

The following members were present:

1.	Prof. Poornima Mital	--	Chairperson
2.	Prof. Sachidanand Sinha, CSRD, JNU, New Delhi	--	External Member
3.	Prof. R. Baskar, DESE, GJUS&T, Hissar	--	External Member
4.	Prof. S.C. Garg, VC, Usha Martin University, Ranchi	--	External Member
5.	Prof. B. Sri Padmavati, School of Maths. & Statistics, Univ. of Hyd., Hyderabad	--	External Member
6.	Prof. Suneel Kateriya, School of Biotechnology, JNU, New Delhi.	--	External Member
7.	Prof. Sunil Kumar, Professor, SoMS, IGNOU	--	Member (Other School)
8.	Prof. Parvin Sinclair	--	Member
9.	Prof. Vijayshri	--	Member
10.	Prof. Sunita Malhotra	--	Member
11.	Prof. Sujatha Varma	--	Member
12.	Prof. Bharat Inder Fozdar	--	Member
13.	Prof. Neera Kapoor	--	Member
14.	Prof. S. R. Jha	--	Member
15.	Prof. Javed A. Farooqi	--	Member
16.	Prof. Amrita Nigam	--	Member
17.	Prof. Bano Saidullah	--	Member
18.	Prof. Sanjiv Kumar	--	Member
19.	Prof. Lalita S. Kumar	--	Member
20.	Prof. Shubha Gokhale	--	Member
21.	Prof. Kamalika Banerjee	--	Member
23.	Prof. Subhakant Mohapatra	--	Member
24.	Dr. Sanjay Gupta	--	Member
25.	Dr.M. Prashanth	--	Member
26.	Dr. Manish Trivedi	--	Member
27.	Dr. Mohammed Abdul Kareem	--	Member
28.	Dr. Vishal Warpa	--	Member
29.	Mr. Pawan Kumar	--	Member

Prof. C.R.K Murthy, Professor, STRIDE, Prof. Parmod Kumar, Professor, SOH, Ms.Poonam Bhushan, Associate Professor, SoE and Prof. M.S. Nathawat, Professor, Discipline of Geography, SoS could not attend the meeting.

At the outset, the Chairperson welcomed all the Members to 65th Meeting of the School Board of School of Sciences. She also welcomed the external members of the School Board namely, Prof. Sachidanand Sinha, Prof. R. Baskar, Prof. S.C. Garg, Prof. B. Sri Padmavati and Prof. Suneel Kateriya. She apprised the new members about the programmes offered by the School and the student enrolment data in the courses of the BSCG Programme under UGC-CBCS.

**MINUTES OF THE SIXTY FIFTH MEETING OF THE SCHOOL BOARD OF
SCHOOL OF SCIENCES HELD ON 6TH MARCH 2020 AT 11.00 AM**

2020

The following agenda items were deliberated upon:

AGENDA NO.	SUB-AGENDA NO.	AGENDA	ANNEXURE
SB 65.1		To consider and approve the Minutes of 64th Meeting of School Board of School of Sciences held on 6th September 2019 and the Action Taken Report on the Minutes.	SB 65.1.1.1 & SB 65.1.1.2
	Matter for Discussion	The Chairperson informed the Board that the Minutes of 64 th Meeting of School Board of School of Sciences held on 6 th September 2019 were circulated to all the members and no comments were received. The Chairperson proposed that the Minutes be approved.	
	Decision of SB	The School Board approved the minutes of the 64 th School Board Meeting and also took note of the Action Taken Report.	
	Matters arising out of the Minutes	The School Board had recommended the names of Assistant Professors having five years of experience as members of moderation board for certain courses vide SB 64.9.1 of the confirmed Minutes. In the light of this decision, the lists of members of the moderation boards of BSc Physics courses provided by the Physics Discipline were considered and recommended. These lists had been placed in the 62 nd School Board meeting of School of Sciences vide item No.62.7.2 and had been returned for revising since they contained the names of Assistant Professors.	Appendix-I
SB 65.2		To consider and approve the Minutes of 26th Meeting of Standing Committee of School Board of Sciences held on 22nd January 2020.	SB 65.2.1.1
	Matter for Discussion	The Minutes of the meeting of 26 th Standing Committee of the School Board of School of Sciences held on 22 nd January 2020 were placed along with the relevant papers for consideration and approval of the School Board.	
	Decision of SB	The School Board approved the minutes of the 26 th SBSC of the School.	
SB 65.3 (Biochemistry)		To consider and approve agenda items pertaining to the Discipline of Biochemistry.	
	SB 65.3.1	To consider and approve the additional name of course editor for the Theory and Lab Courses of BSCG(Hons.) Biochemistry Programme as per UGC-CBCS.	--
	Matter for Discussion	The Discipline of Biochemistry submitted the following name of the Course Editor for the Theory and Lab Courses BBCS-184 'Clinical Biochemistry' of BSCG(Hons.) Biochemistry Programme as per UGC-CBCS for consideration and approval of the School Board of School of Sciences.	
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		<p>Dr. Reena Gupta Professor, Department of Biochemistry, Himachal Pradesh University, Shimla. Mobile No. 9418462552 Email: reenagupta_2001@yahoo.com</p>	
	Decision of SB	The School Board of School of Sciences considered and approved the name of Dr. Reena Gupta as an Editor for the above courses of Biochemistry.	
	SB 65.3.2	To consider and approve the name of translator for BSCG (Hons.) Biochemistry courses.	---
	Matter for Discussion	<p>The Discipline of Biochemistry submitted the following name of translator for BSCG (Hons.) Biochemistry courses:</p> <p>Smt. Aabha Srivastava M.Sc., Biochemistry N-32, First Floor, Sec.12, Noida 201 301. Mobile: 9958523223 Email: aabhaniraj07@gmail.com</p>	
	Decision of SB	The School Board considered and recommended the name of Smt. Aabha Srivastava as a translator for BSCG (Hons.) Biochemistry courses for further approval of the competent authority. The name will be kept in the common pool of translators for the use of other Disciplines also.	
	SB 65.3.3	To consider and recommend the names of paper setters, evaluators and members of moderation board for Theory & Lab Courses of BSCG (Hons.) Biochemistry.	SB 65.3.3.1, SB 65.3.3.2 & SB 65.3.3.3
	Matter for Discussion	<p>The Discipline of Biochemistry submitted the names of paper setters, evaluators and members of moderation board for the following Theory & Lab Courses of BSCG (Hons.) Biochemistry.</p> <p>Course: <i>Molecules of Life, Course Code: BBCCT-101 and BBCCL-102</i> Course: <i>Cell Biology, Course Code: BBCCT-103 and BBCCL-104</i> Course: <i>Proteins, Course Code: BBCCT-105 and BBCCL-106</i> Course: <i>Enzymology, Course Code: BBCCT-107 and BBCCL-108</i></p>	
	Decision of SB	The School Board considered the lists of Paper Setters, Evaluators and Members for moderation Board submitted by the Discipline of Biochemistry. The School Board advised the Discipline to submit the lists of Evaluator and Paper Setters separately. With the suggestion the School Board recommended the names for the approval of the competent authority.	
	SB 65.4 (Chemistry)	To consider and approve agenda items pertaining to the Discipline of Chemistry.	

