

## BOARD MEETING.

Date : 28/02/24.

A meeting of board of studies was held on 28/02/24, Wednesday to discuss the following agenda :

1. Discuss the new Syllabus based on NEP (autonomy).
2. Approval of the syllabus
3. Suggestions

### Board Members :

1. Dr. Harshang Pandya	Chairman	H.P.
2. Ms. Sunita Jha	Member	S. Jha
3. Dr. Vijaya N.	Member	Vijaya
4. Dr. Rakesh Rawal	Member	R. Rawal
5. Dr. Heena Datta	Member	H. Datta
6. Dr. Pina Trivedi	Member	P. Trivedi
7. Dr. Samarth S Bhatt	Member	S. Bhatt
8. Dr. Spandan Chaudhary	Member	S. Chaudhary

End of Suggestions helped to improvise and add specific details in various topics, especially include practical research needed applications.

A discussion was held amongst the above Biochemistry Board members on 28/2/24 regarding Semester - I & II Biochemistry Syllabus. After the discussion, Syllabus has been approved by the board members for Semester I - DSC - C - 111T & 112P, SEC - 116 Semester II - DSC - C - 121T & 122P, SEC - 126

H.P. S. Jha Vijaya



ATR Report (Minutes of meeting) Dt: June 29/6/24  
(Action Taken Report)

of Sem I & II

Syllabus, format, design, contents are in accordance with suggestions and inputs given by the BOS members & NEP guidelines.

It has been sent to the BOS members and it is approved.

Dr. Hareshang Pandya

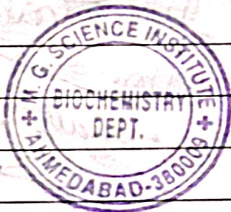
Ms. Sunita Jha

Dr. Vijaya Nadagouda

~~H.P.~~

~~S.J.~~

~~V.N.~~





19/11/24

## BOARD MEETING

A meeting of board of studies was held on 19/11/24, Tuesday to discuss the following Agenda:

### Agenda:

1. To approve the minutes of the meeting of 28/02/2024
2. To approve the syllabus of B.Sc. Biochemistry of Sem - III & Sem - IV (NEP, autonomous)
3. To approve the syllabus of PA Diploma (self financed) course on Nutrition and Dietetics.
4. Any other suggestions/remarks from the members to be discussed and implemented.

### Board Members:

- |                          |          |
|--------------------------|----------|
| 1. Dr. Harshang Pandya   | Chairman |
| 2. Ms. Sunita Jha        | Member   |
| 3. Dr. Vijaya Nadagouda  | Member   |
| 4. Dr. Heena Dane        | Member   |
| 5. Dr. Pina Trivedi      | Member   |
| 6. Dr. Samarth S Bhatt   | Member   |
| 7. Dr. Spandan Choudhary | Member   |

Sign

HARSHANG

S. Jha

Vijaya

Heena

Pina

Samarth

Spandan



## ATR Report: (Minutes of Meeting)

1. Few suggestions and changes made in the Sem - III, ~~3~~ Sem IV NEP, Autonomous Syllabus.
2. Course outcomes were justified by the members.
3. Minor inputs by the BOS members were implemented in all papers, both theory and practicals, unitwise.
4. Regarding Self finance course: Nutrition & Dietetics, ~~now~~ another draft to be done 'after taking in their valuable suggestions'. (especially theory papers)
5. Meeting Scheduled on 27/11/24 to review the new drafted syllabus.

Dr. Harshang Pandya

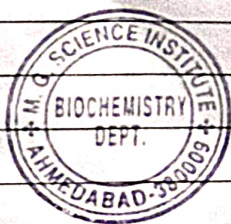
Ms. Sunita Thakur

Dr. Vijaya Nadagouda

~~HP~~  
~~S. Jha~~  
~~Vij~~

Remarks: 1. Members of the board volunteered for taking some sessions for the benefit of the students, both Biochemistry and for the self finance course on Nutrition.

2. Members also agreed to support on skill enhancement experiments.





27/11/24

## BOARD MEETING

### ATR Report:

After the preliminary BOS meeting on the self finance course to start June 2025 onwards a meeting was held on 27/11/24 and the following ammendments were implemented:

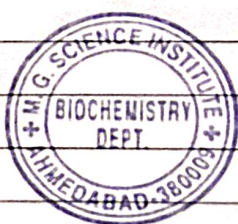
1. New name of the course
2. Some units to be edited & Simplified so that the theory part is concise and students find it more interesting and easy to assimilate.
3. Add units of current interest and research like Nutrigenomics etc.

The edited course syllabus details were approved.

Remarks: Course is comprehensive, interesting and would create awareness in society. It will open avenues for employability.

### Board Members:

- |                           |          |          |
|---------------------------|----------|----------|
| 1. Dr. Harshang. Pantale. | Chairman | Signed.  |
| 2. Ms. Sumita V. Jha      | Member   | H.A.     |
| 3. Dr. Vijaya. Nadagouda  | Member   | S. Jha   |
| 4. Dr. Heena. Dave        | Member   | Vij.     |
| 5. Dr. Pina Trivedi       | Member   | H. Dave  |
| 6. Dr. Samant Bhatt       | Member   | Approved |
| 7. Dr. Sreenday Chaudhary | Member   | Bhatt    |







# Mafatlal Gagalbhai Science Institute

## (M. G. Science Institute)(Autonomous)

(Accredited "A" level by National Assessment And Accreditation Council, 2007)

P. B. No. 4007, Opp, Gujarat University, Navarangpura, Ahmedabad-380 009. ☎ Phone : 079-26302872 ,079-26300242

**Ref. No.:**

**Date: 11/12/2024**

Biotechnology Department  
Board of studies Meet-2

### Minutes of the Meeting

**Date:** Wednesday, 11<sup>th</sup> September 2024

**Time:** 11.00 AM onwards

**Venue:** MG Science Institute, Ahmedabad 380009

The board of studies meet for Biotechnology department held at Biochemistry lab, MG Science institute on at 11<sup>th</sup> September 2024 11.00 am, in which 06 board members were present, the list of present board members is as follows:

1. Dr. Shivani Raval, The Chairperson  
Head, Department of Biotechnology
2. Dr. Gaurav Sanghvi - Subject Expert  
Associate Professor and Head  
Department of Microbiology, Marwadi University, Rajkot
3. Dr. Nishant S. Junaarkar – Subject expert  
Assistant Professor, (GES Class II)  
Department of Microbiology, Gujarat Arts and Science College, Ahmedabad
4. Dr. Vikram H Raval- V.C. Nominee  
Assistant Professor, Department of Microbiology and Biotechnology,  
School of Science  
Gujarat University, Ahmedabad
5. Dr. Daxa Sakhiya – Industrial Expert  
Manager, Gujarat Science Biotechnology Mission,  
Department of science and technology, GOG
6. Dr. Nupoor Goyal – BOS member (invited)  
Professor and Head, Department of Microbiology

Points were discussed in the meet are under the following AGENDA:

1. **Welcome and Opening Remarks**
  - By: Chairperson/Head of Department
2. **Curriculum Review and Updates**
  - Proposed curriculum for **Biotechnology Undergraduate Program- semester 3 and 4**
  - Feedback and suggestions from committee members.
3. **Industry-Academia Collaboration Initiatives**
  - Suggestions for enhancing student exposure to industry practices.
4. **Open Forum**





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**Ref. No.:**

**Date: 11/12/2024**

- Open floor for any additional points or suggestions from committee members.

### 5. Concluding Remarks

- Final remarks and confirmation of the next meeting.

### POINTS DISCUSSED WITH RESOLUTIONS

The meeting initiated with welcome address by Chairperson followed by review, suggestions and implementations for the syllabus as follows:

#### Semester III Courses

Course BTM 231- Protein synthesis and its regulation has been deleted and chromosome biology has been introduced.

Crossing over has been introduced in unit 1

Course BTM 232 – addition of types of animal and plant tissues in unit 1

Deletion of repeating topics like maintenance and types of tissue cultures

Specific sub topics are to be added was suggested for each unit and accordingly specified

Course BTM 233- Addition of demonstration of animal cell lines has been done

#### Semester III Skill enhancement course

Spectrophotometer has been reduced according to teaching timing (only introductory portion is limited)

Practicals DNSA and folin lowry's methods are replaced with lamda max determination practical and circular paper chromatography is omitted upon less utility.

#### Semester IV Courses

Semester IV Course BTM241- all units are specified with subtitles with a suggestion of teaching time verses depth of topic. Signal transduction and hormonal regulation is omitted and replaced by basics of signal transduction due to undergraduate level.

Semester IV Course BTM242 – Unit 1 and 2 were accepted as per the proposal while unit 3 and 4 have been reframed as per the suggestions. Hypersensitivity has been added instead of genes and regulations of MHC molecules in unit 3.

