

# **JAMIA HAMDARD**

(Accredited by NAAC 'A' Grade Deemed to be University)



## **AGENDA**

**FOR**

**157<sup>TH</sup> MEETING OF THE STANDING COMMITTEE**

**OF**

**ACADEMIC COUNCIL**

**Date: 27<sup>th</sup> July, 2021 (Tuesday)**

**Time: 3.00 P.M.**

**Venue: Board Room (1<sup>st</sup> Floor), Administrative Building,  
Jamia Hamdard, Hamdard Nagar, New Delhi-110062**

## Members on the 157<sup>th</sup> meeting of the Standing Committee of the Academic Council

- |     |  |   |                   |
|-----|--|---|-------------------|
| 1.  | Prof. M. Afshar Alam, Vice-Chancellor                                      | - | Chairman          |
| 2.  | Prof. Y.K. Gupta,<br>Former Professor & HoD, Pharmacology,<br>AIIMS, Delhi | - | Member            |
| 3.  | Prof. Shakir Ali, Dean, S.C.L.S.   | - | Member            |
| 4.  | Prof. S.M. Arif Zaidi, Dean, S.U.M.E.R.                                    | - | Member            |
| 5.  | Prof. S. Mehartaj Begum, Dean, S.H.S.S.                                    | - | Member            |
| 6.  | Prof. Farhan Jalees Ahmad, Dean, S.I.S.T.                                  | - | Member            |
| 7.  | Prof. Shibu John, Dean, S.M.B.S.   | - | Member            |
| 8.  | Prof. Vidhu Aeri, Dean, SPER   | - | Member            |
| 9.  | Prof. Manju Chhugani, Dean, S.N.S. & A.H.                                  | - | Member            |
| 10. | Mr. Mirza Vazir Hussain, CoE   | - | Permanent Invitee |
| 11. | Prof. Suhel Parvez,<br>Chairman, Central Admission Committee               | - | Permanent Invitee |
| 12. | Mr. S.S. Akhtar, Registrar   | - | Secretary         |

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## AGENDA ITEMS

FOR

157<sup>th</sup> MEETING OF THE STANDING COMMITTEE OF ACADEMIC COUNCIL

OF

JAMIA HAMDARD

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The Chairman informed the house that despite ongoing pandemic and lock down, it was felt to convene a meeting of Standing Committee to discuss few important and urgent academic issues including Jamia Hamdard Prospectus for 2021-2022 session, however, the meeting was organized following all the COVID 19 norms.

The Chairman further informed the house about a significant development in the form of setting up a fully operational 50 beds COVID Care Quarantine Centre for its employees and for Delhi Police and their dependents in the Majeedia Unani Hospital.

He, further, informed that the above COVID Care Centre is being managed by the Doctors from Batra Hospital and Ganga Ram Hospital. Mr. S.N. Srivastava, Commissioner of Delhi, Police and Mr. Hamid Ahmed, Hon'ble Chancellor, JH have played a pivotal role in setting up the facility. Most importantly, move of Jamia Hamdard was well appreciated by the Hon'ble Minister of Education, Gol, Dr. Ramesh Pokhriyal who shared this on the Ministry's official tweeter handle and the same was retweeted by the official Twitter handle of Govt. of India.

The entire house applauded the efforts taken by the authority of Jamia Hamdard and specially thanked Mr. Hamid Ahmed, Hon'ble Chancellor, JH, Mr. Sajid Ahmed, Treasurer, HNF and Dr. Rashmi Saluja, Member, BoM, JH for mobilizing support, infrastructure and joint collaborations with Delhi Police.

After getting permission of the chair, the Secretary started official proceeding of the meeting by taking agenda one by one:

**SC 157 (1): TO APPROVE THE MINUTES OF THE BOARD OF STUDIES, DEPARTMENT OF TOXICOLOGY, SCLS HELD ON 10/04/2021.**

Prof. Suhel Parvez briefed the house on the issues discussed in the BoS meeting. Prof. S. Raisuddin, Director, IQAC wanted to know the exit option in the B.Sc.- M.Sc. Integrated Program after graduation. Prof. Suhel Parvez informed the house that there is provision of 10% weightage for internal students for admission in all courses so the same is for M.Sc. programs as well offered in the School of Chemical and Life Sciences.

The house suggested that the details as mentioned above be included in the Prospectus 2021-2022. Prof. Suhel Parvez as Chairman, Central Admission Core Committee informed the house that it is mentioned in the prospectus under weightage for internal candidates.

"After deliberation, the SC resolved to approve the Minutes of the meeting of the Board of Studies, Department of Medical Elementology & Toxicology held on 10/04/2021."

**SC 156 (2): TO APPROVE THE MINUTES OF THE BOARD OF STUDIES, CENTRE FOR FEDERAL STUDIES, SHSS HELD ON 22/05/2021.**

The BoS discussed in details the recommendation of the BoS for introduction of paper MHR-403: "Identity, Issues and Challenges of Human Rights in India" as replacement of the MHR- 403: Dissertation/Project Work in the fourth semester of M. A. in Human Rights Programme.

Prof. S. Mehartaj Begum, Head, Centre for Federal Studies briefed the house that due to COVID 19 pandemic, the students are facing inconveniences w.r.t. plagiarism check for their dissertation / project work so it may be replaced with a paper in the fourth semester of M.A. in Human Rights.

The house was not in favour of dropping / replacing dissertation / project work as it cannot be equated with any paper mode examination. Prof. Y.K. Gupta, external expert told that dropping the dissertation / project work would be disastrous; hence, we may allow option for 2-3 plagiarism software to ease if any problem of the students.

The SC resolved not to approve the above proposal in the Minutes of the Board of Studies, Centre for Federal Studies held on 22/05/2021 and resolved to continue with the project work / dissertation assignments as usual.

SC 156 (3): TO CONSIDER AND APPROVE THE PROPOSAL FOR INTRODUCTION OF PAPER MHR-403: "IDENTITY, ISSUES AND CHALLENGES OF HUMAN RIGHTS IN INDIA" AS REPLACEMENT OF MHR-403: DISSERTATION/PROJECT WORK IN THE FOURTH SEMESTER OF M.A. IN HUMAN RIGHTS PROGRAMME AS RECOMMENDED BY THE BOARD OF STUDIES IN ITS MEETING HELD ON 22.05.2021.

Same resolution as adopted under item No. SC 156 (2) above.

SC 156 (4): TO APPROVE THE MINUTES OF THE BOARD OF STUDIES, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING UNDER SEST HELD ON 24/05/2021.

HoD, CSE briefed the house about the recommendations of the Board of Studies, Department of Computer Science and Engineering. During the discussion, the house observed that the mercy chance granted to Mr. Manish Kumar, BCA student, enrolment number 2015-301-029 to appear for his backlog paper BCA 201 so as to complete his course was due to personal problem faced by the students during COVID 19 pandemic. Thus permission can be given to him as a very special case and it cannot be cited as precedence in future.

SC 156 (8): TO CONSIDER THE PROPOSAL OF DIRECTOR, JHKC, KANNUR, KERALA REGARDING CONDUCT OF BOTH ODD AND EVEN SEMESTERS SUPPLEMENTARY EXAMINATIONS AFTER CONDUCTING THE ENSUING EVEN SEMESTER REGULAR EXAMINATIONS SCHEDULED TENTATIVELY FROM THE 3<sup>RD</sup> WEEK OF JUNE, 2021.

Director, JHKC, Kerala who attended the meeting online briefed the house on the proposed changes temporarily due to COVID pandemic situation for ODD & EVEN examinations and detention policy.

The SC deliberated the proposal and resolved as under:

- a) Approved for conducting examinations and holding classes subject to fulfillment of norms, guidelines of state govt.
- b) Supplementary Examinations for both ODD and EVEN examinations allowed.
- c) Removal of detention not allowed.
- d) All guidelines, directives of the UGC should be followed in respect of online / offline / hybrid mode of examinations.

SC 156 (9): TO CONSIDER THE LETTER ISSUED BY THE UGC REGARDING 83 UG AND 40 PG NON-ENGINEERING SWAYAM MOOC TO BE OFFERED IN THE JULY 2021 SEMESTER.

The House was of the view that SWAYAM is two way benefit system and good initiative of the UGC, JH may explore to grab the opportunity, in favour, where we have core competence. However, it was felt that there are some confusion and problem for students and faculty as well to offer courses and credit transfer on this platform.

The Chairman responded that the Curriculum Development Cell (CDC) will be involved for formulating students / teachers friendly procedure / process.

"The SC, while, approving the above proposal of the UGC in principle, authorized the Vice-Chancellor to constitute a Committee to look into this matter and feasibility to run SWAYAM MOOC courses from July-October 2021 semester".

SC 156 (10): TO CONFIRM THE ACTION TAKEN BY THE VICE CHANCELLOR TO APPROVE THE MINUTES (DATED 17.3.2021) OF THE COMMITTEE CONSTITUTED TO CONSIDER VARIOUS ISUUES RELATED TO ADMISSION OF CANDIDATES FROM MADRASAS AND OTHER RELATED MATTERS AND THE NOTE DATED 6.3.2021 REGARDING



HNF has also contributed in Students Aid Fund to support students on means basis, but this is not sufficient as demand for fee concession are increasing day by day.

The Chairman suggested for setting up a fund to help students and gave a call for voluntary deduction of one day salary by all faculty and Group 'A' Officers (A.R. and above).

The house appreciated the suggestion of the Chairman and approved that all teaching and Group 'A' non teaching staff of JH may contribute their one day salary to create a fund "Vice-Chancellor's Fund for Benevolence of Deserving Students" specifically to support the students of COVID 19 sufferers. Deans and HoDs were requested to evolve a mechanism to find the needy students and recommend the same to the DSW for further action. A circular to this effect may be issued from administration. If the non teaching employees under category B, C & D wish to be a part in the fund raising efforts of the University, they may write to the Finance Officer for their consent to cut one day salary as their contribution. Moreover, if some staff members are willing to contribute more than one day salary, they may also do so.

- B. The Chairman also informed the house that in order to analyze the progress made in online teaching (theory classes), a format has been developed and very soon it will be sent to all the concerned teachers, HoDs and Deans through the Secretary of VC for a brief report indicating activities of teachers and teaching during the last three months.

The meeting ended with a vote of thanks.

Chairman  
Standing Committee of AC



Secretary  
Standing Committee of AC



SC 157 (2): TO APPROVE THE MINUTES OF THE BOARD OF STUDIES, DEPARTMENT OF BOTANY, SCLS HELD ON 05/07/2021.