	SB 65.4.1	To consider and approve the names of editors for the Core Chemistry Course "BCHCT-137 Coordination Chemistry, States of Matter & Chemical Kinetics (Credits: Theory-04)" to be offered in the 4th Semester under the UGC-CBCS scheme.	---
	Matter for Discussion	<p>The Discipline of Chemistry is offering Core Course (Theory and Lab) entitled "BCHCT-137 Coordination Chemistry, States of Matter & Chemical Kinetics" (for BSCG CBCS with Chemistry) in the 4th Semester. In this regard, the following names of editors were proposed by the Discipline of Chemistry for the approval of the School Board of School of Sciences:</p> <p>Section A: Inorganic Chemistry- III</p> <p>Dr. Sushmita Choudhury, Associate Professor, Gargi College, University of Delhi Email : sushmita@gmail.com Mobile No. : 9810948293</p> <p>Section B: Physical Chemistry-III</p> <p>Dr. Vijay Sarda Associate Professor (Retd.) Zakir Hussain College, Opp to Ram Leela Ground , Jawaharlal Nehru Marg, Delhi-110002 Email : vijaysarda15@gmail.com Mobile No. : 9871751112</p>	
	Decision of SB	The School Board of School of Sciences considered and approved the above names as Editors for the core course BCHCT-137 of the Discipline of Chemistry.	
	SB 65.4.2	To consider and approve the Programme Revision Form (PRF) of Skill Enhancement Course to be offered in BSCG programme under UGC-CBCS and Minutes of the Course Expert Committee meeting held on 12th Feb. 2020.	SB 65.4.2.1, SB 65.4.2.2 and SB 65.4.2.3.
	Matter for Discussion	<p>It was submitted by the Discipline of Chemistry that Skill Enhancement Courses (SEC's) are part of UGC-CBCS framework slated to be offered in the 3rd - 4th Semesters of the Bachelor's Degree Programme specifically BAG and BSCG programmes of UGC-CBCS. In this regard, the Chemistry Discipline proposed "Laboratory Management Skills" as one such course. The course has been proposed to be adapted from 'Good Laboratory Practices' course of CPLT Programme.</p> <p>The finalized syllabus and the filled-in Programme Revision Form (PRF) for the course designed by the Course Expert Committee in its meeting held on 12th February 2020 were placed along with the minutes of the meeting for consideration and approval of the School</p>	

		Board of School of Sciences.	
	Decision of SB	The School Board of School of Sciences considered the Syllabi and Programme Revision Form submitted by the Discipline of Chemistry. The Board advised that the Learning Outcomes of the course be stated. In order to enhance the laboratory skills, it was suggested to add the videos on lab activities covering all the science courses like Chemistry, Life Sciences, Physics, Geology and Geography etc and also social science courses having laboratory components. The Board also pointed out some corrections in the PRF and suggested that the syllabi and PRF be resubmitted after incorporating the suggested changes. The board authorized the Chairperson to finalize the syllabi and PRF and forward the same to Academic Council for its approval.	
	SB 65.4.3	To consider and approve the list of examiners for the Ph.D. thesis of Mr. Naveen Kumar Dubey (Enrol. No. 173101775) PhD student of Discipline of Chemistry.	The list was placed in a confidential cover.
	Matter for Discussion	The Discipline of Chemistry submitted the list of Examiners for Ph.D. thesis evaluation of Mr. Naveen Kumar Dubey (Enrollment No.173101775) registered in the Ph.D. Chemistry Programme for the approval of the School Board of School of Sciences.	
	Decision of SB	The list of Examiners for evaluation of thesis of Mr. Naveen Kumar Dubey (Enrollment No.173101775) was read out before the Board members. The School Board of School of Sciences approved the list of examiners and advised that the approved list of examiners should not be circulated as a part of Minutes but be forwarded in a confidential cover to the Research Unit, IGNOU after the Minutes are approved.	
	SB 65.4.4	To consider and approve the list of examiners for the MPhil Dissertation of Ms. Sadhna Devi Kaliramna (Enrol. No. 179342065) on the topic '<i>Formation of Fluorescent Powder Compositions and their Application in Latent Fingerprint Development</i>' under the supervision of Prof. Sanjiv Kumar.	The list was placed in a confidential cover.
	Matter for Discussion	The Discipline of Chemistry submitted the list of Examiners for evaluation of MPhil Dissertation of Ms. Sadhna Devi Kaliramna (Enrollment No.179342065) registered in the MPhil Chemistry Programme.	
	Decision of SB	The list of Examiners for evaluation of thesis of Ms. Sadhna Devi Kaliramna (Enrollment No.179342065) was read out before the Board members. The School Board of School of Sciences approved the list of examiners and advised that the approved list of examiners should not be circulated as a part of Minutes but be forwarded in a confidential cover to the Research Unit, IGNOU after the Minutes are approved.	
	SB 65.4.5	To consider and approve the Minutes of Doctoral Research Committee meeting held on 3rd March, 2020.	SB 65.4.5.1

