

The following members were present:

1.	Prof. Poornima Mital	--	Chairperson
2.	Prof. Sunil Kumar, Associate Professor, SoMS, IGNOU	--	Member (Other School)
3.	Ms. Poonam Bhushan, Associate Professor, SoE, IGNOU	--	Member (Other School)
4.	Prof. Parmod Kumar, Associate Professor, SoH, IGNOU	--	Member (Other School)
5.	Prof. Parvin Sinclair	--	Member
6.	Prof. Vijayshri	--	Member
7.	Prof. Sunita Malhotra	--	Member
8.	Prof. Sujatha Varma	--	Member
9.	Prof. Jaswant Sokhi	--	Member
10.	Prof. Bharat Inder Fozdar	--	Member
11.	Prof. Neera Kapoor	--	Member
12.	Prof. S. R. Jha	--	Member
13.	Prof. Javed A. Farooqi	--	Member
14.	Prof. Amrita Nigam	--	Member
15.	Prof. Bano Saidullah	--	Member
16.	Prof. Sanjiv Kumar	--	Member
17.	Prof. M.S. Nathawat	--	Member
18.	Prof. Lalita S. Kumar	--	Member
19.	Prof. Shubha Gokhale	--	Member
20.	Prof. Kamalika Banerjee	--	Member
21.	Prof. Subhakant Mohapatra	--	Member
22.	Dr. Sanjay Gupta	--	Member
23.	Dr.M. Prashanth	--	Member
24.	Dr. Manish Trivedi	--	Member
25.	Dr. Mohammed Abdul Kareem	--	Member
26.	Dr. Vishal Warpa	--	Member
27.	Mr. Pawan Kumar	--	Member

Prof. C.R.K Murthy, Professor, STRIDE could not attend the meeting.

At the outset, the Chairperson welcomed all the Members of the School Board. She thanked the outgoing external members and Prof.M.S. Nathawat the outgoing Director of the School, for their valuable contribution to the School Board. The Director shared with the members, the course-wise online admission data available with her for all the courses offered by the School for the July 2019 session of the CBCS-UGC Programme.

The following agenda items were deliberated upon:

**MINUTES OF THE SIXTY FOURTH MEETING OF THE SCHOOL BOARD OF
SCHOOL OF SCIENCES HELD ON 6TH SEPTEMBER 2019 AT 11.00 AM**

2019

AGENDA NO.	SUB-AGENDA NO.	AGENDA	ANNEXURE
SB 64.1		To consider and approve the Minutes of 63rd Meeting of School Board of School of Sciences held on 8th March 2019 and the Action Taken Report on the Minutes.	SB 64.1.1.1 & SB 64.1.1.2
	Matter for Discussion	The Chairperson informed the Board that the Minutes of 63 rd Meeting of School Board of School of Sciences held on 8 th March 2019 were circulated to all the members and no comments were received. The Chairperson proposed that the Minutes may be approved.	
	Decision of SB	The School Board approved the minutes of the 63 rd School Board Meeting and also took note of the Action Taken Report.	
	Matters arising out of the Minutes	The School Board reiterated that the decisions taken in the School Board should be within the limit of the Statues of the University.	
SB 64.2		To consider and approve the Minutes of 25th Meeting of Standing Committee of School Board of Sciences held on 14th June 2019.	SB 64.2.1.1
	Matter for Discussion	The Minutes of the meeting of 25 th Standing Committee of the School Board of School of Sciences held on 14 th June 2019 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 25 th SBSC of the School.	
SB 64.3		To consider and nominate External Members under Clause (2)(e) of Statute 10A for the School Board of School of Sciences.	--
	Matter for Discussion	<p>The Board was informed that the following External Members have completed their term under Clause (2)(e) of Statute 10A on 8th March 2019;</p> <ol style="list-style-type: none"> 1. Prof. Ranjit Kishore Mishra, Professor of Biochemistry 2. Prof. Gurmeet Singh, Professor of Chemistry 3. Prof. Harjit Singh, Professor of Geography 4. Prof. Rakesh Srivastava, Professor of Statistics 5. Prof. Reena Mathur, Professor of Zoology <p>The School Board of School of Sciences in its 45th meeting held on 28th September 2012, vide item No.5 [SB 45.5.1] devised a criteria for co-opting the external members to its board.</p> <p><i>"It was decided that since there are 8 Disciplines in the School and there is provision for co-opting only 5 external members under Clause (2) (e) of Statute 10A, 2 members will be co-opted from the earlier Discipline of Chemistry, Physics, Life Sciences and Mathematics; 2 members would be co-opted from the new Disciplines of the School in alphabetical order and the fifth member would be co-opted from either Disciplines through rotation. The</i></p>	

		<p><i>Disciplines that remain unrepresented would invite special invitee to the School Board from the names approved by the School Board as and when required."</i></p> <p>Accordingly, the Disciplines of Physics, Mathematics, Geology, Geography and Life Sciences, proposed the following names of external experts:</p> <table border="1" data-bbox="496 490 1313 1335"> <tr> <td data-bbox="496 490 906 808"> <p><u>From the Discipline of Geography</u> Prof. Sachidanand Sinha, Centre for the Study of Regional Development (CSRD), JNU, New Delhi – 110 067 Mobile: 9868354019 Email: sachisinha@mail.jnu.ac.in</p> </td> <td data-bbox="906 490 1313 808"> <p><u>From the Discipline of Geology</u> Prof. R. Baskar, Dept. of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar-125001. Ph:91-1662-263325 (O) Mobile: 09416439339 Email: rbaskargjuhisar@yahoo.com</p> </td> </tr> <tr> <td data-bbox="496 808 906 1099"> <p><u>From the Discipline of Physics</u> Prof. S.C. Garg, Professor of Physics (Retd.) School of Sciences, IGNOU. Presently Vice Chancellor, Usha Martin University, Ranchi, Jharkhand-835221.</p> </td> <td data-bbox="906 808 1313 1099"> <p><u>From the Discipline of Mathematics</u> Prof. B. Sri Padmavati, Dept. of Mathematics and Statistics, University of Hyderabad, Gachibowli, Hyderabad – 500 046 Email: bpsm@uohyd.ernet.in Mobile: 09849639796</p> </td> </tr> <tr> <td data-bbox="496 1099 906 1335"> <p><u>From the Discipline of Life Sciences</u> <u>Botany</u> Prof. A.K. Bhatnagar, Retired Professor, Dept. of Botany, Delhi University. (Resi.) JA/4B, Ashok Vihar-1, Delhi-110052. Mobile: 9810376885</p> </td> <td data-bbox="906 1099 1313 1335"> <p><u>Zoology</u> Prof. Neeta Sehgal, Dept. of Zoology, University of Delhi, Delhi.</p> </td> </tr> </table> <p>The name of the external expert from Zoology was proposed to be approved as the Special Invitee</p>	<p><u>From the Discipline of Geography</u> Prof. Sachidanand Sinha, Centre for the Study of Regional Development (CSRD), JNU, New Delhi – 110 067 Mobile: 9868354019 Email: sachisinha@mail.jnu.ac.in</p>	<p><u>From the Discipline of Geology</u> Prof. R. Baskar, Dept. of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar-125001. Ph:91-1662-263325 (O) Mobile: 09416439339 Email: rbaskargjuhisar@yahoo.com</p>	<p><u>From the Discipline of Physics</u> Prof. S.C. Garg, Professor of Physics (Retd.) School of Sciences, IGNOU. Presently Vice Chancellor, Usha Martin University, Ranchi, Jharkhand-835221.</p>	<p><u>From the Discipline of Mathematics</u> Prof. B. Sri Padmavati, Dept. of Mathematics and Statistics, University of Hyderabad, Gachibowli, Hyderabad – 500 046 Email: bpsm@uohyd.ernet.in Mobile: 09849639796</p>	<p><u>From the Discipline of Life Sciences</u> <u>Botany</u> Prof. A.K. Bhatnagar, Retired Professor, Dept. of Botany, Delhi University. (Resi.) JA/4B, Ashok Vihar-1, Delhi-110052. Mobile: 9810376885</p>	<p><u>Zoology</u> Prof. Neeta Sehgal, Dept. of Zoology, University of Delhi, Delhi.</p>	
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<p><u>From the Discipline of Physics</u> Prof. S.C. Garg, Professor of Physics (Retd.) School of Sciences, IGNOU. Presently Vice Chancellor, Usha Martin University, Ranchi, Jharkhand-835221.</p>	<p><u>From the Discipline of Mathematics</u> Prof. B. Sri Padmavati, Dept. of Mathematics and Statistics, University of Hyderabad, Gachibowli, Hyderabad – 500 046 Email: bpsm@uohyd.ernet.in Mobile: 09849639796</p>								
<p><u>From the Discipline of Life Sciences</u> <u>Botany</u> Prof. A.K. Bhatnagar, Retired Professor, Dept. of Botany, Delhi University. (Resi.) JA/4B, Ashok Vihar-1, Delhi-110052. Mobile: 9810376885</p>	<p><u>Zoology</u> Prof. Neeta Sehgal, Dept. of Zoology, University of Delhi, Delhi.</p>								
	<p>Decision of SB</p>	<p>The School Board deliberated the agenda item and decided to change the earlier criteria. It was agreed that 2 external members would be co-opted from the earlier Disciplines of Chemistry, Physics, Life Sciences and Mathematics; 2 members would be co-opted from the new Discipline of Statistics, Geography, Geology and Bio Chemistry and the 5th member would be co-opted from the Disciplines that remain unrepresented in alphabetical order with rotation till all 8 Disciplines are exhausted.</p> <p>Following the new criteria, the School Board co-opted the names given above by the Discipline of Geography, Geology, Physics and Mathematics. For the fifth member in alphabetical order, the Board authorized the Chairperson to include the name proposed by the Discipline of Biochemistry. Accordingly, the Biochemistry Discipline submitted the following External Member's name to the Chairperson:</p>							