A meeting of the Board of Studies, Department of Botany, SCLS was held on 5/07/2021, wherein, the BoS discussed and resolved the following matters:

- Change of Nomenclature of B.Sc.-M.Sc. Programme.
- Appointment of Paper setters and examiners.

The Minutes of the Board of Studies, Department of Boany held on 5/07/2021 is placed before the Standing Committee for approval.

Secretary  
Standing Committee of AC

**Department of Botany  
School of Chemical & Life Sciences  
JAMIA HAMDARD, NEW DELHI**

JH/SCLS/Bot./BOS/2/2021

06.07.2021

**MINUTES OF THE MEETING OF BOARD OF STUDIES IN BOTANY HELD ON  
JULY 05, 2021**

A meeting of the Board of Studies (Botany) was held on July 05, 2021 (ONLINE) at 3:30 p.m. The following members were present for the meeting virtually.

- |    |                           |                   |
|----|---------------------------|-------------------|
| 1. | Dr. Manoj Prasad          | (Co-opted Member) |
| 2. | Dr. A. Mujib              | (Chairman)        |
| 3. | Dr. Md Salik Noorani Khan | (Member)          |
| 4. | Dr. Mohd. Ashraf Ashfaq   | (Member)          |
| 5. | Dr. Md Iqbal Raja Khan    | (Special Invitee) |

Prof. Indranil Dasgupta could not attend the meeting. Dr. Ravi Gupta was also absent.

**CONFIRMATION OF MINUTES**

Minutes of the previous BoS meeting (held on February 15, 2021) were confirmed with the consent of the House.

**CHANGE OF NOMENCLATURE OF B.Sc.-M.Sc. PROGRAMME**

The matter has been discussed and reported to BoS. The change of nomenclature of B.Sc.-M.Sc. Integrated Programme – Botany to B.Sc.-M.Sc. Dual Degree Programme – Botany, with an option of exit after Semester 6<sup>th</sup> and then promotion in M.Sc. I Semester programme will be made. This will be implemented from the academic session (2020-21).

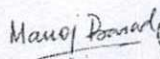
**APPOINTMENT OF PAPER SETTERS AND EXAMINERS**


The names of paper-setters and examiners of M.Sc. Botany 2<sup>nd</sup> Semester and B.Sc.-M.Sc. Integrated Programme-Botany 2<sup>nd</sup> Semester (2020-21) have been discussed and these would be sent confidentially to the Dean's Office, School of Chemical and Life Sciences for further action.


**ANY OTHER ITEM**

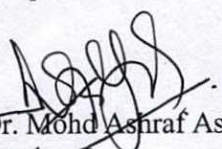
It has been decided that the syllabus of M.Sc. Botany and B.Sc.-M.Sc. Integrated Programme need major revision. Therefore, the members are requested to revise the syllabus and the revised version will be placed in the next meeting of BoS, likely to be held shortly.

The meeting ended with a vote of thanks.

  
(Dr. Manoj Prasad)  
Co-opted Member

  
(Dr. A. Mujib)  
Chairman

  
(Dr. Md Salik Noorani Khan)  
Member

  
(Dr. Mohd Ashraf Ashfaq)  
Member

  
(Dr. Md Iqbal Raja Khan)  
Special Invitee

Thanks,

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In addition, there was a circular from the Registrar Office seeking the names of persons who may be engaged as Guest faculty etc, if required. Pl see the original circular and submit your requirement.

Shakir Ali

--

Prof. Shakir Ali

Dean, School of Chemical and Life Sciences (SCLS)

Jamia Hamdard Deemed-to-be-University, Hamdard Nagar, Delhi 110062

<https://www.education.gov.in/en/university-and-higher-education>

[https://ugc.ac.in/pdfnews/1250439\\_12-B-status-DU-updated-as-on-18-9-20.pdf](https://ugc.ac.in/pdfnews/1250439_12-B-status-DU-updated-as-on-18-9-20.pdf)

Tel. (+91) 11-2605-9688 / 5503, 5500 (Office)

Telefax. (+91) 11-2605-9662

[Quoted text hidden]

Manoj Prasad <manoj\_prasad@nipgr.ac.in>

Mon, Jul 19, 2021 at 3:40 PM

To: "S. Umer ." <sumer@jamiyahamdard.ac.in>

Cc: "A. Mujib" <amujib@jamiyahamdard.ac.in>, Dr Md Salik Noorani Khan <saliknoorani@jamiyahamdard.ac.in>, "Dr. Mohd Ashraf Ashfaq" <ashraf@jamiyahamdard.ac.in>, Md Iqbal Raja Khan <iqbal.khan@jamiyahamdard.ac.in>, "Dean, Sch of Chemical & Life Sciences SCLS" <dean.scls@jamiyahamdard.ac.in>

Dear Prof. Umer,

Thanks for your mail. Yes, I remember, we all agreed to discontinue the Foundation Course (MFC-001) from the academic session (2021-22). It was unintentionally missed out from the minutes. Therefore, pl. do the needful in this regard.

Thank you.

Regards

Manoj Prasad

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**MANOJ PRASAD, PhD, FNA**

Senior Scientist & J.C. Bose National Fellow

National Institute of Plant Genome Research

Aruna Asaf Ali Marg; New Delhi-110067; India

E-mail: manoj\_prasad@nipgr.ac.in, prasadmanoj1970@gmail.com

Tel:91-11-26735160 (O), 91-11-26735147 (R); Fax:91-11-26741658

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**Adjunct Professor**

Department of Plant Sciences; School of Life Sciences

University of Hyderabad, Hyderabad 500046, India

Homepage | Google Scholar | ResearchGate | ORCID | Scopus | Wikipedia

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On Mon, Jul 19, 2021 at 1:50 PM S. Umer . <sumer@jamiyahamdard.ac.in> wrote:

[Quoted text hidden]

**SC 157 (3): TO APPROVE THE MINUTES OF THE BOARD OF STUDIES, DEPARTMENT OF MOLECULAR MEDICINE, SIST HELD ON 23/07/2021.**

A meeting of the Board of Studies, Department of Molecular Medicine, S.I.S.T. was held on 23/07/2021, wherein, the BoS discussed and resolved the following:

- I. Approval of amendments in the syllabus of M.Sc. in Biomedical Sciences.
- II. Introduction of New Masters course as M.Sc. in Medical Virology. Initially, the number of students may be 20 instead of 30.
- III. Amendments in the Bye Laws for the courses offered in the Department of Molecular Medicine.
- IV. Inducting three Adjunct Faculties (Senior and distinguished) in the Department of Molecular Medicine.
- V. Discontinuation of two PhD Scholars.

The Minutes of the Board of Studies, Department of Molecular Medicine held on 23/07/2021 along with annexure are placed before the Standing Committee for approval.

Secretary  
Standing Committee of AC

**Third Meeting of Board of Studies  
Department of Molecular Medicine, SISS**

23rd July 2021

**Minutes of the Meeting**

Third BoS meeting of DMM was held on 23rd July 2021 at 4.30 pm in online mode through Google meet platform and was attended by the following

- |   |                      |                 |
|---|----------------------|-----------------|
| 1. Dr. A. Selvapandiyan,  | HOD, DMM             | Chairman        |
| 2. Prof. SK Sharma,   | Professor            | Member          |
| 3. Prof. Farhan J Ahmad   | Professor            | Member          |
| 4. Dr. Surajit Ganguly  | Associate Professors | Member          |
| 5. Dr. Sudeshna Kar   | Assistant Professors | Member          |
| 6. Dr. Anuja Krishnan   | Assistant Professors | Member          |
| 7. Prof. Moshahid Alam Rizvi, Department of Biosciences,<br>Jamia Millia Islamia, New Delhi,  |                      | External Expert |
| 8. Prof Sanjay Kapoor, Department of Plant Molecular Biology,<br>Faculty of Interdisciplinary and Applied Sciences,<br>University of Delhi. |                      | External Expert |

AGENDA:

- a. Approval of amendments in the syllabus of MSc in Biomedical Sciences
- b. Introduction of new masters course as MSc in Virology
- c. Amendments in the Bye-Laws for the courses of DMM
- d. Approval of induct 3 Adjunct Faculties (senior and distinguished) in the department
- e. Approval of discontinuation of two PhD scholars.

**1. Approval of amendments in the syllabus of MSc in Biomedical Sciences**

Dr. Selva proposed the additions/changes in the syllabus of MSc Biomedical Sciences. The suggestions were 1. Originally in the foundation course a unit with introductory Medicinal Chemistry has been replaced with more relevant unit with infectious diseases and with more emphasis on the viral diseases keeping in mind of the ongoing pandemic (under the title "Introduction on Infections, Epidemics, Pandemics and Viruses). This is also due to a separate detailed unit on Medicinal Chemistry is any way observed in a paper in semester 3 in the syllabus. 2. This foundation course will also become common to the other new course to be introduced as MSc in Virology. 3. The dissertation choices are now clearly named as BMS401A-E instead earlier as BMS401-405. 4. Now, we also have introduced another choice-based paper with 4 credit and 100 marks in semester 4 replacing with training in manuscript writing (as earlier; now the Manuscript writing has been merged under a paper in semester. Here students will register under [www.mooc.org](http://www.mooc.org), go over a course and submit the credit/marks to the exam co-ordinator of the course.

The members appreciated and agreed to the amendments made in the syllabus.

