

Methodology for Curriculum Development & Implementation



Feedback from Stakeholders:

- 1. Student**
- 3. Alumni**
- 4. Corporate**
- 5. Parents**



Analysis and Suggestion of Feedback



Incorporation to Board of Studies (BOS)



Academic Council



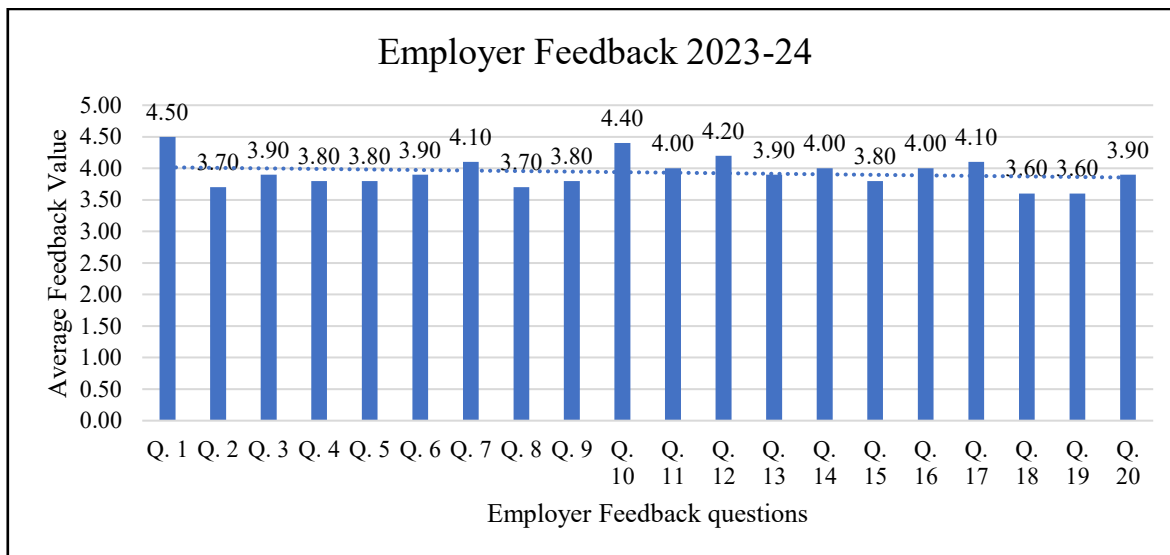
Implementation in Curriculum



Swarnim Science College

Action Taken Report on Employer Feedback 2023-24

➤ Graphical Representation: -



➤ Summary: -

| Questions | Excellent | Very Good | Good | Average | Poor |
|-----------|-----------|-----------|------|---------|------|
| 1 | 5 | 5 | 0 | 0 | 0 |
| 2 | 0 | 7 | 3 | 0 | 0 |
| 3 | 1 | 7 | 2 | 0 | 0 |
| 4 | 0 | 8 | 2 | 0 | 0 |
| 5 | 0 | 8 | 2 | 0 | 0 |
| 6 | 1 | 7 | 2 | 0 | 0 |
| 7 | 3 | 5 | 2 | 0 | 0 |
| 8 | 1 | 5 | 4 | 0 | 0 |
| 9 | 0 | 8 | 2 | 0 | 0 |
| 10 | 5 | 4 | 1 | 0 | 0 |
| 11 | 2 | 6 | 2 | 0 | 0 |
| 12 | 3 | 6 | 1 | 0 | 0 |
| 13 | 1 | 7 | 2 | 0 | 0 |
| 14 | 1 | 8 | 1 | 0 | 0 |
| 15 | 1 | 7 | 1 | 0 | 0 |
| 16 | 0 | 1 | 0 | 0 | 0 |
| 17 | 3 | 5 | 2 | 0 | 0 |
| 18 | 0 | 6 | 4 | 0 | 0 |
| 19 | 0 | 6 | 4 | 0 | 0 |
| 20 | 1 | 8 | 1 | 0 | 0 |



Swarnim Science College

Action Taken Report on Employer Feedback 2023-24


➤ **Suggestion received from Employer**

1. Content should be more related to research and modern era
2. More instrumentation topics should be added in curriculum
3. Research methodology subject should be added
4. Introduce NEP-2020 in Curriculum

➤ **Suggested action:**

1. Revise content to align with current research trends and modern scientific advancements.
2. Include more instrumentation-related topics to enhance technical and analytical skills.
3. Add a dedicated subject on Research Methodology to build foundational research competencies.
4. Implement curriculum changes in line with NEP-2020 guidelines to ensure holistic and flexible education.