Semester IV Course BTM243 – Rocket - immunoelectrophoresis has been omitted from the list of practicals.

Semester IV Course BT SEC246





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**Ref. No.:**

**Date: 11/12/2024**

Centrifugation has been introduced as an important analytical tool. Native PAGE has been introduced under gel electrophoresis.

The above suggestions were discussed by all members and were incorporated in the syllabus with their due permissions.

The meeting ended with concluding remarks to pass the proposed syllabus of Biotechnology Program Semester III and Semester IV with necessary above mentioned changes.

The next meeting of BOS is proposed to be held in July25.

Dr. Shivani Raval

Head, Biotechnology Department

MG Science Institute (Autonomous)

Ahmedabad





# Mafatlal Gagalbhai Science Institute

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**Ref. No.:**

**Date: 27/09/2024**

Biotechnology Department  
Board of studies Meet-1

### Minutes of the Meeting

**Date:** Saturday, 27<sup>th</sup> September 2024

**Time:** 11.00 AM onwards

**Venue:** MG Science Institute, Ahmedabad 380009

The board of studies meet for Biotechnology department held at Embedded lab-physics, MG Science institute on 27<sup>th</sup> October 24 at 11.00 am, in which all board members were present, the list of board members is as follows:

1. Dr. Shivani Raval, The Chairperson  
Head, Department of Biotechnology
2. Dr. Gaurav Sanghvi - Subject Expert  
Associate Professor and Head  
Department of Microbiology, Marwadi University, Rajkot
3. Dr. Nishant S. Junaarkar – Subject expert  
Assistant Professor, (GES Class II)  
Department of Microbiology, Gujarat Arts and Science College, Ahmedabad
4. Dr. Vikram H Raval- V.C. Nominee  
Assistant Professor, Department of Microbiology and Biotechnology,  
School of Science  
Gujarat University, Ahmedabad
5. Dr. Daxa Sakhiya – Industrial Expert  
Manager, Gujarat Science Biotechnology Mission,  
Department of science and technology, GOG
6. Dr. Ronak Chhaya- Alumni
7. Dr. Nupoor Goyal – BOS member (invited)  
Professor and Head, Department of Microbiology

Points were discussed in the meet are under the following agenda:

1. Opening Remarks
2. Curriculum Review and Updates
3. Industry-Academia Collaboration Initiatives
4. Student Assessment and Evaluation Strategies
5. Open Forum
6. Concluding Remarks

### POINTS DISCUSSED WITH RESOLUTIONS

The meeting initiated with introduction of BOS members, as this is the first meet for this subject, followed by review and suggestions and implementations for the syllabus as follows:





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**Ref. No.:**

**Date: 27/09/2024**

Semester I Course BTM 111

- Unit 1 Term change from Types of DNA to Forms of DNA suggested by Dr. Goyal. Should be included, also structure and functions of DNA and RNA both.
- Unit 3 Carbohydrates and Lipids in one unit and Unit 4 for energy rich compounds in which unit 4: point 4 should be energy rich compounds and its biological role.
- Title of the paper should be molecules of life as suggested by Dr. Gaurav as per the international standards its required to have single topic/subject based title.
- Similarly, various titles should be specific, also practical paper title should be specific as Practical-I
- All POs and COs should match and satisfy to blooms taxonomy.

Semester I Course BT SEC 117

- Arid zone BT can be more elaborative as agriculture biotechnology

Semester II Course BT SEC 127

- GDP – good distribution practice can be included in unit 1
- Gowning steps can be taught as the part of skill practical, as suggested by Dr. Ronak Chaaya

The meeting ended with concluding remarks to pass the proposed syllabus of Biotechnology Program Semester I and Semester II with necessary above mentioned changes.

The next meeting of BOS is proposed to be held in last week of November 24.

Dr. Shivani Raval

Head, Biotechnology Department

MG Science Institute (Autonomous)

Ahmedabad

**Title: Minutes of the meeting of the 1st Meeting of the Botany Board of Studies of M. G. Science Institute (Autonomous)**

A meeting of the botany BOS was arranged on Saturday, 2nd March, 2024 at MGSI.

Following members were present:

1. Dr. Alpana Shukla- Chairperson
2. Dr. Dhaval Vaghela- Member
3. Dr. Zankhana Rathod-Member
4. Ms. Dhruvi Gamit-Member
5. Dr. M. N. Desai- GU appointed subject representative
6. Ms. Madhavi Joshi- Member other than Gujarat Uni.
7. Dr. Monika Christian- Industry representative
8. Dr. Ruby Patel- Alumni representative

At the outset the chairman Dr. Alpana Shukla extended a warm welcome to all the members present.

The agenda items were then taken one by one as follows:

**Agenda 1: Introduction of members.**

As this was the first meeting of Botany-BOS of M.G. Science (Autonomous) all members were requested to introduce themselves. The round of introduction was a much-needed exercise to break the ice.

**Agenda 2: Briefly about M.G. Science Autonomy and Botany Department**

Dr. Shukla gave brief about M.G. Science Autonomy and what would be its salient features. She also gave an idea about activities at the botany department. Dr. Dhaval and Dr. Zankhana added to the various ongoing activities. The new members extended their warm congratulations for getting autonomous status.

**Agenda 3: Discussion and passing of syllabus for semester I and II**

Dr. Alpana Shukla made a presentation of the proposed syllabus of Botany semester I and II including programme outcomes and course outcomes. Dr. Z.N. Rathod outlined the spread of various units across all the semesters. The house was then open to discussion.

Madhavi Joshi pointed out the importance of marine ecosystem and looking at the point made it was agreed unanimously to include components of marine ecosystem in semester I and II.

Dr. Desai highlighted the plight of BSc. Botany as far as student interest was concerned and to add topics which would be of current relevance.



Dr. Ruby Patel highlighted the importance of interdisciplinary subjects like environment science, genetics, cytology, biotechnology etc. for botany students at all levels.

Dr. Monika Christian appreciated the fact that right from the first year, students would be taken on industrial visit to understand entrepreneurial aspects.

All agreed upon including report writing and project making right from semester I and II. The proposed syllabus was then passed unanimously. Two Skill enhancing course (SEC) were proposed in the syllabus and students would have to choose any one. Choice of both the subjects as a skill enhancing course was very much appreciated by all the members.

#### **Agenda 4: Any other matter**

Madhavi Joshi Madam and Dr. Monika Christian gave insight in starting of various certificate courses and Dr. Manisha Desai as well as Dr. Ruby Patel offered to help in development of such courses.

#### **RESOLUTION:**

1. The Botany Board of Studies resolved to record its minutes of agenda by circulation.
2. The house resolved to pass the Botany syllabus for semester I and II for the year 2024-25.
3. The house resolved to keep updating regarding Botany syllabus of semester III and IV

30th November, 2024

### **Minutes of the Meeting of the Board of Studies, Botany**

A meeting of the members of **Board of Studies, Botany** was convened on Saturday, 30<sup>th</sup> November, 2024, at 12 pm in the Botany lab-1 of the M. G. Science Institute (Autonomous).

Following members remained present in the meeting:

- |                        |                         |
|------------------------|-------------------------|
| 1. Dr. Alpana Shukla   | 2. Dr. Madhavi Joshi    |
| 3. Dr. Nikhil Lele     | 4. Dr. Monika Christian |
| 5. Dr. Manisha Desai   |                         |
| 6. Mr. N.R. Mulia      | 7. Dr. D.K. Vaghela     |
| 8. Dr. Zankhana Rathod | 9. Ms. Dhruvi Gamit     |

Following were the agenda for the meeting:

1. Welcome and report of activities done by the department in the previous semester.
2. Approval of Botany UG Sem III and Sem IV (autonomous) syllabus.
3. Approval of changes and edition in the semI and semII syllabus
4. Report of proposed activities and new courses.
5. Discuss linkage and MoU opportunities with Govt. organizations, industry and NGOs.
6. Any other matter with the permission of the chair.

**Resolution 1:** The report as shown by the HOD, Dr. Alpana was accepted with unanimous appreciation and it was resolved to follow up with further activities in the current semester.

**Resolution 2:** The draft of syllabus for UG Botany Semesters III and IV was sent in advance to all the members of the board. There was suggestion to include wetland study and exclude vermicomposting and biofuels in the SEC paper of semIV which was agreed upon by all. The hard copy of the finalised syllabus was signed by all. It was agreed that the entrepreneurial aspect of the subject should be highlighted. Dr. Shukla to share the final syllabus to the Principal for passing in the GB meeting.

**Resolution 3:** A few minor changes were needed in the previously passed syllabus of Sem I and II. These were agreed upon by all. Dr. Rathod to send the final soft copy to Dr. Shukla by 10<sup>th</sup> December, 2024 to be further shared for the website upgradation.