		<p>Prof. Suneel Kateriya School of Biotechnology, JNU, New Delhi-110067 Mob: 9312315704 email: skateriya@jnu.ac.in, skateriya@hotmail.com</p> <p>The names approved by the SB will be sent to the competent authority for notification.</p>	
SB 64.4 (Biochemistry)	To consider and approve agenda items pertaining to the Discipline of Biochemistry.		
	SB 64.4.1	To consider and approve the Minutes of 12th Meeting of the Doctoral Research Committee held on 30th May 2018.	SB 64.4.1.1 & SB 64.4.1.2
	Matter for Discussion	<p>The 12th meeting of Doctoral Research Committee (DRC) of the Discipline of Biochemistry was held on 30th May, 2018 to consider and finalize the PhD Title along with the research synopsis of Ph.D. Candidates registered in the PhD. Biochemistry Programme in July 2017 Admission Cycle.</p> <p>The recommendations of the meeting of the DRC were placed as an Agenda Item No. SB 62.2.2 and discussed in the 62nd meeting of School Board of SOS held on 26^h Sept. 2018. During the discussion the School Board pointed out that the research topics recommended by the DRC involve work on animal samples and hence suggested that the approval for carrying out work on animals be taken from the organization concerned. The Board also suggested to take consent from the Co-supervisor, and then place the agenda item in the next School Board Standing Committee meeting for consideration.</p> <p>However, due to non-availability of relevant papers, the Discipline could not place the item in the next School Board Standing Committee meeting as suggested by 62nd School Board.</p> <p>The recommendations of 12th meeting of DRC along with relevant papers were placed before the School Board for consideration and approval.</p>	
	Decision of SB	The School Board considered and approved the recommendations of 12 th meeting of DRC of the Biochemistry Discipline.	
	SB 64.4.2	To consider and approve the list of Examiners for PhD thesis evaluation of Ms. Shikha Goel [En.No. PhD 144500120] registered in the Discipline of Biochemistry.	The list was placed in a confidential cover.
	Matter for Discussion	The list of Examiners for the Ph.D. thesis evaluation of Ms. Shikha Goel (Enrollment No.144500120) registered in the Ph.D. Biochemistry Programme was submitted in a Confidential Cover for the approval of the School Board of School of Sciences.	

	Decision of SB	The list of Examiners for the evaluation of thesis of Ms. Shikha Goel (Enrollment No.144500120) was read out before the members. The School Board 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 64.4.3	To consider and recommend the names of Paper Setters, Moderators and Evaluators for Pre-PhD courses for the PhD Programme of Discipline of Biochemistry.	SB 64.4.3.1, SB 64.4.3.2 & SB 64.4.3.3																				
	Matter for Discussion	The list of Paper Setters, Moderators and Evaluators for the following Pre-Ph.D. courses of the Ph.D. Biochemistry Programme were submitted for consideration and recommendation of the School Board. <table border="1" data-bbox="619 831 1189 1176"> <thead> <tr> <th>S.NO</th> <th>Course Codes</th> <th>Titles</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RBC-005</td> <td>Biological Macromolecules and Metabolism</td> </tr> <tr> <td>2</td> <td>RBC-006</td> <td>Molecular Cell Biology</td> </tr> <tr> <td>3</td> <td>RBC-007</td> <td>Enzymes and Enzyme Technology</td> </tr> <tr> <td>4</td> <td>RBC-010</td> <td>Clinical Biochemistry</td> </tr> </tbody> </table>	S.NO	Course Codes	Titles	1	RBC-005	Biological Macromolecules and Metabolism	2	RBC-006	Molecular Cell Biology	3	RBC-007	Enzymes and Enzyme Technology	4	RBC-010	Clinical Biochemistry						
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4	RBC-010	Clinical Biochemistry																					
	Decision of SB	The School Board considered and recommended the lists of Paper Setters, Evaluators and Moderators with the suggestion to include the names of external examiners also in the lists of evaluators and paper setters. The recommendation of the board will be put up for the approval of the competent authority.																					
	SB 64.4.4	To consider and recommend an additional list of Course Writers for the B.Sc (Hons.) Biochemistry Programme of CBCS.	SB 64.4.4.1																				
	Matter for Discussion	An additional list of names of Course Writers for the following Core Courses of B.Sc (Hons.) Biochemistry Programme of CBCS were placed for consideration and recommendation of the School Board. <table border="1" data-bbox="504 1680 1305 2002"> <thead> <tr> <th>Sl.No.</th> <th>Core Courses</th> <th>Course Code</th> <th>Course Coordinator</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Gene Organization</td> <td>BBCCT-117</td> <td>Dr. Maneesha Pandey</td> </tr> <tr> <td>2.</td> <td>Replication and Repair</td> <td>BBCCL-118</td> <td>Dr. Maneesha Pandey</td> </tr> <tr> <td>3.</td> <td>Concepts in Genetics</td> <td>BBCCT-121 & BBCCL-122</td> <td>Dr. Maneesha Pandey</td> </tr> <tr> <td>4.</td> <td>Molecular basis of non-infectious human diseases (Theory)</td> <td>BBCET-145</td> <td>Dr.Arvind K. Shakya</td> </tr> </tbody> </table>	Sl.No.	Core Courses	Course Code	Course Coordinator	1.	Gene Organization	BBCCT-117	Dr. Maneesha Pandey	2.	Replication and Repair	BBCCL-118	Dr. Maneesha Pandey	3.	Concepts in Genetics	BBCCT-121 & BBCCL-122	Dr. Maneesha Pandey	4.	Molecular basis of non-infectious human diseases (Theory)	BBCET-145	Dr.Arvind K. Shakya	
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		<table border="1"> <tr> <td>5.</td> <td>Tools and Techniques in Biochemistry</td> <td>BBCS-183</td> <td>Dr.Arvind K. Shakya</td> </tr> <tr> <td>6.</td> <td>Nutritional Biochemistry (Theory) & (Lab)</td> <td>BBCET-141 & BBCEL-142</td> <td>Dr. Seema Kalra</td> </tr> </table>	5.	Tools and Techniques in Biochemistry	BBCS-183	Dr.Arvind K. Shakya	6.	Nutritional Biochemistry (Theory) & (Lab)	BBCET-141 & BBCEL-142	Dr. Seema Kalra	
5.	Tools and Techniques in Biochemistry	BBCS-183	Dr.Arvind K. Shakya								
6.	Nutritional Biochemistry (Theory) & (Lab)	BBCET-141 & BBCEL-142	Dr. Seema Kalra								
	Decision of SB	The School Board considered the list of Course Writers of Biochemistry courses and recommended the list for further approval of the competent authority.									
	SB 64.4.5.	To consider and approve the Minutes of 16th and 17th Meetings of the Doctoral Research Committee of the Discipline of Biochemistry.		SB 64.4.5.1 & SB 64.4.5.2							
	Matter for Discussion	<p>The 16th and 17th Meetings of the Doctoral Research Committee were held on 26th July 2019 and 1st August 2019, respectively. The following agenda items were discussed in the meetings:</p> <ol style="list-style-type: none"> To consider and approve the synopsis of Ms. Asmita Bharti, En.No.PhD 188500363; To consider and approve six monthly Progress Reports of research scholars; To consider the request of Ms. Asmita Bharti, En.No.PhD 188500363 for conversion from Part-time to Full-time. To conduct Pre-PhD thesis submission seminar of Ms. Shikha Goel, En.No.PhD 144500120; To consider and approve the CV of External Supervisor (Dr. Pratima Ray, Jamia Hamdard); To consider the request of Ms. Jyoti Rastogi, En.No.PhD 138000593 for maternity leave. <p>The recommendations of the Doctoral Research Committee were placed for consideration and approval of the School Board.</p>									
	Decision of SB	The School Board considered and approved the recommendations of the 16 th and 17 th Doctoral Research Committees of the Biochemistry Discipline.									
	SB 64.4.6.	To consider and recommend the Memorandum of Agreement (MoA) to be signed between Registrar, IGNOU and Department of Biotechnology (DBT), Government of India.		SB 64.4.6.1. & SB 64.4.6.2							
	Matter for Discussion	As conveyed by the Registrar (Admn.), vide his communication dated 05.04.2019, in order to execute the MOA between IGNOU and DBT, Government of India, the Principal Investigator of the DBT project, SoS should get the recommendations from the School Board of School of Sciences. Accordingly, Dr. M. Abdul Kareem, the Principal Investigator of the DBT project, submitted a copy of the MoA for consideration and recommendation of the School Board of School of Sciences.									