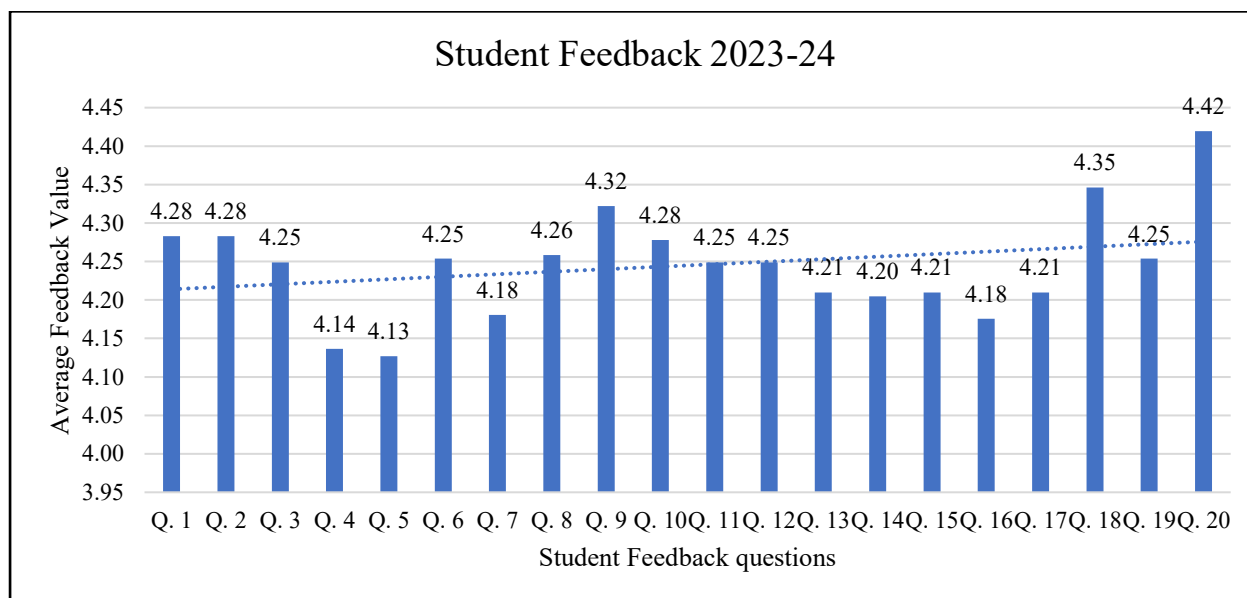

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SWARNIM STARTUP & INNOVATION UNIVERSITY
BHOYAN RATHOD, KALOL, GANDHINAGAR.



Swarnim Science College

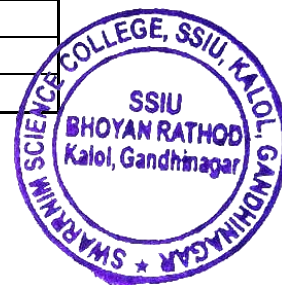
Action Taken Report on Student Feedback 2023-24

➤ Graphical Representation: -



➤ Summary: -

| Questions | Excellent | Very Good | Good | Average | Poor |
|-----------|-----------|-----------|------|---------|------|
| 1 | 91 | 84 | 27 | 3 | 0 |
| 2 | 86 | 93 | 24 | 2 | 0 |
| 3 | 87 | 82 | 36 | 0 | 0 |
| 4 | 79 | 76 | 49 | 1 | 0 |
| 5 | 77 | 81 | 43 | 4 | 0 |
| 6 | 86 | 90 | 24 | 5 | 0 |
| 7 | 85 | 76 | 40 | 4 | 0 |
| 8 | 97 | 68 | 36 | 4 | 0 |
| 9 | 96 | 83 | 22 | 4 | 0 |
| 10 | 96 | 72 | 35 | 2 | 0 |
| 11 | 93 | 72 | 38 | 2 | 0 |
| 12 | 85 | 87 | 32 | 1 | 0 |
| 13 | 82 | 88 | 31 | 4 | 0 |
| 14 | 86 | 78 | 38 | 3 | 0 |
| 15 | 77 | 95 | 32 | 1 | 0 |
| 16 | 78 | 87 | 38 | 2 | 0 |
| 17 | 91 | 72 | 36 | 6 | 0 |
| 18 | 108 | 63 | 31 | 3 | 0 |
| 19 | 93 | 76 | 31 | 5 | 0 |
| 20 | 117 | 60 | 25 | 3 | 0 |





Swarnim Science College

Action Taken Report on Student Feedback 2023-24


➤ Suggestion received from Student

- Should include biotech exclusive subject.
- Give option for elective courses to choose by ourselves.
- **Change in teaching scheme and experiment**
- Incorporate interactive elements like discussion, hands on task etc.
- Introduce mathematical software like MATLAB, LaTeX etc.

➤ Suggested action:

- Introduce exclusive biotechnology subjects to deepen domain-specific knowledge.
- Offer elective course options to allow students to tailor learning based on interests and career goals.
- Revise the teaching scheme and practical experiments to align with updated pedagogical methods and industry relevance.
- Incorporate interactive teaching elements such as discussions, hands-on tasks, and group activities to enhance engagement.
- Integrate mathematical and scientific software like MATLAB and LaTeX to build technical proficiency in data analysis and documentation.