	Matter for Discussion	The Discipline of Chemistry submitted that the Doctoral Research Committee meeting was held on 3 rd March, 2020 to discuss and finalize the following agenda item: 1. To review the presentation of Pre-PhD Seminar of Mr. Naveen Kumar Dubey (Enrol. No. 173101775) on the topic ' Method development, validation of Pharmaceutical Drug, Metabolite(s) and its analysis in Human Plasma using UFLC-MS' The Minutes of the meeting were placed before the School Board of School of Sciences for its consideration and approval.	
	Decision of SB	The School Board of School of Sciences considered and approved the Minutes of DRC meeting of the Discipline of Chemistry held on 3 rd March 2020.	
	SB 65.4.6	To consider and recommend the lists of the Paper Setters, Evaluators for the courses AEC-01, CHE-02 and MCH-002 and Members of Moderation Board for the courses CHE-09 and MCH-002 of the BDP and PGDAC Programmes, respectively.	SB 65.4.6.1, SB 65.4.6.2 and SB 65.4.6.3.
	Matter for Discussion	The Discipline of Chemistry submitted the lists of the Paper Setters, Evaluators for the courses AEC-01, CHE-02 and MCH-002 and Members of Moderation Board for the courses CHE-09 and MCH-002 of the BDP and PGDAC Programmes, respectively for consideration and recommendation of the School Board of School of Sciences.	
	Decision of SB	The School Board considered the lists of Paper Setters, Evaluators and Members for moderation Board submitted by the Discipline of Chemistry for the above courses. The School Board recommended the names for the approval of the competent authority.	
SB 65.5 (Geography)	To consider and approve agenda items pertaining to the Discipline of Geography.		
	SB 65.5.1	To consider and approve the Minutes of the 47th Doctoral Research Committee Meeting of Geography Discipline held on February 03, 2020.	SB 65.5.1.1
	Matter for Discussion	The Discipline of Geography submitted that the 47 th Doctoral Research Committee meeting was held on February 03, 2020 to discuss and finalize the following agenda item: i. To review the six monthly Progress Reports of Ms. Noopur Mishra [En.No.179342310], Mr. Karma Loday Tamang [En.No.179342366] and Mr. Sunny Sharma [En.No.188500102], PhD research scholars of the Discipline of Geography for the period July-December, 2019. The Minutes of the meeting were placed before the School Board of School of Sciences for its consideration and approval.	

	Decision of SB	The School Board of School of Sciences considered and approved the Minutes of 47 th DRC meeting of the Discipline of Geography held on February 03, 2020.																									
	SB 65.5.2	To consider and recommend the additional names of the Translators for the BSCG Programme with Geography under UGC-CBCS.	SB 65.5.2.1																								
	Matter for Discussion	The Discipline of Geography submitted a list of additional names of translators for the BSCG Programme with Geography under UGC-CBCS for consideration and recommendation of the School Board of School of Sciences.																									
	Decision of SB	The School Board considered and recommended additional names of the translators for BSCG Programme with Geography for further approval of the competent authority. The names will be kept in the common pool of translator for the use of other Disciplines also.																									
	SB 65.5.3	To consider and approve the list of Examiners for the evaluation of M.Phil. Dissertations of 09 M.Phil. Scholars of July 2018, Admission Cycle enrolled in the Discipline of Geography.	The list of examiners were placed in confidential covers																								
	Matter for Discussion	<p>The Discipline of Geography submitted the lists of Examiners (in 9 confidential covers) for the evaluation of M.Phil Dissertations of 09 M.Phil. Scholars of July 2018 as per the details given below for consideration and approval of the School Board of School of Sciences:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Name</th> <th>Research Topic</th> <th>Research Supervisor</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Ms. Umesh 188500141</td> <td>Issues of Environmental Sustainability of Agricultural Practices in Haryana</td> <td>Dr. Vishal Warpa</td> </tr> <tr> <td>2.</td> <td>Mr. Sourav Suman 188500166</td> <td>Regional Disparities and Their Impact on Maternal Health Care Use in Jharkhand with Special Reference to Santhal Pargana</td> <td>Dr. Subhakanta Mohapatra</td> </tr> <tr> <td>3.</td> <td>Ms. Geetika Dubey 188500173</td> <td>Assessment of Kerala Flood in 2018 and its Impact</td> <td>Prof. M.S. Nathawat</td> </tr> <tr> <td>4.</td> <td>Ms. Ushna Saikia 188500180</td> <td>Poverty and Health Status of Tea Tribes of Assam and Their Developmental Issues</td> <td>Dr. Vijay Kumar Baraik</td> </tr> <tr> <td>5.</td> <td>Mr. Uma Shankar Singh</td> <td>Livelihood Practices and Environmental Constraints in Trans-</td> <td>Dr. Subhakanta Mohapatra</td> </tr> </tbody> </table>	S. No	Name	Research Topic	Research Supervisor	1.	Ms. Umesh 188500141	Issues of Environmental Sustainability of Agricultural Practices in Haryana	Dr. Vishal Warpa	2.	Mr. Sourav Suman 188500166	Regional Disparities and Their Impact on Maternal Health Care Use in Jharkhand with Special Reference to Santhal Pargana	Dr. Subhakanta Mohapatra	3.	Ms. Geetika Dubey 188500173	Assessment of Kerala Flood in 2018 and its Impact	Prof. M.S. Nathawat	4.	Ms. Ushna Saikia 188500180	Poverty and Health Status of Tea Tribes of Assam and Their Developmental Issues	Dr. Vijay Kumar Baraik	5.	Mr. Uma Shankar Singh	Livelihood Practices and Environmental Constraints in Trans-	Dr. Subhakanta Mohapatra	
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		<p>188500198 Himalaya of Himachal Pradesh</p> <p>Mr. Nitish Kumar Singh 188500206 Assessment of Urban Expansion and Land Use Dynamics of Varanasi City</p> <p>Mr. Vipin Kumar Pal 188500213 Application of Geomorphometry for Watershed Prioritization in the Semi-Arid Region of Shivpuri Plateau, Madhya Pradesh</p> <p>Mr. Gursharn Singh 188500220 Impact of Climate Change on Agriculture in Jammu District</p> <p>Mr. Nayan Das 188500238 Levels of Development among Kisan Community along the Tri-Boundary of West Bengal-Bihar-Jharkhand</p>	<p>Prof. M.S. Nathawat</p> <p>Dr. K. Nageswara Rao</p> <p>Prof. M.S. Nathawat</p> <p>Dr. Vijay Kumar Baraik</p>	
	Decision of SB	<p>The lists of Examiners for the evaluation of Dissertations of the above 9 MPhil students of Geography Discipline were read out before the members. The School Board pointed out some rectification in the lists and asked the Discipline to resubmit the same. The Board authorized the Chairperson to get the rectifications done and finalize the lists. The Board advised that the revised lists of examiners should not be circulated as a part of Minutes but be forwarded in the confidential covers to the Research Unit, IGNOU after the Minutes are approved.</p>		
	SB 65.5.4	<p>To consider and recommend the additional list of Course Writers for two courses titled "Geography of India" (BGGET-141, Fifth Semester) and "Economic Geography" (BGGET-142, Sixth Semester) of BSCG with Geography.</p>		SB 65.5.4.1
	Matter for Discussion	<p>The Discipline of Geography submitted the additional list of Course Writers for two courses titled "Geography of India" (BGGET-141, Fifth Semester) and "Economic Geography" (BGGET-142, Sixth Semester) of BSCG with Geography under UGC-CBCS Programme for consideration and recommendation of the School Board of School of Sciences.</p>		
	Decision of SB	<p>The School Board considered and recommended the names of Course Writers mentioned in the additional list for further approval of the competent authority.</p>		
	SB 65.5.5	<p>To consider and recommend the lists of Paper Setters, Evaluators and Members of Moderation Board for the course on "Human Geography" (BGGCT-132 Second Semester) of</p>		SB 65.5.5.1 SB 65.5.5.2 & SB 65.5.5.3

