Sem I from October 1, Sem III & V from August 1, while PG Sem I from November 12. Midsem online written examinations of all these semesters were held on December 21-24, 2020. Again, endsem online written theory examinations were taken on March 8-20, 2021, while practical examinations were taken on March 18-31, 2021 based on viva/ presentation.

After the examination is over, provisional Semesters II, IV & VI UG classes and semester II PG class started from April 8, 2021. Their online midsem examination has been scheduled to be held on June 1-4, 2021.



### **Agenda 3: To report result summary of different semesters**

Dr. P.K. Medda reported the final result summary of different semesters. For **UG Sem I**, 58 students appeared, 57 got **QS** (i.e., qualified for next semester) & 1 failed (**X**). The highest SGPA is 9.7 (attained by Pratyush Kumar Datta) while the lowest SGPA is 5.2 (attained by Manojit Nandi). A total of 13 students attained the SGPA in the range of 9 while 24 students in the range of 8.

For **UG Sem III**, 40 students appeared and all got **QS**. The highest SGPA is 9.15 (attained by 5 students) & lowest SGPA is 5.54 (attained by Abhishek Ghosh). A total of 6 students attained the SGPA in the range of 9, while 28 students in the range of 8.

For **UG Sem V**, 47 students appeared and all got **QS**. The highest SGPA is 9.75 (attained by Sumit Pal), while the lowest SGPA is 6.25 (attained by Saptarshi Manna & Aritra Pal). A total of 11 students attained SGPA in the range of 9, while 28 students in the range of 8.

For **PG Sem I**, 29 students appeared in the examination and all achieved **QS**. The highest SGPA is 9.04 (attained by Sandip Chatterjee), while the lowest SGPA is 6.92 (attained by Alope Kumar Kundu). Only one student got the SGPA in the range of 9, while 17 students in the range of 8.

Resolved that the results of all the semesters of Zoology be adopted in the record.

### **Agenda 4: Syllabus modification**

- i) Further resolved that 25 % modification of the B.Sc. Zoology syllabus be adopted from the session 2021-2022.
- ii) HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Zoology.
- iii) Resolved that the identified PSOs and COs of all courses be introduced from this session 2021-2022 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.
- iv) All members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Zoology.
- v) Resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.
- vi) All members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.
- vii) Resolved that, relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2021-22.
- viii) All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Zoology.
- ix) Resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2021-2022.

**Agenda 5: Any other matter:**

- 1) Dr. Medda reported that our students, other than their normal online scheduled classes, have been doing also online projects, internship, courses and even attending webinars.

Prof. Sumit Homechaudhuri expressed his satisfaction at such ventures of the students. He said these will make greater exposure of the students to the outer world. He also suggested for innovative home assignments for the students during the lockdown period to keep them active.

- 2) Dr. Medda raised the point whether any name for examiners/moderators could be proposed, particularly for P.G. Sem II courses. Some members added, as follows :

SL NO	NAME	INSTITUTION	SPECIALIZATION
1.	Dr. Bhaskar Gupta	Government General Degree College, Singur	Molecular Biology, Biotechnology
2.	Dr. Mahasweta Mitra Ghosh	St. Xavier's College, Kolkata	Microbiology
3.	Dr. Narayan Ghorai	WBSU	Ecology
4.	Dr. Sugopa Sengupta	Presidency University	Molecular Biology, Biotechnology
5.	Dr. Sanghamitra Sengupta	University of Calcutta	Biochemistry, Molecular Biology, Genomics

3. Success of the students & their placement in different national level institutes for higher studies in the last year was highly appreciated by all the external members.

Prof Homechaudhuri expressed his best wishes for the students over their better results.


Dr. Aniruddha Banerjee also congratulated the institution and the department for the better results & placement of the last final year students. Prof. Chiranjib Pal also joined to Dr. Banerjee.

Dr. A. Mukherjee and Swami Vedanuragananda expressed their sincere gratitude to the external members about their valuable suggestions and guidance for such achievements of the students.

Prof. Chiranjib Pal later expressed his past experiences that the passed out previous students (i.e., before autonomy) admitted in M.Sc. at WBSU showed more interest towards ecology and environmental sciences. He suggested for motivating the students towards other branches also.

Dr.. Aniruddha Banerjee suggested for a Departmental Journal. Dr. A. Mukherjee replied that the College Journal is going to get published very soon with ISSN number, and two peer reviewed articles from students will get accommodated.

The meeting ended with vote of thanks to the Chair.

  
(Dr. Pradyot Kumar Medda)  
HOD & Chairman of BOS





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Website: [rkmccearahara.org](http://rkmccearahara.org)

**Date : 18-07-2017**

**NOTICE**

A meeting of the Board of studies in Chemistry, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara, will be held at the Department of Chemistry of the college on Tuesday, the 25<sup>th</sup> July, 2017 at 3.30 PM.

Members are requested kindly to attend.

*Chandrakanti Bandyopadhyay*

(.....)

HOD & Chairman of BOS

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118

Proceedings of the meeting of the Board of studies in Chemistry, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, held at the Department of Chemistry of the college on Tuesday, the 25<sup>th</sup> July, 2017 at 3.30 PM.

The Chairman took the Chair.

1. Resolved that whole syllabus of B.Sc. Chemistry be introduced with Choice Based Credit System (CBCS) from session 2017-2018. Further resolved that modification/revision of the B.Sc. Chemistry syllabus shall be adopted from the session 2017-2018.

HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Chemistry. Further resolved that the identified PSOs and COs of all courses be introduced from this session 2017-2018 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.

All members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Chemistry. Further resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.

All members discussed the direct implication of all courses in terms of employability/entrepreneurship/skill-development for the students. Further resolved that, relevant activities related to employability/entrepreneurship/skill development for the students be properly introduced from the session 2017-18.

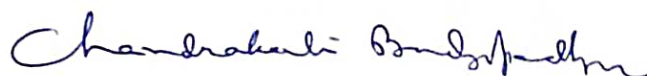
All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Chemistry. Further resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2017-2018.