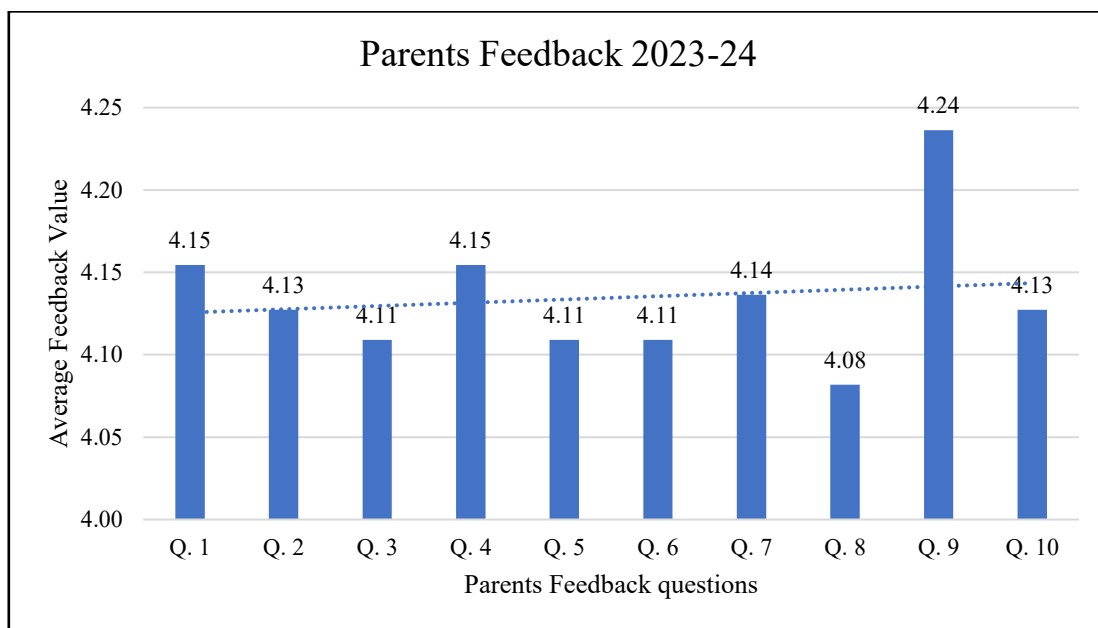

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Action Taken Report on Parents Feedback 2023-24

➤ Graphical Representation: -



➤ Summary: -

| Questions | Excellent | Very Good | Good | Average | Poor |
|-----------|-----------|-----------|------|---------|------|
| 1 | 43 | 41 | 26 | 0 | 0 |
| 2 | 39 | 46 | 25 | 0 | 0 |
| 3 | 41 | 40 | 29 | 0 | 0 |
| 4 | 41 | 45 | 24 | 0 | 0 |
| 5 | 41 | 42 | 25 | 2 | 0 |
| 6 | 42 | 38 | 30 | 0 | 0 |
| 7 | 45 | 37 | 26 | 2 | 0 |
| 8 | 39 | 43 | 26 | 2 | 0 |
| 9 | 48 | 40 | 22 | 0 | 0 |
| 10 | 39 | 46 | 25 | 0 | 0 |





Swarnim Science College

Action Taken Report on Parents Feedback 2023-24

➤ Suggestion received from Parents

1. Provide workshops on career planning, resume building, and interview skills to better prepare students for job.
2. Collaborate with more companies and industries to offer internship program
3. Subject book name provides in syllabus
4. Provide online learning platforms
5. Introduce industry-focused courses
6. Lab technician course should be including
7. Content should be relatable to local and global contexts
8. Want to learn applicable eco-friendly skills

➤ Suggested action:

1. Organize workshops on career planning, resume writing, and interview skills to enhance student employability.
2. Establish collaborations with more companies and industries to offer structured internship programs.
3. Clearly mention recommended textbooks and reference materials within the syllabus for each subject.
4. Facilitate access to online learning platforms (e.g., SWAYAM, NPTEL, Coursera) for blended and flexible learning.
5. Introduce industry-focused courses tailored to current trends and job market needs.
6. Include a lab technician course to equip students with hands-on technical skills for laboratory roles.
7. Design course content that connects theoretical knowledge to both local relevance and global applications.
8. Incorporate modules on eco-friendly and sustainable practices with practical applicability.



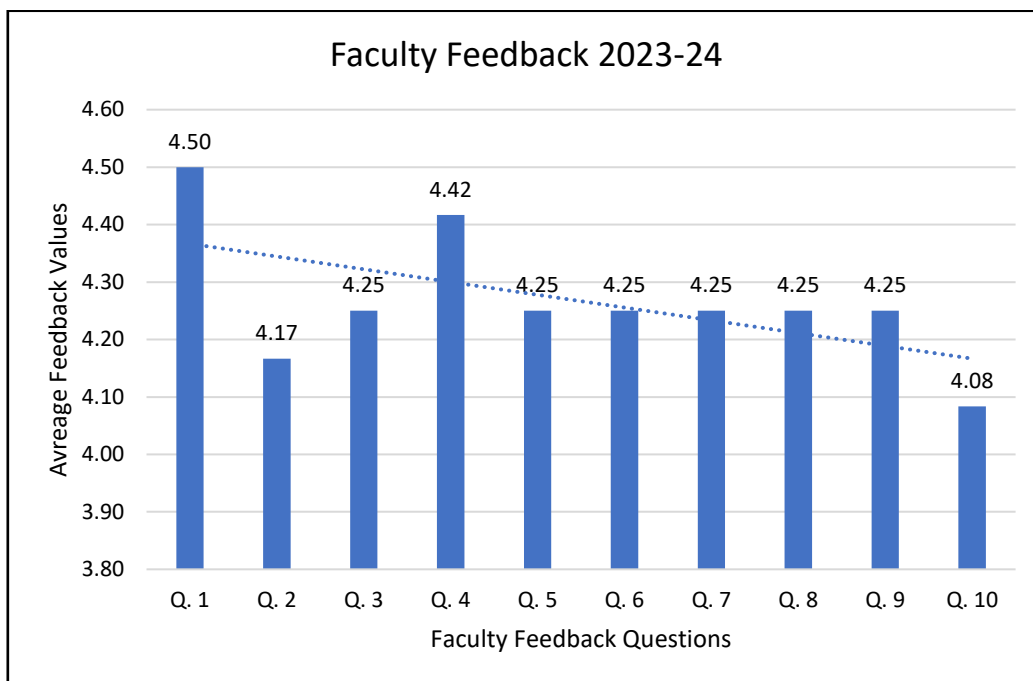
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Swarnnim Science College

