

Shree Manibhai Virani & Smt. Navalben Virani Science College (Autonomous)
Affiliated to Saurashtra University, Rajkot
Board of Studies (BoS) - Industrial Chemistry

Date: 10/09/2016

Time: 11:00 am

Venue: Group Study Room 3, Library

MINUTES OF THE MEETINGS

BoS Members:

SN	Name	Membership	Present/Absent
1	Er. Ravi S. Tank	Chairman	Present
2	Prof. H. S. Joshi	Subject Expert, VC Nominee	Present
3	Dr. S. A. Puranik	Subject Expert, AC Nominee	Present
4	Dr. Piyush Vanjara	Subject Expert, AC Nominee	Absent
5	Dr. Pradhuman Patel	Industry Representative	Absent
6	Mr. Viral H. Karia	Member	Present
7	Dr. Mahesh M. Savant	Member	Present
8	(Dr.) Pankaj M. Akbari	Member	Present
9	(Dr.) Govind V. Vagadiya	Member	Present
10	Mr. Niraj Manwar	Alumni Representative	Present

AGENDA:

1. Syllabi for 3rd & 4th semester courses for B.Sc.- Industrial Chemistry for students admitted from A.Y. 2016-17 onwards.
2. Syllabi for 3rd & 4th semester courses for M.Sc.- Industrial Chemistry for students admitted from A.Y. 2016-17 onwards.
3. Syllabi for Generic Elective courses (Part-II) for other UG programmes for students admitted from A.Y. 2016-17 onwards.
4. Syllabi & evaluation norms for Part-III SEC-II – Co-curricular courses for students admitted from A.Y. 2016-17 onwards:
 - 4.1 Treatment of Environmental Waste
 - 4.2 Entrepreneurship Development
5. Introduction of M. Phil. programme in Industrial Chemistry (proposing it for 2017-2018)
6. Eligibility norms & criteria for recruitment of faculty
7. Any other matter with permission of the chair.

The chairman welcomes all BoS Members for their deliberation.

The BoS in Industrial Chemistry met as indicated above, and discussed on the above Agenda. All the members appreciated the material presented to them by the department with respect to the agenda. Sharing the expertise of all the members and the deliberated on the agenda with very proactive inputs, the members **unanimously** resolved the following as appended are to be recommended to Academic Council for approval for students admitted from **AY 2016-2017 & onwards:**

1. Syllabii of 3rd & 4th semester courses of **B.Sc. Industrial Chemistry programme** framed for the courses of the 3rd & 4th semesters of the below stated programme for students admitted from **AY 2016-2017 & onwards.**

B.Sc. Industrial Chemistry(Enclosure-I)

2. Syllabii of 3rd & 4th semester courses of **M.Sc. Industrial Chemistry programme** framed for the courses of the 3rd & 4th semesters of the below stated programme for students admitted from **AY 2016-2017 & onwards.**

M.Sc. Industrial Chemistry(Enclosure-II)

3. Syllabii of **Generic Elective courses of B.Sc. programmes of the course** framed for the following Generic Elective courses (Part-II) for UG students admitted from **AY 2016-2017 & onwards.**

B.Sc. Industrial Chemistry(Enclosure-III)

Course Code	Course	Semester	Credit
16UICGE01	Generic Elective-I: Industrial Hygiene & Safety	V	2
16UICGE01	Generic Elective-II: Disaster Management	VI	2

.....(Enclosure-III)

Prof. H.S. Joshi suggested to include Radiation And Fire Hazards in the course entitled "Industrial Hygiene & Safety".

Dr. S.A. Puranik suggested to include case studies on industrial disasters like Bhopal Gas Tragedy in the course entitled "Disaster Management"

4. **Syllabi & evaluation norms for Part-III- SEC-II – Co-curricular courses** was framed for students admitted from **AY 2016-2017 & onwards:**

4.1 Syllabi & evaluation norms for

Course	Duration	Credit	Semester
Treatment of Environmental Waste	80 Hrs	01	Any Semester from II to V

.....(Enclosure-IV)

5. **Introduction of M.Phil. programme in Industrial Chemistry.**

This is in consideration of the need and importance of research in the field of Industrial Chemistry to pursue doctoral programme and to fulfil the need of researchers in academic institutions. The M.Phil. programme in Industrial Chemistry aims primarily to provide students with a broad understanding

across all aspects of chemical engineering and chemistry at advanced level. Students may also explore in-depth specialized areas of Environmental Science, Unit Operations & Unit Processes, chemistry of materials, including polymers, metals and nanosized materials, as well as of physical chemistry of formulations, industrial catalysis, energy conversion and storage and process scale up. Hence all the members of BoS **recommended to introduce M.Phil. Programme from A.Y. 2017-18 onwards.**

6. Eligibility norms & criteria for recruitment of faculty

In addition to the eligibility norms for the appointment of teachers of UGC, Saurashtra University & Government of Gujarat, the Board of Studies proposed following additional qualifications for the same.

a) UG qualification - BE/BTech – Chemical Engineering

&

PG qualification – ME/MTech – Chemical / Biotechnology

or

M.Sc.- Environment / Environmental Science / Environmental Engineering / or any other relevant specialisation.

