

Department of Biotechnology
Keral Verma Subharti College of Science
SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under UP Govt Act no 29 of 2008 and approved under section 2(f) of UGC Act 1956)
Ph. 0121-2439578, 2439052, 3056031, 3056032, Telefax: 0121



Ref. No. – KVSCOS/BT/2021/BOS/002

Dated: 01 July 2021

NOTICE

A meeting of Board of Studies will be held on 03 July 2021 at 05:00 PM on Google meet. Following are agenda items for the same.

1. **Agenda Item No. 1:** To confirm the minutes of the Board of Studies meeting held on 22 December 2020.
 2. **Agenda Item No. 2:** To consider the Action Taken Report on the minutes of Board of Studies held on 22 December 2020 (Annexure -I).
 3. **Agenda Item No. 3:** To consider and discuss about the M.Sc. Biotechnology course curriculum (syllabus as per UGC under CBCS pattern) for academic session 2021-2022 (Annexure -II).
 4. **Agenda Item No. 4:** To consider and approve panel of Examiners for practical and dissertation examination for the B.Sc. and M.Sc. Biotechnology programme (As per Annexure -III).
 4. Any other items with the permission of the chairman.
- You are requested to make it convenient to attend the same.


Dr. Aakansha Goswami, Chairman

Copy to:

External expert:

1. Dr. Pankaj Chauhan (Associate Prof, SVPUA&T, Modipuram, Meerut)

Internal Members:

1. Dr. Aakansha Goswami (Assistant professor)
2. Dr. Amit Kumar (Assistant professor)
3. Dr. Reshu Chaudhary (Assistant professor)
4. Dr. Manjul Mungali (Assistant professor)
1. Dr. Nisha Malik (Assistant professor)
2. Shubhkamna D/O Mr. Lokesh Kumar 2016-19 batch mobile no. 8445965014 (Alumni)



Department of Biotechnology Keral Verma Subharti College of Science SWAMI VIVEKANAND SUBHARTI UNIVERSITY

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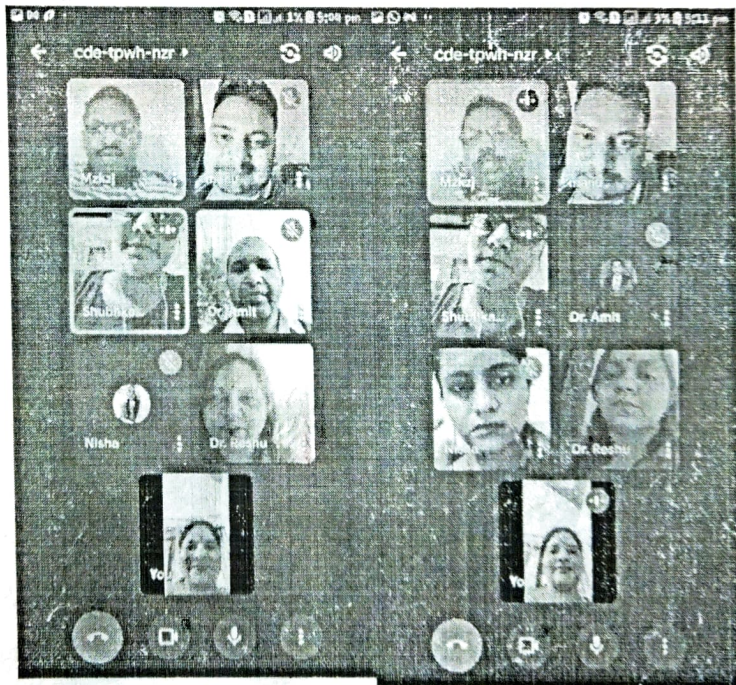
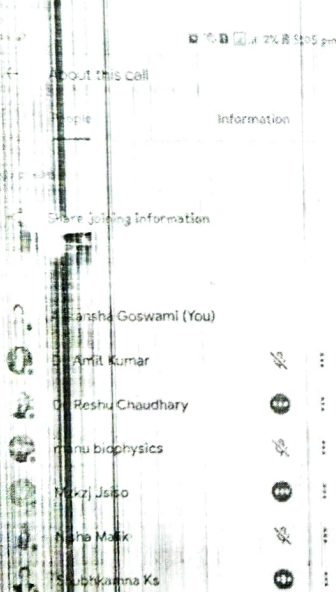
Ref. No. – KVSCOS/BT/2021/BOS/003