Action Taken Report on Faculty Feedback 2023-24

➤ Graphical Representation: -



➤ Summary: -

| Questions | Strongly Agree | Agree | Not sure | Disagree | Strongly disagree |
|-----------|----------------|-------|----------|----------|-------------------|
| 1 | 6 | 6 | 0 | 0 | 0 |
| 2 | 4 | 6 | 2 | 0 | 0 |
| 3 | 4 | 7 | 1 | 0 | 0 |
| 4 | 5 | 7 | 0 | 0 | 0 |
| 5 | 3 | 9 | 0 | 0 | 0 |
| 6 | 5 | 5 | 2 | 0 | 0 |
| 7 | 3 | 9 | 0 | 0 | 0 |
| 8 | 3 | 9 | 0 | 0 | 0 |
| 9 | 4 | 7 | 1 | 0 | 0 |
| 10 | 3 | 7 | 2 | 0 | 0 |





Swarnim Science College

Action Taken Report on Faculty Feedback 2023-24

➤ **Suggestion received from Faculty Members**

1. Need Practical Approach in syllabus & NEP-2020 syllabus should be implemented.
2. Modern techniques should be including in replacement of Traditional one.
3. More experiment should be including.
4. Course content should be more precise.
5. Change the content & Should be more specific to title of the subject
6. Start Value added courses based on the biotechnology.
7. Green Chemistry should be teaching.
8. Add elective subject based on Chemistry.

➤ **Suggested action:**

1. Align the syllabus with NEP-2020 guidelines, focusing on multidisciplinary learning, flexibility, and skill development.
2. Replace outdated methodologies with modern tools, technologies, and techniques (e.g., molecular biology tools, bioinformatics, advanced spectroscopy, etc.).
3. Revise laboratory syllabi to include more experiments, especially those with current industry relevance and research orientation.
4. Review and revise course content to eliminate redundancies and streamline topics.
5. Ensure the syllabus is focused and directly aligned with the subject title and learning outcomes.
6. Develop and launch Value-Added Certificate Courses in trending biotech areas like CRISPR, genetic engineering, bioprocess technology, bio-entrepreneurship, etc.
7. Include Green Chemistry as a core or elective topic in chemistry-related courses.
8. Try to Offer elective subjects in applied and advanced areas of Chemistry (e.g., Analytical Chemistry, Environmental Chemistry, Pharmaceutical Chemistry).



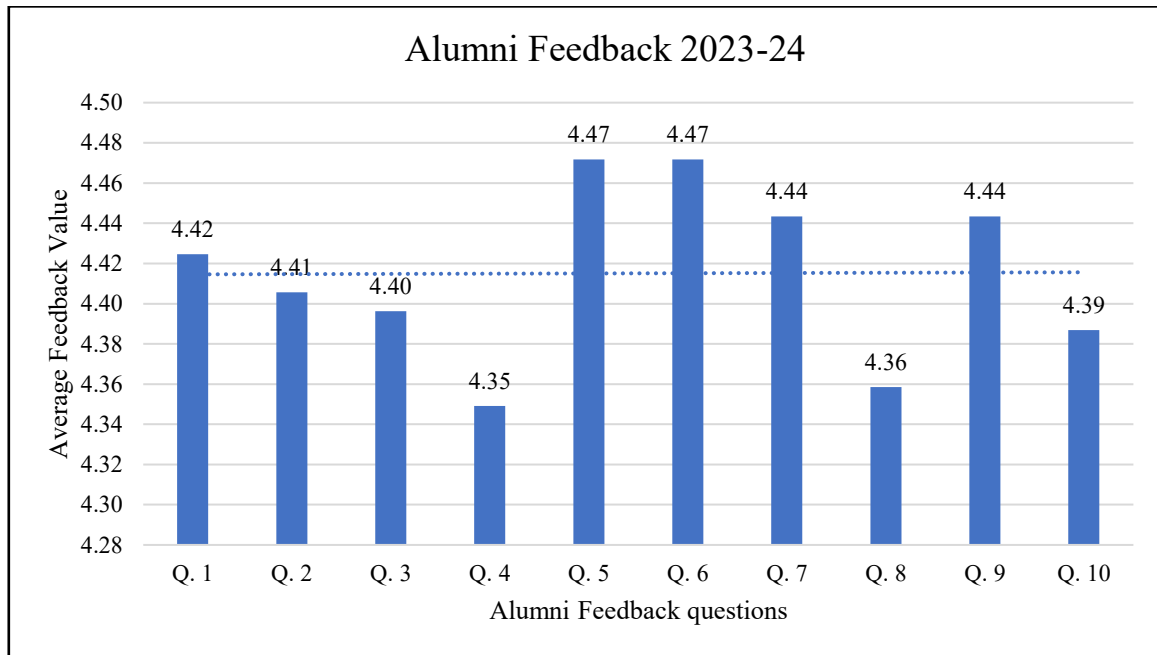
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Action Taken Report on Alumni Feedback 2023-24

