

**Shri M. & N. Virani Science College (Autonomous), Rajkot**  
(Affiliated to Saurashtra University, Rajkot)  
**Board of Studies in Chemistry**

**Programs : B.Sc. Chemistry**

**Date: 22/05/2023**

Mode: Hybrid mode

Time: 11:30 AM & onwards

| Sr. | Category<br>UGC Regulation<br>Feb.2018  | Name & Designation  | BoS<br>Designation  | Present/Absent   |
|-----|---|---|---|------------------|
| 1.  | Head of Department  | Dr. K. D. Ladva, Principal /<br>Dr. Milan S. Vadodaria<br><b>Associate Professor &amp; Head</b> | <b>Chairman</b>   | Present          |
| 2.  | Entire faculty of each<br>specialization  | Dr. Milan S. Vadodaria<br><b>Associate Professor &amp; Head</b>                                 | <b>Member<br/>Secretary</b>   | Present          |
|     |   | Dr. Dipak M. Purohit<br><b>Associate Professor</b>  | <b>Member/s<br/>(From the<br/>Department)</b>                       | Present          |
|     |   | Dr. Ashwin V. Kalavadia<br><b>Associate Professor</b>   |   | Present          |
|     |   | Dr. Bharat M. Vadher<br><b>Associate Professor</b>  |   | Present          |
|     |   | Dr. K. M. Rajkotia<br><b>Associate Professor</b>  |   | Present          |
|     |   | Dr. D. N. Joshi<br><b>Associate Professor</b>   |   | Present          |
|     |   | Dr. Pankajkumar B. Nariya<br><b>Associate Professor</b>   |   | Present          |
|     |   | Dr. Archana Y. Cholera<br><b>Associate Professor</b>  |   | Present          |
|     |   | Dr. Devendra J. Kaneriya<br><b>Assistant Professor</b>  |   | Present          |
| 3.  | <b>Two subject experts</b><br>from outside the College<br>to be nominated by the<br><b>Academic Council</b>                             | Dr. Naval P. Kapuriya<br><b>Associate Professor</b>   | <b>AC nominated<br/>Subject<br/>Experts-1 &amp; 2</b>               | Leave of absence |
|     |   | Dr. Yvonne J. Fernandes<br><b>Principal</b>   |   | Present          |
| 4.  | <b>One expert</b> to be<br>nominated by the <b>Vice-<br/>Chancellor</b> from a panel<br>of six recommended by<br>the college principal. | Dr. A. H. Bapodara,<br><b>Professor &amp; Head</b>  | <b>Vice-Chancellor<br/>Nominated Member<br/>Subject Expert</b>      | Present          |
| 5.  | <b>One representative</b> from<br>industry/corporate sector/<br>allied area relating to<br>placement.                                   | Dr. Ajay C. Pandya<br><b>Managing Director</b>  | <b>Member</b><br>from Industry/<br>Corporate Sector/<br>Allied Area | Leave of absence |

| Sr. | Category<br>UGC Regulation<br>Feb.2018   | Name & Designation                              | BoS<br>Designation                   | Present/Absent |
|-----|--|---|--------------------------------------|----------------|
| 6.  | <b>One postgraduate meritorious alumnus</b> to be nominated by the principal.                  | Dr. Kalpesh Menpara<br><b>Managing Director</b> | <b>Member</b><br>PG Alumnus          | Present        |
| 7   | (a) Experts from outside the college whenever special courses of studies are to be formulated. | Er. Ravi S. Tank<br>Asst. Professor & Head      | <b>Co-opt<br/>Member/s-1 &amp; 2</b> | Present        |
|     | (b) Other members of staff of the same faculty.  | ---   |                                      |                |

### AGENDA

**SESSION-I: General Meeting of all BoS**

**Venue: Board Room / Hybrid**

**Link: <https://meet.google.com/drq-qvcs-ybe>**

#### AGENDA

1. Introductory remarks
2. All UG programs: Students admitted from A.Y. 2023-24 & onwards
  - a. Adoption of recommendations for 4 year UG program under Curriculum and Credit Framework for Undergraduate Programs - guidelines / framework/ regulations of UGC, Gujarat Government and affiliating Saurashtra University in light of NEP-2020.
  - b. Model Conceptual Curriculum and Credit Framework for all B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Programs.
  - c. General Academic rules & regulations.
  - d. Evaluation norms of components / courses common to all B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) program.
  - e. Recommendations for implementation of credit equivalence / transfer for MOOCs including SWAYAM NPTEL e-learning portals.
  - f. Any other
3. Any other

**SESSION-II: BoS Chemistry Specific Meeting of all BoS:**

#### AGENDA

- 1. Introductory remarks by Chairperson of the BoS.**
  - 1.1. Confirmation of MoM & ATR of previous BoS held on 12/11/2022.
  - 1.2. Departmental activities and updates.
- 2. For B.Sc. Chemistry program – Batch 2021-22 to 2023-24 and Batch 2022-23 to 2024-25:**
  - 2.1. Scheme of Learning and Evaluation (SLE) for Sem.-5 & 6 of B.Sc. Chemistry program (with course title and related details).

- 2.2. Syllabi of all theory & practical courses including core elective and self study courses of Sem.-5 & 6 of B.Sc. Chemistry program.
- 2.3. Syllabi and evaluation norms of Part-II - Trans Disciplinary Elective (TDE) course offered by the department.
- 2.4. Question paper pattern for all theory & practical courses of Sem.-5 & 6 of B.Sc. Chemistry program.
- 2.5. List of paper setters and examiners for all theory & practical courses of B.Sc. Chemistry program.