Anuja Krishnan

Sudeshna Kar

AA Rizvi

Sudeshna Kar

Prof. Farhan J. Ahmad

Prof. Farhan J. Ahmad

Surajit Ganguly

Dr. A. Selvapandiyan

Anuja Krishnan

Dr. Anuja Krishnan,  
DMM, Member

Sudeshna Kar

Dr. Sudeshna Kar,  
DMM, Member

Surajit Ganguly

Dr. Surajit Ganguly,  
DMM, Member

SK Sharma

Prof. SK Sharma  
Professor, DMM,  
Member

Farhan Jalees Ahmad

Prof. Farhan J Ahmad,  
Professor, SIST, Member

A. Selvapandiyan

Dr. A. Selvapandiyan  
HOD, DMM  
Chairman

Sanjay Kapoor

Prof. Sanjay Kapoor  
Department of Plant  
Molecular Biology,  
University of Delhi.  
External Expert

Moshahid Alam Rizvi

Prof. Moshahid Alam Rizvi,  
Department of Biosciences,  
Jamia Millia Islamia,  
New Delhi,  
External Expert

# Master of Science (M.Sc.) Biomedical Sciences

**(Four Semester Course)**  
**Two Year Full Time Program & Examination**

**SYLLABUS**  
**For the Semester Course Credit System**  
**(CHOICE BASED CREDIT SYSTEM)**

**Department of Molecular Medicine**  
**School of Interdisciplinary Sciences and Technology**

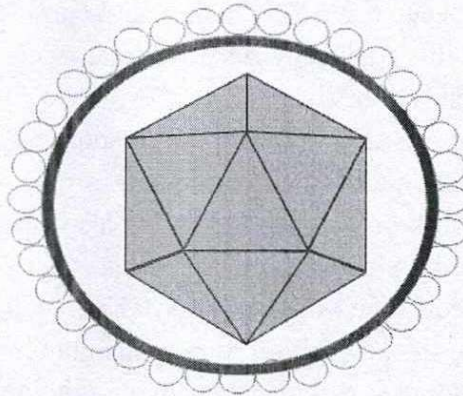


**COURSE CONTENT of M.Sc. Biomedical Sciences**

<u>Course Code</u>	<u>Course Name</u>	<u>Credits</u>	<u>Marks</u>
<b>Semester -I</b>			
MFC 001a	Foundation Course 1 (Units 1 & 2)	4	100
MFC 001b	Foundation Course 1 (Units 3 & 4)	4	100
BMS 101	Biology of The Cell	4	100
BMS 102	Human Health and Pathology	4	100
BMS 103	Skill building: Laboratory Practicals-1	8	200
		<b>24</b>	<b>600</b>
<b>Semester -II</b>			
BMS 201	Fundamentals in Microbial pathogenesis	4	100
BMS 202	Methods in Cell and Molecular Biology	4	100
BMS 203	Principles of Immunology	4	100
BMS 204	Student Seminars	4	100
BMS 205	Skill building: Laboratory Practicals-2	8	200
		<b>24</b>	<b>600</b>
<b>Semester -III</b>			
BMS 301	Principles of Human Disease	4	100
BMS 302	Diagnostics and Therapeutic concepts	4	100
BMS 303	Communication and analytical skills	4	100
BMS 304	Biomedical Research and Development	4	100
BMS 305	Skill development: Essentials for Independent Researchers	8	200
		<b>24</b>	<b>600</b>
<b>Semester – IV</b>			

# **MSc Virology**

**(Syllabus with Choice Based Credit System)**



**Submitted By**

Department of Molecular Medicine (SIST)

**JAMIA HAMDARD**

**Hamdard Nagar, New Delhi-110062**

## I. **Objectives of introducing the new course:**

The history of virus origin pandemic is very vast, in recent times, the SARS-CoV-2 have created a huge havoc globally by causing an outbreak of novel coronavirus disease (COVID-19). It is a Public Health Emergency of International Concern and the virus has now spread to many countries and territories. To control any disease, first we should understand the biology of the pathogen and its interaction with the host. Apart from host pathogen interaction their transmission from one person to another (human to human), animal to human and mode of transmission should also be known. The viral epidemic or pandemic keep has a long history and currently we are going through one of them. In future also there is possibility of novel virus or variants of current viruses that may cause a endemic of pandemic as we have seen Nipah, zika, MERS, SARS-CoV in current time and swine flu in earlier time. To combat these endemics and to have rapid response against emergency situation we need a well-trained experts and laboratory with sufficient infrastructure in the field of virology. The virologists not only could work in the laboratories but also help policymakers in strategy planning to fight these dreadful pathogens. Since, our country lacks such courses to handle viral diseases which encourage us to start a new course in MSc Virology. The objective of the Virology Program at JAMIA HAMDARD, is to facilitate the acquisition of new insights into virus biology and cellular function through the study of viruses and to discover new methodologies to impede viral infection or treat its associated diseases.

The objective of the MSc Virology program includes:

- To understand the basic biology and innovative research on various stages of virus life cycles, including structure and properties of viruses, virus entry into the cells, virion assembly, viral genome replication; recombination; transcription; and translation to identify targets for therapy.
- To understand the interactions of viruses with their host cells to achieve new insights into the disease pathogenesis, viral-induced carcinogenesis and the mechanism how viruses evade host immune response.
- To facilitate the discovery of novel antiviral drugs
- To facilitate the vaccine development strategy
- To provide outstanding training in the field of Virology.
- To nurture communication and collaboration among all scientists with interests in Virology, including basic virologists, molecular biologist, computational biologists, epidemiologists, and clinicians.

As viruses are critically dependent on the host cells and have co-evolved with them, studies of viruses have historically provided numerous insights into basic cellular biology. Viruses are also used as

important vectors for gene therapy and vaccination. Better understanding of viruses has also revolutionized the treatment and prevention of disease, but the emergence of diseases such as AIDS, avian influenza, Zika fever, dengue fever, viral hepatitis, MERS, SARS-CoV and SARS-CoV-2 etc. demonstrate that viral diseases remain an ongoing huge problem with staggering public health complications. In addition, viral-associated cancers are a leading cause of death, chronic viral diseases cause significant morbidity, and bioterrorism based on pathogenic viruses is a serious concern. Thus, the study of viruses will continue to provide important biological comprehensions and suggest new strategies for coping with serious human diseases.

Though the expertise in virology and well equipped laboratory with BSL-III or BSL-IV biosafety level in India is still lacking to tackle any outbreak of contagious or blood borne and mosquito-borne viral diseases. Previously, we had heard several pandemic/epidemic specially a very recent epidemic of Nipah virus in Kerala which killed around 34 people in 2016 and currently, whole world is facing the threat of COVID-19 pandemic which already killed 1,17,956 people in India and more than 11,44,117 people globally as on Oct 24, 2020. Even if we control these viral diseases now, it will come back again in the community once people get in contact of viruses again which might be surviving in some other animal host. Therefore, to meet the demand for the skilled molecular virologist, we plan to introduce a new two-year MSc Virology course at JAMIA HAMDARD. This course will be primarily taught by the faculty members of JAMIA HAMDARD, who have the expertise in the range of subjects (basic microbiology, virology, molecular biology, Immunology, recombinant DNA technology, parasitology, computational biology, data analysis and statistics), however, we do require 4-5 more faculty members to achieve our goal. Additionally, we do require a well-equipped laboratory facility to train MSc students and also offices space for new faculty members and staff to cater this course at JAMIA HAMDARD. We plan to maintain maximum annual intake capacity of 20 postgraduates so as to maintain an appropriate teacher-student ratio. We believe that this would provide quality hand holding so that our students are well placed in several areas such as doctoral & postdoctoral research, diagnostic labs, pharma industries and R&D labs in India and Abroad.

### **I.1. Learning Objectives:**

Virology is the scientific discipline concerned with the study of the microbiological or pathological science which involves the study of viruses and viral associated diseases, including the distribution, biochemistry, virulence, pathophysiology, molecular biology, ecology, evolution, genetics and clinical aspects of viruses. Virology explains the interaction with host organism physiology and immunity.

Successful completion of the research based MSc Virology Course will ensure that students acquire:

- a. The basics and principle of applications of various microbiology, molecular biology, Immunology, vaccinology and specifically virology techniques.
- b. Adequate knowledge about recent advances and technological developments in the field of Virology

- c. Practical knowledge of various advanced tools used in healthcare, industry and academic research
- d. Expertise to perform teaching, diagnostic test with an ability to troubleshoot

### **I.2. Techniques the students supposed to learn in MSc Virology:**

M.Sc Virology program aims to build in students competent counselling acumen through advanced study of subjects such as:

1. Cell Culture Techniques
2. Virus Antigen Detection
3. Gene Regulation
4. Recombinant DNA technology
5. Virus-cell interaction
6. Virus replication
7. Viral vector
8. Genomics/proteomics
9. Polymerase chain reaction (PCR)
10. Enzyme-linked immunosorbent assay (ELISA)
11. Chromosomal techniques
12. DNA and RNA sequencing
13. In situ hybridisation
14. Western blot analysis
15. Immunohistochemistry
16. Protein mass spectroscopy
17. Imaging based diagnosis
18. Biochemical testing
19. Histopathology
20. Flow cytometry
21. Immunoinformatic
22. Vaccine design strategies

### **I.3. Eligibility:**

#### **M.Sc. Virology:**

**Eligibility-** Candidates should have a Bachelor's degree in science or related specializations like microbiology, life science/bioscience, biotechnology, biochemistry, chemistry or BVSc or BSc Medical Laboratory Technology or B. Tech in Biotechnology, MBBS or any other related subject from a recognized university/institute with at least 60% marks or equivalent grades.

**Admission Process:** Entrance examination-based admission.

#### **I.4. Justification for starting MSc course:**

It is very important to study Virology as in the last decades, we have seen new viruses such as SARS, H1N1 influenza, and Nipah viruses. The emerging viruses, Ebola, Chikungunya, and West Nile viruses have re-emerged in the whole world; and the AIDS epidemic continues to sweep across sub-Saharan Africa and parts of Asia. New vaccines for HIV, smallpox, avian influenza and genital herpes are very much required. New antivirals for Dengue, hepatitis C and HIV viruses are also desperately needed. The role of such viruses as Merkel cell polyoma, papilloma, Kaposi's sarcoma and Epstein-Barr virus in human cancer highlight challenges to prevent and treat these diseases. The current outbreak of novel coronavirus disease (COVID-19) has been declared a pandemic by WHO and the virus has now spread in more than 214 countries. There are more than 4 lakhs deaths among 312 Lakhs COVID-19 patients in India alone as of July 2021. While COVID-19 continues to spread all over the world including India so, it is important to focus on Virology field to keep in mind about future outbreak in our country and globally

First of all, this course is made to train students in basic research defining new molecular structures of viruses and virus-encoded enzymes, new mechanisms within cells for molecular and organelle trafficking and function, and new mechanisms that control cell growth. Our students will be trained in such a way that they will be best researchers among the world leading institution in the designing and testing of antiviral drugs against several viruses. The relatively small size of the Virology master program and faculty makes this program ideally suited for students interested in collegial student-student and student-faculty interactions.

The proposed master course at JAMIA HAMDARD will be designed and taught by researchers who have been trained in various tools and techniques from world-class universities and institutes. The course structure has been designed to provide the students with hands on training in the latest technologies, while inculcating strong theoretical knowledge of the subject matter. The course would therefore render our students with an edge over those elsewhere and will help them to earn positions in various sectors, like university/institute, industry, hospitals, Pharmaceuticals R&D and scientific organizations. Additionally, the course, as improvised, tends to make a profound impact in general on the healthcare system, disease management, academia and research.