		BSCG Programme with Geography.	
	Matter for Discussion	The Discipline of Geography submitted the lists of Paper Setters, Evaluators and Members of Moderation Board for the course on " Human Geography " (BGGCT-132 Second Semester) BSCG Programme with Geography.	
	Decision of SB	The School Board of School of Sciences considered the lists of Paper Setters, Evaluators and the Members of the Moderation Board for the course on "Human Geography" (BGGCT-132 Second Semester) of BSCG Programme with Geography and recommended the same for further approval of the competent authority.	
SB 65.6 (Geology)	To consider and approve agenda items pertaining to the Discipline of Geology.		
	SB 65.6.1	To consider and approve the Minutes of the 51st and 52nd Meeting of the Doctoral Research Committee for the Ph.D. programme in Geology, held on 5th February, 2020, and 14th February, 2020, respectively.	SB 65.6.1.1 SB 65.6.1.2 SB 65.6.1.3
	Matter for Discussion	<p>The 51th Meeting of the Doctoral Research Committee of Geology was held on 5th February, 2020 and 52nd Meeting of the Doctoral Research Committee of Geology was held on 14th February, 2020, respectively. The following agenda items were discussed and finalized in the two meetings:</p> <p>(i) To consider and approve the title and research proposal of the research scholar Mr. Anayat Ahmad Quarshi enrolled in the PhD Geology programme. Also approve the name of Dr. Rakesh Chandra, Department of Earth Sciences, University of Kashmir, Srinagar as a Co-supervisor for him.</p> <p>(ii) To assess the six-monthly progress report of Mr. Rohit Kumar (Enrol No.173101886), Mr. Sourish Chatterjee (Enrol No. 179341959), Mr. Rajesh Kumar (Enrol No. 179342019), Mr. Arun Kumar (Enrol No. 188500474) and Mr. Anayat Ahmad Quarshi (Enrol No. 188500450) for the period (July to December, 2019).</p> <p>(iii) To review the progress (July to December, 2019) and assess the Pre-PhD submission seminar of the Mr. Sarvesh Misra (Enrol No. 144500342).</p> <p>The above Minutes were placed before the School Board of School of Sciences for its consideration and approval.</p>	
	Decision of SB	The School Board of School of Sciences pointed out to check the spelling of the name of a scholar and advised the Discipline to rectify it, if there is any error. With this, the School Board approved the Minutes of 51 st and 52 nd Meetings of the DRC in Geology held on 5 th February, 2020, and 14 th February, 2020, respectively.	

	SB 65.6.2	To consider and approve the list of Examiners for the evaluation of PhD thesis of Mr. Sarvesh Misra (Enrl. No. 144500342) enrolled in Ph.D. Programme in Geology.	The list was placed in a confidential cover.
	Matter for Discussion	The Discipline of Geology submitted the list of Examiners for evaluation of PhD thesis of Mr. Sarvesh Misra (Enrollment No.144500342) registered in the PhD Programme of Geology for consideration and approval of the School Board of School of Sciences.	
	Decision of SB	The list of Examiners for evaluation of thesis of Mr. Sarvesh Misra (Enrollment No.144500342) was read out before the Board members. The School Board of School of Sciences approved the list of examiners and advised that the approved list of examiners should not be circulated as a part of Minutes but be forwarded in a confidential cover to the Research Unit, IGNOU after the Minutes are approved.	
	SB 65.6.3.	To consider and approve members of the Expert Committee for the review of Post Graduate Certificate Programme in Geoinformatics.	SB 65.6.3.1
	Matter for Discussion	The Discipline of Geology submitted a list of Members of the Expert Committee for the review of Post Graduate Certificate Programme in Geoinformatics for consideration and approval of the School Board of School of Sciences.	
	Decision of SB	The School Board of School of Sciences considered and approved the list of experts for the review of PGCGI programme.	
	SB 65.6.4	To consider and recommend additional names of the Course Writers for the Discipline Specific Elective Courses: Elements of Applied Geology (BGYET-145) and Elements of Applied Geology Laboratory (BGYEL-146) of BSCG programme with Geology as per UGC-CBCS.	
	Matter for Discussion	The Discipline of Geology submitted one additional name of Course Writer for the Discipline Elective Courses: <i>Elements of Applied Geology (BGYET-145)</i> and <i>Elements of Applied Geology Laboratory (BGYEL-146)</i> of BSCG programme with Geology as per UGC - CBCS for consideration and recommendation of the School Board of School of Sciences: Dr. Sushmitha Baskar Assistant Professor, School of Inter-Disciplinary and Trans-Disciplinary Studies, IGNOU, Maidan Garhi, New Delhi - 110068 Email: sushmithab@ignou.ac.in Mobile: 9013880206	
	Decision of SB	The School Board of School of Sciences considered the name of Dr.Sushmitha Baskar as an additional course writer for the above mentioned courses and recommended the same for further	