➤ Graphical Representation: -



➤ Summary: -

| Questions | Excellent | Very Good | Good | Average | Poor |
|-----------|-----------|-----------|------|---------|------|
| 1 | 50 | 51 | 5 | 0 | 0 |
| 2 | 49 | 51 | 6 | 0 | 0 |
| 3 | 50 | 48 | 8 | 0 | 0 |
| 4 | 46 | 51 | 9 | 0 | 0 |
| 5 | 55 | 46 | 5 | 0 | 0 |
| 6 | 54 | 49 | 2 | 1 | 0 |
| 7 | 52 | 49 | 5 | 0 | 0 |
| 8 | 46 | 53 | 6 | 1 | 0 |
| 9 | 53 | 47 | 6 | 0 | 0 |
| 10 | 46 | 55 | 5 | 0 | 0 |





Swarnnim Science College

Action Taken Report on Alumni Feedback 2023-24


➤ Suggestion received from Alumni

1. Promote interdisciplinary projects and publishable research work
2. Add practical, job-oriented skills
3. Add entrepreneurship modules relevant to the subject area

➤ Suggested action:

1. Encourage interdisciplinary student projects with faculty mentorship and support for publication in journals or conferences.
2. Incorporate practical, job-oriented skill training and industry-relevant tools through workshops, internships, and lab-based modules.
3. Introduce subject-specific entrepreneurship modules and promote startup culture through innovation cells and expert mentorship.




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SWARNIM SCIENCE COLLEGE
Master of Science (M.Sc.) Pharmacognosy; Teaching syllabus & examination pattern

Semester 4

| Sr. No. | Subject Code | Subject Name | Credit | Teaching scheme per week | | | | Examination | | | | | | Total | |
|---------|--------------|--|--------|--------------------------|-----|-----------|-------|-------------|---------|-----|----------|----|---------|-------|-----|
| | | | | Th | Tut | Practical | Total | Internal | | | External | | | | |
| | | | | | | | | Th | PASSING | Pr | PASSING | Th | PASSING | | Pr |
| 1 | 23000017 | Project feasibility and Marketing Skills | 3 | 3 | - | - | 3 | 30 | 12 | - | - | 70 | 25 | - | 100 |
| 2 | 256110401 | Seminar | 4 | 4 | | - | 4 | 50 | 20 | | | - | - | - | 50 |
| 3 | 256110402 | Assignment | 4 | 4 | | - | 4 | 50 | 20 | | | | | | 50 |
| 4 | 256110403 | Research work - dissertation | 16 | - | - | 24 | 24 | - | - | 100 | 50 | - | - | 300 | 400 |
| | | Total | 27 | 11 | 0 | 24 | 35 | 130 | - | 100 | - | 70 | - | 300 | 600 |



V.V. Shah

Dr. Vazunda Shah
HOD & Professor

SWARRNIM SCIENCE COLLEGE

B.Sc. Microbiology Semester - I

| Sr.NO | Category of Course | Subject Code | Subject title | Teaching Scheme (Per week) | | |
|-------|--------------------|--------------|---|----------------------------|----------|---------|
| | | | | Theory | Tutorial | Credits |
| 1 | Major | BSC230107 | History and Development of Microbiology | 4 | 0 | 4 |
| 2 | | BSC230108 | Microbiology Practical I | 0 | 8 | 4 |
| 3 | Minor | BSC230111 | Fundamentals of Biotechnology | 2 | 0 | 2 |
| 4 | | BSC230112 | Biotechnology Practical I | 0 | 4 | 2 |
| 5 | MDC | BSC230103 | Basic Chemistry-I | 2 | 0 | 2 |
| 6 | | BSC230104 | Chemistry Practical I | 0 | 4 | 2 |
| 7 | SEC | SEC230101 | Introduction to Entrepreneurship -I | 2 | 0 | 2 |
| 8 | IKS | IKS230101 | Indic Knowledge System-I | 2 | 0 | 2 |
| 9 | AEC | AEC230101 | Literature and Language-I | 2 | 0 | 2 |
| Total | | | | | | 22 |

