

Minutes of meeting of the Committee of Studies

An ordinary meeting of the **Committee of Studies** of the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, N. Delhi, was held at 3.00 pm on September 1, 2015 (Tuesday) in the committee room of CIRBSc. at S. Ramanujan Block.

Following members were present:

- 1 Prof. Zubaida Ansari (Director of the Centre and Chairperson of the Committee of Studies)
- 2 Prof. Sharif Ahmad, JMI. (Internal member and Honorary Adviser to the Centre)
- 3 Prof. Rajiv Bhat, JNU (External member)
- 4 Prof. Faizan Ahmad (Faculty member)
- 5 Prof. Shafeeque Ansari (Faculty member)
- 6 Prof. Sher Ali (Faculty member)
- 7 Dr. Syed Naqui Kazim (Faculty member)
- 8 Dr. Sonu Thakur (Faculty member)
- 9 Dr. Shama Parveen (Faculty member)
- 10 Dr. Asimul Islam (Faculty member)
- 11 Dr. Romana Ishrat (Faculty member)
- 12 Dr. Ravins (Faculty member)
- 13 Dr. Imtaiyaz Hassan (Faculty member)
- 14 Dr. Rajan Patel (Faculty member)

Following members could not attend the meeting due to their prior engagements.

1. Prof. Mohammad Asaduddin (Director, Academics, Jamia Millia Islamia)
2. Prof. M. Sami, JMI (Internal member)
3. Prof. Punit Kaur, AIIMS (External member)
4. Dr. Fareeda Athar (Faculty member)

The chairman welcomed the members of CoS meeting in general and Professor Sher Ali in particular who has recently joined the Centre as a faculty member and attended his 1st CoS meeting.

Following agenda items were discussed and resolved:

Agenda 1. Confirmation of minutes of the CoS meetings held on 21.4.15 (ordinary meeting), 7.5.2015 (emergent meeting) and 7.7.2015 (emergent meeting).

As there were no comments/suggestions received, the circulated minutes of the CoS meetings held on 21.4.15 (ordinary meeting), 7.5.2015 (emergent meeting) and 7.7.2015 (emergent meeting) were confirmed by the members of the committee.

Agenda 2. Approval of the synopsis submitted by the provisionally admitted seven PhD students of the batch 2014-15 and one student of the batch 2013-14, for confirmation of their PhD admissions.

The committee decided to take the request in the next meeting after the Departmental Research Committee (DRC) submit the recommendation, once the students present their research progress in front of DRC.

Agenda 6. Approval of modifications within the structure of M.Sc. Biophysics syllabus as per CBCS.

The reshuffling made in the M.Sc. courses to incorporate the CBCS courses were put up in the committee. The committee approved the same.

The committee suggested to remove the assigned course codes given to the CBCS courses offered by the other departments/centers which should be given to the respective department/Center to assign it. The suggested changes were incorporated and the committee approved the modified version of M.Sc Biophysics syllabus as per the Choice Based Credit System (CBCS).

With the addition of CBCS courses, total credit of program of M.Sc Biophysics has become 88 spanning over four semesters (**Annexure 2**).

Agenda 7. Approval of UG and PG level courses and syllabi proposed by the Centre to be offered under the CBCS.

The faculty members offered 10 courses for UG and 12 courses for PG under the CBCS. This was passed in departmental meeting in anticipation of CoS and sent to the administration office for the consideration. The matter was reported and the committee agreed and approved the syllabi proposed by the Centre to be offered under the CBCS (**Annexure 3.1 and 3.2**).

Agenda 8. Revision of syllabus of Chemistry for M.Phil entrance test.

The committee approved that the syllabus of Chemistry for M.Phil entrance test for the Centre should be revised by the concerned faculty members of the Centre. The same will be submitted to Prof. Imran Ali, Department of Chemistry, Jamia Millia Islamia for suggestions/moderations.

Agenda 9. Six monthly progress reports of the PhD students submitted till April 30, 2015.

The reports were before hand examined by the DRC of the Centre.

The CoS approved the six monthly progress reports of the PhD students submitted till April 30, 2015.

The members suggested that PhD students must make presentation of the research progress at least once in a year and asked the director to make the necessary arrangements for the same. The director assigned the task of making roaster of presentation to Professor S. G. Ansari and Dr. M. I. Hassan.

Agenda 10. Center's annual conference.