		approval of the competent authority.	
	SB 65.6.5	To consider and recommend the modification made in the eligibility criteria of Academic Counsellor for BSCG Programme with Geology.	SB 65.6.5.1
	Matter for Discussion	The Discipline of Geology in their Discipline Group Meeting held on 13 th January, 2020 decided to modify the eligibility criteria of Academic Counsellor for Geology courses as the number of applications being received from Professor /Assistant Professor /Associate Professor as academic counselors of Geology is very less. Hence, the Discipline Members proposed to recommend the candidates having Masters in Geology with NET/SLET/SET or minimum of 2 years of teaching experience at Bachelors/ Masters levels in the subject, as academic counselor for the study centres where there are less/no counselors available.	
	Decision of SB	The School Board of School of Sciences deliberated the issue in detail and approved the proposal of Discipline of Geology regarding modification to be made in the eligibility criteria of Academic Counsellor for Geology courses.	
SB 65.7 (Life Sciences)	To consider and approve agenda items pertaining to the Discipline of Life Sciences.		
	SB 65.7.1	To consider and recommend the names of Hindi Translators for the Life Sciences courses.	
	Matter for Discussion	The Discipline of Life Sciences submitted the following two names for Hindi Translation of the Life Sciences courses under UGC-CBCS for consideration and recommendation of the School Board of School of Sciences: <div style="display: flex; justify-content: space-around;"> <div style="text-align: left;"> <p>1. Dr. Bharti Chouhan Dept. of Zoology, University of Rajasthan Mobile: 9413452743 E-mail id: drsbharti@gmail.com</p> </div> <div style="text-align: left;"> <p>2. Dr.Sulekh Chandra Retired. Dept.of Chemistry, Zakir Husain College, University of Delhi, Mobile: 9811226273 Email id: sc1953@gmail.com</p> </div> </div>	
	Decision of SB	The School Board of School of Sciences considered and recommended the list by adding two more names viz., Prof. Pushplata Tripathi and Prof. Jaswant Sokhi both are retired Professors of Life Sciences, School of Sciences. The revised list of Hindi Translators for Life Sciences courses under UGC-CBCS will be put up for further approval of the competent authority.	
	SB 65.7.2	To consider and recommend the name of vettors for Hindi Vetting of the Life Sciences courses.	

	Matter for Discussion	The Discipline of Life Sciences proposed the following name for Hindi Vetting of the Life Sciences courses in UGC-CBCS: Prof. Pushplata Tripathi Professor (Retired), SOS, IGNOU. (R) D-188 Saket, Delhi – 110 017. Email: ptripathi14g@gmail.com	
	Decision of SB	The School Board considered and suggested to add Prof. Jaswant Sokhi, Professor (Retd.) from School of Sciences in the list. The School Board recommended the revised list of Vettors for Hindi Vetting of Life Sciences Courses for further approval of the competent authority.	
	SB 65.7.3	To Consider and approve the Minutes of Doctoral Committee Meeting of Life Sciences Discipline held on 24th January, 2020.	SB 65.7.3.1
	Matter for Discussion	The Doctoral Committee Meeting of Ph.D in Life Sciences was held on 24 th January, 2020 to discuss the following issues: 1. To consider and approve the minor change in the title of the thesis of Ms. Taranjeet Kaur, En.No. 173101901, Ph.D scholar and 2. To consider and approve the change in topic of research and allotment of co-supervisor of Ms. Preeti Chaudhary, En.No.173101965 3. To consider and approve the six monthly progress reports of Ms. Gunjan Sharma (Enrl. 173101893), Taranjeet Kaur (Enrl. 173101901), Veena Rani (Enrl. 188500750) and G. Lakshmi (Enrl. 188500729). The Minutes were submitted for consideration and approval of the School Board.	
	Decision of SB	The School Board of School of Sciences considered and approved the above agenda item.	
	SB 65.7.4	To consider and recommend the additional list of course writers for the Elective courses of Zoology "Insect Vectors and Vector Borne Diseases (BZYET-143) and "Insect Vectors and Vector Borne Diseases: Laboratory (BZYEL-144)" for BSCG with Zoology.	SB 65.7.4.1
	Matter for Discussion	The Discipline of Life Sciences submitted the following list of course writers for the courses " Insect Vectors and Vector Borne Diseases (BZYET-143) and " Insect Vectors and Vector Borne Diseases: Laboratory (BZYEL-144) " for BSCG with Zoology for consideration and recommendation of the School Board of School of Sciences and for further approval of the competent authority: 1. Dr. Debjani Dey 2. Dr. Sarita Kumar	