Dated: 05 July 2021

Attendance for Meeting of Board of Studies held on 05 July 2021 at 05:00 PM on Google

meet

1. Dr. Aakansha Goswami - In Chair *[Signature]*
2. Dr. Pankaj Chauhan - External Expert *[Signature: Chauhan]*
3. Dr. Amit Kumar - Member *[Signature]*
4. Dr. Reshu Chaudhary - Member *[Signature]*
5. Dr. ManjulMungali - Member *[Signature]*
6. Dr. Nisha Malik - Member *[Signature]*
7. Shubhkamna D/O Mr. Lokesh Kumar 2016-19 batch mobile no. 8445965014 (Alumni)





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Ref. No. – KVSCOS/BT/2021/BOS/004

Dated: 05 July 2021

Minutes for Meeting of Board of Studies held on held on 03 July 2021 at 05:00 PM on
Google meet

A meeting of Board of Studies was held on 03 July 2021 at 05:00 P.M in the office of the Head, Department of Biotechnology.

Following members attended the meeting

1. Dr. Aakansha Goswami - In Chair *A*
2. Dr. Pankaj Chauhan - External Expert *Chauhan*
3. Dr. Amit Kumar - Member *A*
4. Dr. Reshu Chaudhary - Member *A*
5. Dr. Manjul Mungali - Member *A*
6. Dr. Nisha Malik - Member *A*
7. Shubhkamna D/O Mr. Lokesh Kumar 2016-19 batch mobile no. 8445965014 (Alumni)

At the onset, the Chairperson BOS welcomed all the members and thanked outside experts for sparing their time. The items were taken up as per agenda.

1. Agenda Item No. 1: To confirm the minutes of the Board of Studies meeting held on 22 December 2020.

Resolution: The Board confirmed the minutes.

2. Agenda Item No. 2: To consider the Action Taken Report on the minutes of Board of Studies held on 22 December 2020 (Annexure -I).

Resolution: The board considered the Action Taken Report.

3. Agenda Item No. 3: To consider and discuss about the M.Sc. Biotechnology course curriculum (syllabus as per UGC under CBCS pattern) for academic session 2022 (Annexure -II).

Resolution: After detailed discussion the board member unanimously considered regulation and syllabus of M.Sc. Biotechnology with CBCS pattern because UGC emphasize to adopt CBCS pattern.

4. Agenda Item No. 4: To consider and approve panel of Examiners for practical and dissertation examination for the B.Sc. and M.Sc. Biotechnology programme (As per Annexure -III).

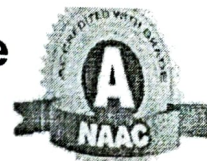
Resolution: The Members Approved and recommended to COE.

A
Dr. Aakansha Goswami, Chairman



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Ref. No. KVSOS/Biotechnology/2021/05

Dated – 09/08/2021

Odd

Action Taken Report

The meeting of the Board of Studies of Department of Biotechnology was held on 03 July 2021 in the presence of external and internal members. Following agenda were discussed in the meeting and the actions taken of the agendas are given below.

Agenda Item	Decision/Recommendation	Action taken
<u>1. Agenda Item No. 1:</u> To confirm the minutes of previous meeting of the Departmental Committee held on 22 December 2020.	Noted	Noted
<u>2. Agenda Item No. 2:</u> To consider the Action Taken Report on the minutes of Board of Studies held on 22 December 2020.	Noted	Noted
<u>3. Agenda Item No. 3:</u> To consider and discuss about the M.Sc. Biotechnology course curriculum (Syllabus as per UGC and under CBCS pattern) for academic session 2021-2022.	After detailed discussion, the committee members unanimously approved the curriculum based on CBCS pattern. Further, same adopted curriculum forwarded to faculty board/ academic council for final approval.	The drafted CBCS curriculum and syllabus was duly approved for implementation w.e.f Academic Session 2022-23 by the 29 th Academic Council Meeting held on 03.07.2021
<u>4. Agenda Item No. 4:</u> To consider and approve panel of Examiners for practical and dissertation examination for the B.Sc. and M.Sc. Biotechnology programmes	The committee members agreed & approve the panel of examiners for practical and dissertation exams.	Noted


HOD/Incharge

(Department of Biotechnology)

cc:

- Office of the Dean
- Members

**Swami Vivekanand Subharti University, Meerut
Uttar Pradesh**



Evaluation Scheme

&

Syllabus

For

M.Sc. Biotechnology

Swami Vivekanand Subharti University, Meerut, Uttar Pradesh
Master of Science in Biotechnology
First Year/First Semester

	Course Code	Course Name	Course Type	Teaching Load/Week				Total Credits	Evaluation Scheme				Subject Total
				L	P	T	Total		Sessional			ESE	
									CT	TA	Total		
Semester I	M.Sc. BT 101	Principles of Genetics	Core Course	4	0	0	4	4	20	10	30	70	100
	M.Sc. BT 102	Cell and Molecular Biology	Core Course	4	0	0	4	4	20	10	30	70	100
	M.Sc. BT 103	Biostatistics and Bioinformatics	Core Course	4	0	0	4	4	20	10	30	70	100
	M.Sc. BT 104	Tools and Techniques of Biotechnology	Core Course	4	0	0	4	4	20	10	30	70	100
	M.Sc. BT 151	Practical I (Based on M.Sc. BT 101, M.Sc. BT 102)	Practical	0	4	0	4	4	20	10	30	70	100
	M.Sc. BT 152	Practical II (Based on M.Sc. BT 103 M.Sc. BT 104)	Practical	0	4	0	4	4	20	10	30	70	100
	M.Sc. BT 153	Seminar-I	Qualifying	1	0	0	1	0	0	0	50	00	50
Total				17	8	0	25	24	120	60	230	420	600

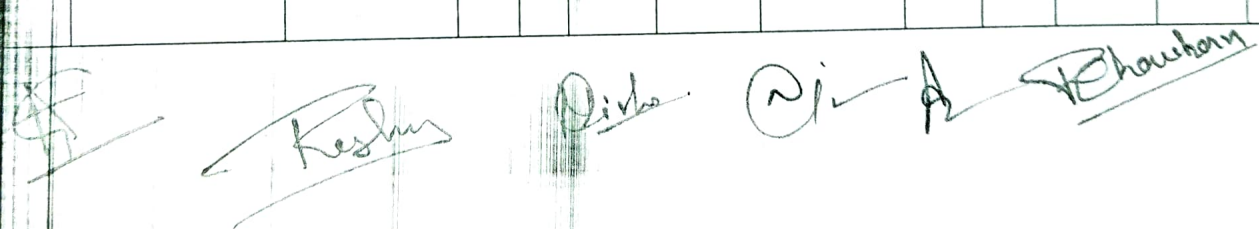
Master of Science in Biotechnology

First Year/Second Semester

Course Code	Course Name	Course Type	Teaching Load/Week				Total Credits	Evaluation Scheme				Subject Total
			L	P	T	Total		Sessional			ESE	
								CT	TA	Total		
M.Sc. BT 201	Fundamentals of Biochemistry & Biophysics	Core Course	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 202	Genetic Resources and IPR	Core Course	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 203	Plant Biotechnology	Core Course	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 204	Genetic Engineering	Core Course	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 251	Practical III (Based on M.Sc. BT 201, M.Sc. BT 202)	Practical	0	4	0	4	4	20	10	30	70	100
M.Sc. BT 252	Practical IV (Based on M.Sc. BT 203, M.Sc. BT 204)	Practical	0	4	0	4	4	20	10	30	70	100
M.Sc. BT 253	Seminar-II	Qualifying	1	0	0	1	0	0	0	50	00	50
Total			17	8	0	25	24	120	60	230	420	600

Semester II

Total



Master of Science in Biotechnology

Second Year/ Fourth Semester

Course Code	Course Name	Course Type	Research Load/Week				Total Credits	Evaluation Scheme				Subject Total
			L	P	T	Total		Sessional			ESE	
								CT	TA	Total		
M.Sc. BT 401	Medical Biotechnology & Bioethics	Elective Course(Any one)	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 402	Bioprocess and Fermentation Technology		4	0	0	4	4	20	10	30	70	100
M.Sc. BT 403	Plant Breeding		4	0	0	4	4	20	10	30	70	100
M.Sc. BT 404	Pharmaceutical Biotechnology	Elective Course(Any one)	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 405	Nano Biotechnology		4	0	0	4	4	20	10	30	70	100
M.Sc. BT 406	Environmental Biotechnology		4	0	0	4	4	20	10	30	70	100
M.Sc. BT 407	Advanced Bioinformatics	Elective Course(Any one)	4	0	0	4	4	20	10	30	70	100
M.Sc. BT 408	Agricultural Biotechnology		4	0	0	4	4	20	10	30	70	100
M.Sc. BT 409	IPR, Patenting & Bioethics		4	0	0	4	4	20	10	30	70	100
M.Sc. BT 451	Practical VII (Based on M.Sc. BT 401/402/403/404/405/406/407/408/409)	Practical	0	4	0	4	4	20	10	30	70	100
M.Sc. BT 452	Project/ Dissertation	Core Course	0	8	0	0	8	0	0	40	160	200
M.Sc. BT 453	Seminar-IV	Qualifying	1	0	0	1	0	0	0	50	00	50
Total			13	12	0	17	24	80	40	210	440	600