	Decision of SB	The School Board appreciated the activities carried out by the Principal Investigator under this DBT Project and recommended the MoA for approval of the Vice-Chancellor. The School Board further request the Vice Chancellor that a mechanism be devised to expedite such approvals.															
SB 64.5 (Chemistry)	To consider and approve agenda items pertaining to the Discipline of Chemistry.		--														
	SB 64.5.1	To consider and approve the Minutes of the Doctoral Research Committee Meeting of the Discipline of Chemistry held on 19th June 2019.	SB 64.5.1.1														
	Matter for Discussion	<p>The Discipline of Chemistry submitted the recommendations of 56th Doctoral Research Committee Meeting of the Discipline held on 19th June 2019 for consideration and approval. The following agenda items were deliberated in the meeting:</p> <ol style="list-style-type: none"> To consider and approve change of co-supervisor of Mr. Yogesh Kumar, En.No.PhD 179342040; and To consider and approve modified research title of Mr. Yogesh Kumar, En.No.PhD 179342040: <table border="1" data-bbox="491 1055 1318 1294"> <thead> <tr> <th rowspan="2">Name & En.No.</th> <th colspan="2">PhD title</th> <th rowspan="2">Supervisor</th> </tr> <tr> <th>Old Title</th> <th>New Title</th> </tr> </thead> <tbody> <tr> <td>Mr. Yogesh Kumar, En.No.PhD 179342040;</td> <td><i>Development of organic Nanomaterial based biosensors for Cancer detection</i></td> <td><i>Synthesis, Characterisation and Applications of Nanomaterials</i></td> <td>Prof. Lalita S. Kumar, SoS, IGNOU.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name & En.No.	PhD title		Supervisor	Old Title	New Title	Mr. Yogesh Kumar, En.No.PhD 179342040;	<i>Development of organic Nanomaterial based biosensors for Cancer detection</i>	<i>Synthesis, Characterisation and Applications of Nanomaterials</i>	Prof. Lalita S. Kumar, SoS, IGNOU.					
Name & En.No.	PhD title			Supervisor													
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Mr. Yogesh Kumar, En.No.PhD 179342040;	<i>Development of organic Nanomaterial based biosensors for Cancer detection</i>	<i>Synthesis, Characterisation and Applications of Nanomaterials</i>	Prof. Lalita S. Kumar, SoS, IGNOU.														
	Decision of SB	The School Board considered and approved the recommendations of the Doctoral Research Committee of the Chemistry Discipline held on 19 th June 2019.															
	SB 64.5.2	To consider and approve the Minutes of 57th Meeting of the Doctoral Research Committee Meeting of the Discipline of Chemistry held on 21st August 2019.	SB 64.5.2.1														
	Matter for Discussion	<p>The Discipline of Chemistry submitted the recommendations of 57th Doctoral Research Committee Meeting of the Discipline held on 21st August 2019 for consideration and approval. The following agenda items were deliberated in the meeting:</p> <ol style="list-style-type: none"> To consider and finalize the research topic of Mr. Nabir Singh, En.No.188500507, PhD scholar of the Discipline of Chemistry; To assess first seminar presentation of Mr. Naveen Kumar Dubey, En.No.173101775; To consider and approve six monthly progress reports of the PhD research scholars of the Discipline of Chemistry; and 															

		4. Reporting of six monthly progress report submitted by Mr.Mohd. Abdur Rahman, En.No.179342603, PhD Scholar of Discipline of Chemistry.	
	Decision of SB	The School Board considered and approved the recommendations of the Doctoral Research Committee. The School Board noted the comment of the supervisor of Mr. Mohd. Abdur Rahman about the plagiarized six monthly report submitted by him. The Board suggested that suitable penalty may be administered, as per IGNOU PhD Regulations and norms to Mr.Mohd. Abdur Rahman and advised the Supervisor to take suitable action against him.	
SB 64.6 (Geography)	To consider and approve agenda items pertaining to the Discipline of Geography.		
	SB 64.6.1	To consider and approve the list of Examiners for the evaluation of PhD thesis of Ms. Ritvik Chauhan [En.No. PhD 131636472] PhD student in the Discipline of Geography.	The list was placed in a confidential cover.
	Matter for Discussion	The list of Examiners for the Evaluation of PhD thesis of Ms. Ritvik Chauhan (Enrolment No. 131636472) , a PhD scholar in the Discipline of Geography was submitted in a Confidential Cover for the approval of the School Board of School of Sciences.	
	Decision of SB	The list of Examiners for the evaluation of thesis of Ms. Ritvik Chauhan (Enrolment No. 131636472) was read out before the 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 approval of the Minutes.	
	SB 64.6.2	To consider and approve the list of Examiners for the evaluation of PhD thesis of Mr. Girish Kumar [En.No. PhD 138000626] PhD student in the Discipline of Geography.	The list was placed in a confidential cover.
	Matter for Discussion	The list of examiners for the PhD thesis evaluation of Mr. Girish Kumar (Enrolment No. 138000626) , PhD Student of Geography, was submitted in a Confidential Cover for the consideration and approval of the School Board of School of Sciences.	
	Decision of SB	The list of Examiners for the evaluation of thesis of Mr. Girish Kumar (Enrolment No. 138000626) was read out before the members. The School Board 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 approval of the Minutes.	
	SB 64.6.3	To consider and approve the list of Examiners for the evaluation of PhD thesis of Mr. Amarjeet [En.No. PhD 138001151] PhD student in the Discipline of Geography.	The list was placed in a confidential