		Principal Scientist IARI, Pusa, New Delhi-110012 Mobile: 9818351283	Associate Professor (Zoology) Acharya Narender Dev College Kalkaji, New Delhi- 110009 Mobile: 9810309912	
		<p>3. Dr. Kamal Kumar Gupta Associate Professor (Zoology) Deshbandhu College Kalkaji University of Delhi, New Delhi-110009 Mobile: 9811822010</p> <p>5. Dr. R. Sagar Assistant Professor (Zoology) Deshbandu College Kalkaji University of Delhi, New Delhi-110009 Mobile: 8447128330</p>	<p>4. Dr. S. Singh Assistant Professor (Zoology) DAV College, Dehradun Uttarakhand-248001 Mobile: 8392816369</p>	
	Decision of SB	The School Board of School of Sciences considered and recommended the above names as course writers of Life Sciences courses for further approval of the competent authority.		
	SB 65.7.5	To consider and recommend the names of the course writers for the elective courses "Immunology (BZYET-141) and Immunology: Laboratory (BZYEL-142)" for BSCG with Zoology.		SB 65.7.5.1.
	Matter for Discussion	The Discipline of Life Sciences submitted the names of the course writers for the elective course " Immunology (BZYET-141) and Immunology: Laboratory (BZYEL-142) " for BSCG with Zoology for consideration and recommendation of the School Board of School of Sciences and for further approval of the competent authority.		
	Decision of SB	The School Board considered and recommended the list of names of the course writers of Zoology courses for further approval of the competent authority.		
	SB 65.7.6	To consider and approve the name of Editor for the elective course "Immunology (BZYET-141)" of BSCG programme with Zoology under UGC-CBCS.		
	Matter for Discussion	The Discipline of Life Sciences submitted the following name for the Editor of the elective course " Immunology (BZYET-141) for		

		consideration and approval of the School Board of School of Sciences: Prof. Surya S Singh, Dept. of Biochemistry Osmania University, Hyderabad-500 007 Telangana Mobile: 9848450411 Email: suryasingh.oubioc@gmail.com	
	Decision of SB	The School Board considered and approved the name of Prof. Surya S. Singh as Editor for the elective course " <i>Immunology (BZYET-141)</i> " of BSCG programme with Zoology under UGC-CBCS.	
	SB 65.7.7.	To consider and approve the name of Editor for elective course "Immunology: Laboratory (BZYEL-142)" of Zoology of BSCG programme under UGC-CBCS.	
	Matter for Discussion	The Discipline of Life Sciences submitted the following name of Editor for elective course " <i>Immunology: Laboratory (BZYET-142)</i> " for consideration and approval of the School Board of School of Sciences: Prof. K. Lakshmi Devi Department of Biochemistry S. K. University, Anantapuramu-515003 Andhra Pradesh Mob: 9885264125 Email: klakshmidelibio@gmail.com	
	Decision of SB	The School Board considered and recommended the name of Prof. K. Lakshmi Devi as an Editor for the elective course " <i>Immunology: Laboratory (BZYEL-142)</i> " of Zoology of BSCG programme under UGC-CBCS.	
	SB 65.7.8	To consider and recommend the names of paper-setters, evaluators and members of moderation board for the course "Physiology and Biochemistry (BZYCT-135)" being offered as core course in BSCG with Zoology.	SB 65.7.8.1., SB 65.7.8.2 and SB 65.7.8.3
	Matter for Discussion	The Discipline of Life Sciences submitted the names of paper-setters, evaluators and members of moderation board for the course " <i>Physiology and Biochemistry (BZYCT-135)</i> " being offered as core course in BSCG with Zoology for consideration and recommendation of the School Board of School of Sciences and for further approval of the competent authority.	
	Decision of SB	The School Board considered and recommended the lists of Paper Setters, Evaluators and Members of Moderation Board submitted by the Discipline of Life Sciences for further approval of the competent authority.	
	SB 65.7.9.	To consider and recommend the names of paper-setters,	SB 65.7.9.1,

		evaluators and members of moderation board for the course "Genetics and Evolutionary Biology (BZYCT-137)" being offered as core course in BSCG with Zoology.	SB 65.7.9.2 and SB 65.7.9.3
	Matter for Discussion	The Discipline of Life Sciences submitted the lists of names of paper-setters, evaluators and members of moderation board for the course " Genetics and Evolutionary Biology (BZYCT-137) " being offered as core course in BSCG with Zoology for consideration and recommendation of the School Board of School of Sciences and for further approval of the competent authority.	
	Decision of SB	The School Board considered and recommended the lists of Paper Setters, Evaluators and Members of moderation Board submitted by the Discipline of Life Sciences for the approval of the competent authority.	
	SB 65.7.10.	To consider and approve the name of Editor for the two blocks pertaining to Anatomy Component of the Core Course Botany (BBYCT-135) – Paper II (Plant Anatomy and Embryology) and Plant Anatomy and Embryology –Laboratory (BBYCL-136).	--
	Matter for Discussion	The Discipline of Life Sciences submitted the following name as an Editor for two blocks pertaining to Anatomy Component of the Core Course Botany (BBYCT-135) – Paper II (Plant Anatomy and Embryology) and Plant Anatomy and Embryology –Laboratory (BBYCL-136) for consideration and approval of the School Board of School of Sciences: Dr. A.K. Kavathekar Associate (Retd.) Department of Botany Sri Venkateswara College Dhaulta Kuan, New Delhi-110021 (R) AG-1/190-B, DDA MIG Flats Vikaspuri , New Delhi-110018 Tel. 2553011, M: 9958360208	
	Decision of SB	The School Board of School of Sciences considered and approved the name of Dr. A.K. Kavathekar as an Editor for the two blocks pertaining to Anatomy Component of the Core Course Botany (BBYCT-135) – Paper II (Plant Anatomy and Embryology) and Plant Anatomy and Embryology –Laboratory (BBYCL-136).	
	SB 65.7.11.	To consider and recommend the additional names of Paper Setters, Evaluators and Members of Moderation Board for the courses in Life Sciences (Botany) for BSCG under UGC CBCS programme: BBYCT-131, BBYCT-133, & BBYCT-135.	SB 65.7.11.1, SB 65.7.11.2
	Matter for Discussion	The Discipline of Life Sciences submitted the additional names of Paper Setters, Evaluators and Members of Moderation Board for the courses in Life Sciences (Botany) for BSCG under UGC CBCS programme: BBYCT-131, BBYCT-133, & BBYCT-135 for	