**Resolution 4:** Discussion happened on few activities to be carried out in the current semesters like talks on vocational guidance, expert lecture on IKEBANA- the Japanese art of flower arrangement, student projects, industry visits, Certificate courses, etc. A draft of activities with tentative dates will be shared by 20<sup>th</sup> December, 2024 to all members.

**Resolution 5:** Linkages and MoUs are much needed by any organization in order to fulfil its vision and mission. The Board members were happy to note the MoU signed with NGO Treewalks.

It was suggested that interdepartmental linkages must be strengthened. Also, there should be linkages and MoUs with sister Institutions. As far as industry is concerned, it has been decided that Dr. Vaghela and Dr. Rathod will prepare a list of service based and entrepreneurial industries in and around Ahmedabad as well as Government, semi-govt. organizations to check possibility of visits, linkages and MoUs.

**Resolution 6:** As per suggestions from senior external members, a separate SEC paper on Natural dyes and Dye making will be included in the coming semesters of third year.

*Alpana Shukla*

Dr. Alpana Shukla

Dr.Madhavi Joshi

Dr. Nikhil Lele

Dr. Monika Christian

Dr. Manisha Desai

Mr. N.R. Mulia

Dr. D.K.Vaghela

Dr. Zankhana Rathod

Ms. Dhruvi Gamit



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Ref. No. \_\_\_\_\_

Date : / /20

## M. G. SCIENCE INSTITUTE (Autonomous)

### Department of Chemistry

#### Minutes of Meeting

Venue of Meeting: **Department of chemistry**

Date and time of Meeting: **04/03/2024, 01:30 to 04:00 P.M.**

#### Agenda of meeting:

- To finalize the syllabus of B.Sc. Chemistry SEM - 1, SEM - 2 Of each paper according to NEP
- To finalize the titles of each paper of theory and practical
- To finalize the pattern of theory and practical papers
- To finalize the syllabus of M.Sc. Chemistry SEM -1, SEM - 2 of each paper according to NEP
- To finalize the learning outcome
- To finalize the course outcome and program outcome

During the meeting following members were present

1. Dr. Shailesh N. Zala (Chairperson)
2. Dr. J. J. Vora (Incharge Principal)
3. Dr. Kishor Chikhaliya (Member Veer Narmad University)
4. Dr. Sanjay Shah (Member Principal Pilvai Science College)
5. Dr. Nirmal D. Desai (Alumni Member)
6. Dr. M. M. Maisuria (V.C. Representative Gujarat University)
7. Mr. Parag Shah (Member Shah Industry)
8. Dr. Rina V. Shah (Member)
9. Dr. P. K. Patel (Member)
10. Dr. D. I. Prajapati (Member)
11. Mr. C. C. Rathod (Member)
12. Dr. J. H. Parikh (Member)
13. Dr. R. K. Patel (Member)
14. Dr. B.B. Baldaniya (Member)
15. Dr. N. M. Shah (Member)
16. Dr. J. J. Patel (Member)
17. Dr. J. K. Desai (Member)
18. Dr. N. N. Chudasama (Member)
19. Dr. N. K. Chavda (Member)
20. Dr. Manhar Palsaniya (Member)

Dr. S. N. Zala has welcomed the esteemed guests and have introduced them with staff members. Staff members have introduced themselves to the guest and commenced the discussions.

#### Following points were discussed during the meeting:

- Dr. Rina V. Shah has presented the proposed syllabus of B.Sc. Chemistry SEM - 1, SEM - 2 (theory) in detail along with its topics and titles and its objectives based on NEP.
- She has further discussed the credit score, hours of teaching and assessment of proposed theory papers.





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- She has also discussed the contents of practical papers of B.Sc. SEM-1, SEM-2 along with its credit scores. The contents are applicable in industries in day today basis.
- Exam pattern was discussed amongst BOS.
- Major and minor subjects which are to be incorporated in the syllabus was discussed amongst BOS.
- Dr. J. J. Vora has presented the proposed M.Sc. Chemistry Syllabus and suggested for the self-finance M.Sc. Course.
- M.Sc. syllabus was principally approved by the BOS, however the changes suggested by the honourable member will be taken into consideration and a copy will be mailed for final approval.

## Suggestions:

### By Dr. Nirmal D. Desai

1. Guidance regarding the programme course/ programme specific outcome.
2. Suggested some changes in PSO and PO
3. Guidance regarding mapping.
4. Coding of paper according to SOP of NEP
5. Informed about the new software's

### By Mr. Parag Shah

1. To bring awareness amongst students regarding the practical aspects of chemistry
2. To teach students the importance and working of new automatic equipment's like burette and pipet in the lab
3. To teach students the commercial aspects of reactions and to bring awareness about the pattern of reaction
4. To introduce the topic in syllabus like pollution control and affluent treatment which are major concerned in today's industrial waste management system
5. He has also invited faculty along with students to visit his industry which can give exposure to the students and to understand the real scenario of industry that can help to fill the gap between education and its implementation in real world.

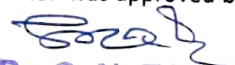
### By Prof. Kishore Chikhaliya

1. Appreciated skill based paper of B.Sc. Chemistry SEM-1
2. He has made the special remark that the content of ASC-SEM-1 and SEM-2 which is very helpful for laboratory reagent preparation and would prove very helpful students to explore computer skill.

### Dr. M. M. Maisuria (V.C. Representative Gujarat University)

1. Appreciated skill based paper of B.Sc. Chemistry SEM-1 and M. Sc. Sem -1  
Syllabus of B.Sc. Chemistry SEM-1, SEM-2 (2024 – 2025) based on NEP was approved by all the BOS members.  
Next BOS will be in the month of September-October 2024.

Vote of thanks was proposed by Dr. S.N. Zala

  
**Dr. S. N. ZALA**  
HEAD OF THE CHEMISTRY DEPT.  
M. G. Science Institute,  
AHMEDABAD-9.

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Ref. No. \_\_\_\_\_

Date : / /20

## BOS Meeting (Chemistry)

Place:- M. G. Science Institute

Date:- 04-03-2024

Time :- 01.30 PM

Sr. No.	Name	Titels	Category	Signature
1	Dr. Shailesh N zala	Chairperson	Head of the Department	
2	Dr. Suman H Patel	Member	Faculty	
3	Dr. Rina V Shah	Member	Faculty	
4	Dr. Jwalant J Vora	Member	Faculty	
5	Dr. Popatbhai K Patel	Member	Faculty	
6	Dr. Dinesh I Prajapati	Member	Faculty	
7	Prof. Chetan C Rathod	Member	Faculty	
8	Dr. Jatin H Parikh	Member	Faculty	
9	Dr. Rajesh K Patel	Member	Faculty	
10	Dr. Bharat B Baldaniya	Member	Faculty	
11	Dr. Nirmal M Shah	Member	Faculty	
12	Dr. Jagruti J Patel	Member	Faculty	
13	Dr. Jaimin K Desai	Member	Faculty	
14	Dr. Netal N Chudasma	Member	Faculty	
15	Dr. Naimish K Chavda	Member	Faculty	
16	Dr. Manhar V Parsania	Member	Faculty	
17	Dr. Kishor Chikhaliya	Member	Member from out of Gujarat Uni.	
18	Dr. Sanjay Shah	Member	Member from out of Gujarat Uni.	
19	Dr. Mukesh M Maisuriya	Member	Gujarat Uni. VC Nominee	
20	Dr Nirmal D Desai	Member	Alumni Member	
21	Dr. Parag M Shah	Member	Industry Member	

Dr. S. N. ZALA

HEAD OF THE CHEMISTRY DEPT.  
M. G. Science Institute,  
AHMEDABAD-9.



**M G SCIENCE INSTITUTE**

**CHEMISTRY DEPARTMENT**

**Action taken for 28/02/24 BOS meeting minutes**

Course codes have arranged as per SOP on NEP as suggested by Dr Nirmal Desai.

Minor changes in M sc syllabus were incorporated in M Sc chemistry PCHE 402 unit 1 syllabus as suggested by Dr K H Chikhaliya.

Syllabus of B Sc sem II SEC 126 Chemistry Major was designed to increase the awareness about computer applications in chemistry

Dr S N Zala



**Dr. S. N. ZALA**  
**HEAD OF THE CHEMISTRY DEPT.**  
M. G. Science Institute,  
AHMEDABAD-9.



# Mafatlal Gagalbhai Science Institute

(M. G. Science Institute) (Autonomous)  
(Managed by The Ahmedabad Education Society)

Accredited "A" level by NAAC (3<sup>rd</sup> Cycle), 2021.

