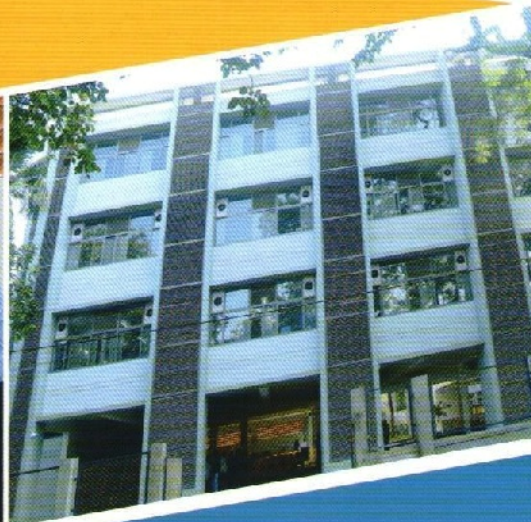


**Top Ranked College listed between 101 to 150 in India,
NIRF (2022) by MHRD, New Delhi**



COURSES OFFERED

M.Sc. COURSES

- Analytical Chemistry
- Environmental Science & Technology
- Geoinformatics
- Industrial Chemistry
- Industrial Hygiene & Safety
- Information Technology
- Instrumentation & Control
- Integrated M.Sc. Industrial Chemistry
- Master of Computer Application (MCA)
- Organic Chemistry
- Physics
- Plant & Machinery Valuation
- Polymer Chemistry
- Real Estate Valuation
- Surface Coating Technology
- P.G. DIPLOMA : Geoinformatics

Ph.D. COURSES

- Biotechnology
- Chemistry
- Environmental Science
- Industrial Chemistry
- Instrumentation & Control, Electronics
- Zoology



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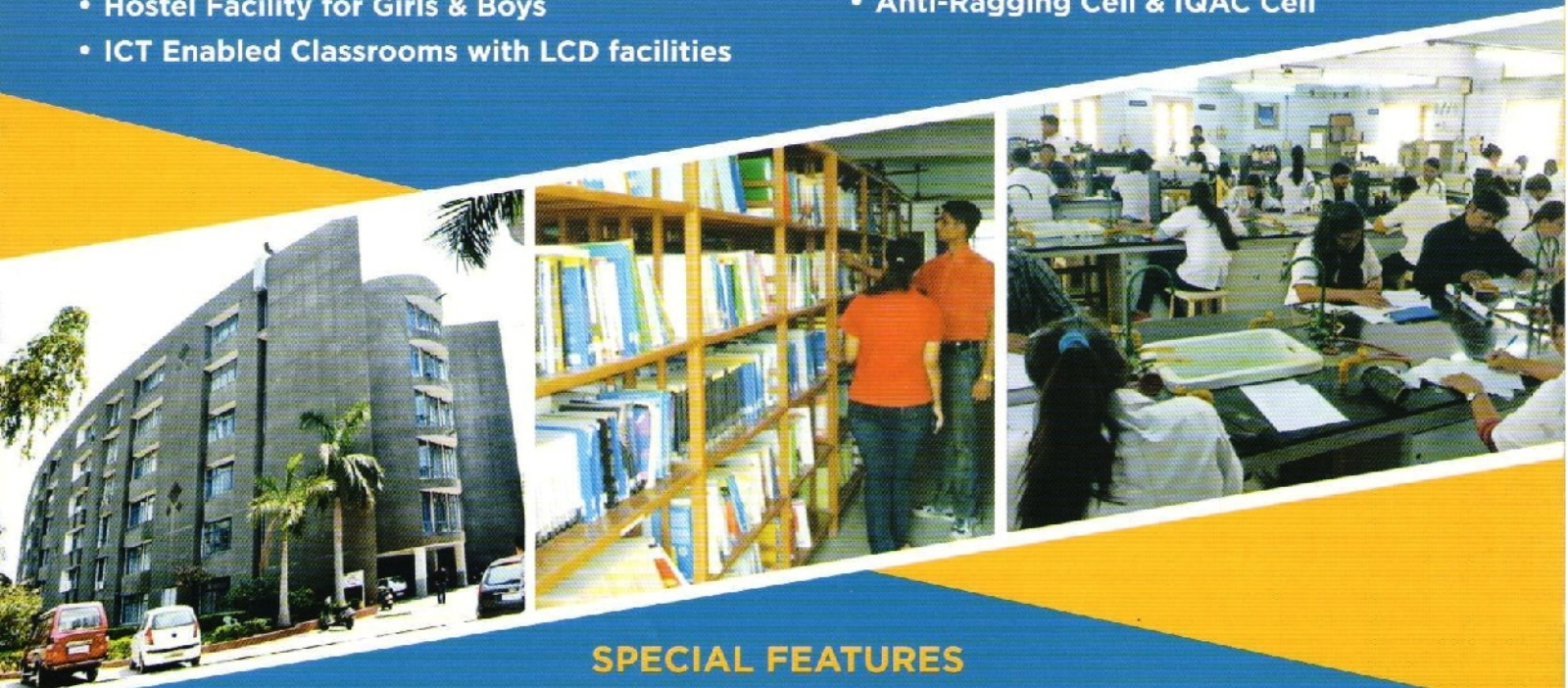
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INFRASTRUCTURE & FACILITIES