			cover.						
	Matter for Discussion	The list of examiners for the PhD thesis evaluation of Mr. Amarjeet (Enrolment No. 138001151) , PhD Student of Geography was submitted in a Confidential Cover for the consideration and approval of the School Board.							
	Decision of SB	The list of Examiners for the evaluation of thesis of Mr. Amarjeet (Enrolment No. 138001151) was read out before the members. The School Board 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 64.6.4	To consider and approve the qualification for Academic Councillors for the Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181).	--						
	Matter for Discussion	<p>The Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE - 181) is going to be introduced from 2019 July cycle. This course is compulsory for all the learners of IGNOU pursuing CBCS Bachelor Degree Programme in the University. Environmental Studies is an interdisciplinary area of study. This has been part of curriculum and training in various disciplines namely Geography, Environmental Chemistry and Chemistry (Specialization in Environmental Chemistry) apart from the traditional disciplines of Botany, Zoology and Environmental Science. It was decided in the Course Team Meeting of AECC to include Botany, Zoology Environmental Science, Environmental Chemistry, Chemistry (Specialization in Environmental Chemistry) and Geography as subjects for qualification for the appointment of Academic Counselors. The qualifications for the appointment of Counselors are given below:</p> <p style="text-align: center;">Qualification for the Appointment of Counselors for the Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Sr. No.</th> <th>Course Title and Course Code</th> <th>Qualification for eligibility</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)</td> <td>All University and College teachers in the Discipline of Botany/Zoology/Environmental Sciences/ Geography/ Chemistry (Specialization in Environmental Chemistry).</td> </tr> </tbody> </table> <p>The above agenda item was placed before the School Board of the School of Sciences for consideration and approval.</p>	Sr. No.	Course Title and Course Code	Qualification for eligibility	1	Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)	All University and College teachers in the Discipline of Botany/Zoology/Environmental Sciences/ Geography/ Chemistry (Specialization in Environmental Chemistry).	
Sr. No.	Course Title and Course Code	Qualification for eligibility							
1	Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)	All University and College teachers in the Discipline of Botany/Zoology/Environmental Sciences/ Geography/ Chemistry (Specialization in Environmental Chemistry).							
	Decision of SB	The School Board deliberated on the agenda item. The Board suggested some modification in the qualification of the counselors to be appointed and advised that the Disciplines of Life Sciences, Biochemistry, Earth Sciences and Geology also be included in the subjects for qualification. With these modifications the board							

		approved the following qualification for the counselors of the Ability Enhancement Compulsory Course (AECC):							
		<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Course Title and Course Code</th> <th>Qualification for eligibility</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)</td> <td>All teachers from the Recognized University and College in the Disciplines of Botany/Zoology/ Environmental Sciences/ Geography/ Chemistry (Specialization in Environmental Chemistry) / Biochemistry/ Earth Science and Geology</td> </tr> </tbody> </table>	Sr. No.	Course Title and Course Code	Qualification for eligibility	1	Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)	All teachers from the Recognized University and College in the Disciplines of Botany/Zoology/ Environmental Sciences/ Geography/ Chemistry (Specialization in Environmental Chemistry) / Biochemistry/ Earth Science and Geology	
Sr. No.	Course Title and Course Code	Qualification for eligibility							
1	Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181)	All teachers from the Recognized University and College in the Disciplines of Botany/Zoology/ Environmental Sciences/ Geography/ Chemistry (Specialization in Environmental Chemistry) / Biochemistry/ Earth Science and Geology							
	SB 64.6.5	To consider and recommend the names of Paper Setters, Evaluators and Moderators for the Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181).	SB 64.6.5.1 SB 64.6.5.2 & SB 64.6.5.3						
	Matter for Discussion	The list of Paper Setters, Evaluators and Moderators for the Ability Enhancement Compulsory Course (AECC) on Environmental Studies (BEVAE-181) was placed for the consideration and approval of the School Board.							
	Decision of SB	The School Board considered and recommended the lists of AECC course with the suggestion to incorporate more names of eligible Paper Setter, Evaluators and Members for the Moderation Board in the light of the decision taken above in 64.6.4. The lists will be sent further for the approval of the competent authority.							
	SB 64.6.6	To consider and approve the Minutes of the Expert cum Course Design Committee Meeting for the Post Graduate Diploma in GeoSpatial Analysis and Modelling Programme held on June 19, 2019.							
	Matter for Discussion	An Expert cum Course Design Committee Meeting for the Post Graduate Diploma in <i>GeoSpatial Analysis and Modelling Programme</i> was held by the Discipline of Geography on June 19, 2019 . The Committee deliberated on the syllabi and the list of courses of the Programme and finalized the list of courses and unitized syllabi of the Programme. The Committee suggested for the modification of the title of the Programme as "Post Graduate Diploma in GIScience and GeoSpatial Analysis" from "Post Graduate Diploma in GeoSpatial Analysis and Modelling Programme" . The recommendations of the Expert cum Course Design Committee meeting with the final unitized syllabus were placed before the School Board for its consideration and approval.							
	Decision of SB	The School Board of School of Sciences considered and deliberated on the agenda item. The School Board suggested submitting the revised Phase-1 Form i.e. Programme Proposal Form (PPF) first for the approval of the School Board . Since there							

		are overlapping domains of areas, the Board advised that while planning and developing such programmes, the Disciplines of Geography and Geology should work together so that duplication of content in programmes offered by the School is avoided and the in-house expertise available in the two Disciplines utilized.	
	SB 64.6.7	To consider and approve the Minutes of the 43rd Doctoral Research Committee Meeting of Geography Discipline held on 31 July, 2019.	SB 64.6.7.1
	Matter for Discussion	<p>The 43rd Doctoral Research Committee Meeting of Geography Discipline was held on 31 July, 2019 to discuss the following agenda items:</p> <ol style="list-style-type: none"> 1. To consider and review the six monthly Progress Reports of the research scholars; 2. To consider and recommend the yearly progress reports of 13 MPhil and 5 PhD research scholars for monitoring the progress of the 'UGC Fellowship Scheme'; and 3. To consider and recommend minor correction in the approved research topic of Mr. Karma Loday Tamang, En.No. PhD 179342366. <p>The recommendations of the Doctoral Committee were placed for consideration and approval of the School Board.</p>	
	Decision of SB	The School Board considered and approved the recommendations of the 43 rd Doctoral Research Committee of Geography Discipline with the suggestion that in the six monthly progress reports of the research scholars, the topics of their research be mentioned.	
	SB 64.6.8	To consider and approve the additional names of Translators for B. Sc. Programme in Geography.	
	Matter for Discussion	The list of Translators for B.Sc. Programme in Geography is placed for consideration and recommendation of the School Board of School of Sciences.	
	Decision of SB	The School Board considered and recommended the translators for B.Sc Programme in Geography with the suggestion that official affiliation of the translators be mentioned. The recommendations of the School Board will be put up for further approval of the competent authority.	
	SB 64.6.9	To consider and approve the minutes of the 42nd Doctoral Research Committee meeting held on 8th July 2019, for the consideration and approval of final synopsis along with Research Supervisor of Mr. Ashwani Parmar enrolled in Ph.D. (Geography) Programme during July 2018 Admission Cycle.	SB 64.6.9.1, SB 64.6.9.2 and SB 64.6.9.3

	Matter for Discussion	<p>The 40th Doctoral Research Committee Meeting of Geography held on 24th April, 2019 approved the final synopsis along with Research Supervisor in absentia of Mr. Ashwani Parmar. The minutes of DRC were placed for approval before the 25th School Board Standing Committee (SBSC) Meeting of School of Sciences held on 14th June, 2019. The Committee advised that Mr. Ashwani Parmar should come in person and present his synopsis before the DRC for approval. Subsequent to the approval of 40th DRC, the agenda item, to consider and approve the final synopsis along with Research Supervisors of the Research Scholars enrolled in Ph.D. and M.Phil. (Geography) Programs during July 2018 Cycle with minutes of the DRC held on 24th April, 2019 was placed before the 19th Research Council Standing Committee Meeting of Research Unit held on 19th July, 2019.</p> <p>However, the 19th RCSC approved the final synopsis along with Research Supervisor of Mr. Ashwani Parmar along with rest of the cases of the Discipline of Geography recorded in the minutes, vide item no. RCSC 19.4 (page no. 13), 19.4.1 (page no's. 14 & 20) and 19.4.2 (page no. 26).</p> <p>Consequent to that, the advice given in the minutes of the 25th School Board Standing Committee Meeting of School of Sciences held on 14th June, 2019 regarding Mr. Ashwani Parmar was communicated to the Research Unit with a request to consider his case later in the next RCSC.</p> <p>Following the recommendations of the 25th SBSC of the School, Mr. Ashwini Parmar presented his research synopsis in the 42nd DRC of Geography Discipline. The recommendations of 42nd Doctoral Research Committee meeting were placed before the School Board for consideration and approval.</p>													
	Decision of SB	The School Board of School of Sciences considered and approved the recommendations of the 42 nd Doctoral Research Committee of the Geography Discipline.													
	SB 64.6.10	To consider and approve the list of Examiners for the evaluation of M.Phil. Dissertations of 09 M.Phil. Scholars of the Discipline of Geography.	The lists were placed in the confidential covers.												
		<p>The lists of Examiners (in confidential covers) for the evaluation of M.Phil Dissertations of the following 09 M.Phil. Scholars of the Discipline of Geography were submitted for the consideration and approval of the School Board:</p> <table border="1" data-bbox="523 1697 1284 2022"> <thead> <tr> <th>Sl. no</th> <th>Name of the Scholar</th> <th>Topic of Research</th> <th>Research Supervisor(s)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Mr.Ghanshyam Singh Yadav En.No. 179342549 Date of Regn. 28/12/2017</td> <td><i>Assessment of Water Poverty in Bundelkhand Region: An Inter-District Analysis</i></td> <td>Prof. M.S. Nathawat</td> </tr> <tr> <td>2.</td> <td>Mr.Anurag Singh En.No. 179342524 Date of Regn.</td> <td><i>Form and Process in Alluvial Channels of Central Ganga</i></td> <td>Dr. K. Nageswara Rao</td> </tr> </tbody> </table>	Sl. no	Name of the Scholar	Topic of Research	Research Supervisor(s)	1.	Mr.Ghanshyam Singh Yadav En.No. 179342549 Date of Regn. 28/12/2017	<i>Assessment of Water Poverty in Bundelkhand Region: An Inter-District Analysis</i>	Prof. M.S. Nathawat	2.	Mr.Anurag Singh En.No. 179342524 Date of Regn.	<i>Form and Process in Alluvial Channels of Central Ganga</i>	Dr. K. Nageswara Rao	
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1.	Mr.Ghanshyam Singh Yadav En.No. 179342549 Date of Regn. 28/12/2017	<i>Assessment of Water Poverty in Bundelkhand Region: An Inter-District Analysis</i>	Prof. M.S. Nathawat												
2.	Mr.Anurag Singh En.No. 179342524 Date of Regn.	<i>Form and Process in Alluvial Channels of Central Ganga</i>	Dr. K. Nageswara Rao												