Opp. Gujarat University, P. B. No. 4007, Navarangpura, Ahmedabad-380 009. ☎ Phone: 079-26302872, M. No. 8000826318

Ref. No. \_\_\_\_\_

## Department of Chemistry

### Minutes of Meeting

Date :     /     /20

Date and time of Meeting: 16/12/2024, 012:30 to 04:00 P.M.

### Agenda of meeting

Venue of Meeting: Department of chemistry

- To confirm the minutes of last meeting
- Opening remarks and introduction
- Updates on B.Sc. Chemistry SEM - III, SEM - IV, M. Sc. curriculum development
- Biotech MDC syllabus
- Any other business

During the meeting following members were present

1. Dr. Shailesh N. Zala (Chairperson)
2. Dr. J. J. Vora (Incharge Principal)
3. Dr. Kishor Chikhaliya (Member Veer Narmad University)
4. Dr. Nirmal D. Desai (Alumni Member)
5. Dr. M. M. Maisuria (V.C. Representative Gujarat University)
6. Mr. Parag Shah (Member Shah Industry)
7. Dr. Rina V. Shah (Member)
8. Dr. D. I. Prajapati (Member)
9. Mr. C. C. Rathod (Member)
10. Dr. J. H. Parikh (Member)
11. Dr. R. K. Patel (Member)
12. Dr. B.B. Baldaniya (Member)
13. Dr. N. M. Shah (Member)
14. Dr. J. J. Patel (Member)
15. Dr. J. K. Desai (Member)
16. Dr. N. N. Chudasama (Member)
17. Dr. N. K. Chavda (Member)
18. Dr. Manhar Palsaniya (Member)

Dr Sanjay Shah (Member H N G University) was absent

Dr. S.N. Zala has welcomed the esteemed guests and introduced them with staff members. Staff members have introduced themselves to the guest and commenced the discussions.

### Following points were discussed during the meeting:

- Dr. Dinesh Prajapati has presented the proposed syllabus of B.Sc. Chemistry SEM – III, SEM – IV in detail along with its topics and titles and its objectives based on NEP.
- Dr. Dinesh Prajapati has further discussed the credit score, hours of teaching and assessment of proposed theory papers.
- Dr Rina Shah discussed the contents of practical papers of M.Sc. SEM-III, SEM-IV in detail along with its topics and titles and its objectives. The contents are applicable in industries in day today basis.
- Exam pattern was discussed amongst BOS.
- Major and minor subjects which are to be incorporated in the syllabus were discussed amongst BOS.
- Dr. Chandramauli Sharma presented the proposed M.Sc. Chemistry Syllabus and suggested for the self-finance M.Sc. Course.
- Dr Rina Shah discussed minor revision to be under taken for B Sc sem II Chemistry and Biotech CHMDC 124 paper effective from Dec 2024 & revised practical papers in B. Sc. Chemistry Sem I & II effective from June 2025



- B.Sc., M.Sc. syllabus was principally approved by the BOS, however the changes suggested by the honourable member will be taken into consideration and a copy will be mailed for final approval.

**Suggestions:**

**By Dr. Nirmal D. Desai**

1. Informed about the new AI based syllabus
2. To reduce length of some units in M Sc sem 3 paper PCHE(O) 502
3. To reduce length of some units in M Sc sem 3 paper PCHE(O) 504

**By Mr. Parag Shah**

1. To bring awareness amongst students regarding the practical aspects of chemistry
2. To teach students the commercial aspects of reactions and to bring awareness about the pattern of reaction
3. To introduce the topic in syllabus like pollution control and affluent treatment which are major concerned in today's industrial waste management system
4. He invited faculty and students to visit his industry which can give exposure to the students and faculty to understand the real scenario of industry which can fill the gap between academics and industry.

**By Prof. Kishore Chikhaliya**

1. To include some important organic preparations
2. To reduce length of some units in M Sc sem 3 paper PCHE(O) 502
3. To reduce length of some units in M Sc sem 3 paper PCHE(O) 504
4. Practical involving the use of Cd to be excluded

**Dr. M. M. Maisuria (V.C. Representative Gujarat University)**


1. Practical involving the use of iodine and KI to be kept as demo practical in M Sc

Syllabus of B.Sc. Chemistry SEM-III, SEM-IV (2025 – 2026) based on NEP was approved by all the BOS members.

Syllabus of M.Sc. Chemistry SEM-III, SEM-IV (2025 – 2026) was approved by all the BOS members.

Next BOS will be in the month of March 2025.

Vote of thanks was proposed by Dr. S.N. Zala

  
**Dr. S. N. ZALA**  
 HEAD OF THE CHEMISTRY DEPT.  
 M. G. Science Institute,  
 AHMEDABAD-9.



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Ref. No. \_\_\_\_\_

Date : / /20

**BOS Meeting (Chemistry)**  
**Place :- M. G. Science Institute**

**Date :-16-12-2024**

**Time :-12.30 PM**

Sr. No.	Name	Titels	Category	Signature
1	Dr. Shailesh N Zala	Chairperson	Head of the Department	
2	Dr. Suman H Patel	Member	Faculty	
3	Dr. Rina V Shah	Member	Faculty	
4	Dr. Jwalant J Vora	Member	Faculty	
5	Dr. Dinesh I Prajapati	Member	Faculty	
6	Prof. Chetan C Rathod	Member	Faculty	
7	Dr. Jatin H Parikh	Member	Faculty	
8	Dr. Rajesh K Patel	Member	Faculty	
9	Dr. Bharat B Baldaniya	Member	Faculty	
10	Dr. Nirmal M Shah	Member	Faculty	
11	Dr. Jagruti J Patel	Member	Faculty	
12	Dr. Jaimin K Desai	Member	Faculty	
13	Dr. Netal N Chudasma	Member	Faculty	
14	Dr. Naimish K Chavda	Member	Faculty	
15	Dr. Manhar V Parsania	Member	Faculty	
16	Dr. Kishor H Chikhaliya	Member	Member from out of Gujarat Uni.	
17	Dr. Sanjay Shah	Member	Member from out of Gujarat Uni.	
18	Dr. Mukesh M Maisuriya	Member	Gujartat Uni. VC Nominee	
19	Dr. Nirmal D Desai	Member	Alumni Member	
20	Dr. Parag M Shah	Member	Industry Member	

**Dr. S. N. ZALA**  
**HEAD OF THE CHEMISTRY DEPT.**  
M. G. Science Institute,  
AHMEDABAD-9.



**M G SCIENCE INSTITUTE**

**CHEMISTRY DEPARTMENT**

**Action taken for 16/12/24 BOS meeting minutes**

Practicals at UG & PG chemistry have been designed avoiding the use of toxic chemicals as per Dr M M Maisuriya, of Dr Nirmal Desai and Dr K H Chikhaliya. Some preparations at M Sc level introduced as per suggestions of Dr K H Chikhaliya.

In M Sc sem 3 paper PCHE(O)502 & PCHE 504 syllabus in each paper reduces as per suggestions.

Arranged Industrial visit of Shah Industries owned by Mr Parag Shah for faculty and M Sc students to understand real scenario of industry. As a result many students opt industrial training from Shah Industries.



**Dr S N Zala**

**Dr. S. N. ZALA**  
HEAD OF THE CHEMISTRY DEPT.  
M. G. Science Institute,  
AHMEDABAD-9.

## Minutes of the Board of Studies Meeting Held on 30th September

**Date:** 30th September 2024

**Time:** 11:00 AM

**Venue:** MG Science Institute

### Attendees:

1. **Ms. Rachana Gendiwal - chairperson**
2. **Dr. R. D. Chaudhari - Faculty**
3. **Mr. Rahul Nawab – Subject Expert**
4. **Dr. Heena Timani – Industry Expert**
5. **Dr. Manish Vakotar – University Nominee**
6. **Dr. Parag Shah - Expert**

### Key Discussions and Recommendations:

1. **Curriculum Enhancement** The meeting opened with a discussion on how to enhance the curriculum to better prepare students for industry challenges.
  - o **All** emphasized the need to integrate subjects that focus on **critical thinking, problem-solving, and communication skills**. These skills are essential for graduates to thrive in diverse professional environments.
  - o **All** of them further suggested that students pursuing the **Data Science** course should develop strong **analytical skills** along with their technical competencies. This combination will ensure that graduates can not only work with data but also derive actionable insights.
2. **Subject Suggestions for Future Syllabus**

Several new subjects were proposed to be included in the curriculum to align it with future industry needs:

  - o **Advanced Analytics** was recommended by **Dr. Heena Timani, Mr. Rahul Nawab**, who pointed out its growing importance in sectors like marketing, finance, and healthcare, where predictive analysis is increasingly in demand.
  - o **Web Analytics** was suggested by **Dr. Parag Shah**, as this field has become crucial in understanding digital consumer behavior and improving website performance.
  - o **Data Privacy and Security**, proposed by **all**, was identified as a critical subject, especially in today's data-driven economy where protecting sensitive information is paramount.
  - o **Database Management Systems (DBMS) with SQL** was proposed to be added to the **Semester-II** syllabus by **Dr. Heena Timani**. SQL proficiency is seen as a fundamental skill in almost all data-related roles, and early exposure to it will enhance students' technical expertise.
3. **Emphasis on Practical Learning**

The experts agreed that the curriculum should place **greater emphasis on the practical aspects** of subjects.