- Wi-Fi Enabled Campus for Students & Faculty
- Conference Rooms for Expert Talks & Guest Lectures
- Seminar Hall
- Outdoor Sports Ground & Indoor Sports Hall
- Free Remedial Classes & Bridge Courses for weak students
- Hostel Facility for Girls & Boys
- ICT Enabled Classrooms with LCD facilities
- AV Tutorial Rooms for effective teaching & learning
- Well-furnished & equipped Labs for M.Sc. & Ph.D. Courses
- Library with INFLIBNET, SOUL, DELNET,
- Women Development Cell
- Green Audit Cell & Grievance Cell
- Anti-Ragging Cell & IQAC Cell



SPECIAL FEATURES

- Absolute Placement in all courses either by on-campus and off-campus interviews.
- 100% university results with maximum first classes and distinctions in almost all courses.
- Taught by well-experienced, qualified, and competent Science & Engineering faculty.
- Imparts excel and quality education by conducting curricular and co-curricular activities like industrial visits, study and field trips, seminar presentations & quiz, training & dissertation, project work, alumni talks and guest lectures, symposia, workshops, seminars, and NET coaching.
- Scholarships to OBC, SC, ST, single girl child students, freeship to SC, ST students,
- Free scholarships by Asian Paints Charitable Trust, Lupin, MISA, AIST (Japan), RECOH EHS services LLP and Merit scholarships.
- Functional MoUs with International & National organizations:
AIST, Tsukuba, Japan, Cadila Healthcare, LUPIN, Asian Paints, Nandesari Industrial Association (NIA), Green Group of Industries, Climate Change Department (CCD), Gujarat, ZCL Chemical Limited, Cleaner Production Centre (GCPC), Gujarat Institute of Desert Ecology (GUIDE), REDHAT, IIRS-ISRO Dehradun, HERE Technologies for students project work, placements, dissertation, training and research.
- All programs are unique, diverse, broad-based, career-oriented and emerging that provide professional opportunities and offers multiple paths to challenging and rewarding prospective careers in industries, consultancy, research and academics everywhere in India and Overseas.



Sardar Patel Centre of Science & Technology, P.O. Box No. 13,
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Charutar Vidyamandal's

INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH (Accredited "A" grade by NAAC & KCG)

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

M.Sc. INDUSTRIAL CHEMISTRY

Affiliated to CVM University, Vallabh Vidyanagar, Anand, Gujarat.



Ms. Meena Parmar was awarded Lupin scholarship



Campus Interview

SALIENT FEATURES.....

- Four semester masters degree programme started in 1990.
- Fine blend of Chemical Engineering and Chemistry. Curriculum comprises of the core aspects of chemical engineering, organic chemistry, polymer chemistry, Industrial Management & Safety.
- Well equipped laboratories with facilities for Chemical Engineering practicals, Industrial Analysis & Organic Synthesis.
- Compulsory in-plant training of six weeks after completion of second semester.
- Regular expert lectures from eminent people from industry & academics
- Industrial visits to make the students updated with the latest trends followed in industries.
- Students counseling & Personality Development Programmes for students
- Strong Academic-Industrial Interaction
- On hand Instrumentation training in Sophisticated Instrumentation Centre for Applied Research & Testing (SICART) on GC, FTIR and HPLC.
- Library enriched with latest edition of books and periodicals based on Chemical Engineering and Chemistry
- Suitability of students to get placed in all type of chemical industry in production, QC, QA, R&D and process development divisions.
- Facility for Ph.D in the department
- Campus Placement by esteemed organizations in and outside Gujarat well before the commencement of university examinations.
- Scholarships awarded by Lupin Ltd. and MISA

Course Content: M.Sc. INDUSTRIAL CHEMISTRY

Semester I

- Core Papers :**
- Industrial Management & Psychology
 - Mass Transfer Operations
 - Industrial Organic Chemistry

- Elective Course :**
- Technology of oleo chemicals and surfactants
 - Water Pollution Control Technology

Semester III

- Core Papers :**
- Spectroscopy & Instrumental Techniques
 - Process Safety Management and transportation of fluids
 - Pharmaceutical Technology

- Elective Course :**
- Processing of oils & fats to utility products
 - Industrial Polymers

Semester II

- Core Papers :**
- Unit Processes
 - Heat transfer operations and Stoichiometry
 - Petrochemical Technology

- Elective Course :**
- Technology of paint manufacturing, printing inks & heavy duty protective coatings
 - Air Pollution Control Technology

Semester IV

- Core Papers :**
- Introduction to reaction engineering and steam generation
 - Process Development in Chemical Industries
 - Technology of Chemical Process Industries

- Elective Course :**
- Advanced Analytical Chemistry
 - Natural products

Eligibility for Admission

A candidate who has passed Bachelors degree examination in
B.Sc. Industrial Chemistry / B.Sc. Industrial Chemistry (Vocational) /
B.Sc. Applied Chemistry / B.Sc. Industrial Polymer Chemistry /
B.Sc. Chemistry / B.Pharm/Bio Chemistry and other candidates
who have studied at least two papers of Chemistry at Second Year or third year of
B.Sc as core or elective subjects.