#### **I.5. Purpose:**

The purpose of the proposed research-based MSc Virology is to develop reasoning, skills and advanced knowledge in students in the field of virology using advanced techniques. This MSc course is intended to provide the following:

**V. COURSE CONTENT & List of Literature to read****(Subject to improve/revise as per need in future)**

<u>Course Code</u>	<u>Course Name</u>	<u>Credits</u>	<u>Marks</u>
MFC 001a	Foundation Course 1 (Units 1 & 2)	4	100
MFC 001b	Foundation Course 1 (Units 3 & 4)	4	100
MMV 101	Biology of The Cell (Units 1,2,3 &4)	4	100
MMV 102	Human Health and Pathology (Unit 1,2 3,4)	4	100
MMV 103	<del>Skill building:</del> Laboratory Practicals-1	8	200
		<b>24</b>	<b>600</b>
<b>Semester -II</b>			
MMV 201	Fundamentals in Microbiology and Vector biology (Unit 1,2,3,4)	4	100
MMV 202	Methods in Virology ((Unit 1,2,3,4)	4	100
MMV 203	Biomedical Research and Development (Unit 1,2,3,4)	4	100
MMV 204	Student Seminars	4	100
MMV 205	<del>Skill building:</del> Laboratory Practicals-2	8	200
		<b>24</b>	<b>600</b>
<b>Semester -III</b>			
MMV 301	Viral Diseases in Humans (Units 1,2.3,4)	4	100

MMV 302	Diagnostics and Therapeutic concepts	4	100
MMV 303	Viral Immunology	4	100
MMV 304	Communication, analytical skills & Manuscript writi	4	100
MMV 305	<del>Skill development</del> : Essentials for Independent Researchers	8	200

<b>24</b>	<b>600</b>
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**Semester – IV**

MMV 401A-D	*Dissertation* & Introduction to Research Project (One Choice from MMV 401A-F))	24	600
MMV 402	One MOOC's Course at <a href="https://www.mooc.org">https://www.mooc.org</a>	4	100

1.

28	700
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**Total**

<b>100</b>	<b>2500</b>
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- **401F:** Anti-viral assays of drug-Cytotoxicity, effective dose and determination point of action of stage of virus life cycle
- **401G:** Virus entry – Host proteins involved, fusion mechanism by fluorescence de-quenching and content mixing

**Core Course: Code BMS 406 - Max Marks 100; Credits – 4 (CHOICE BASED)**

**One MOOC's course from <https://www.mooc.org>**

Master of Science (M.Sc.) Biomedical  
Sciences

&

Master of Science (M.Sc.) Virology

(Four Semester Course)

Two Year Full Time Program & Examination

Bye Laws

For the Semester Course Credit System

(CHOICE BASED CREDIT SYSTEM)

**RUFAIDA COLLEGE OF NURSING  
SCHOOL OF NURSING SCIENCES AND ALLIED HEALTH  
JAMIA HAMDARD (Deemed to be University)  
NEW DELHI**

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES, RUFAIDA COLLEGE  
OF NURSING HELD ON 17<sup>TH</sup> JUNE 2021 AT 3 P.M**

**MEMBERS PRESENT**

1. Ms. Veena Sharma -Chairperson  
Principal, Rufaida College of Nursing,  
Jamia Hamdard, New Delhi
2. Prof. (Dr.) Mini George -Co-Opted member  
Principal, College of Nursing  
ILBS, Vasant Kunj, New Delhi
3. Prof.(Dr.) Nirmala Singh - Co-Opted Member  
Principal, College of Nursing  
RML Hospital, New Delhi
4. Prof.(Dr.) Manju Chhugani -Member  
Dean, School of Nursing Sciences  
& Allied Health  
Jamia Hamdard, New Delhi
5. Ms. Seema Rani -Member  
Associate Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi
6. Ms. Bindu Shaiju -Member  
Associate Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi
7. Mr. Eke Lama Tamang -Member  
Assistant Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi
8. Ms. Jamal Fatima Hashmi -Member  
Assistant Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi

*Handwritten signature and date: 17/6/2021*

At the outset, the chairperson welcomed all the members of BOS.

**AGENDA FOR MEETING: -**

Agenda of the meeting was as follows:

1. Credit system to be converted to regular system and modification of credits and codes of examination.
2. Relocation of few subjects in M.Sc. Nursing program byelaws.
3. Discussion on the promotion criteria in nursing programs.

**Business arising from the previous meeting:**

The minutes of the previous BOS meeting held on 25<sup>th</sup> January 2021 were proposed as circulated and passed by Prof.(Dr.) Mini George and seconded by Ms. Jamal Fatima with an observation by Prof.(Dr.) Manju Chhugani that she was present in her office for the BOS meeting so it was offline for her.

**1. AGENDA ITEM 1: Credit system to be converted to regular system and modification of credits and codes of examination.**

In light of the Indian Nursing Council circular Number FNo. 22-10/Univ.-2019-INC dated 18<sup>th</sup> April, 2019, to implement the circular of Indian Nursing Council, Examination Department of Jamia Hamdard was facing some software issues and to resolve those software issues (Vide meeting held at Controller of Examination Office with Controller of Examination, Dean, SNSAH, Principal Rifaida College of Nursing, Assistant Registrar Exam and System Analyst on 14<sup>th</sup> June, 2021) they had suggested to convert the credit system into regular system.

The same was proposed in BOS meeting and all members unanimously approved it. Minor changes in paper codes were also approved by the members of BOS. As a result of this the credits will be removed from the mark sheet and these changes will be implemented from 2020-2021 admitted batch onwards.

**2. AGENDA ITEM 2: Relocation of few subjects in M.Sc. Nursing programme byelaws.**

To implement the above mentioned Indian Nursing Council Circular in M. Sc. Nursing First Year Syllabus, shifting of 50 hrs. of Nursing Education Theory from 1<sup>st</sup> Semester to 2<sup>nd</sup> Semester and 40 hrs. of clinical specialty practical from 2<sup>nd</sup> Semester to 1<sup>st</sup> Semester was proposed. Additionally, Nursing Education Theory exam was proposed in 2<sup>nd</sup> Semester also.

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and 23/6

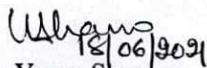
This was approved with the suggestion that division of Nursing education theory hrs. may be done logically in both the semesters. This relocation of Nursing education and clinical specialty practical hrs. and additional Nursing education theory exam in second semester also, will be implemented from 2021-2022 admitted batch onwards.

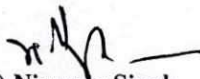
It was suggested by Dr. Manju Chhugani that M.Sc. Nursing program may be converted to annual mode. Two external members of BOS supported the idea whereas 5 internal members of BOS including chairperson were of the opinion that semester system should continue as mandated by UGC and also expressed that in draft of revised B.Sc. Nursing syllabus (Indian Nursing Council) has also proposed semester system. Semester system was also supported with the argument that it is internationally followed system as well as beneficial for students.

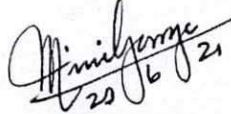
**AGENDA ITEM 3: Discussion on the promotion criteria in nursing programs.**

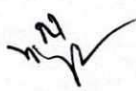
As per the Jamia Hamdard University Examination circular dated 6<sup>th</sup> November, 2018 regarding the promotion criteria of students, minimum 40% of the papers are to be cleared in a semester/year examination for promotion to next semester/year. Discussion was held whether we will follow university promotion criteria or as per existing promotion criteria in bye-laws of all programmes of Nursing of Rufaida College of Nursing. It was unanimously decided that we will continue to follow the already existing promotion criteria in the bylaws of all nursing courses, as they are in line with the Indian Nursing Council rules.

The meeting was adjourned with thanks to all members.

  
 Ms. Veena Sharma  
 Chairperson, BOS  
 Principal, Rufaida College of Nursing,  
 Jamia Hamdard, New Delhi

  
 Prof. (Dr.) Nirmala Singh  
 Co-Opted Member, BOS  
 Principal, College of Nursing  
 RML Hospital, New Delhi

  
 Prof. (Dr.) Mini George  
 Co-Opted member, BOS  
 Principal, College of Nursing  
 ILBS, Vasant Kunj, New Delhi

  
 Prof. (Dr.) Manju Chhugani  
 Member, BOS  
 Dean, School of Nursing Sciences  
 & Allied Health  
 Jamia Hamdard, New Delhi

  
 20/11/21

  
 23/11/21

*Seema Rani*  
21/06/2021

**Ms. Seema Rani**  
**Member, BOS**  
Associate Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi

*Bindu Shaiju*  
21/6/2021

**Ms. Bindu Shaiju**  
**Member, BOS**  
Associate Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi

*Eke Lama Tamang*  
21.6.2021

**Mr. Eke Lama Tamang**  
**Member, BOS**  
Assistant Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi

*Jamal Fatima*  
18/6/2021

**Ms. Jamal Fatima**  
**Member, BOS**  
Assistant Professor  
Rufaida College of Nursing,  
Jamia Hamdard, New Delhi

*M. Milgunde*  
23/6/21

*S.N.R*

## Post Basic B.Sc Nursing

**Scheme of Examination** : To be implemented from 2021-2022 admitted batch onwards  
 Theory for lecture/tutorial, 1 credit= 15 hours and for practical, 1 credit=30 hours

S.No.	Paper Code	Subject	Int. Ass.	Ext. Ass.	Total Marks
<b>I<sup>st</sup> Year</b>					
	BSN PB-101	Nursing Foundation	15	35	50
	BSN PB-102	Nutrition & Dietetics	15	35	50
	BSN PB-103	Biochemistry & Biophysics	25	75	100
	BSN PB-104	Psychology	25	75	100
	BSN PB-105	Microbiology	25	75	100
	BSN PB-106	Maternal Nursing (Theory)	25	75	100
		Maternal Nursing (Practical)	50	50	100
	BSN PB-107	Child Health Nursing (Theory)	25	75	100
		Child Health Nursing (Practical)	50	50	100
	BSN PB-108	Medical & Surgical Nursing (Theory)	25	75	100
		Medical & Surgical Nursing (Practical)	50	50	100
	BSN PB-109	English (Qualifying)*	25	75	100
<b>2<sup>nd</sup> year</b>					
	BSN PB-201	Sociology	25	75	100
	BSN PB-202	Community Health Nursing (Theory)	25	75	100
		Community Health Nursing (Practical)	50	50	100
	BSN PB-203	Mental Health Nursing (Theory)	25	75	100
		Mental Health Nursing (Practical)	50	50	100
	BSN PB-204	Introduction to Nursing Education	25	75	100
	BSN PB-205	Introduction to Nursing Administration	25	75	100
	BSN PB-206	Introduction to Nursing Research & Statistics**	50	-	50
		Research Project**	50	-	50

Note: \* Qualifying Examination

\*\*College Examination (not University Examination)

### N.B.:

- Teaching of Anatomy, Physiology, Pharmacology and pathology will be integrated with clinical subjects.

