

**Shri Manibhai Virani & Smt. Navalben Virani Science College, Rajkot  
(Autonomous)**

**Affiliated to Saurashtra University, Rajkot**

**BOARD OF STUDIES – BIOCHEMISTRY**

**12<sup>th</sup> Meeting of Board of Studies in Biochemistry**

**Program: B.Sc. Biochemistry**

**Date: 22.05.2023**

**Time: 11.30 am**

**Mode: Hybrid**

**Details of Meeting:**

<b>Mode of Meeting</b>	Hybrid - Online and Offline
<b>Date</b>	22 <sup>nd</sup> May 2023
<b>Time</b>	11.30am
<b>Platform for online participation</b>	Google Meet
<b>Venue and Link Details with ID, Password etc</b>	12th BoS - Biochemistry - Shri M. & N. Virani Science College, Rajkot Monday, May 22 · 11:15am – 1:15pm Google Meet joining info Video call link: <a href="https://meet.google.com/hgq-amoc-obm">https:// meet.google.com/hgq-amoc-obm</a> Or dial: (US) +1 252-745-1041 PIN: 705 194 919#
<b>Venue for off-line meeting</b>	Biochemistry Department, Shri M. & N. Virani Science College, Rajkot

**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. Biochemistry 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. Biochemistry 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. Biochemistry 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. Biochemistry program.
- 2.5 List of paper setters and examiners for all theory & practical courses of B.Sc. Biochemistry 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) Biochemistry 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) Biochemistry 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) Biochemistry 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) Biochemistry 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) Biochemistry program.
4. Recommendations for implementation of credit equivalence / transfer for MOOCs including SWAYAM NPTEL platform / e-learning portals.
5. **Any other agenda:** 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.

### **Minutes of Meeting:**

The Board of Studies in Biochemistry 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:

1. **MoM of previous BoS** held on 12/11/2022 was confirmed by the esteemed members of the board

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

##### **2.1 Scheme of Learning and Evaluation for 5<sup>th</sup> & 6<sup>th</sup> Sem. of B.Sc. Biochemistry programme (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**

##### **2.2 Syllabi of all theory & practical courses including core elective and self-study courses of 5<sup>th</sup> & 6<sup>th</sup> Sem. of B.Sc. Biochemistry programme were discussed & framed. – (Enclosure – II)**

- **New Courses introduced:**

1. Pharmaceutical Biochemistry ( Core Elective – Semester – V)
2. Plant Biochemistry (Core Elective – Semester – VI)

- **New Components Introduced:**

1. **Trans Disciplinary Course** – Semester – V – Food and Nutrition
2. **Core Enrichment – 3:** Internship / Training – Performed in the Vacation of Sem – IV, to be Evaluated in Semester - V
3. **Core Enrichment – 4:** Minor Project / Dissertation / Review Article / Instrumental Training / Industrial Tour report - Semester V
4. **Core Enrichment - 5:** Project / Start-up/ Skill Training

- **Courses Modified:**

1. **21UBCCC502** Core Course- Genetics.
2. **21UBCCC504**-Core Practical-5 Molecular Biology and Genetics Practicals
3. **21UBCCE501** – Core Elective Clinical Biochemistry
4. **21UBCCC601**- Core Course- Advanced Cell Biology
5. **21UBCCC604** – Applied Biochemistry Practicals

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

**2.3 Syllabi of Part-II: Trans Disciplinary Elective Course (TDE) offered by the department were discussed & framed. - (Enclosure –III)**

- **List of courses where syllabus is modified 20% & more** in terms of content:

1. **21UBCCC502** Core Course- Genetics.
2. **21UBCCC504**-Core Practical-5 Molecular Biology and Genetics Practicals
3. **21UBCCE501** – Core Elective Clinical Biochemistry
4. **21UBCCC601**- Core Course- Advanced Cell Biology

- **List of the courses whose title got changed:**

1. **21UBCCC504**-Core Practical-5 Molecular Biology and Genetics Practicals
2. **21UBCCC604** – Applied Biochemistry Practicals

The detailed syllabi in the new format for adoption of OBE indicating course outcomes with K levels, pedagogical & assessment tools as appended

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

**2.4 List of Paper Setter and Examiner** for the 5<sup>th</sup> & 6<sup>th</sup> Semester courses were discussed and finalized as indicated in (**Enclosure – IV**)

**2.5 Question paper pattern** for 5<sup>th</sup> & 6<sup>th</sup> Semester theory & practical courses were discussed and finalized (**Enclosure – V**)

**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) Biochemistry program were discussed and framed.(**Enclosure – VI**)

**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) Biochemistry 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**)

**3.3 Syllabi** of all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Biochemistry program were discussed and framed. (**Enclosure – VIII**)

**3.4 Syllabi for courses offered to other programs / departments** in Sem.-1 discussed and framed.

- a. **Course offered to Microbiology Department:** Biomolecules
- b. **Multidisciplinary course for the common basket:** Biochemistry in Health and Disease was **discussed and framed.(Enclosure – IX)**

**3.5 Syllabi for Value Added courses / Skill Enhancement courses** offered by the department in Sem.-1 was **discussed and framed (Enclosure – X)**

- a. **SEC of the Department: Basic laboratory techniques**

**3.6 Question paper pattern** for all theory & practical courses of Sem.-1 of B.Sc. / B.Sc. (Honours) / B.Sc. (Honours with Research) Biochemistry program courses **were discussed and finalized (Enclosure – XI)**

**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) Biochemistry program **were discussed and finalized (Enclosure – XII)**

**4 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.

**5 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.

## BoS Members:

S.No.	Name	Membership	Present/Absent
1.	Dr. S. J. Shah	Head of Department, Chairperson	Present
2.	Dr Krishna Joshi	Subject Expert, VC-Nominee	Present
3.	Prof . Pushpa Robin	Subject Expert, AC Nominee	Present
4.	Dr. Abhijeet S.Joshi	Subject Expert, AC Nominee	Absent
5.	Dr Jitendra Wagh	Industry Representative	Present
6.	Dr. P. G. Bhandari	Member Secretary	Present
7.	Dr. Dipak V. Parmar	Faculty member	Present
8.	(Dr.) Mayur P. Parmar	Faculty member	Present
9.	Mrs Khushboo Mehta	Faculty member	Present
10.	Ms Jigisha Pancholi	Alumni Representative	Present