Laboratory Facilities: Laboratory Facilities: UV-Visible Spectrophotometer, Tubular Impact Tester, Digital Sonifier, Photoelectric Colori Meter, Turbiditymeter, Muffle Furnace, Conductivity & pH meter, Liquid Extraction & Leaching equipment, Distillation Column s, Heat transfer equipments

Campus Placements: SRF Ltd., Dahej, Atul Ltd., Valsad, PI Industry Ltd., Panoli, Lupin Ltd., (Ankleshwar, Dabhasa & Mandideep Units), Rallis Ltd., Ankleshwar, Ranbaxy Labs, Dewas, Amoli Organic Ltd., Vadodara, Torrent Pharmaceutical Ltd., Dahej, Reliance Industries Ltd., Jamnagar, Zydus Cadila Ltd., Ankleshwar

ADMISSION

FOR NEXT ACADEMIC YEAR WILL START

FROM MAY

I S T A R

Institute of Science & Technology for Advanced Studies & Research(ISTAR), Mota Bazar, Vallabh Vidyanagar-388120,
Dist: Anand, Gujarat, India. Phone/Fax (02692)234955, Email: istarcvmvn@yahoo.co.uk, Website: www.istar.edu.in, www.istar.ac.in
For further details contact : 9898261951, 9687774296. E-mail : rohit.dave@cvmu.edu.in



INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

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(Recognized by Section 2(f) & 12(B) of UGC Act. by University Grant Commission, New Delhi)
1st Rank among All Colleges of Gujarat by KCG (GSIRF) – 2021



M.Sc. ORGANIC CHEMISTRY

Constituent College of CVM University

Eligibility for Admission B.Sc. Degree in Chemistry / Industrial Chemistry (Vocational)

Salient Features

- Teaching is delivered by highly experienced and qualified faculty.
- Laboratories, class rooms and seminar hall
 - State-of-art well-equipped spacious laboratories for Organic, Inorganic and Physical Chemistry practical.
 - Class rooms are well-ventilated and equipped with advanced multimedia facility.
 - A seminar hall with modern multimedia technology and a capacity of around 100 is also furnished.
- Career Services
 - Career counseling, mock interviews, resume writing seminars and personality development programme conducted during the academic year by experts.
 - Placement by campus interviews.
 - Industrial visit during academic year.
- Library and Computer Facilities
 - The Common Library of ISTAR, plays a vital role in achievement, organization and spreading of knowledge.
 - It has an excellent collection of books, journals, technical reports and other reading material.
 - The students have access to internet in the library via broad-band and in the campus premises via Wi-Fi connectivity.
 - The students are given free training on various sophisticated analytical instruments (FTIR, NMR, GCMS, HPLC, SEM, TEM, TGA, DSC etc.) at SICART
 - Invited expert lectures are conducted regularly.
 - Students can pursue Ph.D. programme after M.Sc. degree.
 - Job opportunity in R & D, QC, QA, ADL and Production departments in pharmaceuticals, agrochemicals, paint, polymer and petrochemicals industries.

Syllabus (CBCS)

Semester I

Core Papers : 1) Electron Spectroscopy and Magneto chemistry
2) Organic Chemistry-I
3) Physical Chemistry-I

Elective COURSE

: 1) Polymer Chemistry
2) Biophysical Chemistry

Semester III

Core Papers : 1) Organic Spectroscopy
2) Disconnection Approach
3) Heterocyclic Chemistry

Elective COURSE

: 1) Selected Topics in Organic Chemistry
2) Occupational Practices

Semester II

Core Papers : 1) Quantum Chemistry & Organometallic Chemistry
2) Organic Chemistry-II
3) Topics in Physical Chemistry-II

Elective COURSE

: 1) Analytical Chemistry
2) Introduction to Biochemistry

Semester IV

Core Papers : 1) Natural Products
2) Medicinal Chemistry
3) Stereochemistry of Organic Compounds

Elective COURSE

: 1) Topics in Organic Chemistry
2) Applied Organic Chemistry

Campus Placements

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> Atul Pvt. Ltd. Reliance Industries Ltd. Zydus Cadila Healthcare Ltd. Piramal Discovery Solutions. Shri Ram Fibers Pvt. Ltd. Bunge India Pvt. Ltd. Lupin Pharmaceuticals Sun Pharmaceuticals Ind. Ltd. Rallis India Ltd Aalidhra Pharmachem Pvt. Ltd. | <ul style="list-style-type: none"> Cadila Pharmaceuticals Ltd. Amuna Pharmaceuticals J. B. Chem. & Pharma. Ltd. IPCA Laboratories Meghmani Organics Ltd. Amoli Organics Pvt. Ltd. o2h Discovery Pvt. Ltd. Alembic Ltd. Rubamin Limited Aarti Industries | <ul style="list-style-type: none"> Asian Paints SynZeal Research Pvt. Ltd Apothecon Pharmaceuticals Dishman Pharma. & Chemicals Claris Life sciences Ltd. Intas Pharmaceuticals Ltd Aventis Pharma Ltd. Hemarsh Technologies Torrent Pharmaceuticals Ltd. Alentris Research Pvt. Ltd. |
|---|---|---|

ADMISSION

FOR NEXT ACADEMIC YEAR WILL START

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I S T A R

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Dist. Anand, Gujarat, India. Phone, Telefax : (02692) 234955 E-mail: office.istar@cvmu.edu.in, Website : www.istar.edu.in

Please Call for Further Details : 9427980656/8320671803/9879143295/9898436454



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

M.Sc. SURFACE COATING TECHNOLOGY

Constituent College of CVM University



About the Course:

The course has been framed to cater highly skilled technocrats for the fast growing field of Surface Coating Technology which grows hand in hand with the growth of Construction Industry (Housing & Commercial buildings), Infrastructure development (Ports, Offshore structures, Pipelines, Bridges etc), Automotive Industry, Ship building Industry, Heavy Engineering Industry, Packaging industry (Printing Ink) etc to offer protection & aesthetics to these assets.