B.Sc. Microbiology Semester - II

| Sr.NO | Category of Course | Subject Code | Subject title | Teaching Scheme (Per week) | | |
|-------|--------------------|--------------|---|----------------------------|----------|---------|
| | | | | Theory | Tutorial | Credits |
| 1 | Major | BSC230207 | Fundamentals of microscopy | 4 | 0 | 4 |
| 2 | | BSC230208 | Microbiology Practical 2 | 0 | 8 | 4 |
| 3 | Minor | BSC230211 | Biomolecules and bioanalytical techniques | 2 | 0 | 2 |
| 4 | | BSC230212 | Biotechnology Practical 2 | 0 | 4 | 2 |
| 5 | MDC | BSC230203 | Basic Chemistry-II-T | 2 | 0 | 2 |
| 6 | | BSC230204 | Chemistry Practical 2 | 0 | 4 | 2 |
| 7 | SEC | SEC230202 | Introduction to Entrepreneurship -II | 2 | 0 | 2 |
| 8 | IKS | IKS230201 | Indic Knowledge System-II | 2 | 0 | 2 |
| 9 | AEC | AEC230201 | Literature and Language-II | 2 | 0 | 2 |
| Total | | | | | | 22 |



For Date
24/11/24

24.4.24

2. Syllabus:

| Module | Contents | No of Sessions | Weightage |
|--------|--|----------------|-----------|
| 1 | HISTORY OF MICROBIOLOGY <ul style="list-style-type: none"> • Microbial World and Microscope • The spontaneous generation • Microbial effects on organic matter • The role of Microbes in causation of Disease History of Virology | 15 | 25 % |
| 2 | GENERAL MICROBIOLOGY <ul style="list-style-type: none"> • An introduction to Microbiology • Microbiology: A multifaceted Science Position of Microorganisms in living world • Prokaryotes and eukaryotes | 15 | 25 % |
| 3 | SCOPE OF MICROBIOLOGY <ul style="list-style-type: none"> • Major groups of Microorganisms • Distribution of Microorganisms in nature • Applied areas of Microbiology | 15 | 25 % |
| 4 | DEVELOPMENT OF PURE CULTURE TECHNIQUES <ul style="list-style-type: none"> • Development of immunology, Molecular Biology and Biotechnology • Development of Modern immunology and Chemotherapy • Development of Agricultural microbiology | 15 | 25 % |

3. Evaluation

| | | |
|---|---|---------------------------|
| 1 | Assignments / Quizzes / Class Participation / Role Play/ Project etc. | 30% (Internal Assessment) |
| 2 | Internal Examination | 20% (Internal Assessment) |
| 3 | External Examination (University Exam) | 50% (External Assessment) |

Arjun
24/4/24



1
24.4.24

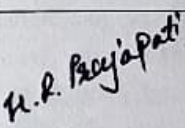
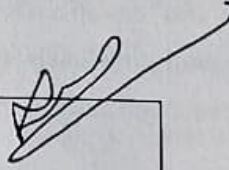
Board of Studies – Minutes of Meeting

Swarinim Science College

Following are the members of BoS (Board of Studies) of 2 Course that comes in Semester 5 & 6 (Green Chemistry & Biodiversity) whose meeting held on 20/05/2024 for the discussion of syllabus, teaching scheme and modification of syllabus for Mentioned courses, course running under SSIU for their academic semester/year starting from month of July, 2024 which is chaired by Provost and continued by Registrar and Academic deans and heads of different specialization/courses/branch of different schools of SSIU.

BoS members for Physics (B.Sc. - UG)

| Name of Faculty/expert | Designation – Organization | Remarks/ Suggestions |
|------------------------|--|---|
| Dr. Hemant Prajapati | Associate Professor, Department of Chemistry, SGGU, Godhra, Gujarat | 1. Expert has Proposed of External examiner for practical exams also they suggested for paper setting and paper checking. 2. Based on Syllabus, Exposure Visit Could be added to curriculum. |
| Dr. Archana Pandey | I/C Principal, Swarinim Science College, SSIU | |

| | |
|---|--|
|  Dr. Hemant Prajapati |  Dr. Priti Mahla Dr. Archana Pandey |
| External BoS member | Internal BoS member |



Swarnim Start-Up & Innovation University
Swarnim Science College

Bachelor of Science

Semester V

Course Title: Green Chemistry

Course Code: 253000503

| Teaching Scheme | | | | Credit | Evaluation Scheme | | | | |
|-----------------|----|---|-------|--------|-------------------|----|----------|----|-------|
| Th | Tu | P | Total | | Internal | | External | | Total |
| | | | | | Th | Pr | Th | Pr | |
| 2 | - | - | 2 | 02 | 30 | - | 70 | - | 100 |

1. Course Outcomes (COs)

| | |
|------|---|
| CO 1 | Define and explain the principles, importance, and community role in green chemistry |
| CO 2 | Design environmentally friendly chemical syntheses using the twelve principles of green chemistry |
| CO 3 | Assess chemical reaction efficiency using concepts like reaction mass balance and atom economy |
| CO 4 | Describe the use of green solvents, media, and the roles of catalysis in chemical processes |
| CO 5 | Utilize advanced green chemical strategies, including microwave reactors, for sustainable development |
| CO 6 | Explain principles and applications of photochemical degradation for eco-friendly waste treatment |