Semester IV

Total

Swami Vivekanand Subharti University, Meerut, Uttar Pradesh
Master of Science in Biotechnology

Course Code	Course Name	Course Type (Core/ Elective)	Credit
M.Sc. BT 101	Principles of Genetics	Core Course	04
M.Sc. BT 102	Cell and Molecular Biology	Core Course	04
M.Sc. BT 103	Biostatistics and Bioinformatics	Core Course	04
M.Sc. BT 104	Tools and Techniques of Biotechnology	Core Course	04
M.Sc. BT 201	Fundamentals of Biochemistry & Biophysics	Core Course	04
M.Sc. BT 202	Genetic Resources and IPR	Core Course	04
M.Sc. BT 203	Plant Biotechnology	Core Course	04
M.Sc. BT 204	Genetic Engineering	Core Course	04
M.Sc. BT 301	Animal Biotechnology	Core Course	04
M.Sc. BT 302	Immunology	Core Course	04
M.Sc. BT 452	Project/ Dissertation	Core Course	08
M.Sc. BT 303	Microbial Biotechnology	Elective (Any one)	04
M.Sc. BT 304	Industrial Biotechnology		04
M.Sc. BT 305	Genomics & Proteomics	Elective (Any one)	04
M.Sc. BT 306	Fingerprinting		04
M.Sc. BT 401	Medical Biotechnology & Bioethics	Elective (Any one)	04
M.Sc. BT 402	Bioprocess and Fermentation Technology		04
M.Sc. BT 403	Plant Breeding		04
M.Sc. BT 404	Pharmaceutical Biotechnology	Elective (Any one)	04
M.Sc. BT 405	Nano Biotechnology		04
M.Sc. BT 406	Environmental Biotechnology		04
M.Sc. BT 407	Advanced Bioinformatics	Elective (Any one)	04
M.Sc. BT 408	Agricultural Biotechnology		04
M.Sc. BT 409	IPR, Patenting & Bioethics		04
M.Sc. BT 151	Practical I (Based on M.Sc. BT 101, M.Sc. BT 102)	Practical	04
M.Sc. BT 152	Practical II (Based on M.Sc. BT 103 M.Sc. BT 104)	Practical	04
M.Sc. BT 251	Practical III (Based on M.Sc. BT 201, M.Sc. BT 202)	Practical	04
M.Sc. BT 252	Practical IV (Based on M.Sc. BT 203 M.Sc. BT 204)	Practical	04
M.Sc. BT 351	Practical V (Based on M.Sc. BT 301, M.Sc. BT 302)	Practical	04
M.Sc. BT 352	Practical VI (Based on M.Sc. BT 303/304/305/306)	Practical	04
M.Sc. BT 451	Practical VII (Based on M.Sc. BT 401/ 402/ 403/ 404/ 405/ 406/ 407/ 408/ 409)	Practical	04
M.Sc. BT 153	Seminar-I	Qualifying	00
M.Sc. BT 253	Seminar-II	Qualifying	00
M.Sc. BT 353	Seminar-III	Qualifying	00
M.Sc. BT 453	Seminar-IV	Qualifying	00

Note:

- In IIIrd Sem Students will select two papers (courses) out of four papers from M.Sc. BT 303, 304, 305, 306.
- In IVth Sem Students will select three papers (courses) out of six papers from M.Sc. BT 401, 402, 403, 404, 405, 406, 407, 408, 409.
- Besides this, each student will have to present ONE seminar (M.Sc. BT 153, M.Sc. BT 253, M.Sc. BT 353 & M.Sc. BT 453) in each semester.
- Each student will have to submit an allotted Dissertation (M.Sc. BT 452) which would be based on research works and will submit a report on which Viva-Voce will be conducted.