Unique Features:

- Only course available in Gujarat and unique in India that is available for science and engineer graduates
- The 2 years (4 Semester) curriculum includes the subjects related to the technology for the manufacturing & application of the Surface Coatings and analysis of their performance properties
- Summer In-plant Training: Every year in the month of May-June, each students need to go for summer in-plant training for the period of 6 weeks at Paint, Coating and Allied Industries in different parts of the country.
- Arrangement of lectures of the professionals from the various fields of Coating Industry.
- Placement: Surface Coating Technology department has **Strong Academic** -

Industry interaction which supports in **In-plant training** and Almost 100% on and Off Campus placement with handsome salary in National and MNC Paint and Coating Industries.

- Visit and participate in National & International Seminars, Exhibitions and Conferences and various Coating Industries
- SICART Training: Three Days Sophisticated Instruments Certificate training were given to each student every year.
- Research & Testing facility available
- Conducting Corporate Training for Civil Engineers like GNFC, IFFCO, Kribhco etc. and consulting for paint application
- M/S Asian Paints Charitable trust, Mumbai have been kind enough to give scholarship to our M.Sc. (SCT) students

Course Contents: M.Sc. SURFACE COATING TECHNOLOGY

Semester I	Semester II	Semester III	Semester IV
<ul style="list-style-type: none"> • Chemistry & Technology of Polymer Science • Chemistry & Technology of Inorganic Pigments • Surface Chemistry & Surface Engineering • Practical: - Analysis of Pigments, Oils & Resins • Practical: - Analysis of Architectural Coatings • Comprehensive Viva-Voce • Process Control & Instrumental Analysis • Mechanical Engineering for Coating Technologist 	<ul style="list-style-type: none"> • Technology of Resins for Surface Coatings-I • Chemistry & Technology of Organic Pigments, High Performance Pigments, Additives & Solvents • Coating Properties & Analysis of Coating • Practical: - Instrumental Analysis and Analysis of Additives, Solvents & Raw material for resin • Practical: - Analysis of Industrial Coatings & Inks • Comprehensive Viva-Voce • Chemical Engineering Operations • Economics & Industrial Management 	<ul style="list-style-type: none"> • Technology of Resins for Surface Coatings-II • Technology of Paint Manufacturing • Technology of Architectural Coatings and Industrial Coatings • Practical: - Processing of Surface Coatings I • Practical: - Processing of Surface Coatings II • Comprehensive Viva-Voce • Chemical Reaction Engineering • Technology of Packaging and Printing Inks 	<ul style="list-style-type: none"> • Coating Application & Specialty Coatings • Corrosion Technology & Heavy Duty Protective Coatings • Technology of Construction Chemicals • Practical: - Project Work • Comprehensive Viva-Voce • Marketing Management • Environmental Management

Eligibility for Admission

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, Applied Chemistry, Polymer Science, Industrial Polymer Chemistry or any 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 (Surface Coating Technology).

Programme outcomes will provide a platform to the students to interact with leading teachers, scientists, and industry practitioners.

The Post-graduates

- Will have sound knowledge of principles involved in the area of paint/surface coatings and will play a major role in development of coating industries.
- Will adapt to the various formulations/manufacture of coatings as per the changing technologies and requirements of society.
- Will design and deploy paints/coatings that meet the needs of individuals and the industries.
- Acquainted with the latest development in Surface Coating fields to enable them to take up higher studies, research & developmental work and entrepreneur.
- Students get placement in Research & Development / Quality Assurance / Production / Technical Sales Services / Paint Application
- Students get absorbed by Paint Manufacturing Industry / Resin Industry / Pigment & Additive Industry / Printing Ink Industry / Paint Shops / In Academic and Research Institution / Paint and Coating Testing Laboratory

ADMISSION

FOR NEXT ACADEMIC YEAR WILL START

FROM MAY

I S T A R

Institute of Science & Technology for Advanced Studies & Research (ISTAR), Mota Bazar, Vallabh Vidyanagar - 388120, Dist. Anand, Gujarat, India. Phone : (02692) 234955, Telefax : (02692) 234955 E-mail: office.istar@cvmu.edu.in, Website : www.istar.edu.in

Please Call for Further Details : Dr. Mayank Patel : 9426598586,

Email- headsct@istar.edu.in



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(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 III

- 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 II

- 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

Institute of Science & Technology for Advanced Studies & Research (ISTAR), Mota Bazar, Vallabh Vidyanagar - 388120, Dist. Anand, Gujarat, India. Phone : (02692) 234955, Telefax : (02692) 234955 E-mail: istarcvmvvn@yahoo.co.uk, Website : www.istar.edu.in
Please Call for Further Details : Dr. M. M. Raj : 94270 62790, Dr. Amit Thummar : 96876 53359, Mr. Hitesh Patel : 9428393062, Email- headpst@istar.edu.in, mahendrasinh.raja@cvmu.edu.in, amitkumar.thummar@cvmu.edu.in