		consideration and recommendation of the School Board of School of Sciences and for further approval of the competent authority.	
	Decision of SB	The School Board of School of Sciences suggested that separate lists for Paper Setters and Evaluators be submitted for the courses mentioned above. With the suggestion, the School Board considered and recommended the lists of Paper Setters, Evaluators and Members of moderation Board submitted by the Discipline of Life Sciences for the approval of the competent authority.	
	SB 65.7.12.	To consider and approve the name of editor for the Core Course <i>Plant Physiology and Metabolism of Botany (BBYCL-138)</i> –Laboratory course of 2 credits.	
	Matter for Discussion	The Discipline of Life Sciences submitted the following name as an Editor for the Core Course <i>Plant Physiology and Metabolism of Botany (BBYCL-138)</i> –Laboratory course of 2 credits for consideration and approval of the School Board of School of Sciences: Prof. G.C. Srivastava Professor (Retd.) IARI, Pusa, Delhi – 110 012. Resi: EA/16 Maya Enclave, New Delhi – 110 064. Mobile: 9810607845.	
	Decision of SB	The School Board of School of Sciences considered and approved the name of Prof. G.C. Srivastava as an Editor for the Core Course <i>Plant Physiology and Metabolism of Botany (BBYCL-138)</i> – Laboratory course of 2 credits.	
SB 65.8	To consider and approve agenda Items pertaining to the Discipline of Mathematics		
	SB 65.8.1	To consider and recommend Ms. Nirmala Devi, as an evaluator for MMTP-001, the Project Course of the M.Sc(MACS) Programme.	--
	Matter for Discussion	The Discipline of Mathematics submitted the following name as an evaluator for MMTP-001, the Project Course of the M.Sc. (MACS) Programme before the School Board of School of Sciences for consideration and further recommendation for the approval of the competent authority. Ms.Nirmala Devi Associate Professor Dept of MCA	

Guru Nanak College
Chennai 600042
Mobile: 9080465705
email: csnirmalamca@gmail.com

Decision of SB

The School Board of School of Sciences **considered** the name of Ms. Nirmla Devi as an **Evaluator** for MMTP-001, the Project Course of the M.Sc. (MACS) Programme and **recommended** the same for further **approval** of the competent authority.

SB 65.8.2

To consider and approve the names of the following resource persons as members of the Review Committee for review of IV Semester BSCG course, Algebra (BMTC-134).

Matter for Discussion

The Discipline of Mathematics submitted the names of the following resource persons as members of the Review Committee for review of the IV Semester BSCG course, Algebra (BMTC-134) before the School Board of School of Sciences for consideration and approval:

<p>1. Prof. Parvati Shastri (Retd.) Centre for Excellence in the Basic Sciences, University of Mumbai 91-9833694356 parvati.shastri@gmail.com</p>	<p>2. Prof. Dinesh Khurana Deptt. of Mathematics, Panjab University, Chandigarh 91-9417631373 dkhurana@pu.ac.in</p>
<p>3. Prof. Meena Sahai Deptt. of Mathematics, Lucknow University, Lucknow 91-9452042422, 0522-2320811 sahai_m@lkouniv.ac.in, meena_sahai@hotmail.com</p>	<p>4. Dr. Amit Kulshrestha Associate Professor Faculty of Mathematics, IISER, Mohali 91-9988084466 amitk@iisermohali.ac.in</p>
<p>5. Dr. Radha Mohan Associate Professor Deptt. of Mathematics, St. Stephen's College, University of Delhi 91-9818556911 radhamohan1965@gmail.com</p>	<p>6. Dr. Pooja Yadav Assistant Professor (Sr. Scale) Deptt. of Mathematics, Kamla Nehru College, University of Delhi 91-9711397503 iitd.pooja@gmail.com</p>
<p>7. Dr. B. Prajapati Assistant Professor School of Liberal Studies, Ambedkar University, Delhi 91-9810268268 bprajapati82@gmail.com</p>	<p>8. Dr. Indrakshi Dutta Associate Professor Deptt. of Mathematics, Jesus and Mary College, University of Delhi 91-9810646675 duttaindrakshi@gmail.com</p>

	Decision of SB	The School Board of School of Sciences considered and approved the above names of resource persons as members of the Review Committee for review of the IV Semester BSCG course, Algebra (BMTC-134).	
SB 65.9	To consider and approve agenda Items pertaining to the Discipline of Physics		
	SB. 65.9.1	To consider and recommend the names of course writers for the courses BPHCL-138 (Waves and Optics: Laboratory), BPHET-141 (Elements of Modern Physics) and BPHEL-142 (Elements of Modern Physics: Laboratory) to be offered in the fourth and fifth semesters of the BSCG programme under UGC-CBCS.	SB 65.9.1.1
	Matter for Discussion	The Physics Discipline Group is in the process of developing courses in the BSCG programme under UGC-CBCS. Hence, the Discipline submitted a list of names of the Course Writers for consideration and recommendation of the School Board of School of Sciences for further approval of the competent authority.	
	Decision of SB	The School Board of School of Sciences considered and recommended the names of course writers given in the list for the courses BPHCL-138 (Waves and Optics: Laboratory), BPHET-141 (Elements of Modern Physics) and BPHEL-142 (Elements of Modern Physics: Laboratory) to be offered in the fourth and fifth semesters of the BSCG General programme under UGC-CBCS for further approval of the competent authority.	
	SB. 65.9.2	To consider and approve the names of the Editors for the courses BPHCL-138 (Waves and Optics: Laboratory), BPHET-141 (Elements of Modern Physics), and BPHEL-142 (Elements of Modern Physics: Laboratory) of the BSCG General programme under UGC-CBCS.	SB 65.9.2.1
	Matter for Discussion	The Physics Discipline Group is in the process of developing courses in the BSCG programme under UGC-CBCS. Hence, the Discipline has submitted a list of names of the Editors for consideration and approval of the School Board of School of Sciences.	
	Decision of SB	The School Board of School of Sciences considered and approved the names of the Editors for the courses <i>BPHCL-138 (Waves and Optics: Laboratory)</i> , BPHET-141 (Elements of Modern Physics), and BPHEL-142 (Elements of Modern Physics: Laboratory) of the BSCG programme under UGC-CBCS submitted by the Discipline of Physics.	
	SB. 65.9.3	To consider and approve a minor modification in the title of Experiment 1 of the 2-credit Laboratory course BPHCL-136 entitled "Thermal Physics and Statistical Mechanics: Laboratory" of the BSCG programme under UGC-CBCS.	SB 65.9.3.1.1