The syllabus presented in the meeting was unanimously approved in the board meeting. A few reference books were suggested by our external expert members.

The suggested books are:

- (i) For Chemistry-C VI: Inorganic Chemistry-II: "Chemical Bonding: Weak and Strong Chemical Forces" By G. Desiraju.
  - (ii) For DSE-1: Advanced Physical Chemistry: "Solid State Chemistry" By C. N. R. Rao and J. Gopalakrishnan.
2. A list of teachers from different colleges under different Universities was made to act as External paper-setter and Moderator in the semester examinations. This list was unanimously accepted by the members present in the board meeting.
  3. Dr. Ayan Datta and Dr. Arnab Mukherjee suggested demonstration of experiments involving UV-Vis spectrometer in front of students with organic and inorganic compounds.

The meeting ended with a vote of thanks to the Chair.



(Dr. Chandrakanta Bandyopadhyay)  
HOD & Chairman of BOS

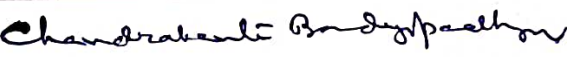
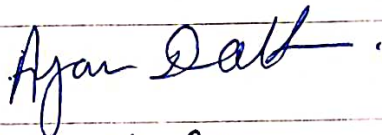
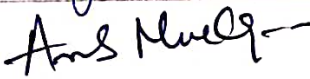


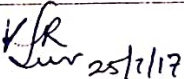

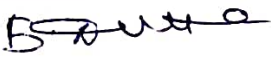

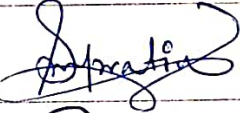
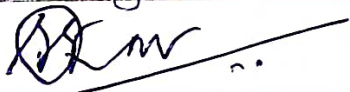
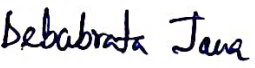
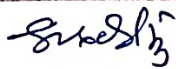
**DR. CHANDRAKANTA BANDYOPADHYAY**

**Associate Professor and Head**

**Department of Chemistry**

**Ramakrishna Mission Vivekananda Centenary College  
Rahara, Kolkata - 700118**

Members Present:

Name	Signature
1. Dr. Chandrakanta Bandyopadhyay (Chair Person)	
2. Prof. Chittaranjan Sinha 3. (Jadavpur University)	
4. Dr. Ayan Datta (Indian Association for the Cultivation of Science)	
5. Dr. Arnab Mukherjee (Central Glass and Ceramic Research Institute)	
6. Dr. Chirantan Roy Choudhury (West Bengal State University)	
7. Dr. Tapas Ghosh (R. K. Mission. V. C. College)	
8. Dr. Kumar Ranabir Sur (R. K. Mission. V. C. College)	
9. Dr. Ranjan Patra (R. K. Mission. V. C. College)	
10. Dr. Subhabrata Banerjee (R. K. Mission. V. C. College)	
11. Dr. Buddhadeb Dutta (R. K. Mission. V. C. College)	
12. Dr. Bipul Mondal (R. K. Mission. V. C. College)	
13. Dr. Kaustab Mandal (R. K. Mission. V. C. College)	
14. Dr. Supratim Suin (R. K. Mission. V. C. College)	
15. Dr. Sougata Sarkar (R. K. Mission. V. C. College)	
16. Dr. Debabrata Jana (R. K. Mission. V. C. College)	
17. Sri Gangadhar Chakraborty (R. K. Mission. V. C. College)	





2

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**Date : 10-02-2018**

**NOTICE**

A meeting of the Board of studies in Chemistry, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara, will be held at the Department of Chemistry of the college on Monday, the 26<sup>th</sup> February, 2018 at 3.00 PM.

Members are requested kindly to attend.

*Chandrakanta Bandyopadhyay*  
(Dr. Chandrakanta Bandyopadhyay)  
HOD & Chairman of BOS

**Agenda:**

1. To confirm the proceedings of the previous meeting held on 25-7-2017.
2. To consider the results of the UG First Semester.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

Proceedings of the meeting of the Board of studies in Chemistry, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, held at the Department of Chemistry of the college on Monday, the 26<sup>th</sup> February, 2018 at 3.00 PM.

The Chairman took the Chair.

1. The proceedings of the previous meeting held on 25-07-2017 are confirmed.

2. Resolved that whole syllabus of M.Sc. Chemistry be introduced with Choice Based Credit System (CBCS) from session 2018-2019. Further resolved that 100% modification/revision of the M.Sc. Chemistry syllabus shall be adopted from the session 2018-2019.

HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of M.Sc. Chemistry. Further resolved that the identified PSOs and COs of all courses be introduced from this session 2018-2019 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.

All members discussed the relevance to the local, national, regional and global needs present in all the courses in M.Sc. Chemistry. Further resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.

All members discussed the direct implication of all courses in terms of employability/entrepreneurship/skill-development for the students. Further resolved that, relevant activities related to employability/entrepreneurship/skill development for the students be properly introduced from the session 2018-19.

All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in M.Sc. Chemistry. Further resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2018-2019.

3. The results of UG-Semester-1 were discussed. Dr. Ayan Datta showed by drawing a graph that the results are satisfactory in all respect. Prof Sinha suggested microteaching for students with lower attendance.

4. List of External paper-setters and Moderators made in the last semester is unanimously accepted by the members present in the board meeting.

The following suggestions were made from the board members:

- i. Regarding the introduction of 'Scientific Writing Skills' in 'Skill Oriented Course'.
- ii. Introduction of 'Computational Chemistry' in the syllabus.

The meeting ended with a vote of thanks to the Chair.