**3. Curriculum credit framework FYUGP – For Students admitted from A.Y. 2023-24 & onwards**

- 3.1. Regulations for UG program – B.Sc. / B.Sc. (Honours) Chemistry program.
- 3.2. Scheme of Learning & Evaluation (SLE) for all semesters and with course title and related details for Sem.-1 of UG program – B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program (based on the recommendations for 4 year UG program under Curriculum and Credit Framework for Undergraduate Programs - guidelines / framework/ regulations of UGC, Gujarat Government and affiliating Saurashtra University in light of NEP-2020).
- 3.3. Syllabi of all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program.
- 3.4. Syllabi for courses offered to other programs / departments in Sem.-1.
- 3.5. Syllabi for Value Added courses / Skill Enhancement courses offered by the department in Sem.-1
- 3.6. Question paper pattern for all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program.
- 3.7. List of paper setters and examiners for all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program.
- 3.8. Recommendations for implementation of credit equivalence / transfer for MOOCs including SWAYAM NPTEL platform / e-learning portals.

**4. Any other agenda**

## **Minutes of Meeting:**

The Board of Studies in Chemistry met as indicated above and discussed on the aforementioned Agenda. Sharing the expertise of all the members and with very proactive inputs, the members unanimously resolved the following:

Discussion:

**For B.Sc. Chemistry program** – Batch 2021-22 to 2023-24 and Batch 2022-23 to 2024-25:

1. To confirm the minutes of MoM of previous BoS held on 12/11/2022 - **Approved**  
Action taken for the recommendation of 12<sup>th</sup> Board of Studies - **Discussed and Appreciated**
2. Scheme of Learning and Evaluation (SLE) for Sem.-5 & 6 of B.Sc. Chemistry program (with course title and related details). was discussed & framed. – **(Enclosure – I)**. The above will be effective for students admitted in AY 2021-22 & 2022-23.
3. Syllabi of all theory & practical courses including core elective and self study courses of Sem.-5 & 6 of B.Sc. Chemistry program were discussed & framed. – **(Enclosure – II)**.
  - **New Components Introduced:**
    1. **Core Enrichment – 3:** Internship / Training – Performed in the Vacation of Sem – IV, to be Evaluated in Semester - V.
    2. **Core Enrichment – 4:** Minor Project / Dissertation / Review Article / Instrumental Training / Industrial visit report - Semester V.
    3. **Core Enrichment - 5:** Project / Start-up/ Skill Training.

The above will be effective for students admitted from **AY 2021-22 & 2022-23**.

4. Syllabi and evaluation norms of Part-II - Trans Disciplinary Elective (TDE) course offered by the department were discussed & framed. - **(Enclosure –III)**.

The above will be effective for students admitted from **AY 2021-22 & 2022-23**.

5. Question paper pattern for all theory & practical courses of Sem.-5 & 6 of B.Sc. Chemistry program were discussed and finalized **(Enclosure – IV)**.
6. List of paper setters and examiners for all theory & practical courses of Sem.-5 & 6 of B.Sc. Chemistry program were discussed and finalized as indicated in **(Enclosure – V)**.

**Curriculum credit framework FYUGP** – For Students admitted from A.Y. 2023-24 & onwards

7. Regulations for UG program – B.Sc. / B.Sc. (Honours) Chemistry program were discussed and framed. **(Enclosure – VI)**.

8. Scheme of Learning & Evaluation (SLE) for all semesters and with course title and related details for Sem.-1 of UG program – B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program (based on the recommendations for 4 year UG program under Curriculum and Credit Framework for Undergraduate Programs - guidelines / framework/ regulations of UGC, Gujarat Government and affiliating Saurashtra University in light of NEP-2020) were discussed and framed. (**Enclosure – VII**).
9. Syllabi of all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program were discussed and framed. (**Enclosure – VIII**).
10. Syllabi for courses offered to other programs / departments in Sem.-1 **discussed and framed**.
  - a) **Course offered to Mathematics Department:** Chemistry-I (**Enclosure – VIII**).
  - b) **Multidisciplinary course for the common basket:** Fundamentals of Analytical Chemistry was **discussed and framed**. (**Enclosure – IX**).
11. Syllabi for Value Added courses / Skill Enhancement courses offered by the department in Sem.-1 was discussed and framed (**Enclosure – X**).
12. Question paper pattern for all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program were discussed and finalized (**Enclosure – XI**).
13. List of paper setters and examiners for all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Chemistry program **were discussed and finalized** (**Enclosure – XII**).
14. Recommendations for implementation of credit equivalence / transfer for MOOCs including SWAYAM-NPTEL platform / e-learning portals.  
Ref: Credit Transfer from SWAYAM-NPTEL: Recommendations for universities to implement credit transfer from SWAYAM-NPTEL MOOCs date of creation 10<sup>th</sup> July, 2019.

As per the presentation & deliberation made in session-1: General meeting of all BoS followed by discussion in subject specific BoS on 22<sup>nd</sup> May 2023; following resolutions related to credit transfer from MOOCs were made:

- 1) For Part-II discipline specific core MOOCs SWAYAM-NPTEL e-learning portal be considered.

- 2) For Part-I & III courses coursera, edX, Khan Academy etc., e-learning platforms be considered in addition to NPTEL.
- 3) Following options from the above guideline be considered:  
Option 1: Domain Certifications, Option 3: Cultivating the habit of self-study – General/Open Elective Category & Option 4: Partial Credits
- 4) Recommendations for NPTEL MOOCs for students admitted from 2023-24 & onwards, will be presented in ensuing BoS for the resolution & approval.

**15. The members of BoS unanimously agreed to give authorization to the BoS Chairperson** for amendment / revision in BoS agenda in line / tune with latest revised guidelines / framework issued by UGC, Gujarat Government and Saurashtra University from time to time.