

SCHOOL OF SCIENCE

Department of Microbiology

CRITERIA 1

SUB CRITERIA 1.3.3

Percentage of students undertaking field projects / research projects / internships

Academic Year

2020-2021

ITM UNIVERSITY Gwalior (M.P)



SCHOOL OF SCIENCE Department Of Microbiology

Total Number of Research Projects/Internships in UG

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

In the Biotechnology 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.

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Dean School of Science ITM University Gwalior (M.P.-HNDIA-474001

REGISTRAR ITM UNIVERSITY Gwalior (M.P)



School of Sciences

NAME OF COURSE: B. SC. MICROBIOLOGY

SESSION 2018 ONWARDS

SEMESTER: VI

SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

			Maximum Marks Allotted							C		Total s Credit	
				Theory Slot	t	Practical Slot				Creatis		s	
Sr. No.	Subject Code	Subject Name	End Sem.	Mid Sem. MST (Two tests average)	Class Particip ation	End Sem.	Progressi ve Evaluatio n	Intern al viva	Total Marks	L	Р		
1	BSMB-601	Medical Microbiology	40	30	30	-	-	-	100	4	0	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	
5	BSMB-604	Marine Microbiology	40	30	30	40	30	30	200	3	1	04	
6	BSMB 605	Agriculture microbiology	40	30	30	-	-	-	100	4	-	4	
7	BSMB 606	Major Project + Seminar	-	-	-	200+ 100	-	-	300	6	-	06	
	Total								1000			26	

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Prof. Richa Kothari (Dean)

Dr. Rita Sharma (Coordinator &member)

Dr. Santosh Kumar (Exam Superintendent)

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Syllabus-2018-2019

(SOS)(Bsc_Microbiology)

Title of the Course	Major Project
Course Code	BSMB 606 (P)

Part A

			aitA								
Year	3rd	Semester	6th	Credits	L	Т	Ρ	С			
		Semester Our			0	0	6	6			
Course Type	Project	roject									
Course Category	Projects	ojects and Internship									
Pre-Requisite/s	instrume	udent must have basic knowledge of all the struments, good laboratory practices, and ibjective knowledge									
Course Outcomes & Bloom's Level	well as o CO2- Th analysis result of CO3- Fo addressi realistic f CO4- De objective CO5- Pro	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)									
Course Elements	Entrepre Employa	onal Ethics × × /alues √	SDG (Goals)	SDG3(Good health an SDG4(Quality educati SDG8(Decent work ar growth)	on)		57				

Part B

Modules Contents Pedagogy Hours

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Part D(Marks Distribution)							
Theory							
Total Marks	J						
			Practical				
Total Marks	Minimum Passing External Marks Evaluation		Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation		
300	150	300	150				

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	Part E						
Books	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						
Articles	https://www.sciencedirect.com/science/article/pii/S2666049020300244 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7150063/ https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5037945/						
References Books Handbook of solid waste management, McGraw-Hill Publication, USA Kreith Tchobanoglous G (2002) John C. Ayres Microbiology of foods-2nd Edition Research methodology, Panneerselvam, R., Prentice Hall of India, New Dell							
MOOC Courses	https://nptel.ac.in/courses/105103205 https://nptel.ac.in/courses/126105013 https://nptel.ac.in/courses/121106007						
Videos	https://nptel.ac.in/courses/105103205 https://nptel.ac.in/courses/126105013 https://nptel.ac.in/courses/121106007						

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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5/13/24.



Details of UG Research Projects

Name of the School: School of Science and Research, ITM University, Gwalior. Name of the Course and Branch: B.Sc. Microbiology Session: 2020–2021 Total No. of Students enrolled: 02

List of Students

S.No	Roll No	Name Of Students	Name of Industry/Institute	Торіс	Supervisor
1	BSMN1MB18003	Shruti Chaudhary	CISF, Jiwaji University, Gwalior	Training on Analytical Instruments: HPLC, GC, LCMS, TGA, XRD, TEM, PSA and FTIR.	Dr. Sadhna Shrivastava Senior Scientific Officer
2	BSMN3MB19T01	Laiba Arsi	CISF, Jiwaji University, Gwalior	Training on Analytical Instruments: HPLC, GC, LCMS, TGA, XRD, TEM, PSA and FTIR.	Dr. Sadhna Shrivastava Senior Scientific Officer

Dean Dean University

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ITM UNIVERSITY Gwalior (M.P)

Dean Prof. Richa Kothari School of Sciences



List of Students of BSc Microbiology 6th Semester

S.No	Roll Number	Name of student
1	BSMN1MB18003	Shruti Chaudhary
2	BSMN3MB19T01	Laiba Arsi

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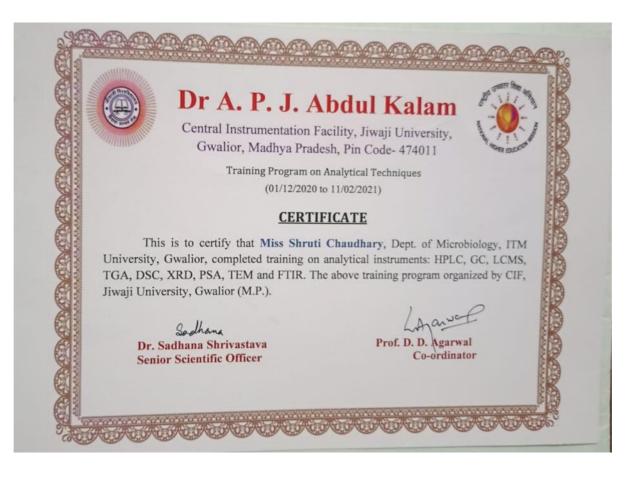
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School of Science (TM University Gradier (M.P.) NDIA 474601

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5/13/24.

Note: Due to COVID -19 precautions, no industrial visit/training was done in the session 2020-21

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