

**SCHOOL OF SCIENCE**  
**Department of Microbiology**

**CRITERIA 1**

**SUB CRITERIA 1.3.3**

**Percentage of students undertaking field  
projects / research projects / internships**

**Academic Year**

**2021-2022**



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**SCHOOL OF SCIENCE**  
**Department Of Microbiology**

**Total Number of Research Projects/Internships in UG**

Internships/Research Projects	Program	Total Number of students involved in Internship
	BSc Microbiology	02

In the Microbiology disciplines, there is mandatory Internship. In the curriculum design it has been incorporated into the programme and complete it as a mandatory part of final year training.

**Total Number of Field Project/Industry visits in UG and PG**

Expert Lecture/Industry visits/Hands on Training	Program	Total Number of students involved in field projects
	BSc Microbiology	02

Field visits / Industry Visits Field/ Industrial visits during the course of any programme gives students an insight on the internal working environment of the company. Microbiology, students undertake field visits to research institutes, industries, sewage treatment plants, water treatment plants, etc. to enhance knowledge and enrich skills.

  
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A handwritten signature in blue ink, appearing to be 'S.R.', written over a circular stamp.

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## School of Sciences

NAME OF COURSE: B. SC. MICROBIOLOGY

SESSION 2019 ONWARDS


SEMESTER: VI

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

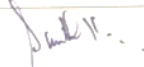
Sr. No.	Subject Code	Subject Name	Maximum Marks Allotted						Credits		Total Credits	
			Theory Slot			Practical Slot			Total Marks	L		P
			End Sem.	Mid Sem. MST (Two tests average)	Class Participation	End Sem.	Progressive Evaluation	Internal viva				
1	BSMB-601	Medical Microbiology	40	30	30	40	30	30	200	3	1	04
2	BSMB-602	Food and Dairy Microbiology	40	30	30	40	30	30	200	3	1	04
3	BSMB-603	Environmental Microbiology	40	30	30	-	-	-	100	4	0	04
4	BSMB-604	Marine Microbiology	40	30	30	40	30	30	200	3	1	04
5	BSMB-605	Agriculture Microbiology	40	30	30	40	30	30	200	1	1	02
6	BSMB 606	Major Project + Seminar				200+100	-	-	300	2	-	02
7	BSMB-607	Microbiology Lab	-	-	-	40	30	30	100	2	-	02
8	BSMB 608	NCC*/MOOC*	40	30	30	40	30	30	200	2	1	3
<b>Total</b>									<b>1200</b>			<b>22+3</b>

\*Additional credit only for those students who opt for NCC/MOOC

List of Open Electives: 2 Subjects	BSMB 606 A: Introduction to Nanobiotechnology	BSMB 606 B: Frontiers in Biotechnology and Microbiology
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 Dr. Y.C. Goswami  
 (Chairman & Dean)

  
 Dr. Rita Sharma  
 (Coordinator & member)

  
 Dr. Santosh Kumar  
 (Exam Superintendent)

  
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## Syllabus-2021-2022

(SOS)(Bsc\_Microbiology)

Title of the Course	Major Project
Course Code	BSMB 607 (P)

### Part A

Year	3rd	Semester	6th	Credits	L	T	P	C
					0	0	6	6
Course Type	Project							
Course Category	Projects and Internship							
Pre-Requisite/s	Student must have basic knowledge of all the instruments, good laboratory practices, and subjective knowledge			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- This study aims to evaluate the impact of internship programs on the professional as well as on personal development and skills.(BL2-Understand) CO2- The planning and organizing of project framework in the Logframe through the analysis of inputs, activities, results, purpose or outcome, and overall objective or goal as a result of strategy analysis and selection.(BL3-Apply) CO3- Formulate a project that is capable of achieving its intended purpose/objective, of addressing identified problems, of managing potential risks, of designing activities and realistic time frame.(BL6-Create) CO4- Designing a project framework that responds to particular problem with clear objectives, expected results and activities(BL6-Create) CO5- Project formulation helps to prepare students with clear understanding of outline of research work.(BL6-Create)							
Courses Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✓		SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth)				

