

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

(Affiliated to Saurashtra University, Rajkot)

Yogidham Gurukul, Kalawad Road, Rajkot

Meeting of Board of Studies in Chemistry

Department of Chemistry

Programs : B.Sc. Chemistry

Details of Meeting:

Mode of Meeting	Online &Offline
Date	30.06.2021
Time	10:30 AM to 01:30 PM
Platform	Google Meet
Venue and Link Details with ID, Password etc	Session 1: General Meeting Date: 30 th June 2021, Wednesday Time: 10:30 am to 11:30 am Platform: Google Meet Meeting Link: https://meet.google.com/qmn-becd-nvr Session 2: Agenda of Chemistry BoS Date: 30 th June 2021, Wednesday, Time: 11:30 am onwards Platform: Google Meet Meeting Link: https://meet.google.com/grf-zdxz-tte

BoS Members

Sr. No.	Name	Membership	Present/Absent
1.	Dr. K.D. Ladva	Chairperson	Present
2.	Dr. M. S. Vadodaria	Chairperson	Present
3.	Dr. P.B. Nariya	Member Secretary	Present
4.	Dr. D. M. Purohit	Member	Present
5.	Dr. A. V. Kalavadia	Member	Present
6.	Dr. B. M. Vadher	Member	Present
7.	Dr. K. M. Rajkotiya	Member	Present
8.	Dr. D. N. Joshi	Member	Present
9.	Dr. S. D. Tala	Member	Present
10.	Dr. A. Y. Cholera	Member	Present
11.	Dr. M. M. Savant	Member	Present
12.	Dr. A. S. Patel	Member	Present
13.	Dr. P. A. Ambasana	Member	Present
14.	Dr. S. B. Koradiya	Member	Leave of Absence
15.	Dr. C. M. Pandit	Member	Present
16.	Dr. Y. J. Fernandes	AC nominated Subject Experts	Present
17.	Dr. N. P. Kapuriya		Present
18.	Dr. A. H. Bapodara	Vice-Chancellor Nominated Member - Subject Expert	Present
19.	Dr. A. C. Pandya	Member from Industry/ Corporate Sector/ Allied Area	Present
20.	Dr. K. Menpara	Member - Alumnus	Present

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:

1. Common Agenda
 - A. **NEP 2020** for adoption – **Appreciated and Recommended**
 - B. **LOCF concepts** specific to UG and PG programs – **Appreciated and Recommended**
 - C. **Models of conceptual frameworks** for UG & PG programs – **Agreed and Recommended**
 - D. General note on **Concept to Practice** component – **Appreciated and Recommended**
 - E. General **Academic Rules and Regulations** – **Recommended**

2. The Regulations for the below stated programme was **discussed & framed**.
 - a. UG Program – B.Sc. - Chemistry (**Enclosure–I**)

Discussions:

- Dr. P. B. Nariya presented the draft regulations of Department of Chemistry to all members, and highlighted the uniqueness of considering candidature of vocational graduates for masters program in Chemistry.
- Dr. M. S. Vadodaria discussed about lateral entry of students in B.Sc. Chemistry programme and also highlighted that the regulations are in alignment with affiliating Saurashtra University norms.
- The regulations were unanimously recommended for adoption.

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

3. The Scheme of Learning & Evaluation for all Semesters of the following programme of the Department was **discussed & framed**.
 - a. UG Program – B.Sc. – Chemistry – (**Enclosure–II**)

Discussions:

Dr. K. D. Ladva and Dr. P. B. Nariya discussed revised nomenclature of scheme i.e. Scheme of Learning & Evaluation which was previously named as Scheme of Instructions & Assessment.

- The emphases on students' learning at each designing step was conversed upon very actively by all the members.
- Dr. A. H. Bapodara appraised meticulous designing of Learning Outcome based Curriculum Framework (LOCF) in line with OBE concepts especially Graduate Attributes, POs, and PSOs of the department.
- Dr. K. D. Ladva also highlighted the chronological developments of the LOCF with reference of Prof. D. P. Singh of University Grants Commission (UGC), New Delhi.
- Dr. M. S. Vadodaria highlighted the uniqueness and features of newly proposed 'Concept to Practice' component in UG programmes.
- The newly framed Scheme of Learning & Evaluation approved by members, and seconded by Dr. Y. J. Fernandes and Dr. N. P. Kapuriya.

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

4. The Syllabi for Semester-I courses for below stated UG Program of the Department was **discussed & framed**.
 - a. Semester-I for UG Program - (**Enclosure –III**)

Discussions:

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

List of the courses whose title got changed

- Dr. P.B. Nariya elaborated entire syllabi of Semester-I of B.Sc. Chemistry programme and explained entire designing process.
- Dr. S. D. Tala explained that courses of semester-I are of fundamental nature, and hence these courses are designated with (F) symbol in their titles. In progression, advanced and applied courses will be offered, and designated as (Ad) and (Ap) respectively.
- In continuation, Dr. Ladva explained that fundamental courses are comprised of Units, which may be interconnected and interdependent in the nature; while advanced and applied courses are comprised of modules which may attain particular course outcome independently also.

- After detailed discussion, a new topic of Diagonal relationship and anomalous behavior of Li and Mg was recommended to include in Unit III: Chemistry of Elements-I; and a topic on Chemistry of buffer was recommended to be included in Unit V: Fundamentals of Analytical Chemistry – II of in Core 1: Introductory Inorganic and Analytical Chemistry (F).
- To design the course in alignment with prescribed course duration, course credit, and contact hours, the members of the board recommended to remove following unit-wise topics in Core 1: Introductory Inorganic and Analytical Chemistry (F).



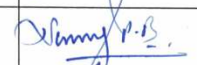
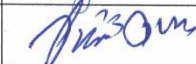










Unit No.	Topics recommended to remove
Unit-I	<ul style="list-style-type: none"> • Bohr's Theory & its limitation, Numerical • Complex formation tendency of p-block elements. • Hydrides and their classification: Ionic, covalent and Interstitial
Unit-IV	<ul style="list-style-type: none"> • Primary & Secondary standard solutions
Unit-V	<ul style="list-style-type: none"> • Strong acid vs Strong base • $\text{FeSO}_4\text{-K}_2\text{Cr}_2\text{O}_7$

- Similarly, cycloalkanes were recommended to include along with alkanes in unit-II, and Nobel catalyst, Loded catalyst, Formulated catalyst were also recommended to include in Unit-V of Core-2: Introductory Organic and Physical Chemistry (F).
- Dr. Y. Fernandes appraised well-framed syllabi of each courses and also suggested to have equalized contact hours for each module within one course, as their assessment weightage is equal.
- Dr. Ajay C. Pandya and Dr. Kalpesh Menpara emphasized to have more weightage on fundamental aspects, and congratulated for setting up CBT/CRT in the last year of graduation. The newly framed syllabi approved by members, and seconded by Dr. M. S. Vadodaria, Dr. K. D. Ladva and Dr. Naval Kapuriya.

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 from AY 2021-22& onwards

5. List of Paper Setter and Examiner for the 1st semester courses were discussed and finalized as indicated in (**Enclosure – IV**)
6. Question paper pattern for 1st semester theory & practical courses were discussed and finalized (**Enclosure – V**)

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