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(Accredited "A" Grade by NAAC & KCG)

M.SC. ENVIRONMENTAL SCIENCE & TECHNOLOGY (EST)

Affiliated to CVM University, Vallabh Vidyanagar, Anand, Gujarat

FASCINATING FEATURES

- The course provides knowledge, technical skills and competitive background not only in Ecological, and Environmental Science & Technology (EST), but also in Industrial Hygiene & Safety (IHS).
- Four semesters & Two Years Master Degree Program is offered.
- The program is flexible enough to fit in the interests and need of wide spectra of Industries, Consultancy, Academics, Research Institutes & various Organizations of Gujarat State as well as India in the field of Environmental Science, Pollution & Management, Hygiene & Safety.
- 10-12 weeks of Project / Dissertation work in frontiers of Environmental Science and Technology and Industrial Hygiene & Safety during 4th Semester.
- Certificate Course for 3-days on On-hand Instrumentation Training at Sophisticated Instrumentation Center for Applied Research & Testing (SICART) on GC-MS, ICPA, FT-IR, Environmental Testing Mobile Van during 4th Semester.
- 100% University Results with maximum number of First Class and Distinctions since inception of the course.
- Cutting-edge of research in frontiers of EST: Received funds for Major Research Projects from reputed National Funding Agencies such as MoEF, MoES, DST, UGC, FES, CCD, etc.
- Taught by highly skilled, well-experienced, well-qualified, and competent Faculties from Physical, Chemical, Biological & Natural Science aspects.
- Intake: 70 Seats



COURSE CONTENT

Semester 1

- Environmental Biology & Restoration Ecology
- Air Pollution & Climate Change
- Water Pollution & Control Technology
- Environmental Chemistry & Geology
- Practical – Two Papers

Semester 2

- Remote Sensing & Geographic Information System
- Meteorological & Environmental Instruments
- Occupational & Environmental Toxicology*
- Industrial Hygiene & Occupational Health*
- Practical – Two Papers

Semester 3

- Environmental Biotechnology
- Environmental Impact Assessment & Legislation
- Industrial Safety & Control Technology*
- Industrial Pollution & Control Technology*
- Practical – Two Papers

Semester 4

- Waste Management & Control Technology
- Environmental Resources & Biodiversity Conservation
- Practical – One Paper
- Project Work / Dissertation

* Indicates Courses related to Industrial Hygiene and Safety

Eligibility for Admission

Bachelor of Science: Environmental Science, Botany, Zoology, Fire & Safety, Chemistry & Allied Sciences, Biochemistry, Biotechnology, Microbiology, Genetics, Bioinformatics, Geography, Geology, Physics, Biomedical – Lab Technician, B.Sc. Agriculture, B.Sc. Forestry, B.Sc. Home Science, Bachelor of Engineering, B. Pharm.

Admissions From May

Absolute assistance in Campus Interview & Placements:

Majority of our students are employed in Industries, Consultancies, and Research Organizations in several parts of our country and abroad.

Employment Opportunities (Absolute Placement):

In Industry: As Environmental Auditors, Environmental Officers, ETP Supervisors, Consultants, Safety Officers, Hygienists, Scientist, Lab Supervisors, Scientific Officers, Lab Chemists, Field Supervisors, Plant Supervisor

In Academics: As Assistant Professors, Lecturers, Teachers



Memorandum of Understanding (MoU)

• National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan • Missouri University of Science & Technology (MST), Rolla, Missouri, USA • Nandesari Industrial Association (NIA), Green Circle, Inc., Baroda • Gujarat Institute of Desert Ecology (GUIDE), Bhuj (Kachchh) • Vidyanagar Nature Conservancy (VNC), GCPC, Gandhinagar, Govt. of Gujarat.

Unique Features

Excellent Laboratory Facilities • Seminars, Workshops, Industrial Visits, Study Trips, Summer Training • Weekly Practice Test, Bridge Course, Competitive Exams • Preparation for NET & SLET • Field Sampling Techniques, Laboratory Analytical Methods • Expert Talks, Guest Lectures, Ph.D. Program in Environmental Science & Biotechnology

Institute of Science & Technology for Advanced Studies & Research (ISTAR)

Mota Bazar, Vallabh Vidyanagar - 388 120. Dist. Anand, Gujarat, India.

Phone : (02692) 234955, Mo. 9426023901, 9925910970



Charutar Vidyamandal's

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M.Sc. INDUSTRIAL HYGIENE AND SAFETY

Affiliated to CVM University, Vallabh Vidyanagar, Anand, Gujarat.



SALIENT FEATURES.....

- The IHS programme is offered in collaboration with faculties from the Engineering, Medicine & Science Fields.
- Govt. of Gujarat has notified that the students who possess "Master Degree in Industrial Hygiene and Safety" could be employed as Safety Officers.
- Many IHS degree holder of this programme are confirmed with international certification of Certified Industrial Hygienist and Certified Safety Professional.
- 100% University Results with first class and distinction
- Taught by highly skilled, well-experienced, well-qualified and competent Faculties from Academic & Industrial fields.