### Part B

Modules	Contents	Pedagogy	Hours
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## Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
300	150	300	150		

## Part E

<b>Books</b>	Sustainable solid waste management: issues, policies, and structures. Academic Foundation, New Delhi. Dhamija, U., (2009). Virendra Kumar Pandey Textbook of Food Microbiology 1st Edition Research methodology, C. R. Kothari, 6th Edition
<b>Articles</b>	<a href="https://www.sciencedirect.com/science/article/pii/S2666049020300244">https://www.sciencedirect.com/science/article/pii/S2666049020300244</a> <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7150063/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7150063/</a> <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5037945/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5037945/</a>
<b>References Books</b>	Handbook of solid waste management, McGraw-Hill Publication, USA Kreith F, Tchobanoglous G (2002) John C. Ayres Microbiology of foods-2nd Edition Research methodology, Panneerselvam, R., Prentice Hall of India, New Delhi
<b>MOOC Courses</b>	<a href="https://nptel.ac.in/courses/105103205">https://nptel.ac.in/courses/105103205</a> <a href="https://nptel.ac.in/courses/126105013">https://nptel.ac.in/courses/126105013</a> <a href="https://nptel.ac.in/courses/121106007">https://nptel.ac.in/courses/121106007</a>
<b>Videos</b>	<a href="https://nptel.ac.in/courses/105103205">https://nptel.ac.in/courses/105103205</a> <a href="https://nptel.ac.in/courses/126105013">https://nptel.ac.in/courses/126105013</a> <a href="https://nptel.ac.in/courses/121106007">https://nptel.ac.in/courses/121106007</a>

## Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	-	1	-	-	-	-	-	-	-	2	-	1
CO2	1	1	3	1	-	-	2	-	-	-	-	-	-	1	3
CO3	1	3	-	2	3	-	-	-	-	-	-	-	1	1	-
CO4	1	-	1	2	2	-	1	-	-	-	-	-	2	3	1
CO5	1	-	1	2	1	-	-	-	-	-	-	-	2	3	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Dr. Y.C. Goswami  
(Chairman & Dean)



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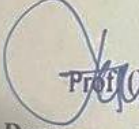


### Details of UG Research projects/Internship

Name of the School: School Science, ITM University, Gwalior.  
Name of the Course and Branch: B.Sc. Microbiology  
Session: 2021- 2022  
Total No. of Students enrolled: 02  
Duration: 45 Days

#### List of Students

S.No	Roll No	Name of Students	Name of Industry/Institute	Topic	Supervisor
1	BSBN1BT19001	Vishal Sahu	MRD Life Science, Lucknow (U.P)	Industrial training on state of art lectures on specialized biotech techniques	Ms. Pallavi Jaiswal
2	BSBN1BT19003	Priyanka Kumari	MRD Life Science, Lucknow (U.P)	Industrial training on state of art lectures on specialized biotech techniques	Ms. Pallavi Jaiswal

  
Prof. Y.C. Goswami  
Dean  
Dean School of Science ITM University  
Prof. Y.C. Goswami  
School of Sciences

  
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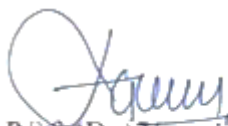


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### List of Students of BSc Microbiology 6<sup>th</sup> Semester

S.No	Roll Number	Name of student
1	BSBN1BT19001	Vishal Sahu
2	BSBN1BT19003	Priyanka Kumari

  
Prof. (Dr.) Yogesh C Goswami  
Dean  
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A  
Training Report On  
**Industrial Training with state of Art lectures on Specialized  
Biotech Techniques**


Submitted To :  
**ITM UNIVERSITY  
Gwalior**



Submitted By:  
**VISHAL SAHU  
BSMN1MB19004**  
For partial fulfillment of the degree of  
**B.Sc. Microbiology (Honors)**