(Dr. Chandrakanta Bandyopadhyay)  
HOD & Chairman of BOS

**DR. CHANDRAKANTA BANDYOPADHYAY**  
Associate Professor and Head  
Department of Chemistry  
Ramakrishna Mission Vivekananda Centenary College  
Rahara, Kolkata - 700118

**Members Present:**

Name	Signature
1. Dr. Chandrakanta Bandyopadhyay (Chair Person)	Chandrakanta Bandyopadhyay
2. Prof. Chittaranjan Sinha (Jadavpur University)	Chittaranjan Sinha 26/2/18
3. Dr. Ayan Datta (Indian Association for the Cultivation of Science)	Ayan Datta
4. Dr. Arnab Mukherjee (Central Glass and Ceramic Research Institute)	Arnab Mukherjee -
5. Dr. Chirantan Roy Choudhury (West Bengal State University)	Chirantan Roy Choudhury
6. Dr. Tapas Ghosh (R. K. Mission. V. C. College)	Tapas Ghosh
7. Dr. Kumar Ranabir Sur (R. K. Mission. V. C. College)	Kumar Ranabir Sur.
8. Dr. Ranjan Patra (R. K. Mission. V. C. College)	Ranjan Patra
9. Dr. Subhabrata Banerjee (R. K. Mission. V. C. College)	Subhabrata Banerjee
10. Dr. Buddhadeb Dutta (R. K. Mission. V. C. College)	
11. Dr. Bipul Mondal (R. K. Mission. V. C. College)	
12. Dr. Kaustab Mandal (R. K. Mission. V. C. College)	Kaustab Mandal.
13. Dr. Supratim Suin (R. K. Mission. V. C. College)	Supratim Suin
14. Dr. Sougata Sarkar (R. K. Mission. V. C. College)	
15. Dr. Debabrata Jana (R. K. Mission. V. C. College)	
16. Sri Gangadhar Chakraborty (R. K. Mission. V. C. College)	Gangadhar Chakraborty





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Website: [rkmvccrahara.org](http://rkmvccrahara.org)

Date : 16-01-2020

## NOTICE

A meeting of the Board of studies in Chemistry, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara, will be held at the Department of Chemistry of the college on Tuesday, the 18<sup>th</sup> February, 2020 at 3.00 PM.

Members are requested kindly to attend.

*Chandrakanta Bandyopadhyay*

(Dr. Chandrakanta Bandyopadhyay)  
HOD & Chairman of BOS

### Agenda:

1. To confirm the proceedings of the previous meeting held on 06-8-2019.
2. To consider the results of the UG first, third and fifth semesters and PG first and third semesters.
3. To consider the revision of the UG- first and second semesters. *syllabus*
4. To consider the matter in respect of External Paper Setter and Moderator.
5. Any other matter with permission of the Chair.

*(Supplementary examination for candidates having G.P.W. less  
in semesters V and VI)*

Proceedings of the meeting of the Board of studies in Chemistry, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, held at the Department of Chemistry of the college on Tuesday, the 18<sup>th</sup> February, 2020 at 3.00 PM.

The Chairman took the Chair.

1. The proceedings of the previous meeting held on 6-08-2019 were confirmed.
2. Resolved that 21.4% modification/revision of the B.Sc. Chemistry syllabus shall be adopted from the session 2020-2021.

HOD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Chemistry. Further resolved that the identified PSOs and COs of all courses be introduced from this session 2020-2021 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.

All members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Chemistry. Further resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.

All members discussed the direct implication of all courses in terms of employability/entrepreneurship/skill-development for the students. Further resolved that, relevant activities related to employability/entrepreneurship/skill development for the students be properly introduced from the session 2020-2021.

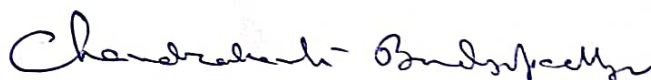
All members also thoroughly discussed about integration of crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Chemistry. Further resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2020-2021.

3. The results of UG-Semester-1, UG-Semester-3, UG-Semester-5, PG-Semester-1 and PG-Semester-3 were discussed and found satisfactory.

4. List of External paper-setters and Moderators were remained unchanged.

5. The Board of Studies suggested supplementary examination for the candidates having result GPW in UG-Sem-5, UG-Sem-6 and PG-Sem-3 and 4 examinations.

The meeting ended with a vote of thanks to the Chair.



(Dr. Chandrakanta Bandyopadhyay)  
HOD & Chairman of BOS

**DR. CHANDRAKANTA BANDYOPADHYAY**  
Associate Professor and Head  
Department of Chemistry  
Ramakrishna Mission Vivekananda Centenary College  
Rahara, Kolkata - 700118



Members Present:

Name	Signature
1. Dr. Chandrakanta Bandyopadhyay (Chair Person)	Chandrakanta Bandyopadhyay
2. Prof. Chittaranjan Sinha (Jadavpur University)	
3. Dr. Ayan Datta (Indian Association for the Cultivation of Science)	Ayan Datta 18/2/2020
4. Dr. Arnab Mukherjee (Central Glass and Ceramic Research Institute)	Arnab Mukherjee 18/2/2020
5. Dr. Chirantan Roy Choudhury (West Bengal State University)	Chirantan Roy Choudhury 18/02/2020
6. Prof. Sanjib Bagchi (R. K. Mission. V. C. College)	Sanjib Bagchi 18/02/2020
7. Dr. Tapas Ghosh (R. K. Mission. V. C. College)	Tapas Ghosh 18/02/2020
8. Dr. Kumar Ranabir Sur (R. K. Mission. V. C. College)	Kumar Ranabir Sur
9. Dr. Ranjan Patra (R. K. Mission. V. C. College)	Ranjan Patra
10. Dr. Subhabrata Banerjee (R. K. Mission. V. C. College)	
11. Dr. Buddhadeb Dutta (R. K. Mission. V. C. College)	Buddhadeb Dutta 18.2.2020
12. Dr. Bipul Mondal (R. K. Mission. V. C. College)	Bipul Mondal 18/02/2020
13. Dr. Kaustab Mandal (R. K. Mission. V. C. College)	Kaustab Mandal 18.02.2020
14. Dr. Supratim Suin (R. K. Mission. V. C. College)	Supratim Suin 18/02/2020
15. Dr. Sougata Sarkar (R. K. Mission. V. C. College)	Sougata Sarkar 18/2/2020
16. Dr. Debabrata Jana (R. K. Mission. V. C. College)	Debabrata Jana
17. Sri Gangadhar Chakraborty (R. K. Mission. V. C. College)	Gangadhar Chakraborty





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**Date : 16-05-2018**

**NOTICE**

A meeting of the Board of studies in the Department of Microbiology of R.K.M.V.C. College, Rahara, will be held at the Microbiology Department of the college on Tuesday, the 22<sup>nd</sup> May, 2018 at 12.00 noon.