Course Contents: M. Sc. INDUSTRIAL HYGIENE AND SAFETY

Semester I

Core Papers

- Introduction to Industrial Hygiene, Occupational Health & Environmental Toxicology
- Safety Management
- Air Sampling Analysis
- Safety Engineering-I
- Practical, Seminar, viva Based on PS01CIHS21 and PS01CIHS23
- Introduction to Human Physiology, Biostatistics and Epidemiology

Semester II

Core Papers

- Industrial Ventilation
- Hazard Identification, Assessment and Control Techniques
- Physical Aspects of the Environment
- Safety in Chemical Industry
- Practical, Seminar and VIVA Based on PS02CIHS21 and PS02CIHS23
- Elective (Any One)
- Industrial Visits and Seminars
- Accident Case Studies

Semester III

Core Papers

- Medical Surveillance and Biological Monitoring
- Hazardous Waste Management
- Principles of Ergonomics
- Safety Engineering- II
- Legislation on Safety & Health
- Elective (Any One)
- Advanced Safety Management and Engineering Techniques
- Safety in Construction Industry

Semester IV

Core Papers

- Standards on Safety & Health
- Project Work / Dissertation

Eligibility for Admission

A candidate who has passed a B. Sc. OR B.E. from a recognized university will be eligible for admission.



Campus Interview and placement : Almost all students are employed during the 4th Semester of their practical training and dissertation work at the different industries . Previous Years: Reliance Ltd., 3M, L&T, ESSAR Steel Ltd. Surat , ESSAR Power, International Safety System, Industrial Hygiene Services, Jaypee Group, Jubliant Infrastructure Ltd, John Energy, Sustainable EHS, Mylan Pharma, TATA Steel, Linde Engineering, DRL, Dishman Pharma, United Phosphorous Ltd , Genpact Jaipur, Vapi Environtech Ltd.

Employment Opportunities : IHS Students are placed in various industries as a Safety Officer, Industrial Hygienist and Environment Health and Safety Officer. Normally post offered is of Assistant Managers and Safety executive with handsome remuneration.

ADMISSION

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Charutar Vidyamandal's INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

(Accredited "A" grade by NAAC & KCG)

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

M. Sc. (Real Estate Valuation)

M. Sc. (Plant & Machinery Valuation)

Affiliated to CVM University, Vallabh Vidyanagar, Anand, Gujarat.

SALIENT FEATURES.....

- A four semester full time post graduate degree course in valuation
- **First course in India** of its kind in the field of valuation
- It is a multi-disciplinary course, specially designed to cater to the needs of the Valuation Profession
- **Professionals from the field of valuation and other allied field are invited as Visiting Faculty**
- M.Sc. Valuation course curriculum covers the syllabus of valuation examination notified by Insolvency and Bankruptcy Board of India (IBBI)
- Post Graduate degree holder in Valuation can play vital role as valuer under Companies Act, 2013 and IBC 2016 and REITs
- P. G. degree holder in Valuation can get registration under Wealth Tax Act with experience of only Two years as against Ten years for graduate engineer in the respective discipline

Course Content

M. Sc. (Real Estate Valuation)

Semester I

Principles of Economics, Book Keeping and Accountancy, Elementary Surveying and Eng. Drawing, Introduction to Statistics, Principles of Valuation, Ele. of Laws and Jurisprudence, Comprehensive Viva-Voce

Semester II

Prin. of Insurance & Loss Assessment, Building Technology- I, Law - I, Law - II, Valuation of Real Estate-I, Urban Land Economics, Comprehensive Viva-Voce

Semester III

Environmental Impact Assessment, Finance, Busi. & Mgmt. Studies, Town and Regional Planning, Building Technology-II, Valuation of Real Estate-II, Maint., Repairs & Dila of Bldgs And Real Estate Management, Report Writing, Comprehensive Viva-Voce

Semester IV

Field Work and Seminar, Project Work, Comprehensive Viva-Voce

M. Sc. (Plant & Machinery Valuation)

Semester I

Principles of Economics, Book Keeping and Accountancy, Elementary Surveying and Eng. Drawing, Introduction to Statistics, Principles of Valuation, Ele. of Laws and Jurisprudence, Comprehensive Viva-Voce

Semester II

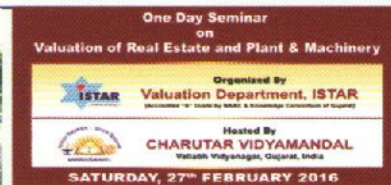
Prin. of Insurance & Loss Assessment, Principles of Machine Tools & Factory Equipment, Legal Study - I, Valuation of P&M - I, Valuation of P&M - II, Industrial Processes, Comprehensive Viva-Voce

Semester III

Environmental Impact Assessment, Finance, Business & Management Studies, Town and Regional Planning, Legal Study - II, Valuation of P&M - III, Valuation P&M - IV, Report Writing, Comprehensive Viva - Voce

Semester IV

Field Work and Seminar, Project Work, Comprehensive Viva-Voce



Eligibility for Admission

Bachelor Degree Examination preferably in commerce, science, engineering, architecture, mathematics, statistics, economics, law, management and agricultural science of this University or an examination recognized as equivalent thereto. [Such as Section A & B Examination conducted by the Institution of Engineers (India) and Section A & B of Association Membership Course conducted by The Institution of Mechanical Engineers (India)]

Career opportunities

- Multinational firms, Semi-Government organization like HUDCO, Professional firms who deal with Valuation, and Independent Valuers are keen to absorb the Master degree holders in Valuation
- A Master Degree holder in Valuation can start career as a Professional Valuer and can establish own practice at a young age