			28/12/2017	<i>Plain of Uttar Pradesh, India</i>	
		3.	Mr.Neeraj Kumar Mishra En.No. 179342398 Date of Regn. 28/12/2017	<i>Social Progress and Human Wellbeing: A Spatial Analysis of Awadh Region in Uttar Pradesh</i>	Dr. Subhakanta Mohapatra
		4.	Ms.Alpana Kumari En.No. 179342406 Date of Regn. 28/12/2017	<i>Health Care Facilities and Health Status in Bihar: Geographical Analysis</i>	Prof. M.S. Nathawat
		5.	Mr.Manendra Kumar En.No. 179342517 Date of Regn. 28/12/2017	<i>Assessing Livelihood Vulnerability of Diara Region with Special Reference to Flood: A Case Study of West Champaran, Bihar</i>	Dr. Vijay Kumar Baraik
		6.	Mr.Amit Kumar Chaurasia En.No. 179342491 Date of Regn. 28/12/2017	<i>Agro- Social Dynamics and Shift therein with Special Reference to Agricultural Workforce in Eastern Uttar Pradesh</i>	Dr. Vishal Warpa
		7.	Mr.Chandan Yadav En.No.179342500 Date of Regn. 28/12/2017	<i>Spatio-Temporal Inequalities in Socio-Economic Development in Uttar-Pradesh in Pre and Post Reform Periods (1991-2017): An Inter-District Analysis</i>	Dr. Vijay Kumar Baraik
		8.	Mr.Mahendra Yadav En.No. 179342484 Date of Regn. 28/12/2017	<i>An Assessment of Change in Common Property Resources and its Impacts on Socio-Economic Condition in Sonbhadra District, UP</i>	Prof. M.S. Nathawat
		9.	Mr.Birendra Kumar Roniyar En.No. 179342531 Date of Regn. 28/12/2017	<i>Assessment of Socio Economic Resilience to Natural Hazards in Uttarakhand</i>	Dr. Subhakanta Mohapatra

		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 of School of Sciences approved the lists of examiners and advised that the approved 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.	
SB 64.7 (Geology)	To consider and approve agenda items pertaining to the Discipline of Geology.		
	SB 64.7.1	To consider and approve the Minutes of 47th, 48th and 49th Meetings of the Doctoral Research Committee for Ph.D. programme in Geology held on 17th July, 25th July and 9th August, 2019, respectively.	SB 64.7.1.1 SB 64.7.1.2 SB 64.7.1.3
	Matter for Discussion	<p>The 47th, 48th and 49th Meetings of the Doctoral Research Committee of Geology were held on 17th July, 25th July and 9th August, 2019, respectively to discuss the following agenda items:</p> <ol style="list-style-type: none"> 1. To consider and review the six monthly Progress Reports of the Research Scholars; 2. To review the second work-in-progress seminar of Mr. Sarvesh Misra; and 3. To consider and recommend the request of Mr. Sarvesh Misra, En.No. 144500342 for one year extension of tenure of PhD programme. 	
	Decision of SB	The School Board of School of Sciences considered and approved the recommendations of the 47 th , 48 th and 49 th Doctoral Research Committees of Geology Discipline.	
	SB 64.7.2	To consider and approve the payment norms for the consumables of 2 credit Geology lab courses of B.Sc. (Geology) under UGC CBCS Programme.	SB 64.7.2.1
	Matter for Discussion	It was submitted by the Discipline of Geology that the Geology courses of B.Sc. under CBCS Programme is on offer from July 2019 cycle. In this regard the discipline proposes payment norms for the cost of consumables incurred by the study centre during practical counseling sessions of lab courses for each semester. The discipline calculated amount on the basis of average actual expenditure to be incurred for the 2 credit lab course for each semester at the study centre. The total amount incurred for each learner per semester is Rs. 873/- and it is rounded off to Rs. 875/-. Hence the amount of Rs. 875/- for the cost of consumables to be incurred during practical counseling sessions for each learner per semester for two credit lab course at the study centre may be approved.	
	Decision of SB	The School Board suggested the Discipline of Geology to re-calculate the cost to be incurred at the study centre on the practical counseling of two credit lab course per learner per semester by considering the charges for utilizing the lab facility, any expected	

		breakages and consumables. The Board advised the Disciplines of Geology and Geography to work together and submit the final revised cost along with Annexure to the Chairperson for getting the approval of the School Board by circulation.	
SB 64.8 (Life Sciences)	To consider and approve agenda items pertaining to the Discipline of Life Sciences.		
	SB 64.8.1	To consider and approve the Minutes of Course Design and Development Committee Meeting in the Discipline of Life Sciences held on 23.04.2019 and approve the syllabi for Core Course Botany Semester V of Botany (Theory – BBYET-141 and Laboratory- BBYEL-142) entitled "Cell and Molecular Biology" (for B.Sc. UGC-CBCS with Botany).	SB 64.8.1.1 & SB 64.8.1.2.
	Matter for Discussion	The Course Design and Development Committee Meeting in the Discipline of Life Sciences was held on 23.04.2019 to design and develop Core Course Semester V of Botany (Theory – BBYET-141 and Laboratory- BBYEL-142) entitled " Cell and Molecular Biology " (for B.Sc. CBCS with Botany). The syllabi of the courses were finalized. The recommendations of the course design committee and the syllabi of the courses were placed for consideration and approval of the School Board	
	Decision of SB	The School Board of School of Sciences considered and approved the syllabi of courses BBYET-141 and BBYEL-142.	
	SB 64.8.2	To consider and recommend the names of Vettors for Hindi Vetting of the Life Sciences courses in UGC-CBCS.	
	Matter for Discussion	The names of Vettors for Hindi Vetting of the Life Sciences courses in UGC-CBCS were placed for consideration and recommendation of the School Board.	
	Decision of SB	The School Board considered and recommended the names of Vettors for Hindi Vetting of Life Sciences Courses for further approval of the competent authority.	
	SB 64.8.3	To consider and approve the Minutes of Expert Committee Meeting in the Discipline of Life Sciences held on 19-6-2019 for B.Sc Programme under UGC CBCS.	SB 64.8.3.1 and SB 64.8.3.2.
	Matter for Discussion	An Expert Committee Meeting in the Discipline of Life Sciences was held on 19 th June, 2019 to finalize the syllabi of the Elective Courses – Economic Botany and Biotechnology (BBYET-143) Theory 4 Cr. and Economic Botany and Biotechnology Laboratory (BBYEL-144) 2 Cr., to be offered in Semester VI of the B.Sc Programme under UGC-CBCS. The recommendations of the Committee and the Syllabi of the courses were placed for consideration and approval of the School Board.	