- **Dr. Parag Shah** suggested that alongside theoretical lessons, practical workshops and labs should be introduced to help students apply concepts to real-world problems. This hands-on experience will better prepare them for future roles in industry and academia.
  - **Dr. Heena Timani** also recommended using **case studies** and **project-based learning** as part of assessments, ensuring students can demonstrate their ability to solve complex, industry-relevant problems.
4. **Development of Presentation Skills**  
**Mr. Rahul Nawab** stressed the need for students to develop strong **presentation and communication skills**. It was suggested that students should present their project work regularly, which will help them improve their ability to communicate technical concepts clearly and confidently, an essential skill in any professional setting.
5. **Industry Interaction and Expert Talks**  
 It was recommended by **Mr. Rahul Nawab** that the institution should facilitate **weekly talks by industry experts**. These sessions will help students gain insight into current industry practices and trends, providing them with an understanding of how classroom knowledge is applied in real-world contexts.
- **Dr. Manish Vakotar** also suggested that these sessions should be interactive, with opportunities for students to engage directly with professionals through Q&A sessions, fostering a closer connection between students and the industry.
6. **Subject Name Changes**  
**Dr. Heena Timani** proposed updating certain subject names to better reflect their content and alignment with industry standards. The suggested name changes are documented in the attached updated syllabus.

### Action Items:

- **DBMS with SQL** will be added to the **Semester-II** syllabus to provide students with fundamental database management skills.
- The recommended subjects (**Advanced Analytics, Web Analytics, Data Privacy and Security**) will be incorporated into the curriculum.
- Increased focus on **practical learning** and **presentation skills** will be integrated across all programs.
- **Weekly industry expert talks** will be scheduled to connect students with industry professionals.
- Subject name changes as recommended will be updated in the syllabus.

### Conclusion:

The meeting concluded with a unanimous agreement on the importance of these updates to the curriculum. These changes will help students become more industry-ready, equipping them with both the technical and soft skills required to excel in the evolving job market.

**Prepared by:** Ms. Rachana Gendiwal

**Date:** 10-oct-2024

**Attachment:** Updated syllabus with subject name changes and additional subject.

## **Minutes of the Board of Studies Meeting**

**Date:** 6th January 2025

**Time:** 11:00 AM

**Venue:** MG Science Institute

### ***Attendees:***

1. Ms. Rachana Gendiwal - Chairperson
2. Dr. R. D. Chaudhari - Faculty
3. Dr. Nandita Christy - Subject Expert
4. Dr. Heena Timani - Industry Expert
5. Dr. Manish Vakotar - University Nominee
6. Dr. Parag Shah - Expert

## **Key Discussions and Recommendations:**

### **1. Student Online Profiles**

Dr. Parag Shah and Dr. Nandita Christy proposed that students should create online profiles on platforms such as GitHub or Kaggle. These profiles will serve as digital portfolios showcasing their projects and technical skills, enhancing their employability and professional visibility.

### **2. Modification to Data Mining Syllabus**

Dr. Parag Shah and Dr. Heena Timani recommended removing the topic of "Clustering" from the Data Mining syllabus, leaving only an introductory overview. This adjustment aims to streamline the subject content while ensuring that students gain foundational knowledge.

### **3. Enhancements to Data Visualization Curriculum**

Dr. Heena Timani suggested the following updates to the Data Visualization syllabus to improve clarity and industry relevance:

- Clearly highlight which Python libraries are being taught.
- Specify the data domains covered during the course to provide context and relevance.
- Include the integration of Power BI with Python, R, and Excel, offering students practical exposure to modern tools and workflows.



#### **4. Incorporation of Small Projects**

All attendees emphasized the importance of incorporating small projects as assignments in each practical subject. These projects will enable students to apply theoretical knowledge to real-world scenarios, fostering deeper learning and skill development.

#### **5. Subject Name Change**

Dr. Parag Shah and Dr. Raju Chaudhari recommended changing the subject name from "Optimization Technique" to "Operational Research" to better reflect the scope and content of the subject.

#### **6. Addition to Operational Research Syllabus**

Dr. Parag Shah and Dr. Nandita Christy proposed including the "Optimal Method using UV Method" in the Operational Research syllabus to enhance the understanding of optimization techniques.

#### **Action Items:**

- **Online Profiles:** Students will be guided to create and maintain profiles on GitHub and Kaggle to showcase their work from Sem III or Sem IV.
- **Data Mining Syllabus:** The topic of "Clustering" will be reduced to an introduction in the Data Mining syllabus.
- **Data Visualization Syllabus Updates:**
  - List specific Python libraries taught.
  - Highlight the data domains covered.
  - Demonstrate the integration of Power BI with Python, R, and Excel.
- **Small Projects:** Small project assignments will be integrated into all practical subjects to enhance hands-on learning.
- **Operational Research:** Update the syllabus to reflect the name change from "Optimization Technique" to "Operational Research" and include the "Optimal Method using UV Method."

#### **Conclusion:**

The meeting concluded with all members agreeing on the importance of these recommendations for improving the curriculum. These changes aim to align the academic program with industry standards and enhance the overall learning experience of students.

**Prepared by:** Ms. Rachana Gendiwal

**Date:** 10th January 2025



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Ref. No. \_\_\_\_\_

Date: / / 20

07<sup>th</sup> December 2024

## Minutes of the Meeting

A meeting of members of "Board of Studies" in Geology was convened on Saturday, 7<sup>th</sup> December, 2024, at Geology department, M. G. Science Institute. The meeting was called to finalize the syllabus for the B. Sc. Semester III & IV as per National Education Policy (NEP) – 2020 as well as outcome-based education programme under the autonomous status of the M. G. Science Institute.

Following members were present in the meeting.

- |                        |   |
|------------------------|---|
| 1. Dr. P. M. Solanki   | Chairperson, Head of Geology department |
| 2. Dr. H. V. Majethiya | Faculty Member, Geology department      |
| 3. Dr. J. C. Lilani    | Subject expert                          |
| 4. Dr. M. S. Gadhavi   | Subject expert                          |
| 5. Dr. Shital Shukla   | Member nominated by Gujarat University  |
| 6. Mr. Yash Joshi      | Member, College Alumni                  |
| 7. Mr. Mittal Patel    | Member, Industry                        |


After detailed personal discussion, the committee has approved the syllabus for the B. Sc. Semester III & IV, which will be implemented from the academic year 2025-26.

Discussion regarding Geoinformatics – Self-finance course was made, which will be implemented from next academic year.


  
Dr. P. M. Solanki

  
Dr. H. V. Majethiya

  
Mr. Mittal Patel

  
Dr. M. S. Gadhavi







  
Dr. Shital Shukla

  
Mr. Yash Joshi



## Board of Studies in Geology

Following members were present in the meeting held on 7<sup>th</sup> December, 2024.


Sr. No.	Name	Signature
1.	Dr. P. M. Solanki	
2.	Dr. H. V. Majethiya	
3.	Mr. Mittal Patel	
4.	Dr. M. S. Gadhavi	
5.	Dr. Shital Shukla	
6.	Mr. Yash Joshi	

### Action taken report

A meeting of members of "Board of Studies" in Geology, was convened on Saturday, 7<sup>th</sup> December, 2024, at Geology department, M. G. Science Institute. The meeting was called to finalize the syllabus for the B. Sc. Semester III & IV as per National Education Policy (NEP) – 2020 as well as outcome-based education programme under the autonomous status of the M. G. Science Institute.

After detailed discussion the committee has approved the syllabus for the B. Sc. Semester III & IV, to be implemented from the academic year 2025-26.

It is also decided that new self-finance course on Geoinformatics can be started from the academic year 2025-26.

  
(Dr. P. M. Solanki)  
Head  
Geology Department  
M. G. Science Institute  
Navrangpura, Ahmedabad-9.





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## Minutes of the Meeting

Ref. No. \_\_\_\_\_

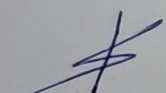
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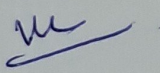
A meeting of members of "Board of Studies" in Geology, was convened on Friday, 1<sup>st</sup> March, 2024, at Geology department, M. G. Science Institute. The meeting was called to finalize the syllabus for the B. Sc. Semester I & II as per National Education Policy (NEP) – 2020 as well as outcome-based education programme under the autonomous status of the M. G. Science Institute.