Members are requested kindly to attend.

*Sw. Kamalasthanda*

**(Swami Kamalasthananda)**

*Principal*

**Ramakrishna Mission**

**Vivekananda Centenary College**

**P.O. Rahara, Kolkata-700118**

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

# Ramakrishna Mission

## Vivekananda Centenary College

Rahara, Kolkata

### Department of Microbiology

### Board of Studies Meeting

Date : 22. 05. 2018

Sl No.	Name	Signature
1	Swami Kamalasthananda, Principal; RKMVC College, Rahara	Sw. K. A.
2	Swami Vedanuragananda, Controller of Exam; RKMVC College, Rahara	Swami Vedanuragananda.
3	Br. Swaraj Maharaj, Co-ordinator, Department of Microbiology; RKMVC College, Rahara	Br. Swaraj Maharaj
4	Dr. Anirban Bhar, Joint Co-ordinator; Department of Microbiology, RKMVC College, Rahara	Anirban Bhar
5	Dr. Avik Kumar Choudhury, Assistant Co-ordinator; Department of Microbiology, RKMVC College, Rahara	Avik Kumar Choudhury
6	Dr. Subrata Kundu, Assistant Prof.; Department of Microbiology, RKMVC College, Rahara	S Kundu
7	Dr. Sukhendu Mandal, Assistant Professor; Department of Microbiology, Calcutta University	Sukhendu Mandal
8	Dr. Pradipta Saha, Assistant Professor; Department of Microbiology, The University of Burdwan	
9	Dr. Sibani Sen (Chakraborty), Assistant Professor; Department of Microbiology, West Bengal State University, Barasat	Sibani Chakraborty

R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.

Proceedings of the meeting of the Board of studies in Department of Microbiology of R.K.M.V.C. College held at the Department of the college on Thursday, the 22<sup>nd</sup> May, 2018 at 12.00 noon.

Swami Kamalasthananda, Principal; R.K.M.V.C.C, Rahara took the Chair.


1. All members of Board of Studies of Department of Microbiology resolved that whole syllabus of B. Sc. Microbiology be introduced with choice based credit system (CBCS) from the session 2018-2019. They further resolved that 100 percent modification of the B. Sc. Microbiology syllabus be adopted from the session 2018-2019. Co-ordinator of the Department mentioned that Programme Outcomes (POs), programme specific outcomes (PSOs) & Course outcomes (COs) are identified for all courses of B. Sc. Microbiology. All the members resolved that the identified PSOs & COs of all courses be introduced from this session 2018 - 2019 and all POs, PSOs & COs be mapped properly in order to get desired attainment level. They also discussed the relevance of the local, national, regional and global needs present in all courses in B.Sc. Microbiology. Members resolved that the local, national, regional and global needs of all courses be implanted for proper growth and development of the students. They discussed the direct implementation of all courses in terms of employability, entrepreneurship and skill development for the students. All members resolved that relevant activities related to employability, entrepreneurship and skill development for the students be properly introduced from the session 2018 - 2019. They also thoroughly discussed about integration of consulting issues relevant to Human Value, Professional Ethics, Gender, Environment & Sustainability in all courses in B. Sc. Microbiology. They resolved the issues relevant to Human Value, Professional Ethics, Gender, Environment & Sustainability in all courses be meticulously followed from the session 2018 - 2019.
2. All the members of Board of Studies of Department of Microbiology are suggested that virtual teaching is more effective for this new department, and visual representation for practical of core course I is necessary.




3. They also mentioned that contractual faculties are more important for new department.
4. All the members of Board of Studies of Department of Microbiology suggested that dedicated persons are required for the Department and senior faculty from renowned institutes to be contacted for teaching.
5. All members are also agreed about to bringing young entrepreneur for the paper industrial microbiology.
6. The members of B.O.S are suggested about the Core Course III (Biochemistry) - concepts of buffer etc. to be taught properly. They also emphasized about preferable Chemistry faculty.
7. All members agreed about the collaboration of Botany & Microbiology classes can be a good option for this new Microbiology Department. As if Department of Botany of this college have PG Courses and also research facilities.
8. At last the members of B. O. S. suggested some names of external examiner & moderators:

1. Dr. Prajna Mandal, Acharya Prafulla Chandra College
2. Shaikh Rajesh Ali, Acharya Prafulla Chandra College
3. Dr. Maitreye Mandal, Dinobandhu Andrews College
4. Dr. Sushmita Mandal, Sammilani Maha Vidyalaya
5. Dr. Prosenjit Das, Vijaygarh Jyotish Roy College
6. Dr. Kuntal Kanti Goswami, Asutosh College
7. Dr. Arindam Roy, Ramakrishna Mission Vidyamandira
8. Dr. Samudra Prasad Banik, Maulana Azad College
9. Dr. Bipasha Roy, Maulana Azad College
10. Dr. Madhumita Maitra (Sirkar), St. Xavier's College
11. Dr. Tina Mukherjee, Scottish Church College
12. Dr. Shilajit Barua, Vijaygarh Jyotish Roy College
13. Dr. Anamika Ghatak, Tara Devi Harek Chand Kankaria Jain College

The meeting ended with a vote of thanks to the Chair.