*Devi*  
21/06/2021  
23/06/2021  
21/6/21

## Rufaida College of Nursing (SNSAH), Jamia Hamdard

## B.Sc (H) Nursing program

6. Scheme of Examination : To be implemented from 2020-21 admitted batch onwards

The distribution of marks for semester test in theory and practical subjects in different papers during the eight semesters of study is detailed below. The duration of semester examination in theory will be 2-3 hours and in practicals will be 4 hours, unless specified otherwise. The examination should be held preferably in the same institution where she is a student or where she had her practical experience. There should be nursing professional examiners only, and these should be conducted as far as possible in the actual work situation in the hospital or at a health centre/ village rather than in classroom.

\* B.Sc Nursing  
\* P.B.Sc Nursing  
admi  
admit

Paper Code	Title Of The Paper	Marks		
		Internal Assessment	External Assessment	Total
<b>Semester I</b>				
BSN101	Nursing Foundations A (Theory)	25	75	100
BSN102	Anatomy, Physiology	25	75	100
BSN103	English	25	75	100
BSN104	Nutrition & Biochemistry	25	75	100
BSN105	Psychology	25	75	100
<b>Semester II</b>				
BSN201	Nursing Foundations B (Theory)	25	75	100
	Nursing foundation (practical A+B)	100	100	200

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BSN202	Microbiology	25	75	100
BSN203	Introduction to Computers	25	75	100
BSN204	EVS (Qualifying)	25	75	100
<b>Semester III</b>				
BSN301	Medical Surgical Nursing - I A (Theory)	25	75	100
BSN302	Sociology	25	75	100
BSN303	Communication & Educational Technology	25	75	100
<b>Semester IV</b>				
BSN401	Medical-Surgical Nursing-I B (Theory)	25	75	100
	Medical Surgical Nursing I (A+B) (Practical)	100	100	200
BSN402	Pharmacology, Pathology, Genetics	25	75	100
BSN403	Community Health Nursing I	25	75	100
<b>Semester V</b>				
BSN501	Child Health Nursing (Theory)	25	75	100
	Child Health Nursing (practical )	50	50	100
BSN502	Mental Health Nursing (Theory)	25	75	100
	Mental Health Nursing (Practical)	50	50	100

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<b>Semester VI</b>				
BSN601	Medical Surgical Nursing – II(Theory)	25	75	100
	Medical Surgical Nursing – II (Practical)	50	50	100
BSN602	Nursing Research & Statistics	25	75	100
*BSN603	Research Project	25	25	50
<b>Semester VII</b>				
BSN701	Management of Nursing Services and Education	25	75	100
BSN 702	Community Health Nursing – II (Theory)	25	75	100
	Community Health Nursing –II (Practical)	50	50	100
BSN703	Introduction to Unani Medicine (Qualifying)	25	75	100
<b>Semester VIII</b>				
BSN801	Midwifery and Obstetrical Nursing (Theory)	25	75	100
	Midwifery and Obstetrical Nursing (Practical)	50	50	100
BSN802 **	Medical Surgical Nursing, Child Health Nursing, Mental Health Nursing (Practical)	50	50	100
***BSN803	Disaster Management (Qualifying)	25	75	100

\*This includes assessment of research project report and viva

\*\*This is an internal practical examination to be taken in clinical area, combined for these three subjects

\*\*\* As per UGC recommendations

Ushara  
23/06/2024

2/6/24

2/6/24

**MINUTES OF MEETING OF BOARD OF STUDIES**  
**OF THE DEPT OF TAHAFFUZI WA SAMAJI TIBB,**  
**SCHOOL OF UNANI MEDICAL EDUCATION AND RESEARCH**

31<sup>st</sup> May 2021

A meeting of Board of Studies (BOS) of Department of Tahaffuzi Wa Samaji Tibb, School of Unani Medical Education and Research held on 31<sup>st</sup> May 2021 in the Board Room of the Department (online through Google Meet Platform) under the chairmanship of Dr. Mohd Akram at 10:00 am to discuss the following agenda item:

1. To discuss the modalities of starting PhD Programme in Unani Medicine

The Following were present in the meeting.

- |   |                 |
|---|-----------------|
| 1. Dr. Mohd. Akram                      | (Chairman)      |
| 2. Prof. Ruby Anjum, AMU Aligarh        | Co-Opted Member |
| 3. Dr. Paras Wani, Karolbagh, New Delhi | Co-Opted Member |
| 4. Dr. Aisha Parveen                    | Member          |

The meeting started with the welcome address by the chairman then following agenda items were discussed and resolved.

**Item No. 1**

The agenda was discussed at length where Dr. Ruby Anjum informed that AMU has also started the PhD Programme in different Disciplines of Unani Medicine including Tahaffuzi Wa Samaji Tibb. Dr. Paras Wani has also appreciated the initiative of starting the PhD Programme in the department of Tahaffuzi Wa Samaji Tibb as it is the need of the hour.

The board of studies unanimously resolved that the proposal to start PhD Programme in Tahaffuzi Wa Samaji Tibb may be processed further to get the approval of competent authority.

The meeting was concluded with the vote of thanks proposed by Dr. Aisha Parveen.

**Dr. Mohd Akram**  
Chairman BOS

Head Dept. Of Tahaffuzi Wa Samaji Tibb  
School of Unani Medical Education and Research  
Jamia Hamdard

**SC 157 (7): TO APPROVE THE MINUTES OF THE BOARD OF STUDIES, DEPARTMENT OF BIOCHEMISTRY, SCHOOL OF CHEMICAL AND LIFE SCIENCES (SCLS) HELD ON 26/03/2021 AND 5/07/2021.**

Two meetings of the Board of Studies in the Department of Biochemistry under S.C.L.S. were held on 26/03/2021 and 5/07/2021, wherein, in the first meeting held on 26/03/2021 the BoS discussed the revision of two B.Sc.- M.Sc. Integrated Courses and the Introduction of a new paper entitled 'Structural Biology' in V Semester B.Sc.- M.Sc. Integrated and to finalize the panel of external examiners proposed for the forthcoming exams of B.Sc.-M.Sc. Integrated Course (Semester IV & VI) and M.Sc. Final Semester dissertation Viva Voce.

Along with the Minutes of the BoS, the following papers are attached:

1. Paper: Structural Biology
2. Practical Structural Biology
3. Old Paper: Basics of Molecular Biology and Genetics
4. Revised Paper: Molecular Biology & Genetics
5. Old Paper: Research Methodology
6. Revised Paper: Research Methodology

In the Second meeting held on 5/07/2021, the BoS also discussed and approved the dual degree course of B.Sc. and M.Sc. Biochemistry, henceforth, students who take admission in B.Sc. Biochemistry will have an exit option, if they want, whereas, those who wish to continue may go ahead. The members discussed on the syllabus of M.Sc. Biochemistry and after deliberations changes / reshuffling decided to be incorporated before the next semester starts in September 2021.

The above Minutes of the both Board of Studies, Department of Biochemistry under SCLS held on 26/03/2021 and 5/07/2021 along with annexure are placed before the Standing Committee for approval.

Secretary  
Standing Committee of AC

266

This has reference to my letter dated 25 June 2021 sent via peon book number 388 dated 25 June 2021, in which I had not attached the concerned email copy. I am attaching the concerned email now.

Kindly accept.

Thanks

R Zaidi  
26/6/21

Prof Rana Zaidi  
HoD, Biochemistry

Registrar JH

## **Discipline Specific Elective Course for BSc-MSc integrated Biochemistry**

Course name: Structural Biology (Theory)

Course code: BBC-DSE-01 (TH)

Total Hours: 50

Total Credits: 4

### **Unit 1. Introductory concepts of Structure of Biological Macromolecules**

Structural analysis of the basic building blocks of biological macromolecules. Interatomic forces and interactions such as electrostatics and hydrophobicity in proteins, Evolution of biological structure and function. Basic introduction to protein folds and the nature of proteins.

### **Unit 2. Three-Dimensional Structure Determination**

Macromolecular Crystallography- Basic Principles of protein purification, crystallization, crystal diffraction and structure determination. Principle of Femtosecond Crystallography, Time-Resolved Crystallography and Neutron Crystallography. Cryo-electron microscopy-sample preparation and 3-D image processing. Structure validation and best practice on the use of protein structures from the protein data bank.

### **Unit 3. Structural and Functional Dynamics of Macromolecules**

Protein conformation dynamics study by Small Angle X-ray Scattering (SAXS) and other biophysical techniques including Isothermal Titration Calorimetry (ITC), Thermal Stability Assay (TSA), Microscale Thermophoresis (MST), FTIR Spectroscopy, Functional interpretation of conformational dynamics of macromolecule.

### **Unit 4. Structure-Function analysis**

Understand structure to function- basis of substrate binding and enzymatic mechanism, discovery of allosteric-site. Understand macromolecular machines and assemblies- RNA Polymerase, DNA polymerase, Ribosome, Kinetochore Dynein and Nucleosome.

### **Suggested Readings:**

1. Biomolecular Crystallography: Principles, Practice, and Application to Structural Biology by Bernhard Rupp.
2. Fundamentals of Protein Structure and Function by Engelbert Buxbaum.
3. Protein Dynamics. Methods and Protocols by Dennis R. Livesay.

**Discipline Specific Elective Course for BSc-MSc integrated  
Biochemistry**

Course name: **Structural Biology (Practical)**

Course code: **BBC-DSE-01 (P)**

Total Hours: **50**

Total Credits: **2**

1. Crystallization of lysozyme by hanging vapor diffusion method.
2. Download crystal structure pdb file of lysozyme from PDB databank and understand validation report.
3. Analyze a lysozyme structure in PyMol software.
4. Effect of fructose and glucose on the stability of Lysozyme protein (use differential scanning fluorimetry experiment).

**Suggested Readings:**

1. Biomolecular Crystallography: Principles, Practice, and Application to Structural Biology by Bernhard Rupp.
2. Fundamentals of Protein Structure and Function by Engelbert Buxbaum.
3. Protein Dynamics. Methods and Protocols by Dennis R. Livesay.

*Old Course*

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## **Discipline Specific Elective Course for BSc-MSc integrated Biochemistry**

Course name: **BBC DSE-02 RESEARCH METHODOLOGY (THEORY)**

**TOTAL HOURS: 50**

**CREDITS: 04**

Unit-I: Introduction to Research Methodology Objectives and motivation in research.