	Matter for Discussion	It was submitted by the Discipline of Physics that the syllabus of the course BPHCL-136 (<i>Thermal Physics and Statistical Mechanics: Laboratory</i>) was approved in the 63 rd meeting of the School Board of School of Sciences on 8 th March 2019. While developing the course material for this laboratory course, the Discipline Group received feedback that Experiment 1 entitled " <i>Measurement of Planck's constant using black body radiation</i> " is being conducted in the UG laboratories of all Study Centers using different methods. In view of this feedback, it was proposed that the title of the Experiment-1 be truncated by deleting the phrase " <i>black body radiation</i> " and be modified as follows: <i>"Measurement of Planck's constant"</i> .	
	Decision of SB	The School Board of School of Sciences considered and approved the above decision of the Discipline of Physics.	
	SB 65.9.4.	To consider and recommend the names of additional evaluators for the Physics courses of the B.Sc., and BSCG programmes.	SB 65.9.4.1
	Matter for Discussion	The Discipline of Physics submitted additional names of evaluators for the Physics electives of the B.Sc., and BSCG programmes for consideration and recommendation of the School Board of School of Sciences for further approval of the competent authority.	
	Decision of SB	The School Board of School of Sciences considered and recommended the names of additional evaluators for the Physics electives of the B.Sc., and BSCG programmes submitted by the Discipline of Physics for further approval of the competent authority.	
	SB 65.9.5.	To consider and approve the recommendations of the Doctoral Committee in Physics made in its meeting held on 14th February, 2020.	SB 65.9.5.1
	Matter for Discussion	The Discipline of Physics submitted the Minutes of the Doctoral Research Committee meeting held on 14 th February, 2020. The following agenda items were discussed in the meeting: 1. To review the progress report of Ms. Richa Jain [En.No.144500034], PhD scholar of Physics. 2. To evaluate the pre-submission seminar of Ms. Richa Jain [En.No.144500034], PhD Scholar of Physics.	
	Decision of SB	The School Board of School of Sciences considered and approved the recommendation of the Doctoral Research Committee Meeting of the Discipline of Physics held on 14 th February, 2020.	
	SB 65.9.6	To consider and approve the list of examiners for the evaluation of the thesis of Ph. D(Physics) scholar Ms. Richa Jain(144500034) registered for Ph. D with Prof. S. Gokhale on the topic "<i>Correlation of structural, electrical and</i>	The list is given in a separate confidential cover.

		<i>magnetic properties of undoped and rare earth doped ferrite nanopowders".</i>	
	Matter for Discussion	The Discipline of Physics submitted the list of Examiners for Ph.D. thesis evaluation of Ms. Richa Jain (Enrollment No.144500034) registered in the Ph.D. Physics Programme for consideration and approval of the School Board of School of Sciences.	
	Decision of SB	The list of Examiners for evaluation of thesis of Ms. Richa Jain (Enrollment No.144500034) was read out before the Board members. The School Board of School of Sciences approved the list of examiners and advised that the approved list of examiners should not be circulated as a part of Minutes but be forwarded in a confidential cover to the Research Unit, IGNOU after the Minutes are approved.	
SB 65.10 (Statistics)	To consider and approve agenda Item pertaining to the Discipline of Statistics.		
	SB 65.10.1	To consider and approve the minutes of the meeting of 14th Doctoral Research Committee in Statistics held on 25th February 2020 to review the progress reports of the candidates enrolled in Ph.D. in Statistics.	SB 65.10.1.1
	Matter for Discussion	The Discipline of Statistics submitted the Minutes of 14 th Doctoral Research Committee meeting held on 26 th February 2020. The following agenda items were discussed and finalized in the meeting for consideration and approval of the School Board of School of Sciences: i. To review six monthly progress reports of two PhD research scholars, Mr. Purnendukisor Bandyopadhyay [En.No.173101972] and Ms. Meenakshi Pachori [En.No.179342563]; and ii. To consider minor change in the title of the PhD thesis of research scholar Mr. Purnendukisor Bandyopadhyay [En.No.173101972].	
	Decision of SB	The School Board of School of Sciences considered the recommendations of 14 th Doctoral Research Committee in Statistics and approved the same.	
	SB 65.10.2	To consider and approve the Programme Revision Form of Ph.D. Statistics programme and the Minutes of the Expert Committee Meeting held on 21st February, 2020 for designing the syllabi of two Pre-PhD courses.	SB 65.10.2.1, SB 65.10.2.2 and SB 65.10.2.3
	Matter for Discussion	It was submitted by the Discipline of Statistics that the Ph.D. programme in Statistics had been on offer from January 2014 cycle. The programme comprises Pre-Ph.D. courses worth 16 credits of which, there are 3 core compulsory courses each of 4 credits and 1	

		<p>elective course in area of Sampling Design of 4 credits which had been designed in 2016. Now the discipline decided to add two more electives in the area of Reliability and Statistical Inference. Accordingly the Statistics discipline held an Expert Committee meeting on February 21, 2020, to design the syllabi of two Pre-Ph.D. Courses of Ph.D. Statistics programme as per UGC 2016 regulations. The Phase-1 form and concept note of the Ph.D. in Statistics programme was approved by the 5th SBSC held on April 2013, 46th School board held on May 15, 2013 and 21st Research Council held on June 7, 2013. Hence, the Programme Revision Form of Ph.D. Statistics programme for adding two Pre-Ph.D. Courses and the minutes of the Expert Committee meeting along with syllabi of two Pre-Ph.D. Courses of Ph.D. Statistics programme were placed before the School Board of School of Sciences for consideration and approval.</p>	
	<p>Decision of SB</p>	<p>The School Board of School of Sciences considered the above agenda item. One of the members of the School Board gave some suggestions on the syllabi of the courses and suggested some more reference books. The suggestions were incorporated and the agenda was approved.</p>	

(Prof. Poornima Mital)
Chairperson and Director of the School of Sciences

Prof. Poornima Mital
Director, SOS, IGNOU
13/03/2020