  
.....  
Coordinator of BOS

  
.....  
Chairman of BOS



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Date: 26.06.2017

**NOTICE**

A meeting of the board of studies in the department of Botany of Ramakrishna Mission Vivekananda Centenary College, Rahara will be held on Friday, the 03rd July, 2017 at 3 p.m. Members are requested kindly to attend the meeting;

**1. Agenda:**

2. Confirmation of the processing of the previous meeting.
3. To consider matter related to introduction of UG CBCS curriculum.
4. To consider matter related to question pattern of UG Mid semester and End semester examination.
5. Any other matter with permission of the chair.

Bidyut Bhushan Chatterjee  
HoD & Chairman of BOS

**Head**  
**Deptt. of Botany**  
**R.K.M.V.C. College**  
**Rahara, Kol-118**



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Date: 03.07.2017

**R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.**

Proceedings of the meeting of the Board of Studies in Department of Botany, R.K.M.V.C. College held on Wednesday, 3rd July, 2017 at 3 pm.

1. All members of Board of Studies of Department of Botany resolved that syllabus of M.Sc. Botany be introduced with choice based credit system (CBCS) from the session 2017-2018.
2. The members further resolved that 61% modification of the B. Sc. Botany syllabus to be adopted from the session 2017-2018.
3. HoD, Department of Botany mentioned that Programme Outcomes (POs), Programme specific outcomes (PSOs) & Course outcomes (COs) has been identified for all courses of B. Sc. Botany.
4. The members resolved that identified PSOs & COs of all courses be introduced from this session 2017 – 2018 and all POs, PSOs & COs to be mapped properly in order to get desired attainment level.
7. The members discussed the relevance of local, national, regional and global needs present in the courses and needs to be implemented for proper growth and development of the students.
8. They discussed the implementation of employability, entrepreneurship and skill development for the students.
9. They also thoroughly discussed about integration of cross-cutting issues relevant to Human Value, Professional Ethics, Gender, Environment & Sustainability to all courses in B. Sc. Botany from the session 2017-2018.
10. Matters related to examination procedure and distribution of marks, for both theoretical & Practical paper, is also decided to remain same as previous examinations unless UGC and/or Government speak otherwise.

The meeting ended with a vote of thanks to the chair.

Date: 03/07/2017

Bidyut Bhushan Chatterjee  
HoD & Chairman of BOS

**Head  
Deptt. of Botany  
R.K.M.V.C. College  
Rahara, Kol-118**





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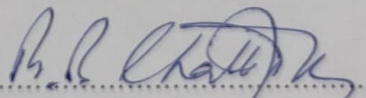
Date: 10.5.2018

**NOTICE**

A meeting of the board of studies in the department of Botany of Ramakrishna Mission Vivekananda Centenary College, Rahara will be held on Friday, the 17<sup>th</sup> May, 2018 at 3 p.m. Members are requested kindly to attend the meeting;

**1. Agenda:**

2. Confirmation of the processing of the previous meeting.
3. To consider matter related to introduction of P.G CBCS curriculum.
4. To consider matter related to introduction of Ph.D course work syllabus.
5. To consider matter related to question pattern of P.G Mid semester and End semester examination.
6. To consider matter related to Ph.D course work examination.
7. Any other matter with permission of the chair.

  
Bidyut Bhushan Chatterjee  
HoD & Chairman of BOS

**Head  
Deptt. of Botany  
P.K.M.V.C. College  
Rahara, Kol-118**



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Date: 17.5.2018

**R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.**

Proceedings of the meeting of the Board of Studies in Department of Botany, R.K.M.V.C. College held on Wednesday, 17<sup>th</sup> May, 2018 at 3 pm.

1. All members of Board of Studies of Department of Botany resolved that syllabus of M.Sc. Botany be introduced with choice based credit system (CBCS) from the session 2018-2019.
2. The members further resolved that 52 percent modification of the M. Sc. Botany syllabus to be adopted from the session 2018-2019.
3. The members of Board of Studies of Department of Botany resolved that syllabus of Ph.D. course work to be newly introduced from the session 2018-2019 with 100% modification.
4. HoD, Department of Botany mentioned that Programme Outcomes (POs), Programme specific outcomes (PSOs) & Course outcomes (COs) has been identified for all courses of M. Sc. And Ph.D. Botany syllabus.
5. The members resolved that identified PSOs & COs of all courses be introduced from this session 2017 – 2018 and all POs, PSOs & COs to be mapped properly in order to get desired attainment level.
8. The members discussed the relevance of local, national, regional and global needs present in the courses and needs to be implemented for proper growth and development of the students.
9. They discussed the implementation of employability, entrepreneurship and skill development for the students.
10. They also thoroughly discussed about integration of cross-cutting issues relevant to Human Value, Professional Ethics, Gender, Environment & Sustainability to all courses in M. Sc. And Ph.D. Botany from the session 2018-2019.
11. Matters related to examination procedure and distribution of marks, for both theoretical & Practical paper, is also decided to remain same as previous examinations unless UGC and/or Government speak otherwise.

The meeting ended with a vote of thanks to the chair.

Date: 17/5/2018

Bidyut Bhushan Chatterjee  
HoD & Chairman of BOS

**Head**  
**Deptt. of Botany**  
**R.K.M.V.C. College**  
**Rahara, Kol-118**

**RAMAKRISHNA MISSION  
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Proceedings of the meeting of the Departmental Committee held at the Botany Department of the College on Thursday 17- 05-2018 at 3:00 pm.