Under the Guidance Of :  
**MS. Pallavi Sharma  
(Research Scientist)**



  
Prof. (Dr.) Yogesh C Goswami  
Dean  
School of Applied Sciences  
School of Science ITM University  
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## Certificate of Training


February 08, 2022 – March 24, 2022

*Mr. Vishal Sahu*

*This is to certify that Mr. Vishal Sahu, student of B.Sc. (Hons.) Microbiology from ITM University, Gwalior, has successfully completed 45 days of rigorous hands-on industrial training with state of art lectures on Specialized Biotech Techniques. This curriculum included training on various Microbiological Techniques, SDS-PAGE, Western Blotting, Restriction digestion, Ligation and Transformation, Cloning & Gene expression, DNA/RNA Isolation and Analysis, Gel Electrophoresis, Southern/Northern Blotting, Fermentation, Downstream Processing, Salt Precipitation, Dialysis, Chromatography, Polymerase Chain Reaction (PCR), Gel Documentation System & High Performance Liquid Chromatography (HPLC).*

*Mr. Vishal Sahu is a sincere and diligent student. We wish him every success for his bright future.*

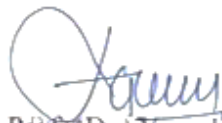
  
Chitranshu Pandey  
Research Scientist

  
Manoj Verma  
Director

**MRD LifeSciences Pvt. Ltd.**

B-3/46 & 47, 2nd Floor, Vibhuti Khand, Near-State Bank of India, Gomti Nagar, Lucknow – 226010 (U.P.)  
Tel: +91-522-4012130/31/32/33, Fax: +91-522-4304333  
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A  
Training Report On  
**Industrial Training with state of Art lectures on Specialized  
Biotech Techniques**

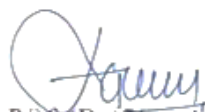
Submitted To :  
**ITM UNIVERSITY**  
Gwalior



Submitted By:  
**PRIYANKA KUMARI**  
**BSMN1MB19002**  
For partial fulfillment of the degree of  
**B.Sc. Microbiology (Honors)**

Under the Guidance Of :  
**MS. Pallavi Sharma**  
**(Research Scientist)**



  
**Prof. (Dr.) Yogesh C Goswami**  
Dean  
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Enroll. No. MRDLS/022/02/4722


## Certificate of Training

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*Ms. Priyanka Kumari* is a sincere and diligent student. We wish her every success for her bright future.

  
Chitranshu Pandey  
Research Scientist

  
Manoj Verma  
Director

MRD LifeSciences Pvt. Ltd.

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**Details of One day awareness workshop (UG/PG)**

**On**

**“World Soil Health Day”**

**On**

**Agroforestry: Current Scenario**

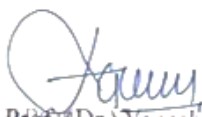
**II Year B.Sc Biotechnology/Microbiology & I & Yr M. Sc Biotechnology – Brief Summary**

**Objective**

The **object of the program** is to focus attention on the importance of Agroforestry. Trees and flowering plants within agroforestry systems provide food and shelter for pollinators like bees, butterflies and birds. This boosts pollination of both crops and wild plants, ensuring reproductive success. Agroforestry fosters a healthy soil ecosystem that increases microbial diversity

**Dr A.K. Handa** delivers a lecture on the topic **“Agroforestry: Current Scenario”**

**Dr. A.K. Handa** gave an expert lecture on the on the topic **“Agroforestry: Current Scenario”**. He briefed about the Agroforestry Department. The Department of Agroforestry was started in 1979 to benefit the farmers of the Nation. In the year 1983, it was established in Jhansi. While giving information about agroforestry, discussed the benefits of planting trees in the forest simultaneously with agriculture. Dr. Handa also emphasized the significance of Three " I's" in Agroforestry: Intensive, Interactive, and Integrated. Scientist Dr. Indradev, as the second speaker, narrated the verse of Matsya Purana and highlighted the importance of trees by accepting a tree equal to ten sons. The emphasis was laid on the conservation of earth and soil. In the end, Pro-Vice-Chancellor Dr. S.K.N. Khedkar and Dean Dr. Richa Kothari expressed their gratitude to the guests by presenting the mementos. At the end of the session Coordinator, Dr. Rita Sharma proposed the vote of thanks.

