

SCHOOL OF SCIENCES

CRITERIA 1

SUB CRITERIA 1.3.3

Percentage of students undertaking research project

Academic Year

2023-2024


REGISTRAR
ITM UNIVERSITY
Gwalior (M.P.)



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“ CELEBRATING DREAMS ”

SCHOOL OF SCIENCES

Total Number of Research Project in UG

Research Project	Program	Total Number of students involved in research project
	BSc (PCM/CS)	15

The students undertake minor/ major project for increasing their practical knowledge and experience.



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NAME OF COURSE: B. SC. (CS)

SESSION 2023

SEMESTER: V

SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Sr. No.	Subject Code	Subject Name	Maximum Marks Allotted							Contact hours allotted per week			Total Credits	Remark	
			Theory Slot			Practical Slot				Total Marks	L	T			P
			End Sem.	Mid Sem. MST (Two tests average)	Class Participation	End Sem.	Progressive Evaluation	Internal viva							
1	BSFC0508	Hindi Language & Moral Values- III	40	30	30	-	-	-	100	3	1	-	04		
2	BSMA0507	Optional Paper	40	30	30				100	4	1	-	05		
3	BSMA0508	Real & Complex Analysis	40	30	30				100	4	1	-	05		
4	BSPH0505	Quantum Mechanics & Spectroscopy	40	30	30	40	30	30	200	3	1	2	05		
5	BSCS0507	Dot Net Framework	40	30	30	40	30	30	200	3	1	2	05		
6	BSPR0501	Minor Project				40	30	30	100	-	-	4	02		
7	CEAR0502	Mathematical Aptitude & Reasoning- II	40	30	30				100	2	-	2	02	Non Credit Course	
Total									900				28		

Optional Papers:

A. Statistical Methods, B. Discrete mathematics, C. Mechanics, D. Mathematical modelling, E. Financial Mathematics, F. Integral Transform.




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NAME OF COURSE: B. SC. (CS)

SESSION 20223

SEMESTER: VI

SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Sr. No.	Subject Code	Subject Name	Maximum Marks Allotted						Total Marks	Contact hours allotted per week			Total Credits	Remark
			Theory Slot			Practical Slot				L	T	P		
			End Sem.	Mid Sem. MST (Two tests average)	Class Participation	End Sem.	Progressive Evaluation	Internal viva						
1	BSFC0609	English Language - III	40	30	30	-	-	-	100	3	1	-	04	
2	BSMA0609	Linear Algebra & Numerical Analysis	40	30	30	-	-	-	100	4	1	-	05	
3	BSPH0606	Solid State Physics & Devices	40	30	30	40	30	30	200	3	1	2	05	
4	BSCS0608	Software Project Management	40	30	30	40	30	30	200	3	1	2	05	
5	BSPR0602	Major Project	-	-	-	40	30	30	100	-	-	12	06	
Total									700				25	

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 Gwalior (M.P.)

NAME OF COURSE: B. Sc. (PCM)

SESSION 2023

SEMESTER: V

SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Sr. No.	Subject Code	Subject Name	Maximum Marks Allotted						Contact hours allotted per week			Total Credits	Remark	
			Theory Slot			Practical Slot			Total Marks	L	T			P
			End Sem.	Mid Sem. MST (Two tests average)	Class Participation	End Sem.	Progressive Evaluation	Internal viva						
1	BSFC0508	Hindi Language & Moral Values - III	40	30	30	-	-	-	100	3	1	-	04	
2	BSMA0507	Optional Paper	40	30	30	-	-	-	100	4	1	-	05	
3	BSMA0508	Real & Complex Analysis	40	30	30	-	-	-	100	4	1	-	05	
4	BSPH0505	Quantum Mechanics & Spectroscopy	40	30	30	40	30	30	200	3	1	2	05	
5	BSCH0508	Organic Chemistry - III	40	30	30	40	30	30	200	2	1	2	04	
6	BSPR0501	Minor Project				40	30	30	100	0	0	4	02	
7	CEAR0502	Mathematical Aptitude & Reasoning- II	40	30	30	-	-	-	100	-	2	-	02	Non-CGPA Course
Total									900				25+02	

Optional Papers:

A. Statistical Methods, B. Discrete mathematics, C. Mechanics, D. Mathematical modelling, E. Financial Mathematics, F. Integral Transform.