	Decision of SB	The School Board considered and approved the syllabi of the courses BBYET-143 and BBYEL-144.			
	SB 64.8.4	To consider and recommend additional names Evaluators for the courses LSE-01, LSE-02, LSE-03, LSE-05 (II), LSE-06 (I), LSE-07, LSE-12, LSE-13 & LSE-14 (L).	SB 64.8.4.1		
	Matter for Discussion	The additional names of Evaluators for the courses LSE-01 (Cell Biology), LSE-02 (Ecology), LSE-03 (Genetic), LSE-05(II) (Physiology), LSE-06(I) (Developmental Biology), LSE-07 (Taxonomy and Evolution), LSE-12 (Plant Diversity-I), LSE-13 (Plant Diversity-II) & LSE-14(L) were placed for consideration and recommendations of the School Board.			
	Decision of SB	The School Board of School of Sciences considered and recommended the names of evaluators of Life Sciences courses for further approval of the competent authority.			
	SB 64.8.5	To consider and recommend the additional names of Members of Moderation Board, Paper setters and Evaluators for the courses LSE-01, LSE-02, LSE-05(I), LSE-06(II), LSE-10, BZYCT-131, BZYCT-133 and AHE-001.			
	Matter for Discussion	The following names of Members of Moderation Board, Paper setters and Evaluators for the courses LSE-01 (Cell Biology), LSE-02 (Ecology), LSE-05(I) (Physiology), LSE-06(II) (Developmental Biology), LSE-10 (Animal Diversity-II), BZYCT-131 (Animal Diversity), BZYCT-133 (Comparative Anatomy and Developmental Biology of Vertebrates) & AHE-01 (Human Environment) were placed for consideration and recommendation of the School Board <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Prof. Pushplata Tripathi Retired Professor, SOS, IGNOU M:9811033400, E-mail: ptripathi14g@gmail.com (R) D 188 Saket Delhi-110017 </td> <td style="width: 50%; padding: 5px;"> Prof. S.S. Hasan Retired Professor, SOS, IGNOU M: 9313544555 (R) E-136, Florence Residency, Sushant Lok II, Sector 56, Gurugram-122002 [Only for BZYCT-131 and BZYCT-133] </td> </tr> </table>	Prof. Pushplata Tripathi Retired Professor, SOS, IGNOU M:9811033400, E-mail: ptripathi14g@gmail.com (R) D 188 Saket Delhi-110017	Prof. S.S. Hasan Retired Professor, SOS, IGNOU M: 9313544555 (R) E-136, Florence Residency, Sushant Lok II, Sector 56, Gurugram-122002 [Only for BZYCT-131 and BZYCT-133]	
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	Decision of SB	The School Board of School of Sciences considered the additional names proposed by the Discipline of Life Sciences as Members of Moderation Board, Paper Setters and Evaluators for the above courses of Life Sciences and recommended the same for further approval of the competent authority.			
	SB 64.8.6	To consider and approve the additional name of External Expert for Doctoral Research Committee of Life Sciences.			
	Matter for Discussion	The Discipline of Life Sciences submitted an additional name of External Expert for Doctoral Committee of Life Sciences. The details			

		are as follows: Prof. Pushplata Tripathi Retired Professor, SOS, IGNOU M: 9811033400, E-mail: ptripathi14g@gmail.com (R) D 188 Saket Delhi-110017	
	Decision of SB	The School Board of School of Sciences considered and approved Prof. Pushplata Tripathi as external expert for DRC of Life Sciences.	
	SB 64.8.7.	To consider and recommend the name of Course Writer for Economic Botany and Biotechnology (BBYET-143) of the Core Course Botany– Semester VI of UGC-CBCS.	
	Matter for Discussion	The Discipline of Life Sciences submitted the following name as one of the Course Writers for Economic Botany and Biotechnology (BBYET-143) of the Core Course Botany– Semester VI for consideration and recommendation of the School Board. Dr. Meenakshi Prajneshu Associate Professor (Retd.) Deshbandhu College, Delhi University, Delhi-110019 M: 981228889 E-mail: prajeshum@gmail.com (R) Ground Floor, Sharda Niketan, Near Saraswati Vihar, Pitampura Delhi-110034	
	Decision of SB	The School Board considered and recommended the name of Dr.Meenakshi Prajneshu as course writer of the course BBYET-143. Her name will be sent for further approval of the competent authority.	
	SB 64.8.8	To consider and recommend the name of Editor for the Core Course in Zoology entitled Immunology (BZYET-141) to be offered in V Semester of UGC-CBCS.	
	Matter for Discussion	The following details of an Editor for Immunology (BZYET-141) Core Course of Zoology– Semester V were placed for consideration and recommendation of the School Board: Prof. Pratima Ray Department of Biotechnology, Jamia Hamdard University, Delhi-110062 M: 9811712425	

	Decision of SB	The School Board considered and recommended the name of Prof. Pratima Ray as the Editor of BZYET-141 for further approval of the competent authority.	
	SB 64.8.9.	To consider and approve the revised list of examiners for the thesis of Ms. Rekha Jaiswal (En.No. 122877855) Ph.D Scholar in the Discipline of Life Sciences.	The revised list of examiners was placed in a confidential cover
	Matter for Discussion	The list of examiners for evaluating the PhD thesis of Ms. Rekha Jaiswal [En. No. 122877855] , PhD student of Life Sciences, Discipline of Life Sciences was approved by the School Board of School of Sciences in its 63rd Meeting held on 8th March 2019 vide Agenda Item No.SB 63.7.9. However, as per the direction of the Honorable Vice Chancellor a revised list of examiners for evaluating the Ph.D. thesis of Ms Rekha Jaiswal, Ph.D. Scholar (Enrolment No. 122877855) was placed in a confidential cover before the School Board of School of Sciences for its consideration and approval.	
	Decision of SB	The revised list of Examiners for evaluation of thesis of Ms. Rekha Jaiswal (Enrolment No. 122877855) was read out before the Board members. The School Board of School of Sciences approved the revised 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 64.8.10.	To consider and approve the minutes of the Doctoral Committee meeting of Life Sciences held on 2nd August, 2019.	SB 64.8.10.1
	Matter for Discussion	A Meeting of the Doctoral Research Committee of Life Sciences was held on 2nd August, 2019 to discuss the following agenda items: <ol style="list-style-type: none"> 1. To assess and approve research topic and synopsis of Ms. Veena Rani, En.No.PhD 188500750, a PhD research scholar of Discipline of Life Sciences; 2. The first mandatory work in progress seminar of the PhD research scholars of Discipline of Life Sciences; 3. To review six monthly progress reports of the research scholars and 4. To consider and allot the supervisor to Ms. Shewata Singh, PhD research scholar on the demise of her co-supervisor <p>The recommendations of the Committee were placed for consideration and approval of the School Board.</p>	
	Decision of SB	The School Board of School of Sciences considered and approved the recommendations of the Doctoral Research Committee of Life Sciences held on 2 nd August 2019.	