Bidyut Bhusan Chattopadhyay	Bidyut Bhusan Chattopadhyay 17/5/18
Dr. Swapan Kr. Ghosh	
Dr. Biswajit Ghosh	Biswajit Ghosh
Dr. Niloy Chakraborty	<u>Niloy Chakraborty</u> 17/5/18
Dr. Harisankar Dey	Harisankar Dey 17/05/18
Dr. Anirban Kundu-	Anirban Kundu 17/5/18
Dr. Biswajit Roy	Biswajit Roy 17/05/18
Dr. Avik Chowdhuri	Avik Kumar Chowdhury 17/05/18
Dr. Anirban Bhar	







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Date: 29.10.2020

**NOTICE**

A virtual meeting of the board of studies in the department of Botany of Ramakrishna Mission Vivekananda Centenary College, Rahara will be held on Thursday, the 5<sup>th</sup> November, 2020 at 4 p.m. Members are requested kindly to attend the meeting;

**Agenda:**

1. Conformation of the processeding of the previous meeting.
2. To consider matter related to the revision of UG CBCS curricullam, 2017.
3. To consider matter online theoretical and practical classes.
4. To consider matter related to question pattern of UG and PG Mid semester and End semester online examinations.
5. Any other matter with permission of the chair.

Sd/- Bidyut Bhushan Chatterjee  
HOD & Chairman of BOS



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Date:

**R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118**

Proceedings of the virtual meeting of the Board of Studies in Botany Department of R.K.M.V.C College, Rahara conducted through Google meet platform held on Thursday, the 5<sup>th</sup> November, 2020 at 4:00 PM.

The chairman took the chair (virtual).

1. Academic activities conducted by the department for the last semester under lock-down condition were elaborately described and the problems faced were discussed by the chairman.
2. External members were informed about the evaluation method of the students of last even-semester (2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>).
3. **Revision of the Syllabus:** Through a collective effort of all its faculty members, department of Botany executed a thorough revision of the B.Sc. Botany courses:
  - The revised Draft syllabus has been sent to all the external members through e-mail in well-advance before the BOS meeting for their inputs and constructive suggestions, if any.
  - Decision of implementation of the revised syllabus has been approved by all the BOS members with approximately 25% modification.
  - Course wise relevance to the local, regional, national, and global needs are identified and properly addressed for the revised portions.
  - Course wise relevance to the employability/ entrepreneurship/ skill development of the students are identified and properly addressed in the revised portions.
  - The issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics are critically taken into consideration in the revised syllabus.
4. Matters related to examination procedure, external examiners and marks distribution, has also been decided to remain same as previous examination (online) unless UGC and/or Government speak otherwise.

The meeting ended with a vote of thanks to the chair (Virtual).

Sd/- Bidyut Bhushan Chatterjee  
HOD & Chairman of BOS



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Date:

## Members Present at the Virtual Meeting:

5.11.2020

1. Mr. Bidyut Bhushan Chatterjee, HOD, BOS Chairman.
2. Dr. Swapan Kumar Ghosh.
3. Dr. Biswajit Ghosh.
4. Dr. Harisankar Dey.
5. Dr. Anirban Kundu.
6. Dr. Biswajit Roy.
7. Dr. Avik Kumar Choudhuri.
8. Dr. Anirban Bhar.
9. Dr. Krishnendu Acharya, University of Calcutta (External Member).
10. Dr. Adinpunya Mitra, IIT Kharagpur (External Member).
11. Dr. Zahed Hossain, Kalyani University (External Member).







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**Date : 26/07/2017**

**NOTICE**

A meeting of the Board of studies in Physics Department of R.K.M.V.C. College, Rahara, will be held at the Physics Department of the college on Thursday, the 3<sup>rd</sup> August, 2017 at 2.00 PM.

Members are requested kindly to attend.

(Dr. Asok Kumar Pal)  
HOD & Chairman of BOS

Head of the Deptt. &  
Associate Professor of Physics  
Ramakrishna Mission  
Vivekananda Centenary College  
Rahara, Kolkata - 700118

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

**Members Present** in the meeting of the Board of studies in Physics-Department of R.K.M.V.C. College, Rahara, on Thursday, the 3<sup>rd</sup> August, 2017.

	Name	Signature
1	Dr. Asok Kumar Pal - Chair Person.	Asok Kumar Pal. 03.08.2017
2	Prof. Palas Baran Pal - EXTERNAL EXPERT Saha Institute of Nuclear Physics.	Palash B Pal 03/08/17
3	Prof. Debnarayan Jana - EXTERNAL EXPERT University of Calcutta.	
4	Dr. Upendranath Nandi - ALUMNI Scottish Church College, Kolkata.	Urandi 03/08/2017
5	Prof. Bibhas Bhattacharyya - UNIVERSITY NOMINEE WB State University.	
6	Dr. Chandan Kumar Das RKMVC College.	Chandan Kr. Das 03/8/17
	Dr. Atisipankar Chakrabarty RKMVC College.	A. Chakrabarti
8	Dr. Rajen Kundu RKMVC College.	Rajen Kundu.
9	Sri Bhaskar Halder RKMVC College.	Bhaskar Halder 03/08/17
10	Dr. Kalyanbrata Chatterjee RKMVC College.	Kalyanbrata Chatterjee 3/08/17
11	Sri Chinmoy Choudhury RKMVC College.	

R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.

Proceedings of the meeting of the Board of studies in Physics Department of R.K.M.V.C. College held at the Physics Department of the college on Thursday, the 3<sup>rd</sup> August, 2017 at 2.00 PM:

The Chairman took the Chair.

1. The new syllabus under the *Choice Based Credit System (CBCS)* was placed before the members and passed.
2. Practical Examination Procedure & Distribution of marks (For Semester-1)  
Laboratory Attendance + LNB + Regular Assessment = 30 Marks  
Grand viva (By Internals) = 20 marks

FINAL EXAMINATION on 50 marks

Viva (by External Expert, exclusively) = 10 marks

Practical Examination = 40 marks

(1 experiment to be performed, by drawing lottery)

3. Theory Examination Procedure & Distribution of marks  
Class Attendance + Assignments, Quiz etc. (Regular Assessment) = 20 Marks  
Midterm Examination = 30 marks (1.5 hours)  
Endterm Examination = 50 marks (2 hours)

Question Pattern of Endterm Examination:

**Gr-A: 24 marks**

Out of 3 Short questions set, each of 2 marks, candidate is to answer any 2.