ADMISSION

FOR NEXT ACADEMIC YEAR WILL START

FROM MAY

Apply Online on www.sauvvn.edu

I S T A R

Institute of Science & Technology for Advanced Studies & Research (ISTAR), Mota Bazar, Vallabh Vidyanagar - 388120, Dist. Anand, Gujarat, India. Phone : (02692) 234955, Telefax : (02692) 234955 E-mail: istarcvmvn@yahoo.co.uk, Website : www.istar.edu.in
Please call for further details: Rupesh T. Shah (M) 9824161415, E-mail: rupeshtshah@yahoo.co.in



INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

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

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



COMPUTER SCIENCE (MCA / M.Sc. IT Programme)

Constituent College of The CVM University

About Master of Computer Application (MCA) : Course Designed based on Full Stack Development Theme

MCA programme of The CVM University is theme based programme that meets the IT industries demand and prepare qualified professionals. MCA Programme always emphasis concept oriented and practical based pedagogies approach for their learners.

Course Duration: 2 Years

Eligibility: As per AICTE/ACPC/CVMU Norms

A candidate shall have passed the qualifying examination of B.C.A. / B.Sc. (Computer Science) / B.Sc. (IT) / B.E. (CSE) / B.Tech. (CSE) / B.E. (IT) / B.Tech. (IT) or equivalent Degree or passed any graduation degree (e.g.: B.E. / B.Tech. / B.Sc. / B.Com. / B.A. / B.Voc. / etc.) preferably with Mathematics, Business Mathematics or Statistics at 10+2 level or Graduate level. Passing Criteria: Minimum 50% (45% for SC / ST / SEBC/EWS)

Course Contents: MCA

Sem-1

- Java – Beginner to Professional
- Python – Beginner to Professional
- Operating system
- Web Programming Concepts – Beginner to Professional
- Data Structure

Sem-2

- Databases – Beginner to Professional
- Full Stack Web Development
- Software Testing and Quality Assurance
- PHP Framework
- Linux Programming and Shell Scripting

Sem-3

- Mobile Application Development
- Project Management
- Project on full stack development
- CSS Responsive framework
- Cloud Computing
- Content Management System

Sem-4

- Internship (Project Work)

About M.Sc. (Information Technology) : Course Designed based on Data Science Theme

Information Technology is the most captivating sector of the modern world. Every people and each of the organization are been fascinated by the technique of it. The objective of this course is to "Produce Master of Science (IT) students with technological and skilled abilities to work on real challenges of the industries and societal needs."

Course Duration: 2 Years

Eligibility: As per UGC/CVMU Norms

Who passed, B.Sc. (IT) | BCA | BBA (ISM / ITM) | BE (IT, EC, CE) | any Science Graduate who studied one theory course in Computer Science / Information Science from recognized University.

Course Contents: M. Sc. (IT)

Sem-1

- Java – Beginner to Professional
- Python – Beginner to Professional
- Computer Network
- Web Programming Concepts – Beginner to Professional
- R Programming

Sem-2

- Databases – Beginner to Professional
- .NET Core Framework
- Data Mining Techniques & Artificial Intelligence
- Python Framework
- Internet of Things (IoT)

Sem-3

- Mobile Application Development
- Project Management
- Project on Data Science
- Machine Learning
- Natural Language Processing
- Digital Image Processing

Sem-4

- Internship (Project Work)

Unique Features:

- Both courses are designed as per the current industry requirements.
- Two year postgraduate programme affiliated to The CVM University.
- The course provides the knowledge, technical skill and solid background not only in the field of computer science but also would make them compatible with industrial standards.
- Highly skilled and qualified pool of faculty members.
- Seminars, Industrial visit, Study Tips, Expert Talks, Webinar, Summer Training, Bridge Course, hands on workshop and sport week for the overall student development.
- Enriched library facility with latest edition books and periodical journals.
- Majority of our students are employed in industries, consultancies and research organizations in several parts of our country and abroad also.
- Well Equipped Laboratory & smart Classrooms.

Program Outcomes: Provide a platform to the students to interact with leading teachers, scientist, and industry practitioners.

- **Technical Proficiency:** Post Graduates in computer science should possess a strong understanding of various programming languages, databases, software engineering principles, algorithms, data structures, and other technical aspects relevant to computer applications.
- **Advanced Technology:** Students get the knowledge of latest technology which is currently required in industries.
- **Problem-Solving Skills:** Post graduates in computer science should be adept at analyzing complex problems and devising efficient solutions using computational techniques and software development methodologies.
- **Project Management:** Post programs often emphasize project management skills, including planning, scheduling, budgeting, resource allocation, risk management, and coordination, to ensure successful completion of software projects.
- **Continuous Learning:** Given the rapidly evolving nature of technology, Post graduates should demonstrate a commitment to lifelong learning and professional development, staying updated with the latest trends, tools, and techniques in the field of computer applications.
- **Career Readiness:** Ultimately, the goal of an MCA program is to prepare graduates for successful careers in various sectors such as software development, IT consulting, system analysis, database administration, project management, research, and academia. Graduates should possess the skills, knowledge, and mindset required to excel in their chosen career paths and make meaningful contributions to the field of computer applications.