  
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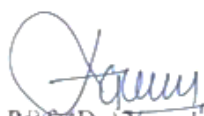


## OUTCOMES

Theme of this year “**Agroforestry: Current Scenario**” of **World Soil Health Day**, Agroforestry projects combine crop fields and trees, optimizing land use and health. These practices offer economic and ecological benefits for sustainable agriculture. The challenge for agroforestry arises from managing diverse species and complex farming systems

There are also some new global challenges and risks such as **industrialization, increased construction sites, ethical concerns related to artificial intelligence, and the potential misuse of biotechnology**. It is therefore important for society to have a deep understanding of soil health and its potential impact on our lives, and to ensure that agroforestry is used worldwide to overcome the current soil issues and to improve soil health through agroforestry.

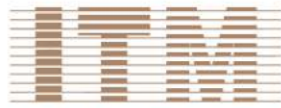
In this manner this year WSHD celebrations highlighted that **by promoting agroforestry and advanced agriculture technologies, we can ensure a better future for ourselves and for generations to come.**



Prof. (Dr.) Yogesh C Goswami  
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**List of Students –Attended Awareness workshop on World soil health day  
6<sup>th</sup> December 2021**

S No	Name	Roll No	Signature
1	Imran Khan	BSBN1BT21002	[Signature]
2	Jigyanshu Khalate	BSBN1BT21003	J. Khalate
3	Parth Ajit Bhagat	BSBN1BT21005	[Signature]
5	Shivangi Chauhan	BSBN1BT21006	[Signature]
6	Uday Pratap	BSBN1BT21008	[Signature]
7	Deepti Parmar	BSBN1BT21009	[Signature]
8	Shweta Rajput	BSBN1BT21011	[Signature]
10	Raj Sharma	BSBN1BT21013	[Signature]
11	Vivek Rajouriya	BSBN1BT21014	[Signature]
12	Mehak Ganglani	BSBN1BT21015	[Signature]
13	Amit Yadav	BSBN1BT21018	[Signature]
14	Ojaswini Kothari	BSBN1BT21019	[Signature]
15	Aparna Shandilya	BSBN1BT21022	[Signature]
16	Kumkum Yadav	BSBN1BT21023	[Signature]
17	Aswabendra singh	BSBN1BT21024	[Signature]
18	Nandini Raj	BSBN1BT21025	[Signature]
19	Yashasvi Shrivastava	BSBN1BT21026	[Signature]
20	Md Tausif Alam	BSBN1BT21027	[Signature]
21	Surbhi Mandal	BSBN1BT21028	[Signature]
22	Veeranki Sai Kiran	BSBN1BT21029	[Signature]
23	Shruti Gupta	BSBN3BT22T01	[Signature]
24	Awkash Bhadouriya	BSBN3BT22T02	[Signature]
25	Saikat Mondal	BSMN1MB21003	[Signature]
26	Mohini Rajak	BSMN1MB21006	[Signature]
27	Akansha Gupta	BSMN1MB21007	[Signature]
28	Gagan Awasthi	BSMN1MB21008	[Signature]
29	Anuj Shrivastava	BSBN1BT20001	[Signature]
30	Harsh Choudhary	BSBN1BT20002	[Signature]
31	Priyanka Sharma	BSBN1BT20004	[Signature]
32	Samridhi Sonker	BSBN1BT20005	[Signature]
33	Somya Sharma	BSBN1BT20006	[Signature]
34	Tushant Wats	BSBN1BT20007	[Signature]
35	Yaser Khan	BSBN1BT20008	[Signature]
36	Srijita Rauth	BSBN1BT20009	[Signature]
37	Monalisa Aktar	BSBN1BT20010	[Signature]
38	Meenakshi Jadhav	BSBN1BT20011	[Signature]
39	Kashish Jain	BSBN1BT20012	[Signature]
40	Deepika Goyal	BSBN1BT20013	[Signature]