The committee approved to organize the annual conference of the Centre on the theme "**National Conference on Interdisciplinary Approach in Chemical Sciences**"

PG levels Courses

S. No.	Name of the course	Name of the faculty	Proposed semester of teaching	Number of credits
1	Protein Folding and Dynamics	Dr. Asimul Islam/Prof. Faizan Ahmad	III	4
2	Structural Biology	Dr. M I Hasan/Prof. Faizan Ahmad	II	4
3	Biology of Hepatitis B Virus	Dr. S N Kazim	III	4
4	Medicinal Chemistry	Dr. Farida Athar	III	4
5	Reproductive Toxicology	Dr. Sonu Thakur	III	4
6	Graph Theory and its Applications	Dr. Ravins	I	4
7.	Instrumentation II	Dr. S G Ansari/Z.A. Ansari	III or onward	4
8	Microscopic Techniques	Dr. Z. A Ansari	III or onward	4
9	Surface Chemistry	Dr. Rajan Patel	III	4
10	Respiratory and haemorrhagic fever Viruses	Dr. Shama	II	4
11	Data Analysis Techniques	Dr. Ravins	II	4
12	Machine learning Techniques	Dr. Romana Ishrat	III	4


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Choice Based Credit System (CBCS) Courses at UG level

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UG level courses

S. No.	Name of the course	Name of the faculty	Proposed semester of teaching	Number of credits
1	Fundamentals of Protein Chemistry	Dr. Asimul Islam/Prof. Faizan Ahmad	III	4
2	Fundamentals of Bioinformatics	Dr. M I Hasan	III	4
3	Basics of Virology	Dr. S N Kazim	IV	4
4	Introduction to Toxicology	Dr. Sonu Thakur	IV	4
5	Programming in Matlab	Dr. Ravins	III	4
6	Instrumentation I	Dr. S G Ansari/Dr.Z.A. Ansari	IV or onwards	4
7	Fundamentals of Spectroscopy	Dr. Fareeda Athar	IV	4
8	Chemistry for Biologist	Dr. Rajan Patel	I	4
9	Cell and Molecular Biology	Dr. Shama	II	4
10	Database systems and data mining	Dr. Romanalshrat	II	4

All courses are of 4 credits (UG levels), should remain spanned over 64 lectures in total (preferably comprising of 4 units)


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Course Structure for M. Sc. (Biophysics) program
for the batch of the academic year 2018-19.

S. No.	Title of Paper	Paper Code	Credit		
			L	T	P
Semester I (Total 28 Credits)					
1.	<u>Biochemistry</u>	<u>MBP101</u>	4	0	0
2.	<u>Programming and Bioinformatics</u>	<u>MBP102</u>	4	0	0
3.	<u>Cell and Molecular Biology</u>	<u>MBP103</u>	4	0	0
4.	<u>Structural Biology</u>	<u>MBP104</u>	4	0	0
5.	<u>Lab Course-I</u>	<u>MBP105</u>	0	0	4
6.	<u>Lab Course-II</u>	<u>MBP106</u>	0	0	4
7.	<u>Basics of Mathematics (CBCS)</u>	<u>MBP107</u>	4	0	0
Semester II (Total 24 Credits)					
1.	<u>Thermodynamics and Kinetics</u>	<u>MBP201</u>	4	0	0
2.	<u>Radiation Biophysics</u>	<u>MBP202</u>	4	0	0
3.	<u>Mathematical and Bio-Statistical Techniques</u>	<u>MBP203</u>	4	0	0
4.	<u>Lab Course III</u>	<u>MBP204</u>	0	0	4
5.	<u>Microbiology and Immunology (CBCS)</u>	<u>MBP205</u>	4	0	0
6.	<u>Numerical Methods and Programming (Skill Development)</u>	<u>PGSD201</u>	2	0	2
Semester III (Total 28 Credits)					
1.	<u>Membrane Biophysics</u>	<u>MBP301</u>	4	0	0
2.	<u>Quantum Physics and Chemistry</u>	<u>MBP302</u>	4	0	0
3.	<u>Biophysical Techniques</u>	<u>MBP303</u>	4	0	0
4.	<u>Genetics and Recombinant DNA Techniques</u>	<u>MBP304</u>	4	0	0
5.	<u>Lab Course IV</u>	<u>MBP305</u>	0	0	2
6.	<u>Enzymology (CBCS)</u>	<u>MBP306</u>	4	0	0
7.	<u>Measurement and Data Presentation (Ability Enhancement)</u>	<u>PGAE301</u>	4	0	0
Semester IV (Total 16 Credits)					
1.	<u>Project Work</u>	<u>MBP401</u>	0	0	12
2.	<u>Pharmacology and Toxicology (CBCS)</u>	<u>MBP402</u>	4	0	0
Total Credit			96		