	SB 64.8.11.	To consider and recommend the additional names of Course Writers for elective course "Insect Vectors and Vector Borne Diseases" (BZYET-143) of Zoology programme under UGC-CBCS.									
	Matter for Discussion	<p>The additional names of the following Course Writers for the elective course "<i>Insect Vectors and Vector Borne Diseases (BZYET-143)</i>" in Life Sciences were placed for consideration and recommendation of the School Board:</p> <table border="1" data-bbox="636 651 1174 1155"> <thead> <tr> <th>S. No.</th> <th>Name and other details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Dr. Jeepinder Kaur Associate Professor (Zoology) SGTB Khalsa College, University of Delhi, Delhi-110007 Mobile: 9999693388</td> </tr> <tr> <td>2.</td> <td>Dr. Sarita Kumar Associate Professor (Zoology) Acharya Narender Dev College, Kalkaji, New Delhi-110009 Mobile: 9810309912</td> </tr> <tr> <td>3.</td> <td>Dr. Devkant Rao Director (I/c), Academic Coordination Division, IGNOU, New Delhi. Mobile:9654450040</td> </tr> </tbody> </table>	S. No.	Name and other details	1.	Dr. Jeepinder Kaur Associate Professor (Zoology) SGTB Khalsa College, University of Delhi, Delhi-110007 Mobile: 9999693388	2.	Dr. Sarita Kumar Associate Professor (Zoology) Acharya Narender Dev College, Kalkaji, New Delhi-110009 Mobile: 9810309912	3.	Dr. Devkant Rao Director (I/c), Academic Coordination Division, IGNOU, New Delhi. Mobile:9654450040	
S. No.	Name and other details										
1.	Dr. Jeepinder Kaur Associate Professor (Zoology) SGTB Khalsa College, University of Delhi, Delhi-110007 Mobile: 9999693388										
2.	Dr. Sarita Kumar Associate Professor (Zoology) Acharya Narender Dev College, Kalkaji, New Delhi-110009 Mobile: 9810309912										
3.	Dr. Devkant Rao Director (I/c), Academic Coordination Division, IGNOU, New Delhi. Mobile:9654450040										
	Decision of SB	The School Board of School of Sciences considered the names of Course Writers for the above course of Life Sciences and suggested that the name proposed at Serial No.3 be withdrawn, as he has neither taught the subject nor is he associated with any related School of Studies. With this modifications, the School Board recommended the names of the Course Writers for further approval of the competent authority.									
	SB 64.8.12.	To consider and recommend the names of Course Writers for elective course " <i>Insect Vectors and Vector Borne Diseases: Laboratory</i> " (BZYEL-144) of Zoology programme under UGC-CBCS.									
	Matter for Discussion	<p>The names of the following Course Writers for the elective course "<i>Insect Vectors and Vector Borne Diseases: Laboratory (BZYEL-144)</i>" in Life Sciences were placed for consideration and recommendation of the School Board:</p> <table border="1" data-bbox="504 1865 1307 1998"> <thead> <tr> <th colspan="2">Name and Address</th> </tr> </thead> <tbody> <tr> <td>1. Dr. Kamal Kumar Gupta Deshbandhu College, Kalkaji, New Delhi-110019</td> <td>2. Dr. Ranjana Saxena Dyal Singh College Lodhi Road, New Delhi-</td> </tr> </tbody> </table>	Name and Address		1. Dr. Kamal Kumar Gupta Deshbandhu College, Kalkaji, New Delhi-110019	2. Dr. Ranjana Saxena Dyal Singh College Lodhi Road, New Delhi-					
Name and Address											
1. Dr. Kamal Kumar Gupta Deshbandhu College, Kalkaji, New Delhi-110019	2. Dr. Ranjana Saxena Dyal Singh College Lodhi Road, New Delhi-										

		Mobile: 9811822010	110003 Mobile: 9891950857	
		3. Dr. Jeepinder Kaur Associate Professor (Zoology) SGTB Khalsa College, University of Delhi, Delhi- 110007 Mobile: 9999693388	4. Dr. Sarita Kumar Associate Professor (Zoology) Acharya Narender Dev College, Kalkaji, New Delhi- 110009 Mobile: 9810309912	
		5. Dr. Devkant Rao Director (I/c), Academic Coordination Division, IGNOU, New Delhi. Mobile:9654450040		
	Decision of SB	The School Board of School of Sciences considered the names of Course Writers for the above course of Life Sciences and suggested that the name proposed at Serial No.5 be withdrawn, as he has neither taught the subject nor is he associated with any related School of Studies. With this modifications, the School Board recommended the names of the Course Writers for further approval of the competent authority.		
	SB 64.8.13.	To consider and recommend the name of Editor for core course "Genetics and Evolutionary Biology" (BZYCT-137) for Zoology course under UGC-CBCS.		
	Matter for Discussion	The following name for Editor of Blocks 3 and 4 of core course " Genetics and Evolutionary Biology" (BZYCT-137) was placed for consideration and recommendation of the School Board: Prof. R.K. Bhola Professor in Zoology, Department of Zoology Gauhati University, Guwahati-781014 Mobile: 09435144534 Email: bhola@gauhati.ac.in / bhola_zoology@yahoo.co.in		
	Decision of SB	The School Board considered and recommended the name of Prof.R.K. Bhola as Editor of Blocks 3 and 4 of BZYCT-137 for further approval of the competent authority.		
	SB 64.8.14.	Reporting of the Vice-Chancellor's approval of the Lists of Paper Setters & Members for the Moderation Board for FST-1 (Foundation Course in Science and Technology).		
	Matter for Discussion	The Lists of Paper Setters & the Members for the Moderation Board for FST-1 as approved by the Hon'ble Vice Chancellor were placed before the School Board of School of Sciences as reporting agenda item.		
	Decision of	The School Board noted the lists.		


	SB		
SB 64.9	To consider and approve agenda Items pertaining to the Discipline of Mathematics		
	SB 64.9.1	To consider and recommend the names of the Members for the Moderation Board for the courses MTE-04 and MTE-06 of the BDP Programme.	SB 64.9.1.1
	Matter for Discussion	The list of names of the Members for the Moderation Board for the courses MTE-04 and MTE-06 of the BDP Programme were submitted for consideration and recommendation of the School Board.	
	Decision of SB	The Board Members considered the lists of the members for the Moderation Board for the courses MTE-04 and MTE-06. It was noted that the names of Assistant Professors also appeared in the lists. Some of the Board Members mentioned that in the past they were advised to delete the names of Assistant Professors from the lists of members for the Moderation Board. After some discussion, the members suggested that Assistant Professor with at least 5 years of experience of teaching a course be allowed to be the member of Moderation Board of the courses. Accordingly, it was decided that henceforth, Assistant Professor with at least 5 years of teaching a particular course will be eligible to be the member of Moderation Board of the course. In view of the decision taken the Board recommended the names of members of the Moderation Board for the courses MTE-04 and MTE-06 for further approval of the competent authority.	
	SB 64.9.2	To consider and recommend the names of the Members for the Moderation Board for the course MMT-003 of M.Sc (MACS) Programme.	
	Matter for Discussion	The list of names of the Members for the Moderation Board for the course MMT-003 of M.Sc (MACS) Programme was placed for consideration and recommendation of the School Board.	
	Decision of SB	The School Board of School of Sciences considered the list of names of the Members for the Moderation Board for the course MMT-003 of M.Sc (MACS) Programme and in view of the decision taken above in SB 64.9.1, recommended the same for further approval of the competent authority.	
	SB 64.9.3	To consider and recommend the name of Editor for the course "Linear Algebra (BMTE-141)" of B.Sc (General) Programme under UGC-CBCS.	
	Matter for Discussion	The name of Prof. Amber Habib, as an Editor for the course " Linear Algebra (BMTE-141) " of B.Sc (General) Programme under UGC-CBCS was placed for consideration and recommendation of the School Board.	

		<p>Prof. Amber Habib School of Natural Sciences A-109B, Block-A, Shiv Nadar University, Gautam Buddha Nagar, Uttar Pradesh -201 314.</p>	
	Decision of SB	The School Board of School of Sciences considered the name of Prof. Amber Habib as an Editor for the course " Linear Algebra (BMTE-141) " of B.Sc (General) Programme under UGC-CBCS and recommended the same for further approval of the competent authority.	
	SB 64.9.4	To consider and approve the list of experts for the Expert Committee Meeting of the course MMTE-004 (Computer Graphics) of M.Sc.(MACS) programme.	
	Matter for Discussion	The course Computer Graphics (MMTE-004) is an elective course of M.Sc.(MACS) programme of School of Sciences. Presently, the course is offered in the wrap around format. Now it has to be converted to a self learning material (SLM). In this connection, a course expert committee has to be called to finalize and unitize the syllabus, and allocate the units to course writers. The names of the experts were placed for consideration and approval of the School Board.	
	Decision of SB	The School Board of School of Sciences considered and approved the list of experts for the expert committee meeting of the course MMTE-004.	
	SB 64.9.5	To consider and recommend the names of Paper-setters, Members for the Moderation Board and Evaluators for the course "Probability and Statistics" (MMT-008) (Theory and Practical) of the M.Sc. (MACS) Programme.	
	Matter for Discussion	The lists of names of Experts as Paper-Setters, Moderators and Evaluators for the course MMT-008 (Theory and Practical), of the M.Sc. (MACS) Programme were placed for consideration and approval of the School Board.	
	Decision of SB	The School Board of School of Sciences considered the lists of names of Paper-setters, Members for the Moderation Board and Evaluators for the course "Probability and Statistics" (MMT-008) (Theory and Practical) of the M.Sc. (MACS) Programme and recommended the same for further approval of the competent authority.	
SB 64.10	To consider and approve agenda Items pertaining to the Discipline of Physics		
	SB. 64.10.1	To consider and approve the recommendations of the	