2. Detailed Syllabus

| Module | Contents | No of Sessions | Weightage |
|--------|---|----------------|-----------|
| 1 | Introduction to Green Chemistry Introduction, Benefits of Green Chemistry, Green chemistry metrics, Atom Economy, Percentage yield, Reaction mass efficiency, Effective mass efficiency, Environmental factor | 8 | 25% |
| 2 | Principles of Green Chemistry Principles of Green Chemistry and Designing a Chemical synthesis, Reactions and some real world cases, Future Trends in Green Chemistry, Green Dry Cleaning of Clothes, Versatile Bleaching Agents, Green Solution to Turn Turbid Water Clear | 8 | 25% |
| 3 | Green Solvents Introduction, Super Critical Fluids Extraction, Solvents of supercritical fluid extraction, Supercritical carbon dioxide-sCO ₂ , Applications of supercritical CO ₂ , Features of supercritical carbon dioxide, Advantages of supercritical CO ₂ as solvents, Ionic Liquids | 8 | 25% |
| 4 | Green Synthesis Introduction, Synthesis of adipic acid, Synthesis of catechol, Synthesis of benzyl bromide, Synthesis of Paracetamol, Synthesis of Ibuprofen, Microwave assisted reactions in water, Ultrasound assisted reactions | 6 | 25% |

3. Evaluation

| | | |
|---|--|---------------------------|
| 1 | Internal Examination | 30% (Internal Assessment) |
| 2 | External Examination (University Exam) | 70% (External Assessment) |



Swarnim Start-Up & Innovation University

Swarnim Science College

Bachelor of Science

Semester V

Course Title: Biodiversity

Course Code: 253000603

| Teaching Scheme | | | | Credit | Evaluation Scheme | | | | |
|-----------------|----|---|-------|--------|-------------------|----|----------|----|-------|
| Th | Tu | P | Total | | Internal | | External | | Total |
| | | | | | Th | Pr | Th | Pr | |
| 2 | - | - | 2 | 02 | 30 | - | 70 | - | 100 |

1. Course Outcomes (COs)

| Cos | Course Outcome Statement |
|-----|--|
| CO1 | Explain the definition, levels, importance, and threats to biodiversity, and evaluate conservation efforts. |
| CO2 | Identify and categorize microbial diversity and assess their industrial, pharmaceutical, and agricultural utilities. |
| CO3 | Use sampling techniques to quantify plant diversity and describe geodiversity, forests, and medicinal plants. |
| CO4 | Classify faunal diversity into invertebrates and vertebrates, and explain evolutionary trends. |
| CO5 | Propose strategies for biodiversity conservation and sustainable resource use. |

2. Detailed Syllabus

| Module | Contents | No of Sessions | Weightage |
|--------|---|----------------|-----------|
| 1 | Biodiversity -Definition, different levels, importance, threats, Global and local efforts for conservation. | 4 | 25% |
| 2 | Microbial Diversity - Different forms, Utility - industrial, pharmaceutical, agricultural, methods for isolation and identification | 4 | 25% |
| 3 | Plant Diversity - Sampling for quantification, different forms, geodiversity, forests and medicinal plants | 4 | 25% |
| 4 | Faunal Diversity - Origin of life, characteristics, different forms, invertebrates, vertebrates, evolutionary trend | 4 | 25% |

4. Evaluation

| | | |
|---|--|---------------------------|
| 1 | Internal Examination | 30% (Internal Assessment) |
| 2 | External Examination (University Exam) | 70% (External Assessment) |

3. Reading for Suggested Syllabus/Reference books

1. Biodiversity, TERI, New Delhi
2. Textbook of Microbiology, S Chand and Co., New Delhi
3. An Advanced Textbook on Biodiversity, Oxford & IBH, New Delhi
4. Ecology, Cengage Learning, New Delhi APA.

Semester 4

| | | | Semester 4 | | | | Examination | | | | | | | | | | Total |
|---------|--------------|--|------------|--------------------------|-----|-----------|-------------|-----|---------|-----|---------|----|----------|-----|---------|-----|-------|
| Sr. No. | Subject Code | Subject Name | Credit | Teaching scheme per week | | | | | | | | | | | | | |
| | | | | Th | Tut | Practical | Total | Th | PASSING | Pr | PASSING | Th | PASSI NG | Pr | PASSING | | |
| 1 | 23000017 | Project feasibility and Marketing Skills | 3 | 3 | - | - | 3 | 30 | 12 | - | - | 70 | 25 | - | - | 100 | |
| 2 | 256110401 | Seminar | 4 | 4 | - | - | 4 | 50 | 20 | - | - | - | - | - | - | 50 | |
| 3 | 256110402 | Assignment | 4 | 4 | - | - | 4 | 50 | 20 | - | - | - | - | - | - | 50 | |
| 4 | 256110403 | Research work - dissertation | 16 | - | - | 24 | 24 | - | - | 100 | - | 50 | - | 300 | 150 | 400 | |
| | | Total | 27 | 11 | 0 | 24 | 35 | 130 | - | 100 | 70 | - | - | 300 | - | 600 | |



V.V. Shah

Dr. Vaunda Shah
HOD & Professor

**Swarnim Startup & Innovation University
SWARNIM SCIENCE COLLEGE**

Master of Science (M.Sc.) Clinical Pharmacology; Teaching syllabus & examination pattern

