

**REGULATIONS FOR M.Sc. INDUSTRIAL CHEMISTRY DEGREE PROGRAM  
IN SHRI MANIBHAI VIRANI & SMT. NAVALBEN VIRANI SCIENCE  
COLLEGE (AUTONOMOUS), RAJKOT  
(For students admitted from 2019-20 and onwards)**

## **1. DEFINITIONS**

In these Regulations, unless the context otherwise requires:

- 1.1 **'Program'** means M.Sc. degree Program
- 1.2 **'Course'** means theory and/or practical subjects that are normally studied in a semester, like Stoichiometry & Transport Phenomena, Organic & Retro synthesis, Industrial Unit Operations and Mechanical Operations etc.
- 1.3 **'Component'** means industrial training, field visit, or other co curricular aspects complementing the main academic learning.

## **2. ELIGIBILITY FOR ADMISSION**

- 2.1 Candidates for admission to the first semester of M.Sc. Industrial Chemistry degree Programs should have passed a bachelor's degree in science stream with Industrial Chemistry, Chemistry, Applied Chemistry, Pharmacy, B.Voc. or Chemical Engineering or any relevant engineering specialization Programs from any recognized University or any other qualification accepted as equivalent thereto is eligible for admission to M.Sc. Industrial Chemistry Program or an Examination of any other authority approved by the Academic Council/ Board of Management/ Governing Body of Shri Manibhai Virani & Smt. Navalben Virani Science College (Autonomous), Rajkot or other regulatory body as equivalent thereto from time to time. They shall also satisfy the conditions regarding the minimum marks; age and physical fitness as may be prescribed by the Academic Council of Shri Manibhai Virani & Smt. Navalben Virani Science College (Autonomous), Rajkot, from time to time, keeping the minimum requirements of UGC as the base requirement.

## **3. DURATION OF THE PROGRAM**

- 3.1 The Postgraduate Program leading to the Degree of Masters in Science in Industrial Chemistry shall extend over a period of 4 semesters (2 academic years).
- 3.2 Each semester shall normally consist of 15 weeks (90 teaching days) of course work, which consists of theory, laboratory and tutorial classes.

## **4. CREDIT SYSTEM**

- 4.1 The PG Programs of Shri Manibhai Virani & Smt. Navalben Virani Science College (Autonomous), Rajkot will follow the structure of CBCS of the UGC.
- 4.2 The PG Programs shall have the following components of the CBCS pattern:
  - 4.2.1 **Part I Courses pertaining to the main academic advocacy for obtaining a sound knowledge Science. It shall consist of courses under different heads based on nature of the course and its learning.**

### **4.2.1.1 Core courses**

- 4.2.1.1.1 Fundamental Courses
- 4.2.1.1.2 Advanced Courses
- 4.2.1.1.3 Applied Course

Core courses are compulsory courses identified by each Department, which give a broad base in the main field of study in the academic Program concerned. They may be theory or practical courses. They may also include dissertation, project and design courses where special emphasis is laid on the application of knowledge to real time problems.

**Discipline Specific Elective - Core Courses** --- these would be departmental elective courses offered by the parent department.

**Discipline Specific Elective Interdisciplinary (DSE-ID) Courses** --- these would be courses offered by allied departments which would be inter - disciplinary in nature.

**Generic Elective (GE) Course** --- these would be course offered by departments across the university by various departments of the different Faculty of the University. It is a course chosen by student generally from an unrelated discipline/subject, with an intention to seek exposure. They would be multi - disciplinary in nature.

#### **4.1.1 Part II - Courses pertaining to Courses pertaining to the Career Competency Skills & Life Skills**

The details of the above courses are provided in the respective Scheme of Instruction & examination of each Program. These courses are to enhance the overall personality and career skill of the student and are offered across the University.

4.1.1.1 It is mandatory for every student to complete the various courses of Part II and earn the minimum credit to earn their Master Degree.

4.1.2 It is mandatory for every student to earn the minimum credits under each Part, to earn their degree.

4.1.3 The details of courses under each Part are indicated in the Scheme of Instruction & Examination of each Program.

### **5. CREDIT POINTS**

Each course / component has generally been assigned a certain number of credits to be awarded to the student according to the following pattern:

4.1.4 **Theory** - 1 hr of instruction = 1 credit

#### **4.1.5 Practical**

4.1.5.1 2 to 3 hrs = 1 credit

4.1.5.2 4 to 5 hrs = 2 credits

#### **4.1.6 Tutorial**

5.3.3.1 2 to 3 hrs = 1 credit

5.3.3.2 4 to 5 hrs = 2 credits

4.1.7 The credits for Dissertation, Industrial training, Field visits and other components are detailed in the respective Conceptual Frameworks and Schemes.

## 6. EVALUATION

6.1 The evaluation shall generally comprise of Continuous Internal Assessment (CIA) and Semester End Examination (SEE) with percentage weightage as specified below, unless specified otherwise in the Scheme of Instruction and Examinations.

<i>Theory Courses</i>		<i>Practical Courses</i>	
Continuous Internal Assessment (CIA)	Varies from 40 percent to 60 percent based on the nature of course.	Continuous Internal Assessment (CIA)	40%
Semester End Examination (SEE)	Varies from 40 percent to 60 percent based on the nature of course.	Semester End Examination (SEE)	60%

## 7. COMPLETION OF PROGRAM AND ISSUE OF MARKSHEET AND DEGREE CERTIFICATE

7.1 The University shall publish the result after evaluation and with the recommendations of Result Passing Board at the end of each semester. The Semester mark sheets will be issued accordingly every semester based on the above.

7.2 Every candidate must meet the **minimum requirements** stipulated in the respective Scheme of Instruction and Examination and that stipulated by the University. The requirements of attendance and general Rules and Regulations passed by the various Statutory Bodies of the University must be met by the student. At the end of the Program on approval/ratification of the results by the Academic Council, the candidate will be recommended to the Board of Management of the University for the award of the degree on completion of all the courses and components of the curriculum.