



# INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

(Accredited "A" grade by NAAC)

(Recognized by Section 2(f) & 12(B) of UGC Act. by University Grant Commission, New Dehli)

1st Rank among All Colleges of Gujarat by KCG (GSIRF) - 2021



## M.Sc. POLYMER CHEMISTRY

Constituent College of CVM University



### SALIENT FEATURES.....

- Four semester master's degree programme as per Choice Based Credit System (CBCS).
- The course is started in 1990 and getting excellent response from industries.
- Well equipped laboratories with facilities for polymer synthesis, processing and testing.
- Taught by well-qualified and experienced Science and Engineering faculty.
- Students can pursue Ph.D, M.Tech. etc. programme after M.Sc. degree
- Students can start their own small-scale industries.
- Library is rich with latest edition of books & periodicals.
- Project work on recent developments in the area of Polymer Sciences & Technology.
- Summer training for every student in well-known Polymer Industries.
- Invited expert lecturers and visit to various industries are conducted regularly.
- Visit to various Polymer Industries, National Seminars, Conferences and Exhibitions.
- Wide range of opportunities are available for Polymer Science & Technology postgraduates in industries and research centres.
- Placement for all students through campus interviews in related industries and organization.

### Course Contents: M.Sc. POLYMER CHEMISTRY

#### Semester I

- Core Papers** : • Concepts in Polymer Chemistry • Industrial Polymers  
• Polymer Materials & Recycling
- Electives** : • Industrial Chemistry – I  
• Concepts in Materials Science
- Practicals** : • Industrial Analysis – I  
• Industrial Analysis – II

#### Semester II

- Core Papers** : • Polymer Rheology • High Performance Polymers  
• Polymer Composites
- Electives** : • Analytical Techniques  
• Selected Topics in Polymer Chemistry
- Practicals** : • Polymer Processing & Testing – II • Polymer Synthesis

#### Semester I

- Core Papers** : • Polymer Characterization • Polymer Additives  
• Polymer Processing
- Electives** : • Industrial Chemistry – II  
• Biophysical Chemistry
- Practicals** : • Polymer Processing & Testing - I  
• Identification of Polymers

#### Semester IV

- Core Papers** : • Rubber Technology • Petrochemicals  
• Polymer Blends & Adhesives
- Electives** : • Environmental Science  
• Technology of Essential Oils Surfactants & Cosmetic Products
- Practical** : • Project Work



### 100% PLACEMENT FOR ALL STUDENTS

#### Eligibility for Admission

B.Sc. with Industrial Chemistry, Industrial Chemistry (Vocational), Chemistry, Applied Chemistry, Polymer Science, Industrial Polymer Chemistry or any other branch of Chemistry or Chemistry as one of the major subject or have studied at least two theory subjects of Chemistry/Industrial Chemistry during graduation and also with Pharm / B Tech / BE., can be admitted to the examination for the degree of M.Sc. in the respective subject (Polymer Chemistry)



**Laboratory Facilities:** • Universal Testing Machine • Dart Impact Tester • HDT & VSP Tester • MFI Tester • Taber Abrader • Brookefield Viscometer • Pelletiser • Digital Balance • Hand Blow moulding Machine • Oven • Two Roll Mill • High speed mixer • Injection moulding Machine (Automatic) • Injection moulding Machine (Manual) • Compression moulding Machine • Cutter • Film Plant • Durometer Hardness • Rockwell Hardness • Muffle Furnace • Izod / Charpy Impact Tester • Grinder • Volume & Surface resistivity • Constant Temperature Bath • Elmendorf Tear Tester • Barcol Hardness Tester • Centrifuge • pH meter • Conductometer • Calorimeter

**Campus Placements:** • IDMC, V.U.Nagar • Reliance Industries Ltd. • Indofil Ltd. • Suzlon Energy Ltd. • Styrolution Polymers Ltd. • Du Pont India Ltd. • PI Industries Ltd. • Acrysil Ltd. • Tipco Industries Ltd. • Enercon India Ltd. • Supreme Industries Ltd. • Anchor Electronic and Electricals • Solvay Specialty Polymers Ltd. • Gharda Chemicals Ltd • Asian Paints Ltd. • Bayer Materials Pvt. Ltd. • Lanxcess Ion Exchange Ltd. • Loxim Industries • Bhansali Polymers Ltd. • Atul Ltd. • BASF India Ltd. • Gujarat Fluoro Industries Ltd. • Apollo Tyre Ltd. • Polycab Ltd. • Shree Rama Multitech Ltd. • Shaily Eng. Plastics Ltd. • Crest Composites Ltd. • Grasim Industries Ltd., etc.

ADMISSION

FOR NEXT ACADEMIC YEAR WILL START

FROM MAY

# I S T A R

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