Unit-2: Defining the Research Problem Selecting and defining a research problem, Reviewing and conducting literature search, Developing a research plan.

Unit-3: Designing of Experiment- single and multifactorial design, Making measurements and sources of error in measurements, Methods of data collection and record keeping. Data Processing and Statistical Analysis Processing operations, tabulation, and graphical representation.

Unit-4: Scientific Journals, Impacting and indexing, patent, copyright and plagiarism. Writing a research paper - abstract, introduction, methodology, results and discussion.



**BBC DSE-02  
RESEARCH METHODOLOGY (THEORY)**

**TOTAL HOURS: 50**

**CREDITS: 04**

**Unit 1: Foundations of Research**

Meaning, Objectives, Motivation: Research Methods vs Methodology, Types of Research: Analytical vs Descriptive, Primary vs Secondary Research, Quantitative vs Qualitative, Basic vs Applied. Phases of Research: Assessment (situation analysis), planning, implementation and evaluation

**Unit 2: Research Design**

Need for research design: Features of good design, Important concepts related to good design- Observation and Facts, Prediction and Explanation, Development of Models. Developing a research plan: Problem identification, Experimentation, Determining experimental and sample designs

**Unit 3: Data Collection, Analysis and Report Writing**

Observation and Collection of Data-Methods of data collection- Sampling Methods, Data Processing and Analysis Strategies. Statistics in research: Concepts of sample and population, Statistical tests and hypothesis (Standard error, t-test, chi-square test), Data representation: Normal distribution (p-value).

Technical Reports and Thesis writing, Writing a research paper: abstract, introduction, methodology, results and discussion. Citation, Acknowledgement. Preparation of Tables and Bibliography. Review of literature, Data Presentation using digital technology

**Unit 4: Bioethics and Plagiarism in Research**

Introduction to IPR, Commercialization, Copy Right, Royalty, Patent law, Ethical issues in research: Ethics involving use of animal and human subjects (role of ethics committees), professional ethics, conflict of interests, publication ethics and plagiarism. Protection of environment and biodiversity. Biosafety issues in research: Biosafety levels; biohazards of chemical, radiation, genetically modified organisms, recombinant DNA. Handling of infectious agents and hazardous material used in research. Laboratory waste disposal

**SUGGESTED READINGS**

- Anthony, M, Graziano, A.M. and Raulin, M.L. 2009. Research Methods: of Inquiry, Allyn and Bacon.
- Walliman, N. 2011. Research Methods- The Basics. Taylor and Francis, London, New York.
- Wadhera, B.L.: Law Relating to Patents, Trade Marks, Copyright Designs and Geographical Indications, 2002, Universal Law publishing
- C.R.Kothari: Research Methodology, New Age International, 2009
- Coley, S.M. and Scheinberg, C.A. 1990, "Proposal writing". Stage Publications

Department of Biochemistry  
School of Chemical and Life sciences  
Jamia Hamdard

Minutes of the online meeting held on the 5 July 2021 at 10 am.

The following members attended the meeting

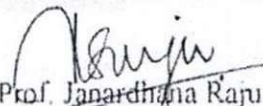
Prof. Shakir Ali	Member
Prof. N. Janardhana Raju	External expert
Prof. Mahfuzul Haque	External expert
Dr. Sayeed ur Rehman A Kalam	Member
Dr. Mohan Kamthan	Member
Dr. Vikas Sood	Special Invitee
Prof. Rana Zaidi	In chair

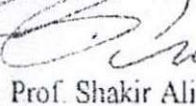
Prof. J.K. Batra and Dr. Farah Khan were on leave. Dr. Vikas Sood attended the meeting as a special invitee.

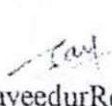
Members unanimously approved the dual degree course of BSc and MSc Biochemistry. Henceforth, students who take admission in BSc Biochemistry will have an exit option if they want, whereas those who wish to continue will go ahead. The members had a comprehensive discussion regarding the syllabus of MSc Biochemistry, after thorough deliberations the following changes/reshuffling was decided upon unanimously to be incorporated before the new semester starts in September 2021.

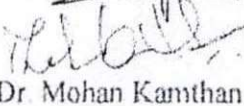
1. In Semester I a new paper named *Fundamentals of Biochemistry and Biophysics* will be taught at the departmental level and would be reframed, this will be of two credits only. *Molecular Biology I*, a new Course of two credits would also be introduced in the first semester.
2. Theory course entitled *Biophysical and Biochemical techniques* currently in the third semester will now be in the first semester. A new course has been introduced entitled *Analysis and Visualization of genomic data* in the third semester.
3. *Immunology* has been shifted from the third to the second semester.
4. *Molecular Biology* in the second semester would be renamed as *Molecular Biology II*.

Members BoS authorized the HoD Biochemistry to finalize the names of external examiners (theory and practicals) for the forthcoming examinations of BSc II Semester and MSc II Semester scheduled to be held in August.

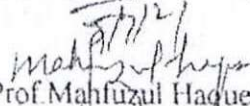
  
Prof. Janardhana Raju

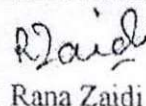
  
Prof. Shakir Ali

  
Dr. Sayeedur Rehman

  
Dr. Mohan Kamthan

  
Dr. Vikas Sood

  
Prof. Mahfuzul Haque

  
Prof. Rana Zaidi

CC File BoS  
All members

File BoS



S. Assistant  
AR (Acad.)  
6/7/21  
May 01, 2021  
6.7

Minutes of the meeting of Board of Studies (BOS) of the Department of Chemistry

A virtual meeting of the Board of Studies (BOS) of the Department of Chemistry, School of Chemical & Life Sciences was held through Google meet on 01<sup>st</sup> May, 2021 at 3.30 pm.

The following were present:

Name	Designation	
Pof. Kalim Javed	HoD Chemistry	In the Chair
Prof. Sunil Khare	Professor (IIT, Delhi)	Co-opted Member
Prof. Sunil Sharma	Professor (University of Delhi)	Co-opted Member
Prof. M.S. Alam	Professor	Member
Dr. Hinna Hamid	Associate Professor	Member
Dr. Mohd. Samim	Associate Professor	Member
Dr. Syed Shafi	Assistant Professor	Member
Dr. Imran A. Khan	Assistant Professor	Special Invitee

The meeting started with the welcoming remark of Head of Department to all the members.

Agenda Item I: To finalize the panel of examiners for getting set question papers/conducting practical exams of M.Sc. IV, B.Sc.-M.Sc. VI, IV and some backlog papers.

HoD placed before the committee the list of theory and practical papers for which the end semester examinations has to be conducted from 22<sup>nd</sup> May 2021 in order to finalize the panel of examiners for setting the question papers/conducting practical exams. HoD also informed the house about the willingness of Dean that question papers may be got set by the external examiners to improve the quality of the examinations.

It was thoroughly deliberated all the members of the BoS appreciated the concern of the Dean SCLS for setting question paper externally. However, under the present devastating conditions of Corona pandemic, the members of the BoS are of the opinion that the examinations may be conducted internally and accordingly all the question papers including backlog papers should be set by internal examiners for the smooth conduct of the semester exams.

Agenda Item II: Deliberation on the request of the students of B.Sc. chemistry to include two papers on mathematics (04 credits each) for the students of B.Sc.-M.Sc. elective papers.

HoD informed the members of the committee that candidates passing out B.Sc (Hons.) Chemistry from Jamia Hamdard do not fulfil the eligibility criteria for admission to M.Sc. course in many Indian Universities. The minimum eligibility criteria in other universities that the candidate must have passed B.Sc. (Chemistry) with at least two papers of Mathematics (04 credits each).

The current syllabus includes a paper on 'Basics of Mathematics' of 02 credits only. Recently students of B.Sc. VI semester submitted an application requesting for introducing one more paper of mathematics into the existing syllabus B.Sc.

**MSc Biochemistry**  
**Choice Based Credit System (CBCS)**  
**Jamia Hamdard**

**COURSE CONTENT**

**Semester I**

Course I	Core Course	MFC 001: Foundation Course <sup>s</sup>	8	200
Course II	Core Course	MBC 101: Biomolecules	4	100
Course III	Core Course	MBC 102: Cell Biology	4	100
Course IV	Core Course	MBC 103: Enzymes	4	100
Course V	Core Course	MBC 104: Lab Course-I	8	200
			<b>28</b>	<b>700</b>

**Semester II**

Course VI	Core Course	MBC 201: Molecular Biology	4	100
Course VII	Core Course	MBC 202: Protein and Proteomics	4	100
Course VIII	Core Course	MBC 203: Metabolism-I: Bioenergetics, Carbohydrate and Intermediary Metabolism	4	100
Course IX	Core Course	MBC 204: Biochemical and Biophysical Techniques	4	100
Course X	Core Course	MBC 205: Lab Course-II	8	200
Course XI	Generic Elective	MBC 206/207/208: GE-I*	2	50
Course XII	Discipline Centric Elective	MBC 209/210/211: DCE-I**	2	50
			<b>28</b>	<b>700</b>

**Semester III**

Course XIII	Core Course	MBC 301: Immunology	4	100
Course XIV	Core Course	MBC 302: Genetic Engineering	4	100
Course XV	Core Course	MBC 303: Metabolism-II: Lipid, Amino Acid and Xenobiotic Metabolism	4	100
Course XVI	Core Course	MBC 304: Clinical and Nutritional Biochemistry	4	100
Course XVII	Core Course	MBC 305: Lab Course-III	8	200
Course XVIII	Generic Elective	MBC 306/307/308: GE-II <sup>#</sup>	2	50
Course XIX	Discipline Centric Elective	MBC 309/310/311: DCE-II <sup>##</sup>	2	50
			<b>28</b>	<b>700</b>

**Semester IV**

Course XX	Core Course	MBC 401: Dissertation		
		Thesis	20	500
		Presentation	4	100
			<b>24</b>	<b>600</b>

**Total credits/marks in four semesters: 108/2700**

Each 4 credit theory paper will be taught in 50 lectures and 2 credit paper will be taught in 25 lectures, each of one-hour duration, except the Foundation Course. Core courses are compulsory and integral part of the subject.

<sup>s</sup> The Foundation Course will be coordinated by the School of Chemical and Life Sciences. It will be covered in 100 lectures and will have its own core and elective components.