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NAME OF COURSE: B. Sc. (PCM)

SESSION 2023

SEMESTER: VI

SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Sr. No.	Subject Code	Subject Name	Maximum Marks Allotted							Contact hours allotted per week			Total Credits	Remark	
			Theory Slot			Practical Slot				Total Marks	L	T			P
			End Sem.	Mid Sem. MST (Two tests average)	Class Participation	End Sem.	Progressive Evaluation	Internal viva							
1	BSFC0609	English Language - III	40	30	30	-	-	-	100	3	1	-	04		
2	BSMA0609	Linear Algebra & Numerical Analysis	40	30	30	-	-	-	100	4	1	-	05		
3	BSPH0606	Solid State Physics & Devices	40	30	30	40	30	30	200	3	1	2	05		
4	BSCH0609	Inorganic Chemistry - III	40	30	30	40	30	30	200	2	1	2	04		
5	BSPR0602	Major Project	-	-	-	40	30	30	100	-	-	12	06		
Total									700				24		

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Syllabus-2022-2023

(SOS)(BSc_PCM)

Title of the Course	Minor Project
Course Code	BSPR0501

Part A

Year	3rd	Semester	5th	Credits	L	T	P	C
					0	0	2	2
Course Type	Lab only							
Course Category	Projects and Internship							
Pre-Requisite/s				Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- dissertation, works as skills development in students(BL3-Apply) CO2- increases their mental ability(BL4-Analyze) CO3- express their opinion and thoughts.(BL3-Apply) CO4- enhancing writing skills and knowledge.(BL3-Apply)							
Course Elements	Skill Development ✓ Entrepreneurship ✗ Employability ✓ Professional Ethics ✓ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)	SDG4(Quality education)				

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
	0				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	0	60	0	40	0

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

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

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Syllabus()

Title of the Course	Major Project
Course Code	BSPR0602

Part A

Year	3rd	Semester	6th	Credits	L	T	P	C	
					0	0	2	2	
Course Type	Lab only								
Course Category	Projects and Internship								
Pre-Requisite/s				Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- dissertation, works as skills development in students(BL3-Apply) CO2- increases their mental ability(BL4-Analyze) CO3- express their opinion and thoughts.(BL3-Apply) CO4- enhancing writing skills and knowledge.(BL3-Apply)								
Course Elements	Skill Development ✓ Entrepreneurship ✗ Employability ✓ Professional Ethics ✓ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)	SDG4(Quality education)					

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
	0				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	0	60	0	40	0

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

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

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Details of UG Research project

Name of the School: School of Sciences, ITM University, Gwalior.
Name of the Course and Branch: B.Sc. (PCM/CS)
Session: 2023– 2024
Total No. of Students enrolled: 15

Sample of Research Project

S · N o	Specialization	Name of the Student	Roll NO.	Title of the project	Duration	Guide
1.	Math's	Aman Batham Shivam Dubey Abhishek Prashant Kumar Manvendra Yagvendra Yadav Sahil Singh	BSCN1CS21003 BSCN1CS210012 BSCN1CS21013 BSCN1CS21016 BSCN1CS21017 BSCN1CS21018 BSCN1CS21022	Commom Fixed Point Theorems in Complete Metric Spaces	4 Months	Dr.Akash Singhal
2	Physics	Himanshu Kushwah RahulMahour Saurabh Jadon	BSCN1CS21007 BSCN1CS21008 BSCN1CS21010	Simple LED running light circuit	4 Months	Dr.UPS Gahlaut

3	Physics	Deepak Yadav Divy Agrawal Bhoopendra	BSCN1CS210014 BSCN1CS210023 BSCN1CS21005	Free Energy generator	4 Months	Dr. UPS Gahlaut
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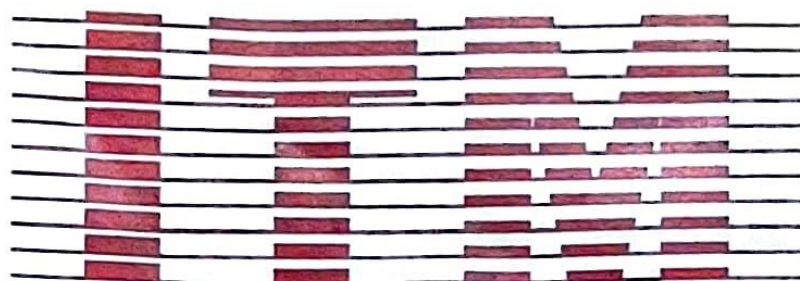


Dr. Y.C. Goswami
Dean SOS

ITM University Gwalior Campus, NH-44, Turari, Gwalior, (M.P.) - 475 001 INDIA
mail: info@itmuniversity.ac.in, web: www.itmuniversity.ac.in



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Gwalior (M.P.)