Semester 4

| Sr. No. | Subject Code | Subject Name | Credit | Teaching scheme per week | | | | Examination | | | | | | Total | |
|---------|--------------|--|--------|--------------------------|-----|-----------|-------|-------------|---------|-----|----------|----|---------|-------|-----|
| | | | | Th | Tut | Practical | Total | Internal | | | External | | | | |
| | | | | | | | | Th | PASSING | Pr | PASSING | Th | PASSING | | Pr |
| 1 | 23000017 | Project feasibility and Marketing Skills | 3 | 3 | - | - | 3 | 30 | 12 | - | - | 70 | 25 | - | 100 |
| 2 | 256100401 | Seminar | 4 | 4 | - | - | 4 | 50 | 20 | - | - | - | - | - | 50 |
| 3 | 256100402 | Assignment | 4 | 4 | - | - | 4 | 50 | 20 | - | - | - | - | - | 50 |
| 4 | 256100403 | Research work + dissertation | 16 | - | - | 24 | 24 | - | - | 100 | 50 | - | - | 300 | 400 |
| | | Total | 27 | 11 | 0 | 24 | 35 | 130 | - | 100 | - | 70 | - | 300 | 600 |



[Signature]

Dr. Vinay Dursi
Professor & Principal

**Swarnim Startup & Innovation University
SWARNIM SCIENCE COLLEGE**

Master of Science (M.Sc.) Quality Assurance: Teaching syllabus & examination pattern

Semester 4

| Semester 4 | | | | | | | | | | | | | | | | |
|------------|--------------|--|--------|--------------------------|-----|-----------|-------------|----------|---------|-----|----------|----|----------|-----|-------|---------|
| Sr. No. | Subject Code | Subject Name | Credit | Teaching scheme per week | | | Examination | | | | | | | | Total | |
| | | | | Th | Tut | Practical | Total | Internal | | | External | | | | | |
| | | | | | | | | Th | PASSING | Pr | PASSING | Th | PASSI NG | Pr | | PASSING |
| 1 | 23000017 | Project feasibility and Marketing Skills | 3 | 3 | - | - | 3 | 30 | 12 | - | - | 70 | 25 | - | 100 | |
| 2 | 256080401 | Seminar | 4 | 4 | - | - | 4 | 50 | 20 | - | - | - | - | - | 50 | |
| 3 | 256080402 | Assignment | 4 | 4 | - | - | 4 | 50 | 20 | - | - | - | - | - | 50 | |
| 4 | 256080403 | Research work - dissertation | 16 | - | - | 24 | 24 | - | - | 100 | 50 | - | - | 300 | 400 | |
| | | Total | 27 | 11 | 0 | 24 | 35 | 130 | - | 100 | - | 70 | - | 300 | 600 | |

Gloria

Dr. Mona Kaushal
HOD & Professor



Swarnim Startup & Innovation University

SWARNIM SCIENCE COLLEGE

Master of Science (M.Sc.) Pharmaceutics; Teaching syllabus & examination pattern

Semester 4

| Sr. No. | Subject Code | Subject Name | Credit | Teaching scheme per week | | | | Examination | | | | | | Total |
|---------|--------------|--|--------|--------------------------|-----|-----------|-------|-------------|-----|---------|----------|---------|-----|-------|
| | | | | Th | Tut | Practical | Total | Internal | | | External | | | |
| | | | | | | | | PASSING | Pr | PASSING | Th | PASSING | Pr | |
| 1 | 23000017 | Project feasibility and Marketing Skills | 3 | 3 | - | - | 3 | 12 | - | - | 70 | 25 | - | 100 |
| 2 | 256070401 | Seminar | 4 | - | - | 4 | 4 | - | 50 | 25 | - | - | - | 50 |
| 3 | 256070402 | Assignment | 4 | - | - | 4 | 4 | - | - | - | - | - | - | - |
| 4 | 256070403 | Research work - dissertation | 16 | - | - | 24 | 24 | - | 100 | 50 | - | - | 300 | 400 |
| | | Total | 27 | 3 | 0 | 32 | 35 | - | 150 | - | 70 | - | 0 | 550 |



Dr. Sumita Choudhary
Dr. Sumita Choudhary
HOD in Pharmaceutics

Swarnim Startup & Innovation University
SWARNIM SCIENCE COLLEGE

Master of Science (M.Sc.) Pharmacology; Teaching syllabus & examination pattern

Semester 4

| Sr. No. | Subject Code | Subject Name | Credit | Teaching scheme per week | | | Examination | | | | | | Total | |
|---------|--------------|--|--------|--------------------------|-----|-----------|-------------|---------|-----|----------|----|---------|-------|-----|
| | | | | Th | Tut | Practical | Internal | | | External | | | | |
| | | | | | | | Th | PASSING | Pr | PASSING | Th | PASSING | | Pr |
| 1 | 23000017 | Project feasibility and Marketing Skills | 3 | 3 | - | - | 30 | 12 | - | - | 70 | 25 | - | 100 |
| 2 | 256090401 | Seminar | 4 | 4 | - | - | 50 | 20 | - | - | - | - | - | 50 |
| 3 | 256090402 | Assignment | 4 | 4 | - | - | 50 | 20 | - | - | - | - | - | 50 |
| 4 | 256090403 | Research work - dissertation | 16 | - | - | 24 | - | - | 100 | 50 | - | - | 150 | 400 |
| | | Total | 27 | 11 | 0 | 24 | 130 | - | 100 | - | 70 | - | - | 600 |



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