**Hamdard Institute of Legal Studies and Research (HILSR)  
School of Law  
Jamia Hamdard, New Delhi**

**Minutes of the Meeting**

A meeting of the Board of Studies of Hamdard Institute of Legal Studies and Research (HILSR), School of Law was held on 19.06.2021 at 11.00 A.M in the Board Room, Smart Cluster Classroom, Ground Floor, Central Library Building.

**PRESENT:**

<b>Mr. S M Khan</b> Dean, HILSR, Jamia Hamdard	Chairman
<b>Prof. Shahid H Ansari</b> School of Pharmaceutical Education & Research (SPER) Jamia Hamdard	Member
<b>Prof. Javaid Talib</b> Former Dean, Faculty of Law, AMU	Member
<b>Dr. Mehar Fatima</b> Assistant Professor, HILSR	Member
<b>Mr. Burhan Majid</b> Assistant Professor, HILSR	Member

In addition to the BoS Committee members, Dr. Mohd. Owais Farooqui, Dr. Nida Zainab Naqvi and Mr. Ishan Ahmad, Assistant Professors, HILSR were also called during the meeting to participate in the discussions.

Prof. Javaid Talib, (Member) joined the meeting via online, Google Meet.

However, Prof. Ranbir Singh, (Member) could not attend the meeting.

**AGENDA: APPROVAL OF SYLLABUS OF BALLB 7<sup>TH</sup> SEMESTER**

At the outset, the Chairman welcomed all the members of the Committee and thanked them for their presence. The Chairman gave a brief introduction about the agenda relating to approval of

The image shows four handwritten signatures in black ink. From left to right, they appear to be: a signature that looks like 'S M Khan', a signature that looks like 'Shahid H Ansari', a signature that looks like 'Javaid Talib', and a signature that looks like 'Mehar Fatima'. There is also a signature on the far right that looks like 'Burhan Majid'.

syllabus of BALLB 7<sup>th</sup> Semester and specifically explained about the introduction of procedural/clinical legal courses from 7<sup>th</sup> semester onwards in the BALLB programme. The Chairman also emphasized that the department has been following the practice of approving syllabus of its BALLB programme semester wise owing to the frequent and routine amendments to different laws.

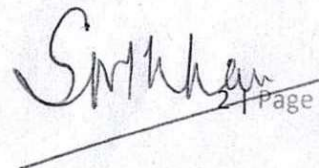
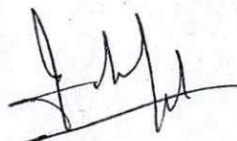
Thereafter, the members deliberated on the draft syllabus of BALLB 7<sup>th</sup> Semester. Prof. Talib discussed the draft syllabus of all the five courses of BALLB 7<sup>th</sup> Semester threadbare and suggested some important modifications to be made in it. With regard to the syllabus of Civil Procedure Code – I & Specific Relief Act and Criminal Procedure, Prof. Talib observed the syllabus is absolutely in line with the requirements of Bar Council of India and the practice in other law schools.

With regard to the course on Administrative Law, Prof. Talib suggested some changes with regard to the 'Objectives of the Course' and some sub-heads in the content. While as in the syllabus of Clinical Legal Course - I, Prof. Talib suggested some changes in the arrangement of the content.

Prof Talib suggested some changes in Unit-II: "International Conventions, Covenants and Declarations for the Protection of Human Rights". He was of the view that we should restrict our syllabus and study in details some of the important conventions and covenants, otherwise the syllabus in this unit will be very heavy for Under-Graduate students and they will be over burdened. Some of the important conventions should be taught in detail and others should be covered as a reference point. Therefore, the necessary changes will be made in unit 2 of this paper.

Regarding the heavy content of syllabus in unit II, Prof. Shahid H Ansari suggested to earmark number of periods for each topic to avoid inconvenience in covering and finishing the syllabus in time by students and teachers both.

Prof. Talib appreciated the effort on part of the department to ensure that the syllabus is reflective of the latest developments in the field of law. Prof. Ansari echoed the same. Prof. Ansari also made some important observations. He observed that the syllabus of each course should reflect the teaching hours per unit.



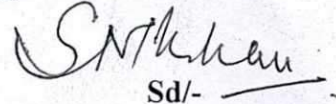
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RESOLUTION:

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The Committee unanimously resolved to approve the syllabus of BALLB 7<sup>th</sup> Semester prepared by HILSR, School of Law. However, the Committee emphasized the necessary changes shall be reflected in the syllabus before being placed before the Academic Council.

The meeting ended with a vote of thanks to the chair. The Chairman also thanked the members especially Prof. Javaid Talib, external expert, for his valuable discussions and suggestions.

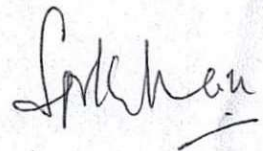
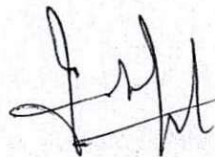
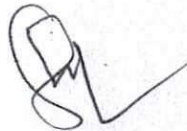


Sd/-

SM Khan

Dean, Chairman

Board of Studies (BoS), HILSR



**DEPARTMENT OF BIOTECHNOLOGY  
SCHOOL OF CHEMICAL AND LIFE SCIENCES  
JAMIA HAMDARD, NEW DELHI**

F.No. JH/SCLS/BTN/BS29/2021

09/07/21

**MINUTES OF THE 29<sup>th</sup> MEETING OF THE BOARD OF STUDIES  
HELD ON 9<sup>th</sup> JULY, 2021 AT 03:00 PM THROUGH ONLINE.**

The 29<sup>th</sup> meeting of the Board of Studies, Department of Biotechnology, SCLS was held on Friday, the 9<sup>th</sup> July, 2021 at 03:00 P.M. through Online (Google Meet platform). under the Chairmanship of Professor Pradip K. Chakraborti, Head, Dept. of Biotechnology, School of Chemical and Life Sciences, Jamia Hamdard. Following were present:

- |                                     |                   |
|-------------------------------------|-------------------|
| 1) Professor T.P. Singh             | : Co-opted Member |
| 2) Professor K. Natarajan           | : Co-opted Member |
| 3) Professor M.Z. Abdin             | : Member          |
| 4) Dr. Alka Narula                  | : Special Invitee |
| 5) Dr. Saima Wajid                  | : Member          |
| 6) Dr. Humaira Farooqi              | : Special Invitee |
| 7) Dr. Mairaj A. Ansari             | : Special Invitee |
| 8) Dr. Javaid A. Sheikh             | : Member          |
| 9) Dr. Jagriti Narang               | : Special Invitee |
| 10) Professor Pradip K. Chakraborti | : Chairman        |

At the outset Professor Pradip K. Chakraborti Chairman of Board of Studies welcomed the members including Professor T.P. Singh and Professor K. Natarajan for sparing their valuable time to attend and participate in deliberations of the BoS meeting even during the current prevailing Covid-19 pandemic. Both the experts expressed their happiness to be the part of the Committee. Thereafter, the following agenda items were taken up for discussion and deliberated upon.

**29BS-2 : Confirmation of the Minutes of the 28<sup>th</sup> Meeting of BoS:**

The minutes of the 28<sup>th</sup> meeting of the Board of Studies (BoS) held on April 27, 2021 were circulated among the members/special invitees. No comments were received. Therefore, the minutes stand accepted (**Annexure I**).

**29BS-3 : Date-Sheet of conducting end semester examination.**

The Chairman apprized the Committee about the Date-Sheet of upcoming end semester (M.Sc. Biotechnology Semester II) examination scheduled to be held from August 9-20, 2021 (**Annexures II**). He also elaborated that examination will be through online mode under the supervision of Department level exam committee. He also intimated that the date sheet has already been approved by the Dean, School of Chemical and Life Sciences.

**29BS-4.1 : Approval of Panel for External & Internal Examiners for the M.Sc. 2<sup>nd</sup> Semester Examination 2021.**

The Chairman, presented the panel of examiners for the students appearing in M.Sc (Biotechnology) Semester II for kind perusal/inputs and recommendation of the

29th meeting of the Board of Studies (09/07/21)

*[Handwritten signatures and initials in blue ink, including names like K. Natarajan, Jagriti Narang, and others.]*



members/invitees of the BoS. After deliberation, the committee made necessary minor corrections and recommended the panel (**Annexures III**). The Committee further empowered the Head, Dept of Biotechnology/Dean, SCLS to nominate the external examiner(s) from the panel.

#### **29BS-4.2 : Approval of M.Sc-level courses: Fundamentals of Biotechnology and Medical Microbiology**

In the 28<sup>th</sup> meeting of the Board of Studies, introduction of Department level Foundation course was discussed instead of existing 8 credit School level Foundation course. The Chairman proposed the alternative discipline centric 8 credit course in place of School level Foundation course. Accordingly, 4 credit 'Fundamentals of Biotechnology' course was discussed. For the remaining 4 credit, Medical Microbiology course will be offered. The detailed syllabus as provided in **Annexure IV** was presented for approval. The BoS members suggested to include introductory Biostatistics in 'Fundamentals of Biotechnology', which is incorporated.

#### **29BS-4.3 : Renaming of B.Sc-M.Sc (Biotechnology) Integrated Programme as B.Sc-M.Sc Dual degree Programme**

The Committee resolved that the ongoing B.Sc.-M.Sc. (Biotechnology) Integrated Programme may be called as B.Sc.-M.Sc. Dual degree programme. It was further resolved that all students in this programme clearing the sixth semester may be awarded the B.Sc. degree (span period for which will be six years). Those who wish to continue may be given a fresh admission to M.Sc. Semester I only after clearing all papers. Such students can be treated as per the M.Sc. Bye laws. Hence, passed out students of Integrated Programme under Dual degree will be awarded two degrees- B.Sc. and M.Sc.

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


  
(Prof. T.P. Singh)

  
(Prof. K. Natarajan)

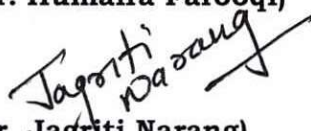
  
(Prof. M.Z. Abdin)

  
(Dr. Alka Narula)


  
(Dr. Humaira Farooqi)

  
(Dr. Saima Wajid)

  
(Dr. Javaid A. Sheikh)

  
(Dr. Jagriti Narang)

  
(Dr. Mairaj A. Ansari)

  
Prof Pradip K. Chakraborti  
Chairman & Head, Dept. of Biotechnology



प्रो.राजीव कुमार  
सदस्य सचिव

Prof. Rajive Kumar  
Member Secretary



अखिल भारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक सांविधिक निकाय)

मानव संसाधन विकास मंत्रालय, भारत सरकार  
नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली - 110070

दूरभाष: 011-26131497

ई मेल : ms@aicte-india.org

**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
(A Statutory Body of the Govt. of India)

Ministry of Human Resource Development, Govt. of India

Nelson Mandela Marg, Vasant Kunj, New Delhi-110067

Phone: 011-26131497

E-mail: ms@aicte-india.org

F. No. AICTE/P&AP/NCC-GE/Circular/2021/

Dated: 26.04.2021

## CIRCULAR

To,

All Directors / Principals of AICTE Approved Institutions

**Sub: NCC as General Elective Credit Course.**

Dear Sir / Madam,

NEP-2020 advocates Choice Based Credit System (CBCS) as integral part of education and it has been felt that NCC should be introduced as general elective credit course in technical institutions / universities to motivate students to join NCC in order to be disciplined and instil in them the feelings of patriotism. All students who enroll for NCC will immensely benefit by obtaining academic credits for NCC training in addition to acquiring NCC "B"/ "C" certificates, thus enhancing their employment opportunities.