Following members were present in the meeting.

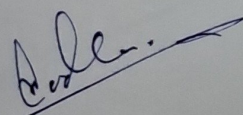
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| 3. Dr. J. C. Lilani    | Subject expert                          |
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| 5. Dr. Shital Shukla   | Member nominated by Gujarat University  |
| 6. Mr. Yash Joshi      | Member, College Alumni                  |

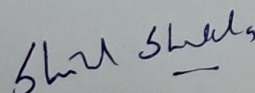
After detailed personal discussion the committee has approved the syllabus for the B. Sc. Semester I & II, to be implemented from the academic year 2024-25.

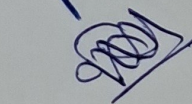
  
Dr. P. M. Solanki

  
Dr. H. V. Majethiya

  
Dr. J. C. Lilani

  
Dr. M. S. Gadhavi

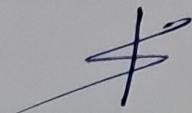
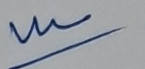
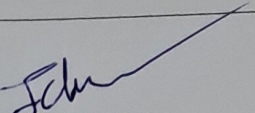
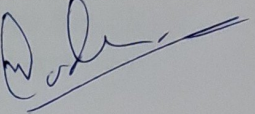
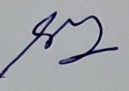
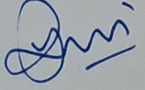
  
Dr. Shital Shukla

  
Mr. Yash Joshi



## Board of Studies in Geology

Following members were present in the meeting held on 1<sup>st</sup> March, 2024.

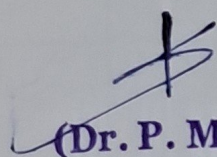
Sr. No.	Name	Signature
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4.	Dr. M. S. Gadhavi	
5.	Dr. Shital Shukla	
6.	Mr. Yash Joshi	



### Action taken report

A meeting of members of "Board of Studies" in Geology, was convened on Friday, 1<sup>st</sup> March, 2024, at Geology department, M. G. Science Institute. The meeting was called to finalize the syllabus for the B. Sc. Semester I & II as per National Education Policy (NEP) – 2020 as well as outcome-based education programme under the autonomous status of the M. G. Science Institute.

After detailed discussion the committee has approved the syllabus for the B. Sc. Semester I & II, to be implemented from the academic year 2024-25.



**(Dr. P. M. Solanki)**

**Head**

**Geology Department  
M. G. Science Institute  
Navrangpura, Ahmedabad-9.**



**Mafatlal Gagalbhai Science Institute**

**(M.G. Science Institute)**

**Navrangpura, Ahmedabad-380009**

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Recipient of DBT star college & CPE-UGC Grants

## Minutes of the first meeting and ATR

Action Taken Report and Minutes of the First Board of Studies Meeting - Mathematics Department, MG Science Institute

Date: 1/3/2025

Time: 12.00pm

Venue: Mathematics Department

Attendees:

- \* Dr. Shashiranjana Yadav (Chairman of BoS & Head of Mathematics Department)
- \* Dr. Udayan Prajapati (Subject Expert from Outside the College)
- \* Dr. Ravji Bhila (Subject Expert from Outside the College)
- \* Dr. Kirit Vaniya (Member of the BoS from the Mathematics Department)
- \* Dr. Amit Rokad (Member of the BoS from the Mathematics Department)
- \* Dr. Ramesh Kataria (Member of the BoS from the Mathematics Department)
- \* Ms. Heta Patel (Member of the BoS from the Mathematics Department)

### 1. Welcome and Introductions:

The meeting commenced at the stipulated time. Dr. Shashiranjana Yadav, Chairman of the Board of Studies, warmly welcomed all members. A formal introduction of each member was conducted by Dr. Kirit Vaniya, facilitating a collegial atmosphere.

### 2. Discussion on the Board's Constitution, Powers, and Responsibilities:

Dr. Kirit Vaniya initiated a comprehensive discussion on the constitution, powers, and responsibilities of the Board of Studies. He referenced relevant University Grants Commission (UGC)



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regulations concerning autonomous colleges, clarifying the board's role and scope.

Several members raised pertinent questions regarding the board's operational purview in various academic scenarios. These queries were thoroughly addressed by Dr. Kirit Vaniya drawing from his expertise and experience.

### 3. Syllabus Formation for Semester I and Semester II (First Year B.Sc. Mathematics):

The board transitioned to the primary agenda item: the formation of the syllabus for Semester I and Semester II of the first-year B.Sc. Mathematics program.

- \* Members actively engaged in a detailed discussion, contributing valuable insights and suggestions.

- \* The proposed syllabus was meticulously reviewed, refined, and finalized, ensuring alignment with contemporary academic standards and the development of essential skills.

- \* It was emphasized that the syllabus was designed to provide a robust and relevant curriculum.

### 4. Discussion on Multidisciplinary and Skill-Based Courses:

The board also discussed the curriculum for B.Sc. Multidisciplinary courses and skill-based courses, which are offered by the mathematics department. It was decided that these courses would be designed to enhance the student experience and prepare them for a variety of carriers.

### 5. Adjournment and Future Meeting:

The meeting concluded with a sense of accomplishment and collaborative spirit. The members expressed satisfaction with the productive discussions and decisions made.

Dr. Shashiranjana Yadav thanked all members for their active participation and valuable contributions. He requested that members maintain punctuality for future meetings.

It was decided that the next meeting would focus on the syllabus development for Semester III and IV.

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**Action Taken Report:**

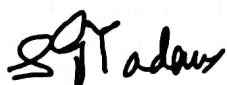
\* The syllabus for Semester I and Semester II of the first-year B.Sc. Mathematics program has been finalized and will be submitted for approval.

\* Action will begin on the creation of syllabus for multidisciplinary and skill based courses.

\* The next meeting is scheduled for [Insert tentative date] to discuss the syllabus for Semester III and IV.

Minutes Prepared By: [Insert Name/Designation]

Approved By: Dr. Shashiranjan Yadav, Chairman of the Board of Studies.



Dr. Shashiranjan Yadav  
Chairman of the board of studies in mathematics  
MG science Institute ( autonomous College)



# **Mafatlal Gagalbhai Science Institute**

**(M.G.Science Institute)**

**Navrangpura, Ahmedabad-380009**

Run by Ahmedabad Education Society  
Accredited "A Grade" by NAAC (2021, third cycle)  
Recipient of DBT star college & CPE-UGC Grants

## **Minutes of the Second Meeting of the Board of Studies in Mathematics, M.G. Science Institute**

*Date: 26/11/2024*

*Time: 11.30 am*

*Location: mathematics department*

### **1. Review and Action Follow-up of the First Meeting Minutes:**

*The minutes of the first Board of Studies in Mathematics meeting were reviewed. It was confirmed that all action items outlined in the action report of the first meeting had been completed.*

*No pending action items were identified.*

### **2. Syllabus Development and Revision:**

*A detailed discussion ensued regarding the syllabus for Semester III, Semester IV, and Semester I students.*

*The board members deliberated on the course content, learning outcomes, and assessment methods.*

*After two hours of detailed discussion, the syllabus was finalized.*

*The finalized syllabus was submitted for approval to the higher authorities.*

### **3. Any Other Business (AOB):**

*No matter was brought to the notice of chairman*

*SGYachna*

Head of Maths Dept.  
**M. G. Science Institute**  
Navrangpura, Ahmedabad-380009





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Ref. No.:

Date:

## Minutes of the Board of Studies meeting

### (Microbiology)

Time: 3.00 pm

Date: 1st March 2024

The first Board of Studies Meeting of the Department of Microbiology was held on 01.03.2024 at 03:00 pm

The following members were present:

Sr. No	Name of the BoS member	Designation
1	Dr. Noopur Goyal	HOD, Chairperson
2	Dr. Payal Patel	Faculty Member
3	Ms. Komal Chaudhari	Faculty Member
4	Dr. Vikram Raval	GU VC Nominee- Member
5	Dr. Gaurav Shah	Other University Member
6	Dr. Minal Trivedi	Other University Member
7	Hitesh N. Hirpara	Industry Member
8	Dr. Ronak S. Chhaya	Industry Member

At the onset of the meeting, the Chairman of BOS Dr. Noopur Goyal welcomed all the members and introduced internal BOS members to external BOS members. The meeting began with a presentation of the curriculum by the chair for semesters I and II of B. Sc Microbiology. She then presented the proposed syllabus for all semesters of M.Sc Microbiology.