Out of 3 long questions with subdivisions, each of 10 marks, candidate is to answer any 2.

**Gr-B: 26 marks**

Out of 5 Short questions set, each of 2 marks, candidate is to answer any 3.

Out of 3 long questions with subdivisions, each of 10 marks, candidate is to answer any 2.

4. Regular assessment (for both Theoretical paper & Practical paper) will be carried out by the concerned teachers who have actually taught the course (CC/DSE/SEC/GE).
5. In case, external examiner is not available, viva (in practical examination) will be carried out by an internal examiner who has not taught the course (CC/DSE/SEC/GE).



6. External examiner (for both Theoretical paper & Practical paper) will be selected & appointed by the Controller of Examination of this autonomous body.
7. Grand viva (for Practical Paper) will be taken internally by all interested teachers sitting together.
8. Detail discussions on newly implemented syllabus :-
  - (a) Whole syllabus of B.Sc Physics has been introduced with Choice Based Credit System (CBCS) from session 2017-2018.
  - (b) Approximately 60% of contents have been modified in the syllabus to fit with CBCS system.
  - (c) Programme Specific Outcomes (PSOs) and Course Outcomes (COs) have been identified for all courses of B.Sc. Physics. These PSOs and COs are mapped properly with the Programme Outcomes (POs) in order to get desired attainment level.
  - (d) Course wise relevance to the local, national, regional and global needs are identified and properly addressed throughout the curricula.
  - (e) Course wise relevance to the employability/ entrepreneurship/ skill development of the students are identified and properly addressed throughout the curricula.
  - (f) The issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics are critically taken into consideration in the new syllabus.

The meeting ended with a vote of thanks to the Chair.



( ..... )

HOD & Chairman of BOS

**Head of the Deptt. &  
Associate Professor of Physics  
Ramakrishna Mission  
Vivekananda Centenary College  
Rahara, Kolkata-700118**



**RAMAKRISHNA MISSION  
VIVEKANANDA CENTENARY COLLEGE**

*(An Autonomous College under West Bengal State University)*

**P.O. RAHARA, KOLKATA-700118**

**WEST BENGAL, INDIA**

*College with Potential for Excellence(CPE)  
Accredited by NAAC with Grade A*

Ph: 033-2568-2049

Email: [rkmvccollege@rkmvccrahara.org](mailto:rkmvccollege@rkmvccrahara.org)

Website: [rkmvccrahara.org](http://rkmvccrahara.org)

**Date : 26-10-2021**

**NOTICE**

An online meeting of the Board of studies in Physics, Department of Physics, Ramakrishna Mission Vivekananda Centenary College, Rahara, will be held on Friday, the 5<sup>th</sup> November, 2021 at 4:00 pm.

Members are requested kindly to attend.

(Dr. Asok Kumar Pal)  
HOD & Chairman of BOS

Head of the Deptt. &  
Associate Professor of Physics  
Ramakrishna Mission  
Vivekananda Centenary College  
Rahara, Kolkata-700118

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.

Proceedings of the virtual meeting of the Board of Studies in Physics Department of R.K.M.V.C College, Rahara conducted through Google meet platform held on Friday, the 5<sup>th</sup> November, 2021 at 4:00 PM.

The chairman took the chair (virtual).

1. Proceedings of the last meeting held on the 20<sup>th</sup> May, 2021 were read & confirmed.
2. Academic activities executed by the department during last even semester remaining in lock-down condition were elaborately described by the chairman before all members.
3. External members are informed of the method of evaluation and promotion of the students of last even-semester (6<sup>th</sup>, 4<sup>th</sup> & 2<sup>nd</sup>) in detail.
4. **Syllabus Revision:** Department of Physics, through collective effort of all its faculty members, executed a thorough revision of following courses:
  - (a) UGPHYCC01, UGPHYCC02, UGPHYDSE01, UGPHYDSE02 and UGPHYDSE04 courses.  
Draft of the revised syllabus were sent to all external members through e-mail in well advance before the BOS meeting for their inputs and constructive suggestions, if any, on the day of meeting.
  - (b) Decision of implementation of revised syllabus for the mentioned courses has been approved by all members of BOS unanimously.
  - (c) Approximately 15% of contents have been revised in the syllabus.
  - (d) Course wise relevance to the local, national, regional and global needs are identified and properly addressed in the revised portions.
  - (e) Course wise relevance to the employability/ entrepreneurship/ skill development of the students are identified and properly addressed in the revised portions.
  - (f) The issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics are critically taken into consideration in the revised syllabus.
5. Question papers of the last End-Semesters (even) online examination were sent to all external members through e-mail 4 days before the meeting for their impartial assessment of the standard of questions and constructive suggestion from their end, if any. During meeting external experts gave several constructive suggestions regarding the pattern of question for open-book-examination and also how to improve the quality of teaching in virtual platform. Suggestions from experts have been accordingly noted for its future implementation.
6. Regarding selection of External Paper Setters, Moderators, External examiners for practical examination etc. no firm decisions have taken, rather it is resolved that



internal members will take appropriate decision together with the college authority in this matter according to the situation arisen.

7. Matters related to examination procedure and distribution of marks, for both theoretical paper & Practical paper, are also decided to remain same as previous examinations unless UGC and/or Government speak otherwise.

The meeting ended with a vote of thanks to the chair.



Sd/- Asok Kumar Pal

(.....)