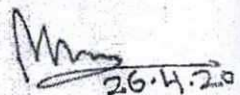
Ministry of Education (then MHRD) in 2015 decided to implement the decision and UGC in 2016 also issued circular to all universities to implement the aforesaid decision taken. However, somehow it could not be implemented then.

In order to fulfil this objective, an in-depth study has been carried out by DG-NCC to have NCC as a General Elective Credit Course as per NEP-2020, under the "Choice Based Credit System".

Ministry of Education has now suggested to take appropriate steps in implementing the aforesaid decision.

You are, therefore, requested to extend this facility to your students, so that they may opt NCC as "General Elective Credit Course" from the academic year 2021-2022.

Regards,

  
26.4.20

Prof. Rajive Kumar

**SECTION I: NCC CREDIT COURSE DESIGN DOCUMENT****UNDER CHOICE BASED CREDIT SYSTEM AS GENERAL ELECTIVE  
FOR SENIOR DIVISION / SENIOR WING**

1. **Preamble.** The National Cadet Corps (NCC) is governed by NCC Act 1948 and attendant NCC Rules. It functions under the Ministry of Defence and is headed by DGNCC. It is organised into 17 State Directorates each headed by an Additional/Deputy Director General. The aims of NCC are:-
  - (a) To develop character, camaraderie, discipline, secular outlook, the spirit of adventure, sportsman spirit and ideals of selfless service amongst cadets by working in teams, honing qualities such as self-discipline, self-confidence, self-reliance and dignity of labour in the cadets.
  - (b) To create a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regard less of which career they choose.
  - (c) To provide a conducive environment to motivate young Indians to choose the Armed Forces as a career.
2. **Purpose.** Currently NCC training is imparted as extra-curricular activity to volunteer students from recognized schools and colleges who enroll as cadets. NCC as a Credit Course is designed with an intent to transform NCC training into a curricular activity from an extra-curricular thereby providing academic credits to students undergoing NCC training along with other attended advantages to the cadets in the college/ university.
3. **Introduction to NCC Credit Course Design.** Institutional Training is the mainstay of NCC training and it is conducted at colleges and universities by Associate NCC Officers and Armed Forces personnel. The application of knowledge gained through institutional training is further honed or developed to a higher degree in NCC Camps. The Institutional Training syllabus comprises Common Subjects and Specialised Subjects (military component). NCC Credit Course is designed to offer Institutional Training of Senior Wing /Division is over six semesters (three years), comprising 300 periods (excluding Camp), of which 120 periods are meant for theory with 08 credits and 180 periods for practical with 6 credits. Each period is counted as hour. The ratio between theory and practical in terms of number of hours of training is 5:6, but in terms of credits is 5:3, since as per CBCS two hours of practical is counted towards one period of training as against one hour for theory. In addition two separate courses have been designed for two Camps normally referred to as Annual Training Camps (ATC).

Training schedules planned for cadets ensure that the optimum benefits of the NCC organization reach maximum number of cadets. The main emphasis is on practical training which in consonance with theory is made to facilitate active participation of learner, better assimilation of knowledge, and proper development of various skills, strengthening of mind and body which is the bedrock of NCC training.

<b>NCC GENERAL ELECTIVE CREDIT COURSE DESIGN SUMMARY</b>					
<b>Semester</b>	<b>Credits Allocated</b>			<b>Total</b>	<b>Remarks</b>
	<b>Theory</b>	<b>Practical</b>	<b>Camp</b>		
<b>Semester - I</b>	<b>01</b>	<b>01</b>	<b>-</b>	<b>02</b>	
<b>Semester - II</b>	<b>01</b>	<b>01</b>	<b>-</b>	<b>02</b>	
<b>Semester - III</b>	<b>01</b>	<b>01</b>	<b>05</b>	<b>07</b>	<b>Credits of 1<sup>st</sup> Camp merged with 3<sup>rd</sup> Sem</b>
<b>Semester - IV</b>	<b>02</b>	<b>01</b>	<b>-</b>	<b>03</b>	
<b>Semester - V</b>	<b>01</b>	<b>01</b>	<b>05</b>	<b>07</b>	<b>Credits of 2<sup>nd</sup> Camp merged with 5<sup>th</sup> Sem</b>
<b>Semester - VI</b>	<b>02</b>	<b>01</b>	<b>-</b>	<b>03</b>	
<b>Total</b>	<b>08</b>	<b>06</b>	<b>10</b>	<b>24</b>	<b>Twenty-Four Credits</b>

**SC 157 (18): TO PERUSE THE RECOMMENDATIONS OF THE COMMITTEE IN ITS MEETING HELD ON 14/07/2021 TO DISCUSS THE ISSUES REGARDING STARTING OF M.Sc. BIOINFORMATICS AND M.Sc. VIROLOGY PROGRAMMES IN THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AND THE DEPARTMENT OF MOLECULAR MEDICINE RESPECTIVELY.**

A meeting was held under the chairmanship of Vice-Chancellor to discuss the issues as mentioned above, whereas, the Committee recommended / suggested further course of action which is placed before the Standing Committee of the Academic Council for perusal.

Secretary  
Standing Committee of AC

Minutes of the brainstorming meeting held on 14th July 2021, in Board Room of Vice Chancellor Secretariat

The Hon'ble Vice Chancellor called a meeting to discuss the issue of starting courses in M.Sc. Bio-Informatics in the Departments of Computer Sciences, School of Engineering Sciences and Technology and M.Sc. Virology in the Department of Molecular Medicine, School of Engineering Sciences and Technology.

The following were present-

- |   |   |                 |
|---|---|-----------------|
| 1. Prof. (Dr.) M. Afshar Alam, Vice Chancellor              | - | Chairman        |
| 2. Prof. (Dr) Farhan Jalees Ahmad, Dean, SIST               | - | Member          |
| 3. Prof. Suhel Parvez, Head, Clinical Research              | - | Member          |
| 4. Dr. Anuja Krishnan, Assistant Professor, DMM             | - | Member          |
| 5. Dr. Mairaj A. Ansari, Assistant Professor, Biotechnology | - | Member          |
| 6. Dr. A. Selva Pandyan, Head, DMM                          | - | Member-Convener |


It was decided that Jamia Hamdard may start two courses in the session 2021-22 onwards.

The courses will be: 1) M.Sc Bio informatics in the Department of Computer Science. School of Engineering Sciences and Technology and 2) M.Sc Virology in the Department of Molecular Medicine, School of Interdisciplinary Sciences.

The Committee recommends the following:

1. Advisory Board will be constituted for all new courses.
2. Approximately 10,00,000/-INR will be provided for running the department for the M.Sc. virology course on phased manner.
3. Committee asked Prof. Farhan Jalees to put the matter in B.O.S. on 23<sup>rd</sup> July 2021 for approval.
4. There will be total 30 students in each course with NRI and foreign students.
5. The fees of each course will be 1,20,000 per student per annum for Indian students and US\$ 3,500 from NRI/Foreign nationals.
6. The scholarship will be given to second year students on merit cum need basis.
7. Committee also discussed about possibilities of starting a Post Graduate Diploma in: **Molecular Diagnosis; Vaccinology; Mammalian Cell Culture and Biosafety Practice**
8. It was suggested that this Post graduate diploma may be considered for the next academic year.

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

Approved  
  
 Minutes approved by the Vice Chancellor

**SC 157 (19): TO START A COURSE IN M.A. IN PUBLIC POLICY AND GOVERNANCE WITH AN INTAKE OF 25 STUDENTS.**

Already approved by the 40<sup>th</sup> AC and BoM held on 3/09/2021 and 7/09/2020 respectively. But due to less applications received, it was not started during the academic session 2020-2021.

**SC 157 (20): TO START A COURSE IN M.A. IN INTERNATIONAL STUDIES.**

Mr. Tarmeez Ahmed, Former Ambassador of India to Saudi Arabia has proposed JH to start 2 Years full time M.A. in International Studies, initially with intake of 20 and annual fee of INR 1.00 lac for Indian students and USD 3500/- for foreign nationals. HNF (HECA) is kind enough to provide seeds money to launch this program and also setting up the Hamdard Institute of International Studies at Jamia Hamdard, under the ambit of the same, this programme is proposed to run.

**SC 157 (21): TO CREATE A DEPARTMENT FOR HUMANITIES AND APPLIED SCIENCES IN THE SCHOOL OF ENGINEERING SCIENCES AND TECHNOLOGY AS PER THE AICTE REQUIREMENT.**

At present, faculty engaged in the applied subjects of science and humanities other than core subject of computer science are under the Department of Computer Science and Engineering. In order to smooth functioning of the School, there is need to create a separate Department of Humanities and Applied Sciences under S.E.S.T. in future. The proposal is placed here to approve the same in principle subject to fulfillment of all statutory requirement and approval of the P&MB, FC and BoM.

**SC 157 (22): TO CREATE A POST FOR THE ASSISTANT PROFESSOR (ENGLISH), ASSISTANT PROFESSOR (PHYSICS) AND ASSISTANT PROFESSOR (MATHS) FOR THE DEPARTMENT OF APPLIED SCIENCES OUT OF THE POSTS SANCTIONED IN THE SCHOOL OF ENGINEERING SCIENCES AND TECHNOLOGY.**

At present, there are some faculties working on contractual basis have been engaged to teach the subjects of English, Physics, Chemistry, Mathematics etc. in the School of Engineering Sciences and Technology. They are also deputed, on demand, to other Schools to teach the subjects of their specialization. So there is need to create separate Department under S.E.S.T. and positions to the level of Assistant Professors.

The above matters are placed before the Standing Committee of the Academic Council for consideration.

Secretary  
Standing Committee of AC