Thereafter the agenda items were taken as follows:

#### Agenda item no.1: To finalize BSc Semester I & II syllabus for autonomy.

The board discussed and reviewed the syllabus for Semesters 1 and 2 of the microbiology courses.

- Dr. Vikram Raval suggested that one SEC paper should be there related to Microscopy. He further suggested that in Semester-1, DSC-C-MIC-112P, the title of practical no-1 Microbiology Good Laboratory Practices (GLP): Rules and safety can be changed.

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**Ref. No.:**

**Date:**

- Dr. Minal Trivedi suggested that special staining techniques included in Semester-2, DSC-C-MIC-122P can be included in semester-1 only along with simple staining and differential staining. She further added that Practical-13 from Semester-1, DSC-C-MIC-112P can be shifted to Semester-2.
- Dr. Minal Trivedi raised a query regarding the SEC syllabus as it has only two credits and if both practical and theory are included then evaluation will be difficult.
- Dr. Gaurav Shah suggested regarding the query raised by Dr. Minal Trivedi that in SEC, Theory and practical can have 1 credit each.
- Dr. Gaurav Shah suggested that for SEC, in each semester multiple options for paper can be given. He further added that Biomolecules can be included as SEC paper for Semester 1.
- Dr. Vikram Raval suggested that in SEC-MIC-116, the content of unit-1 can be divided into two parts.

**Resolution:** The committee decided to update the contents as per the suggestions received and the updated syllabus will be submitted to authorities.

## **Agenda item no.2: To discuss titles of papers to be taught in Semester 3 to 8**

The board discussed the different modules that can be included semester-wise.

- Dr. Minal Trivedi suggested that Research Methodology and Pharmaceutical Microbiology can be included as major Courses in semesters 7 and 8. She further added that a fixed batch of students can have internships with industries.
- Dr. Ronak Chhaya and Mr. Hitesh Hirpara suggested that apart from Prescott and Pelczar, other references like pharmacopeia can be included.
- Dr. Ronak Chhaya suggested that a module for basic agricultural microbiology can be included. He also added that a module on preparation for SOPs can be included in semester 6.
- Dr. Vikram Raval proposed certain courses, hands-on training, and internships for semesters 7 and 8.
- Dr. Ronak Chhaya suggested that the collection of blood and various aspects of blood banking can be included as SEC.
- Dr. Gaurav Shah suggested that modules of Bioinformatics, Biostatistics, and Biowaste management can be included as SEC.
- Mr. Hitesh Hirpara suggested internship and hands-on training specifically for semesters 7 and 8.

**Resolution:** The suggestions were accepted by all and the syllabus for semesters 3 to 8 will be drafted accordingly if feasible.

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## Agenda item no. 3: To review the M.Sc microbiology syllabus as a self-financed course

The proposed M.Sc Microbiology draft syllabus was presented to the BOS members for approval. Dr. Noopur Goyal explained to the BOS members that the department is planning to continue using the current M.Sc syllabus atleast for sem 1 and 2 for feasibility. The microbiology syllabus of Gujarat University has recently been updated by the University with inputs from faculty members of many colleges. The following queries/suggestions were raised by the BOS members:

- Dr. Vikram Raval suggested that many modules that are repetitions of the Bachelor's curriculum can be omitted.
- Dr. Gaurav Shah suggested that skill and research-based papers can be included and experiments can be designed according to the budget.

**Resolution:** Proposed syllabus for Semester-1 and 2 has been approved by the committee. The syllabus for semesters 3 and 4 will be designed and updated as per NEP.

## Agenda item no. 4: Any other matter with the permission of the Chair and members.

As there was no other item to discuss, the meeting was closed at 5pm with a vote of thanks.

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HEAD OF MICROBIOLOGY DEPARTMENT  
M. G. Science Institute,  
AHMEDABAD-380009.





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Ref. No.:

Date:

## Minutes of the Board of Studies meeting

(Microbiology)

**Date:** December 2, 2024

**Time:** 2:30 PM

**Venue:** Staff Room, Microbiology Department, M.G. Science Institute, Ahmedabad

### Members Present

Sr. No	Name of the BoS member	Designation
1	Dr. Noopur Goyal	HOD, Chairperson
2	Dr. Payal Patel	Faculty Member
3	Ms. Komal Chaudhari	Faculty Member
4	Dr. Avni Divatia	Faculty Member
5	Dr. Vikram Raval	GU VC Nominee- Member
6	Dr. Minal Trivedi	Other University Member
7	Hitesh N. Hirpara	Industry Member

### Proceedings of the Meeting

#### 1. Welcome

The Chairperson Dr. Noopur Goyal commenced the meeting by welcoming all members. She acknowledged their commitment and thanked them for their active participation in the academic advancement of the institute.

#### 2. Confirmation of Minutes

- The minutes of the previous BoS meeting were reviewed.
- Members unanimously confirmed the minutes without further modifications.

#### 3. Action Taken Report (ATR)

Dr. Noopur Goyal presented the action taken on decisions from the last meeting. Significant progress included:

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Ref. No.:

Date:

- Integration of suggestions for curriculum updates, including topics on **bioinformatics tools and techniques**.
- Implementation of feedback to streamline examination patterns for BSc courses.

## 4. Curriculum Updates

### Certificate Course and M.Sc. Microbiology Syllabus (Semesters 3 & 4)

#### 1. Dr. Vikram Raval's Suggestions:

- Dr. Vikram Rawal proposed the introduction of a *BioPython* course for students. He emphasized that a basic introduction to databases should be included in Semester 2. A new course on *Bioinformatics and its Applications* was also suggested. Within this course, key modules such as the usage of the *Protein Data Bank (PDB)* were highlighted as important topics.
- Dr. Raval raised the issue of references to *Animal Cell Culture* in Semester 3. He suggested that either these references be removed or the topic be formally introduced into the curriculum. He proposed a tie-up with L.M. College of Pharmacy, which has a well-established animal cell culture setup, to provide hands-on training for students. Other institutions such as *GTU/PERD* were also identified as potential partners for similar training programs.
- He further recommended that training from industrial experts could be explored for more practical exposure.
- Dr. Raval suggested revising the *Plant Tissue Culture* portion of Unit 4 in Semester 3. He recommended removing the topic of secondary metabolites from this section and relocating it under applications instead.
- He emphasized the need for the inclusion of a reference book authored by *P.K. Gupta* in the curriculum.

#### 2. Dr. Minal Trivedi's Suggestions:

- Dr. Trivedi proposed the addition of *Research Methodology* as a core subject, with practical components that include review article writing.
- She also suggested that papers on *Pharmaceutical Microbiology* and *Biopharmaceutical and Drug Development* be introduced as elective subjects.
- Additionally, she recommended revising Unit 2 of the Semester 3 paper (*MIC 510*) to include topics on *Intellectual Property Rights (IPR)*, specifically focusing on different types of IPR.

#### 3. Mr. Hitesh Hirpara's Input:

- Mr. Hirpara suggested that the subject *Pharmaceutical Microbiology* should align with guidelines from the *Parenteral Drug Association (PDA)*, which is widely followed in the

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pharmaceutical industry. He emphasized that students should be exposed to this as it provides a solid foundation on how processes function within the pharmaceutical sector.

## B.Sc. Microbiology Syllabus (Semesters 3 & 4)

### 1. Dr. Vikram Raval's Suggestions:

- In Semester 3, Dr. Raval proposed renaming Unit 4 of the *Microbial Growth and Physiology* paper to "Antibiotics as Chemotherapeutic Agents."
- He suggested replacing the practical exercise of diluting methylene blue with *dilution of antibiotics* in the *Preparation of Microbiology Laboratory Solutions* practicals for SEC in Semester 3.
- For Semester 4's *Food and Dairy Microbiology* paper, Dr. Raval recommended including the concept of *food spoilage* in Unit 1, alongside the existing topic of microbes in food. He also suggested shifting *Methods of Preservation* and *Food Poisoning* to Unit 2 for a clearer connection between food spoilage, preservation techniques, and foodborne illnesses.
- He proposed that the topic *Single Cell Protein* should be moved to an earlier position in Unit 3, and suggested removing the detailed list of fermented food products from the same unit.
- For Unit 4, he recommended eliminating the *Determination of MPN* as it overlaps with previous content.
- He insisted on including *Isolation of Probiotics* in Semester 4 practicals.
- For the SEC papers, he recommended incorporating a case study on commercial microbial products and suggested renaming the *Plant Pathology* paper to *Plant Disease and Control*, emphasizing the inclusion of biological control methods only.

### Microbiology Minor (Semester 4)

- Dr. Raval suggested revising the titles of each unit in the Microbiology Minor paper for Semester 4 to better reflect the updated content and focus.

Resolution: The committee decided to update the contents as per the suggestions received and the updated syllabus will be submitted to authorities.

