

## **FACULTY OF TECHNOLOGY AND ENGINEERING**

**Title Of The Program:** **Master of Science (Applied Chemistry)**

**Brief Description about the program:** 4 semester PG programme is offered by Applied Chemistry Department.

**Level Of The Program:** Post Graduate

**Nature Of Program:** Regular

**Eligibility Criteria :** Candidates who have passed B.Sc. Examination with Chemistry/Industrial Chemistry/ Applied Chemistry as principal subject and any subsidiary subject with minimum 50 % of marks at final year or equivalent CGPA.

**Intake capacity:** 40

**Duration of Programme:** 2 years (04 semesters)

**Fee structure of the programme :**

Rs. 10,600/- (For Boys)\*,

Rs. 9100/- (For Girls)\*,

\*Likely to be revised.

**Mode of admission:** Entrance Test

**Detail of Entrance/Admission Test:**

<b>Date and Time</b>	<b>Venue of the Test/Admission</b>
To be announced	Science block, Applied Chemistry Department, Faculty of Technology & Engineering, Kalabhavan, Opp. Badamdi Baug, Dandia Bazar, Vadodara - 390001

**Closing date of online application for the programme:** To be announced

**Contact Details:** Head of the Applied Chemistry Department, 0265-2434188Ext. 213 / 0265 2410512

**E-mail;** [head-appchem@msubaroda.ac.in](mailto:head-appchem@msubaroda.ac.in)



# msubaroda

FACULTY OF TECHNOLOGY & ENGINEERING  
THE M.S. UNIVERSITY OF BARODA  
VADODARA 390 001 (INDIA)

## DST-FIST Sponsored Department

The Applied Chemistry Department established in 1975, situated in the chemical industrial belt of Gujarat, offers a four semester post-graduate course in M. Sc. (Applied Chemistry), and a two semester PG Diploma in Corrosion Technology. The department also offers a Ph. D. programme.

### HIGHLIGHTS

#### ● **M. Sc. (Applied Chemistry):**

The course work involves a foundation in basic chemistry (inorganic, organic and physical) and applied chemistry subjects like Materials Chemistry, Polymers, Drugs, Dyes, Agrochemicals, Surfactants, Petrochemicals, Chemical Process Industries (Organic and Inorganic), Industrial Pollution. Chemical Engineering subjects such as Chemical Engineering Operations / Kinetics, Process Calculations, and Project Engineering are also taught. For inculcating entrepreneurial skills, subjects such as industrial economics / management are also covered. The course work also involves Industrial Visits and a six-month research/industry-oriented project. (Intake : 30 Students)

#### ● **PG Diploma in Corrosion Technology :**

The course work involves a foundation in Principles of Corrosion and corrosion-allied subjects such as Chemistry of Corrosion Environment, Theory of Inhibition and Corrosion Control, Surface Coating and Corrosion Prevention. The course which is jointly conducted with the Department of Metallurgy, The M. S. University of Baroda involves a six-month research/industry-oriented project. (Intake: 10 students)

#### ● **Research Activities:**

Liquid Crystals and Liquid Crystal Polymers, Metal-incorporated Polymers, Fullerenes, Cyclodextrins, Pour-point Depressants, Organic Synthesis including Natural Products Chemistry, Catalysis, Inorganic Micro and Meso porous Materials, Waste-Water Treatment. The staff of the department has received research grants from DST, AICTE, UGC, CSIR and ONGC. Presently about 25 students are registered for Ph.D program.

#### ● **Industrial Interaction :**

The department has interactions with various surrounding industries such as IPCL, GACL, GSFC, ERDA, GIPL, DAEL, ONGC, Súd Chemie Pvt. Ltd., etc. and many students are employed by these and other industries through campus interviews.

#### **For Details Contact:**

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