U N I V E R S I T Y

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A Major Project Report on

Dyes And Their Degradation

Submitted in Partial Fulfillment for the Award of the Degree of

Bachelor of Science


In PCM

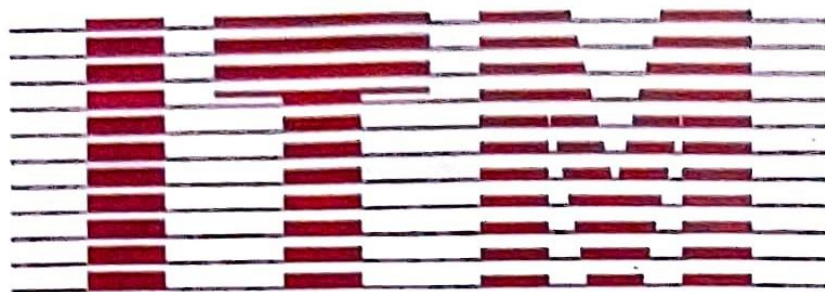
School Of Sciences

Submitted with gratitude to Dr Rupali Rastogi
(Dept. of Chemistry)

Submitted by Shubham Rathore
Course – BSc. PCM

Roll No. – BSMN1SC21005


Prof. (Dr.) Yogesh C Goswami
Dean
School of Science ITM University
Gwalior (M.P.)-INDIA-474001



U N I V E R S I T Y
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A Major Project Report on

Dyes And Their Degradation

Submitted in Partial Fulfillment for the Award of the Degree of

Bachelor of Science

In PCM


School Of Sciences

Submitted with gratitude to Dr Rupali Rastogi
(Dept. of Chemistry)

Submitted by Aryans Mourya

Course – BSc. PCM

Roll No. – BSMN1SC21003


Prof. (Dr.) Yogesh C Goswami
Dean
School of Science ITM University
Gwalior (M.P.)-INDIA-474001



Project name :- Simple Led Running light circuit


Subject :- Minor Project (BSPR0501)

Submitted To :- Mr. Uday Gahlaut

Submitted By :- Himanshu kushwah (Bscn1cs21007)

Rahul Mahor (Bscn1cs21008)

Saurabh Jadon (Bscn1cs21010)


Prof. (Dr.) Yogesh C. Goswami
Dean
School of Science, T.M. University
Gwalior, M.P. (INDIA - 474001)



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CELEBRATING DREAMS

FREE ENERGY GENERATOR

MINOR PROJECT (PHYSICS)

SUBMITTED TO:

DR. UPS GAHLOT


Prof. Dr. Ujjayanti Gaahlot
Dean
School of Science, UJJAIN University,
Ujjain (M.P.) INDIA - 481001

SUBMITTED BY:

DEEPAK YADAV

DIVY AGRAWAL

BHUPENDRA

BSC. (CS), 5TH Sem

Common Fixed Point Theorems in Complete Metric Spaces

A

MAJOR PROJECT

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF SCIENCES



Submitted By:

Aman Batham	(BSCNICS21003)
Shivam Dubey	(BSCNICS21012)
Abhishek	(BSCNICS21013)
Prashant Kumar	(BSCNICS21016)
Manvendra	(BSCNICS21017)
Yagvendra Yadav	(BSCNICS21018)
Sahil Singh	(BSCNICS21022)

May 2024

Under the Guidance of

Dr. Akash Singhal

Assistant Professor, Department of Mathematics

ITM University Gwalior

A handwritten signature in black ink, appearing to read 'Yogesh C Goswami'.

Prof. (Dr.) Yogesh C Goswami
Dean

School of Science ITM University
Gwalior (M.P.) INDIA-474001