		Doctoral Committee in Physics made in its meeting held on 09.08.2019.	
	Matter for Discussion	A meeting of the Doctoral Committee in Physics was held on 09 th August 2019, to discuss the following agenda item: 1. To review the progress of Ms. Richa Jain (En.No.144500034), PhD scholar of the Discipline of Physics.	
	Decision of SB	The School Board of School of Sciences considered and approved the recommendations of the DRC in Physics held on 9 th August 2019.	
	SB. 64.10.2	To consider and recommend the lists of paper setters, evaluators and members of the moderation board for the courses of Pre-PhD course work in Physics.	SB 64.10.2.1, SB 64.10.2.2 and SB 64.10.2.3
	Matter for Discussion	The Discipline of Physics submitted the lists of paper-setters, members of Moderation Board and evaluators for the courses <i>RPH-001(Research Methodology), RPHI-002 (Computational Techniques) and RPHE-005 (Nanotechnology)</i> of the Pre-Ph.D. course work in Physics for consideration and approval of the School Board.	
	Decision of SB	The School Board of School of Sciences considered the lists of as paper-setters, members of Moderation Board and evaluators for the courses <i>RPH-001(Research Methodology), RPHI-002 (Computational Techniques) and RPHE-005 (Nanotechnology)</i> of the Pre-Ph.D. course work in Physics and recommended the same for further approval of the competent authority.	
	SB. 64.10.3	To consider and recommend the additional name of Evaluator for the Physics electives BPHE-101/PHE-01, BPHE-104/PHE-04, PHE-05, BPHE-106/PHE-06 of the B.Sc. programme.	
	Matter for Discussion	The following name of Evaluator for the Physics Electives BPHE-101/PHE-01 [Elementary Mechanics], BPHE-104/PHE-04 [Mathematical Methods in Physics-I], PHE-05 [Mathematical Methods in Physics-II, BPHE-106/PHE-06 [Thermodynamics and Statistics Mechanics] of the B.Sc. programme was placed for consideration and approval of the School Board. Mr. Chhatarpal Associate Professor Department of Physics, DGC Gurugram, New Railway Road, Gurugram – 122 001 Residence: GI-A-502, Sector-18B, Samridhi Apartments, Dwarka, New Delhi-110 075 E-Mail physughu07@gmail.com Mobile: 8448529624	

		PAN No. BUBPP2570A												
	Decision of SB	The School Board considered the name of Mr. Chhatarpal as evaluator for the Physics electives BPHE-101/PHE-01, BPHE-104/PHE-04, PHE-05, BPHE-106/PHE-06 of the B.Sc. programme and recommended the same for further approval of the competent authority.												
SB 64.11 (Statistics)	To consider and approve agenda Item pertaining to the <u>Discipline of Statistics.</u>													
	SB 64.11.1	To consider and recommend the name of expert as one of the Course Editors for the Core Courses of B.Sc. (General) in Statistics under UGC-CBCS.	--											
	Matter for Discussion	<p>The Discipline of Statistics proposed the name of Prof. V. K. Singh as one of the Course Editors for the following courses of B.Sc. (General) in Statistics:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Name and Address of Editor</th> <th style="text-align: center;">Course Title</th> </tr> </thead> <tbody> <tr> <td rowspan="8"> Prof. V. K. Singh (Retired from BHU, Varanasi) W3-403, Life Style Homes, Vatika India Next, Sector 83, Gurugram (HR) Mob.: 9415343030 Email: vijay_usha_2000@yahoo.com </td> <td>Block-1,2 and 3 of course BSTCT 131: <i>Descriptive Statistics and Probability Theory (4 credits)</i></td> </tr> <tr> <td>BSTCL 132: <i>Descriptive Statistics and Probability Theory: Lab</i></td> </tr> <tr> <td>BSTCT 133: <i>Statistical Methods (4 credits)</i></td> </tr> <tr> <td>BSTCL 134: <i>Statistical Methods: Lab</i></td> </tr> <tr> <td>BSTCT 135: <i>Statistical Inference (4 credits)</i></td> </tr> <tr> <td>BSTCL 136: <i>Statistical Inference: Lab (4 credits)</i></td> </tr> <tr> <td>Block-1,2 and 3 of course BSTCT 131: <i>Descriptive Statistics and Probability Theory (4 credits)</i></td> </tr> <tr> <td>BSTCL 132: <i>Descriptive Statistics and Probability Theory: Lab</i></td> </tr> </tbody> </table>	Name and Address of Editor	Course Title	Prof. V. K. Singh (Retired from BHU, Varanasi) W3-403, Life Style Homes, Vatika India Next, Sector 83, Gurugram (HR) Mob.: 9415343030 Email: vijay_usha_2000@yahoo.com	Block-1,2 and 3 of course BSTCT 131: <i>Descriptive Statistics and Probability Theory (4 credits)</i>	BSTCL 132: <i>Descriptive Statistics and Probability Theory: Lab</i>	BSTCT 133: <i>Statistical Methods (4 credits)</i>	BSTCL 134: <i>Statistical Methods: Lab</i>	BSTCT 135: <i>Statistical Inference (4 credits)</i>	BSTCL 136: <i>Statistical Inference: Lab (4 credits)</i>	Block-1,2 and 3 of course BSTCT 131: <i>Descriptive Statistics and Probability Theory (4 credits)</i>	BSTCL 132: <i>Descriptive Statistics and Probability Theory: Lab</i>	
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	BSTCL 136: <i>Statistical Inference: Lab (4 credits)</i>													
	Block-1,2 and 3 of course BSTCT 131: <i>Descriptive Statistics and Probability Theory (4 credits)</i>													
	BSTCL 132: <i>Descriptive Statistics and Probability Theory: Lab</i>													
	Decision of SB	The School Board of School of Sciences considered the name of Prof.V.K. Singh as one of the Course Editors for the Core Courses of B.Sc. (General) in Statistics under CBCS and recommended the name for further approval of the competent authority.												
	SB 64.11.2	To consider and recommend the name of expert as one of the Course Writers for the Core Course of B.Sc. (General) in Statistics under CBCS.	--											

	Matter for Discussion	The Discipline of Statistics proposed the name of Prof. V. K. Singh as one of the Course Writers for the following course of B.Sc. (General) in Statistics:			
		S. No.	Name of Expert		Course
			Prof. V. K. Singh (Retired from BHU, Varanasi) W3-403, Life Style Homes, Vatika India Next, Sector 83, Gurugram (HR) Mob.: 9415343030 Email: vijay_usaha_2000@yahoo.com		BSTCT 137: Sample Surveys and Design of Experiments
	Decision of SB	The School Board of School of Sciences considered the name of Prof.V.K. Singh as one of the Course Writers for the Core Courses of B.Sc. (General) in Statistics under CBCS and recommended the name for further approval of the competent authority.			
	SB 64.11.3	To consider and approve the Minutes of the meeting of 13th Doctoral Committee in the Discipline of Statistics held on August 8, 2019.		SB 64.8.3.1	
	Matter for Discussion	The 13 th Doctoral Research Committee of the Discipline of Statistics was held on August 8, 2019 to discuss the following agenda items: <ol style="list-style-type: none"> 1. To review six monthly progress reports of the research scholars; and 2. To consider the CV of Dr. Rajesh and approve him to be eligible as the Research Supervisor for the PhD Programme in Statistics. The recommendations of the Doctoral Research Committee were placed for consideration and approval of the School Board.			
	Decision of SB	The School Board of School of Sciences considered the recommendations of 13 th Doctoral Research Committee in Statistics and approved the same. Accordingly, Dr. Rajesh, Assistant Professor of Discipline of Statistics is now eligible to be a Research Supervisor in the Discipline of Statistics.			


 12/9/19
 प्रो. पूर्णिमा मिश्रा
 निदेशक, विज्ञान विभागीय, इलाहाबाद
 Director, SOS, BHU

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