## 5. Academic Policies

- Examination and evaluation methodologies were reviewed.
- No major revisions were proposed. The current system was deemed effective.

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### 6. New Program Proposals

- **Certificate Course:**

Dr. Vikram Raval proposed a certificate course focusing on bioinformatics tools and other software essential for biological research.

- Feasibility and alignment with institutional objectives were discussed.

- **Research Methodology:**

- Dr. Minal Trivedi suggested converting this from a certificate course to a **core paper** in the curriculum to enhance research skills in students.

### 7. Miscellaneous

- The committee discussed the need for curriculum alignment with **industry standards** to improve employability.
- Recommendations for enhancing practical exposure to students through collaborations with industry experts were emphasized.

### 8. Vote of Thanks and Adjournment

- The Chairperson summarized the key decisions and action points.
- She proposed scheduling the next BoS meeting in **March 2025** to review the progress of implemented changes and discuss further updates.
- The meeting concluded with a vote of thanks to all members for their active contributions.

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HEAD OF MICROBIOLOGY DEPARTMENT  
M. G. Science Institute,  
AHMEDABAD-380009.



# Mafatlal Gagalbhai Science Institute

(M. G. Science Institute)

(Managed by The Ahmedabad Education Society)

Accredited "A" level by NAAC (Third Cycle), 2021, Recipient of College With Potential for Excellence (CPE) Status, 2016

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Ref. No. \_\_\_\_\_

Date : / /20

Date: 04.03.2024

## MINUTES OF BORAD OF STUDY MEETING

Today the meeting of board of study for Physics subject and department of Physics jointly was held at 1.30 pm on 04.03.2024 in the department of Physics at M. G. Science Institute where all syllabus topics for SEMESTER 1 and SEMESTER 2 for First Year B. Sc. (Bachelor of Science) were unanimously discussed and approved in the light of opening new horizons of future scopes and opportunities of ample employment in Government, Public, Corporate and Research institutes or repute globally within the frame work of autonomy being conferred as new benchmark status on M. G. Science Institute and being implemented from current academic year 2024-2025.

Following members remained present in the meeting and gave their valuable contribution and suggestions.

Dr. P. H. Trivedi (Chairman) ✓

Prof U. V. Shah ✓

Dr. S. B. Madan ✓

Prof. Y. U. Shah ✓

Prof H. S. Jani ✓

Prof S. D. Jhala ✓

Dr. C. V. Pandya ✓

Prof S. S. Mehta ✓

Prof H. H. Rathod ✓

Dr. Rajashree Jotania ✓

Dr. Hitesh Pandya ✓

Dr. Vimal Joshi ✓

Dr. Venkat Ramani ✓

Prof Darshan P. Shah ✓



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Ref. No.

Date :

30.11.2024

## MINUTES OF MEETING OF BOARD OF STUDY (PHYSICS)

The meeting of board of study (Physics) was held today at 1:30 PM in the department of Physics at M. G. Science Institute where all syllabus topics for semester- 3 and semester 4 for second year B.Sc (Bachelor of Science) and reviewing the syllabus of sem-1 and sem-2 were unanimously discussed and approved within the frame work of autonomy of M. G. Science Institute and being implemented from academic year 2025-26.

Following members remained present in the meeting and gave their valuable contribution and suggestions.

Prof. U. V. Shah

Prof. Y. U. Shah

Prof. H. S. Jani

Prof. S. D. Jhala

Dr. C. V. Pandya

Prof. S. S. Mehta

Prof. H. H. Rathod

Dr. Rajashree Jotania

Dr. Hitesh Pandya

Dr. Vimal Joshi

Dr. Venkat Ramani

Prof. Darshan P Shah





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Date : 01-03-2024

## The First Meeting Borad of studies, Statistics

Date: 01/03/2024

Time: 12:30 AM

Place: Statistics Department, M. G. Science Institute.

### Resolution:

- For the proposed syllabus of B.Sc. Sem-I & II (Major, Minor, Multi & SEC) minor change have been proposed by members of committee decided to update the content of subject as per suggestions received and updated syllabus will be submitted to the authorities.
- For the proposed syllabus of B.Sc. Sem-I & II (Major, Minor, Multi & SEC) Statistics BOS committee members approved proposed curriculum for B.sc Sem-I & II.
- Meeting ended with the vote of thanks presented to all member of committee.

### Signature of Members:

1. Dr. M.B. Thakar	<i>m B Thakar</i>
2. Dr. R.D. Chaudhary	<i>R.D. Chaudhary</i>
3. Mr. Pankaj Parmar	<i>Pankaj Parmar</i>
4. Dr. Pravender Singh	<i>Pravender Singh</i>
5. Dr. Arti Rajyaguru	<i>Arti Rajyaguru</i>
6. Dr. Rupal Shah	<i>Rupal Shah</i>
7. Dr. Vaishali Thakkar	<i>Vaishali Thakkar</i>
8. Mr. Chintan Shah	<i>C. S. Shah</i>



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Date : 07-12-2024

## The Second Meeting Borad of studies, Statistics

Date: 07-12-2024

Time: 11:00 AM

Place: Statistics Department, M. G. Science Institute.

### Resolution:



In today's meeting of BOS Statistics subject the following points were discussed and concluded.

Approved the correction made in the syllabus of Sem I and Sem II Statistics

Approved the syllabus for Sem III and Sem. IV Statistics with minor modifications suggested by the committee members.

The committee also made an important suggestion that Statistics as Minor and Multi-disciplinary should be offered to all other major subjects students.

### Signature of Members:

1. Dr. M.B. Thakar

M B Thakar

2. Dr. R.D. Chaudhary

R D Chaudhary

3. Mr. Pankaj Parmar

Pankaj Parmar

4. Dr. Pravender Singh

Pravender Singh

5. Dr. Arti Rajyaguru

Arti Rajyaguru

6. Dr. Rupal Shah

Rupal Shah

7. Dr. Vaishali Thakkar

Vaishali Thakkar

8. Mr. Chintan Shah

Chintan Shah



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Ref. No.:

Date: 06/03/2024

## Meeting Minutes:

- The meeting was called to order, and the chairperson welcomed all attendees.
- The proposed draft syllabus for UG Zoology courses was presented by the chairperson.
- Detailed discussions were held on each semester, covering core subjects, practical components, and elective courses.
- Members provided constructive feedback on the draft syllabus, focusing on course content, alignment with NEP 2020, and the inclusion of practical components.
- Necessary amendments and revisions were discussed and incorporated into the draft syllabus based on the feedback received.
- The chairperson thanked all members for their active participation and valuable contributions.
- The agenda was presented and unanimously approved by the members.
- The meeting was adjourned at 2.00 pm.

Meeting Date: 06/03/2024

Meeting Time: 12.10 pm

Meeting Venue: Zoology department

Agenda: Discussion and finalization of the draft syllabus of UG courses (Zoology) as per NEP 2020 for M. G. Science Institute, Ahmedabad (Autonomous).

## Signature:

1. Dr. Haresh G. Patel

2. Dr. Linzbuoy George

3. Dr. Chirag A. Acharya

4. Dr. Gaurang Sindhav

5. Dr. Sapna R. Pal

6. Mr. Amit Rabari

7. Dr. N.G.Kotadiya

8. Dr. R.S.Hardikar

9. Dr. N.C.Vachhani





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Ref. No.

Date: 30/11/2024

## Agenda:

- To confirm the minutes of the meeting held on 06/03/2024.
- Discussion and finalization of the draft syllabus of B.Sc. Zoology semester 3 and 4 for M. G. Science Institute, Ahmedabad (Autonomous).

## Minutes of meeting

- The Chairperson welcomed all members and outlined the objectives of the meeting.
- The minutes of the meeting held on 06/03/2024 have been approved
- The proposed draft syllabus for Zoology semester 3 and 4 courses was presented by the chairperson.
- Detailed discussions were held on each semester, covering theory and practical components.
- Members provided constructive feedback on the draft syllabus.
- Necessary amendments and revisions were discussed and incorporated into the draft syllabus based on the feedback received.
- The Chairperson thanked all members for their active participation and valuable inputs. The meeting concluded with a vote of thanks to the chair.

Meeting Date: 30/11/2024

Meeting Time: 12.10 pm

Meeting Venue: Zoology department

## Members present:

1. Dr. Haresh G. Patel
- ✓ 2. Dr. Linzbuoy George
- ✓ 3. Dr. Chirag A. Acharya
4. Dr. Gaurang Sindhav
5. Dr. Sapna R. Pal
6. Mr. Amit Rabari
7. Mrs. A.I. Shaikh
- ✓ 8. Dr. N.G. Kotadiya
9. Dr. R.S. Hardikar
- ✓ 10. Dr. N.C. Vachhani