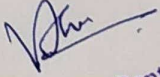
HOD & Chairman of BOS

Head of the Deptt. &  
Associate Professor of Physics  
Ramakrishna Mission  
Vivekananda Centenary College  
Rahara, Kolkata-700118

**Members Present:**

Date: 05.11.2021

	Name	Signature
1	Dr. Asok Kumar Pal- Chair Person	Present in the meeting
2	Prof. Palas Baran Pal - EXTERNAL EXPERT Saha Institute of Nuclear Physics	Present in the meeting
3	Prof. Debnarayan Jana - EXTERNAL EXPERT University of Calcutta	Present in the meeting
4	Dr. Upendranath Nandi - ALUMNI Scottish Church College, Kolkata.	Present in the meeting
5	Prof. Bibhas Bhattacharyya - UNIVERSITY NOMINEE WB State University.	
6	Dr. Chandan Kumar Das RKMVC College.	Present in the meeting
7	Dr. Atisipankar Chakrabarty RKMVC College.	Present in the meeting
8	Dr. Rajen Kundu RKMVC College.	Present in the meeting
9	Sri Bhaskar Halder RKMVC College.	Present in the meeting
10	Dr. Kalyanbrata Chatterjee	Present in the meeting
11	Dr. Anjan Chandra	Present in the meeting
12	Dr. Shankha Shubhro Nag	Present in the meeting
13	Dr. Palash Nath	Present in the meeting
11	Sri Chinmoy Choudhury RKMVC College.	

  
Head of the Deptt. &  
Associate Professor of Physics  
Ramakrishna Mission  
Vivekananda Centenary College  
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Date / /



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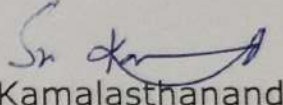
Ph: 033-2566-2049  
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Website: [rkmvcehara.org](http://rkmvcehara.org)

**Date : 16-05-2018**

**NOTICE**

A meeting of the Board of studies in the Department of Computer Science of R.K.M.V.C. College, Rahara, will be held at the Computer Science Department of the college on Tuesday, the 22<sup>nd</sup> May, 2018 at 4.00 PM.

Members are requested kindly to attend.

  
(Swami Kamalasthananda)  
Principal

**Agenda:**

1. To consider the matter relating to syllabus of the Semester system.
2. To consider the matter in respect of External Paper Setter and Moderator.
3. Any other matter with permission of the Chair.



# Ramakrishna Mission Vivekananda Centenary College

Rahara, Kolkata

## Department of Computer Science Board of Studies Meeting

Date : 22. 05. 2018

Sl No.	Name	Signature
1	Swami Kamalasthananda, Principal; RKMVC College, Rahara	Sw. Kamalasthananda
2	Swami Vedavidyananda, Co-ordinator, Department of Computer Science; RKMVC College, Rahara	Swami Vedavidyananda
3	Swami Vedanuragananda, Controller of Exam; RKMVC College, Rahara	Swami Vedanuragananda
4	Dr. P. K. Rana, Advisor; Department of Computer Science, RKMVC College, Rahara	P.K. Rana 22/5/18
5	Dr. Anirban Mukhopadhyay, Associate Professor; Department of Computer Science & Engineering, University of Kalyani	Anirban Mukhopadhyay 22/05/18
6	Dr. Kaushik Roy, <del>Assistant</del> Professor; Department of Computer Science, West Bengal State University, Barasat	Kaushik Roy 22/5/18

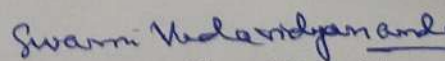
Kaushik.mrg@gmail.com

R.K.M.V.C COLLEGE, RAHARA, KOLKATA – 700018

The proceedings of the meeting of the Board of Studies in the Computer Science Department of R.K.M.V.C. College held at the Computer Science Department of the College on Tuesday, the 22<sup>nd</sup> May, 2018 at 4:00 pm.

The Principal, Ramakrishna Mission Vivekananda Centenary College, Rahara took the Chair.

1. The meeting has started with the Chairman welcoming all the members.
2. Members were happy that the College was going to start a Computer Science Department with the current academic year.
3. Syllabus for the Three Year B.Sc. Computer Science Honours:  
The board members resolved that the whole syllabus of B.Sc. Computer Science be introduced with Choice Based Credit System (CBCS) from session 2018-2019.  
It was further resolved that 100% modification of the B.Sc. Computer Science syllabus be adopted from the session 2018-2019.  
HoD of the department mentioned that Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are identified for all courses of B.Sc. Computer Science.  
It was resolved that the identified PSOs and COs of all courses be introduced from this session 2018-2019 and all POs, PSOs and COs be mapped properly in order to get desired attainment level.  
All the board members discussed the relevance to the local, national, regional and global needs present in all the courses in B.Sc. Computer Science.  
It was resolved that the local, national, regional and global needs of all courses be implemented for proper growth and development of the students.  
The board members discussed the direct implication of all courses in terms of employability/ entrepreneurship/ skill development for the students.  
It was resolved that relevant activities related to employability / entrepreneurship / skill development for the students be properly introduced from the session 2018-19.  
The board members also thoroughly discussed about integration of cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into all courses in B.Sc. Computer Science.  
It was resolved that the issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in all courses be meticulously followed from the session 2018-2019.  
The syllabus was placed before the Board members for suggestions and acceptance. Minor typographical errors that were pointed out were corrected.  
The Board members suggested incorporating one choice in the subjects offered to the students during V semester under Discipline Specific Elective (DSE). That was incorporated in the syllabus.  
It was brought to the notice of the members that Programming in Java was included in the second semester.
4. The subject of External Paper setters and Moderators was placed before the Board members. According to the suggestions made the following were appointed for the same. (Detailed sheet with the name of the College and Phone numbers was attached.)
  - a) Dr. Priyaranjan Sinha Mahapatra, (for CC-1) as Paper Setter
  - b) Dr. Anirban Mukhopadhyay (for CC-2) as Paper Setter
  - c) Dr. Krishnendu Basuli (Moderator)
  - d) Dr. Kaushik Roy (Moderator)
  - e) Shri Kartick Chandra Nanda (for Practical Exam)
  - f) Shri Surya Sarathi Das (for Practical Exam)
5. The meeting ended with a vote of thanks to the Chair.

  
(Swami Vedavidyananda)

Course Coordinator & Chairman of BOS