

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Industrial Chemistry)
Semester: I
Syllabus with effect from – June - 2015

R.PG.Sc.1:

A candidate who has obtained the degree of Bachelor of Science of the University or of any other University recognized as equivalent thereto with Industrial Chemistry, Industrial Chemistry(vocational), Chemistry, any branch of chemistry or Chemistry as one of the major subject may, after successful completion of the course work etc. prescribed for the M.Sc. degree examination, for a period of two years subsequent to his passing the B.Sc. degree examination, be admitted to the examination for the degree of M.Sc. in the respective subject as per the regulation prescribed in that behalf.

The degree of Master of Science will be taken by papers and practicals only.

R.PG.Sc.2:

The examination of the various theory papers and laboratory work will be conducted under semester system. For this purpose each academic year will be divided into two semesters.

R.PG.Sc.3:

Candidates will be examined in each Theory paper for 100 marks and practicals for 200 marks wherever prescribed at the end of each semester. There shall be a viva-voce examination of 50 marks at the end of each semester to be held by the university.

For deciding result of M.Sc. examination in each semester the ratio between the internal assessment and external assessment will be 30:70.

1. Theory:

There are four theory courses in a semester each of 100 marks. Of these 30 marks are assigned to internal assessment. The breakup of these 30 marks of each course shall be as under:

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|------------------------|----------|
| • Tests | 20 Marks |
| • Quiz | 5 Marks |
| • Seminar + Assignment | 5 Marks |

2. Practicals:

The practical courses in each semester carry 200 marks. Of these 60 marks are assigned to internal assessment.

The breakup of these 60 marks for internal assessment shall be as under

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|--|----------|
| • Tests | 40 Marks |
| • Weekly attendance, Regularity, Lab. Skill, Journal | 10 Marks |
| • Viva | 10 Marks |

R.PG.Sc.4: Candidate shall be required to attend at least 75% of total theory, lectures and practicals under each of the courses during the semester.

R.PG.Sc.5:

- i) The Head of department in consultation with other teachers if the department will prepare in the beginning of the year a detailed scheme of seminars, home work, quizzes, etc. and the programme for the test examinations and the same will be announced to the candidates.



- ii) The records of the test examinations as well as seminars, home work, quizzes, etc. will be maintained by the department concerned.
- iii) Every candidate shall maintain a regular record of his/her practical work which shall be duly certified by his/her teacher(s) from time to time.

R.PG.Sc.6:

Candidates will be required to obtain at least 33% marks in the internal evaluation separately in each head of passing. A candidate who fails to obtain 33% marks in not more than two heads of passing, may be allowed to appear at the university examination by the head of department concerned on the recommendation of the committee appointed by him/her to assess the candidate's overall performance.

(Note: A head of passing will mean a course in theory or practicals)

R.PG.Sc.7:

A candidate desirous of appearing at each semester examination may forward his application in the prescribed form to Registrar through the Head of the University Post-Graduate Department concerned on or before the date prescribed for the purpose under the relevant ordinances.

R.PG.Sc.8:

The final result for the award of the degree will be declared on the basis of the grand total marks of all the Theory papers, Practicals and viva-voce prescribed for all semesters examinations for the said degree.

R.PG.Sc.9:

Only those students who fail in not more than two heads of passing at each semester examination be allowed to keep terms at the next semester. No Candidate will be allowed reappear in course in which he/she has already passed.

R.PG.Sc.10:

The standard of passing:

The standard of passing at the M.Sc. degree examination will be as under:

- a) To pass any semester for the M.Sc. degree, a candidate must obtain at least 40% marks at the University Examination and 40% marks in the aggregate of University and Internal examination in each course of theory, practical and 40% marks in viva-voce Examination.
- b) Award of Classes:
 - 1) Those successful candidates will be placed in Second Class if they obtain at least 50% or more marks in the aggregate of all semesters examinations taken together.
 - 2) Those successful candidates will be placed in First Class if they obtain at least 60% or more but less than 70% marks in the aggregate of all semester's examinations taken together.
 - 3) Those successful candidates will be placed in First Class with Distinction if they obtain 70% or more in the aggregate of all semester's examinations taken together will be declared to have passed the examination in First Class with Distinction.

R.PG.Sc.11:

- i) A candidate who fails in more than two courses (any two of the total heads of passing in the particular semester) in a particular semester will not be admitted for further study at a subsequent semester and will be required to repeat the courses in which he/she has failed by joining the department as a regular



student in the semester in which these courses are again offered. A candidate failing in not more than two courses at any semester examination will be promoted to the subsequent semester according to the following scheme.

ii) A candidate failing in the First Semester will be permitted to pursue his/her study up to the Third Semester will not be permitted to go to the Fourth Semester even though he/she may have passed in the Second and/or Third Semester. A candidate failing in the Second Semester will be permitted to pursue his studies up to the Fourth Semester.



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Course Type	Course Code	Name Of Course	Syllabus wef	Theory/ Practical	Credit	Contact Hrs/ Week	Exam Duration in hrs	Component of Marks		
								Internal	External	Total
								Total/ Passing	Total/ Passing	Total/ Passing
Core Course	PS01CICH04	Industrial Analysis - I	June 2012	Practical	4	6	3	30/12	70/28	100
	PS01CICH05	ChemEngg Practicals - I	June 2012	Practical	4	6	3	30/12	70/28	100
	PS01CICH06	Viva-Voce	June 2012	--	1	--	--	--	50/20	50
	PS01CICH 08	Industrial Management & Psychology	June 2012	Theory	4	4	3	30/12	70/28	100
	PS01CICH09	Mass Transfer Operations	June 2015	Theory	4	4	3	30/12	70/28	100
	PS01CICH10	Industrial Organic Chemistry	June 2015	Theory	4	4	3	30/12	70/28	100
Elective Course	PS01EICH 06	Technology of oleo chemicals and surfactants	June 2015	Theory	4	4	3	30/12	70/28	100
	PS01EICH 07	Water Pollution Control Technology	June 2015	Theory	4	4	3	30/12	70/28	100

