

SCHOOL OF SCIENCES

CRITERIA 1

SUB CRITERIA 1.3.3

Percentage of students undertaking research project

Academic Year

2022-2023

SCHOOL OF SCIENCES

Total Number of Research Project in UG

| Research Project | Program | Total Number of students involved in research project |
|------------------|--------------|---|
| | BSc (PCM/CS) | 13 |

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


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Gwalior (M.P.)

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


NAME OF COURSE: B. SC. (CS)

SESSION 2022

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 | 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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NAME OF COURSE: B. Sc. (PCM)

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()

| | |
|----------------------------|---------------|
| 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 |
|---------|----------|----------|-------|
|---------|----------|----------|-------|

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: 2022– 2023
Total No. of Students enrolled: 03

Sample of Research Project

| S. No | Specialization | Name of the Student | Title of the project | Duration | Guide |
|-------|----------------|--|--|----------|--|
| 1. | Math' | Kanupriya Sengar Sushant Singhal Aman Kumar Sinha | Common Fixed Point Theorems in b Metric Spaces | 4 Months | Dr.Manish Sharma and Dr.Akash Singhal |
| 2 | Chemistry | Bhanu Singh Rana Manoj Kumar Anurag Kulshreshta Rashmi Rajput Shivangi | Metal Sulphide Nanoparticles | 4 months | Dr. Ranjna Goswami |
| 3 | Chesmistry | Vaishnavi Parmar Diksha Sharma | Study of Phytochemical activities of Tulsi and Preparation of Soft Clay from Phenol Formaldehyde Polymer | 4 months | Dr. Rupali Rastogi |
| 4 | Chemistry | Piyanka Mishra Rajkumar Warkade Yuvraj Singh | Application of tamarind wood in developing invisible handwriting and preparation of WPCs as sustainable material | 4 months | Dr. Rupali Rastogi |

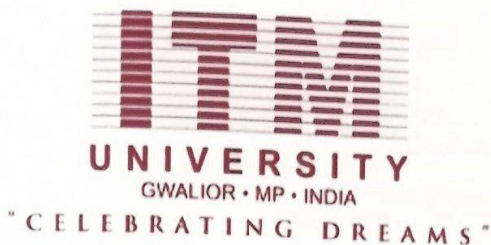


Common Fixed Point Theorems in b- Metric Spaces

A

MAJOR PROJECT

Submitted in partial fulfilment for the award of the degree of
BACHELOR OF SCIENCES



Submitted By:

Kanupriya Sengar (BSMNISC20001)

Sushant Singhal (BSMNISC20005)

Aman Kumar Sinha (BSCNICS20019)

May 2023

Under the Guidance of

Dr. Manish Sharma


Associate Professor, Department of Mathematics

ITM University Gwalior

Dr. Akash Singhal

Assistant Professor, Department of Mathematics

ITM University Gwalior


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

CERTIFICATE

This is to certify the work title "Common Fixed Point Theorems in b Metric Spaces" submitted by Kanupriya Sengar (BSMN1SC20001), Sushant Singhal (BSMN1SC20005) and Aman Kumar Sinha (BSCN1CS20019) in partial fulfilment for the award of degree of B.Sc (PCM/CS), ITM University, Gwalior has been carried out under my supervision.

To the best of my knowledge and belief, the project:

1. Has been duly completed.
2. Is up to the standard in both the respect of contents and language.
3. Fulfils the requirement of ordinance relating to B.Tech degree of the university.

SUPERVISOR NAME

Dr. Akash Singhal

(Assistant Professor)

Department of Mathematics

ITM University Gwalior

Dr. Manish Sharma

Dr. Manish Sharma 05 May 2023

Associate Professor

Department of Mathematics

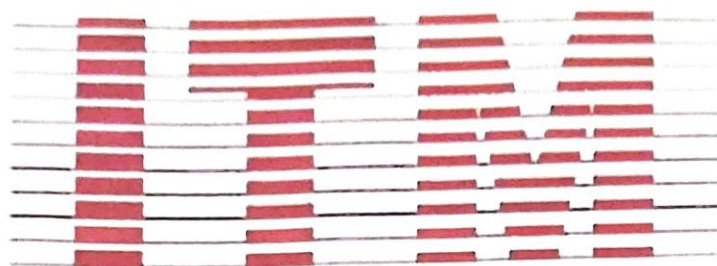
ITM University Gwalior

Dr. Y.C. Goswami

Dr. Y.C. Goswami

Dean School of Sciences

ITM University Gwalior



UNIVERSITY

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“ CELEBRATING DREAMS ”

MAJOR PROJECT

• STUDY OF PHYTOCHEMICAL ACTIVITIES OF
TULSI STEM AND PREPARATION OF SOFT
CLAY FROM PHENOL FORMALDEHYDE
POLYMER.

SUBMITTED TO: DR. RUPALI RASTOGI

ASST. PROFESSOR

DEPARTMENT OF CHEMISTRY


SCHOOL OF SCIENCES

SUBMITTED BY: DIKSHA SHARMA

VAISHNAVI PAMAR

B.SC PCM, 6TH SEMESTER

BATCH 2020-23


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



ITM UNIVERSITY GWALIOR

MAJOR PROJECT WORK

ON

*Application of tamarind wood in developing invisible handwriting
and preparation of WPCs (Wood Polymer Composites) as
sustainable material.*

Submitted To

Dr . Rupali Rastogi

Associate professor

Department of Chemistry

SOS, ITM University, Gwalior



Submitted by

Priyanka Mishra (bsmn1sc20013)

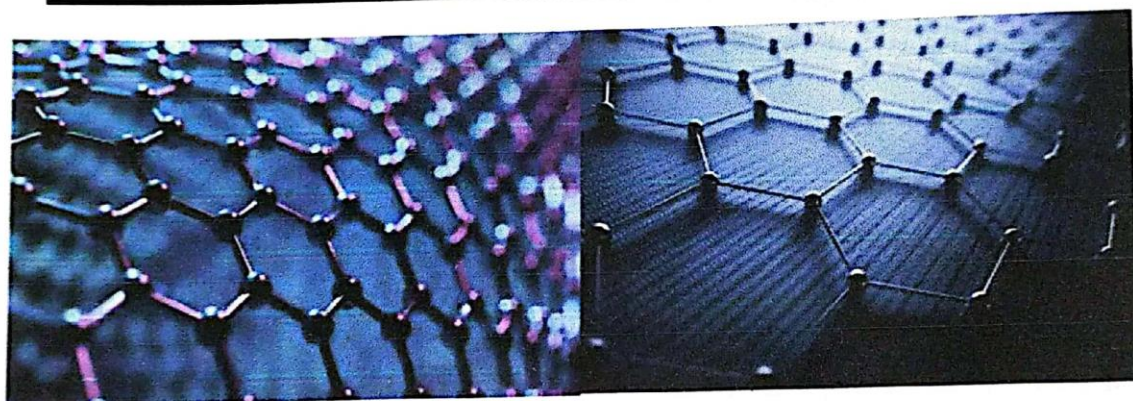
Rajkumar Warkade (bsmn1sc20020)

Yuvraj Singh (bsmn1sc20007)


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



METAL SULPHIDE NANOPARTICLES



SUBMITTED TO:

Dr. Ranjana Goswami

Associate Professor

Department of Chemistry

School of Sciences

SUBMITTED BY:

Bhanu Singh Rana [08]

Manoj Kumar [02]

Anurag Kulshreshta [10]

Rashmi Rajput [19]

Shivangi [04]

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