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41	Tanya Bhadoriya	BSBN1BT20018	Tanya
42	Gabou Jonathan Levy	BSBN1BT20019	Ced
43	Pallavi Sharma	BSMN1MB20001	PSA
44	Anushree Kamthan	BSMN1MB20002	Anushree
45	Sakshi Rathore	MSBN1BT20001	Sia
46	Neha Verma	MSBN1BT20003	NS
47	Priyanka Achra	MSBN1BT20004	Priyanka
48	Deeksha Chandra	MSBN1BT20005	Deeksha
49	Raksha Gupta	MSBN1BT20006	Raksha
50	Kamini Rajput	MSBN1MB20001	Kamini
51	Kumari Aruna	MSBN1BT20002	AS
52	Pranshu Sharma	MSBN1BT20003	Pranshu
53	Saloni Mankele	MSBN1BT20004	Saloni
54	Shivani Agarwal	MSBN1BT20005	Shivani
55	Aashi Jain	BSBN1BT19001	Aashi
56	Aman Sharma	BSBN1BT19003	ASB
58	Atharva Agrawal	BSBN1BT19004	AA
59	Bharti Arora	BSBN1BT19006	BA
60	Devansh Singh Bais	BSBN1BT19007	DS
61	Dishee Mittal	BSBN1BT19008	DM
62	Divya Shrivastava	BSBN1BT19009	DS
63	Dushyant Singh	BSBN1BT19010	Dushyant
64	Gargi Rathore	BSBN1BT19011	Gargi
65	Gaurangi Bhadouriya	BSBN1BT19012	GB
66	Khushi Kaushal	BSBN1BT19014	KK
67	Lalit Prajapati	BSBN1BT19015	Kaushal
68	Mayank Tripathi	BSBN1BT19017	
69	Muskan Jayaswal	BSBN1BT19018	Muskan
70	Neha Sharma	BSBN1BT19019	NS
71	Neha Sharma	BSBN1BT19020	
72	Prayanshu Verma	BSBN1BT19021	Prayanshu
73	Pujan Ghimire	BSBN1BT19022	Pujan

  
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74	Saloni Soni	BSBN1BT19024	<i>Saloni</i>
75	Sanjana Bhadoriya	BSBN1BT19025	<i>Shruti</i>
76	Sanskar Pandey	BSBN1BT19026	<i>Sanskar Pandey</i>
77	Shruti Sengar	BSBN1BT19027	<i>Shruti Sengar</i>
78	Sunena Bamoriya	BSBN1BT19028	<i>Sunena Bamoriya</i>
79	Taniya Bhatnagar	BSBN1BT19029	<i>Taniya Bhatnagar</i>
80	Pale Loic	BSBN1BT19031	<i>Pale</i>
81	Tiyasa Jana	BSBN3BT20T01	<i>Tiyasa Jana</i>

*R Sharma*

Dr. Rita Sharma  
Coordinator  
Dept. of Biotechnology/Microbiology  
School of Sciences

*Richa Kothari*

Prof. Richa Kothari  
Dean  
School of Sciences

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mail: info@itmuniversity.ac.in, web: www.itmuniversity.ac.in

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**World Soil Health Day Celebration on 6th December 2021 in Madhu Limay Seminar Hall,  
ITM University, Gwalior**



  
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**Students attending One Day awareness workshop on “World Soil Health Day”**



**Students and Faculty members attending One Day awareness workshop on “World Soil Health Day”**

  
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