Engineering courses in B.Sc. Industrial Chemistry Programme

Sr. No.	Engineering Courses	No. of Hrs
FY BSc Sem-1 &2	Core-1 Industrial Instrumentations	4
	Core Practical-1 Industrial Instrumentations Practical	6
SY BSc Sem-3&4	Core-5 Unit Operations	4
	Core-6 Dyes & Dyeing, Pigments & Paints	4
	Core Practical-5 Unit Operations Practical	4
	Core Practical-6 Dyes & Dyeing, Pigments & Paints Practical	4
	Core-10 Mass & Energy Balance	3
TY BSc Sem-5&6	Core-11 Principles of Chemical Engineering-I	3
	Core-12 Heavy Chemicals	3
	DSE Core Elective-1 Petroleum & Petrochemicals / Industrial Safety / Cement & Ceramic Industries	4
	Core Practical-9 Principles of Chemical Engineering Practical	4
	Core Practical-10 Heavy Chemicals Practical	4
	DSE Core Elective Practical-1 Petroleum Analysis Practical / Industrial Safety Practical / Cement & Ceramic Industries Practical	4

	Core-15 Principles of Chemical Engineering-II	3
	Core-16 Fine Chemicals	3
	Core Practical-11 Fine Chemicals Practical	4
Total Hrs		61

Engineering courses in M.Sc. Industrial Chemistry Programme

Sr. No.	Chemical Engineering Courses	No of Hrs
FY MSc Sem-1 &2	Core 1: Industrial Stoichiometry & Momentum Transfer Operation	4
	Core 2: Industrial Unit Operations	4
	Core Practical-1 Fluid Mechanics Heat transfer operation Liquid liquid extraction	10
	Core 4: Chemical Reaction Engineering	4
	Core 5: Technologies In Chemical Industries	4
	Core Practical-2 Chemical reaction engineering and nano particles	3
	SY MSc Sem-3&4	Core 7: Mechanical Operations
DSE Core 3: Chemical Technology –I		4
Core Practical-3 Mechanical Operations		5
DSE Core Practical-3 Chemical Technology-I		
Core11: Process Control & Dynamics		4
DSE Core 4: Chemical Technology-II		4
Total Hrs		50

The above qualification be for **2 posts** out of **8 posts** sanctioned.

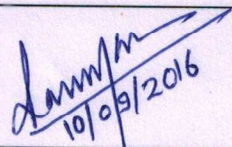
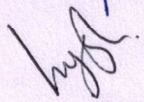
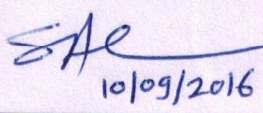
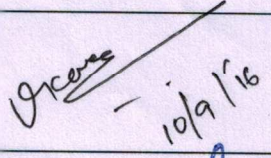
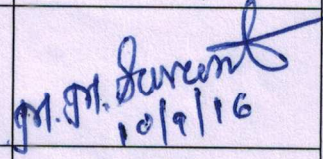
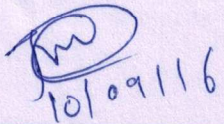
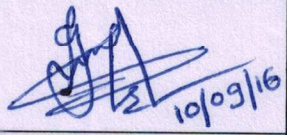
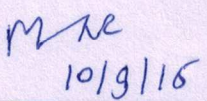
7. Any other – Syllabus for SEC-III Value Added Course

a) The members framed the syllabus for the SEC-III - Value Added Course entitled “Mechanical Operations” for students admitted from AY 2016-2017 & onwards.

..... (Enclosure-V)

b) The members have also taken a note that in Agenda 4 (point 4.2) the course entitled “Entrepreneurship Development” is to be removed, as it is going to get discussed under interdisciplinary board.

The Chairman has ended BoS meeting with vote of thanks.

SN	Name	Membership	Signature with date
1	Er. Ravi S. Tank	Chairman	 10/09/2016
2	Prof. H. S. Joshi	Subject Expert, VC Nominee	
3	Dr. S. A. Puranik	Subject Expert, AC Nominee	 10/09/2016
4	Dr. Piyush Vanjara	Subject Expert, AC Nominee	— ABSENT —
5	Dr. Pradhuman Patel	Industry Representative	— ABSENT —
6	Mr. Viral H. Karia	Member	 10/9/16
7	Dr. Mahesh M. Savant	Member	 10/9/16
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