ADMISSION

FOR NEXT ACADEMIC YEAR WILL START

FROM MAY

I S T A R

Institute of Science & Technology for Advanced Studies & Research (ISTAR), Mota Bazar, Vallabh Vidyanagar - 388120, Dist. Anand,
Phone: +91 02692-234955 Email: office.istar@cvmu.edu.in Website : www.istar.edu.in

Please Call for Further Details : Dr. Ashish Joshi (9510586855), Dr. Niky Jain (9033367762), Dr. Suchita Patel (957434914)



Charutar Vidyamandal's

INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

(Accredited "A" grade by NAAC & KCG)

3rd Rank Among All Colleges of Gujarat by KCG 2019

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

M. Sc. Geoinformatics

Duration: 2 Years (4 – Semesters)

Affiliated to CVM University, Vallabh Vidyanagar, Anand, Gujarat.



Webinar



Students Participation @ ISRO



Expert Lecture by
ISRO Scientist

GOAL :

The goal of this M. Sc. Degree Programme is to produce highly qualified and motivated post graduates who have been trained in GIS, RS, GPS, DBMS and related IT fields.

SALIENT FEATURES.....

- Upcoming Opportunities Under Digital India, Smart Cities, AMRUT, Skill India, Land Record & Power Sector Modernization, Municipality Utilities Services, E-governance, E-Kranti, Rail-Adhar for Project Management & Implementation
- Linkages with ISRO-IIRS, C-DAC, MPCOST, Compusense Automation, Scanpoint Geomatics & Reputed Recruiting Agencies
- Technical support from Indian Society of Geomatics, Ahmedabad
- Blend of Multidisciplinary Aspects of Remote Sensing, Image Processing, GPS, Android, Geoinformatics, Geo Web Servers, Live Field Project Work etc.

GOVERNMENT
SCHOLARSHIP FOR
SC / ST / OBC
STUDENTS
Freeship Card

Application Areas: E- Governance, Environment & Climate change, Urban Infrastructure Development & Planning, Tourism, Irrigation, Forestry, Agriculture, Water Resource, Rural Development, Mineral Prospecting, Geosciences, Disaster Management, Crowd Sourcing, Database Management, Ocean Resource, WebGIS etc.

Job Scope

- | | | | |
|-----------------------|--------------|--------------------|---------------------------------------|
| ❖ ISRO – IIRS | ❖ NRSC | ❖ Govt. Ministries | ❖ Survey of India |
| ❖ R & D Organizations | ❖ NGOs | ❖ Agriculture | ❖ Geospatial Companies |
| ❖ Municipalities | ❖ Smart City | ❖ Surveyor | ❖ Disaster Management Organization... |

Why @ ISTAR?

1. Well Trained Faculties & Lab Equipped with RS, GIS, GPS & Image Processing Software & Hardware
2. Focus is given on conveying new approaches to data processing, analysis and interpretation as well as the use of innovative technologies.
3. **Institute is conducting PG Diploma Course since 2014 -15.**
All students of previous batches are well placed.
4. Provide online certificate courses organized by IIRS-ISRO, Dehradun.

Eligibility B. Sc., BCA, B.E., B. VoC (SD), BBA (ITM/ ISM), PGDCA, PGDCAA, MCA, M.Sc.

Fees Rs. 35000/- per semester



IIRS-ISRO Online Exam



Industrial Visit



GPS & Total Station Training



Python Workshop

Mota Bazar, Vallabh Vidyanagar-388120, Dist: Anand, Gujarat, India

For details Contact : Dr. Krunal suthar (9879356316), Dr. H.N.Kapse (9879062713), Akangsha Verma (8011842811)

Email: istarcvmvvn@yahoo.co.uk, Phone:(02692)234955 , Website: www.istar.edu.in



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



Constituent College of The CVM University M. Sc. (IIoT & Instrumentation) (Intelligent Internet of Things & Instrumentation)

Eligibility: B. Sc., B.E., B.Tech, BCA

Duration: 2 Years (4 Semesters)

Industries are rapidly moving towards automation with wireless systems, extending the use cycle with predictive maintenance, powered by AI-ML algorithms.

- Intelligent IoT systems, bolstered by AIML technologies, are aiding in predictive analytics and decision-making processes. Increased network agility, integrated instrumentation, and capacity to deploy, automate, orchestrate, and secure diverse uses at hyper scale is possible.

Job Scope

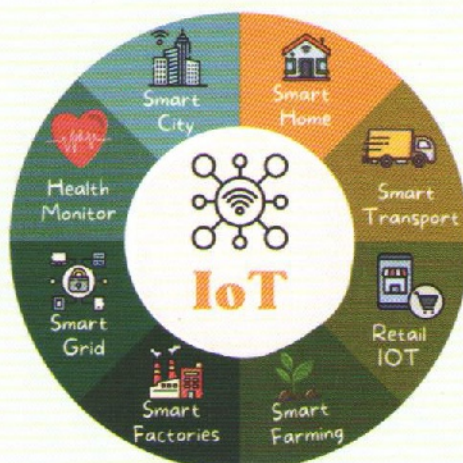
- System Level Solutions
- Product Design - Automation
- Manufacturing - Process Plant
- Analytical - Biomedical Systems
- R & D Organizations, Academics etc.

Unique Features:

- Course provides technical know-how about various sensing systems and its data acquisition
- Step towards Industry 4.0 to Industry 5.0
- Automation with IIoT and enhancement of technical skills
- Industry Specific - Blend of Intelligent Software /Hardware Systems
- Combination of theory, practical and project work in each semester.
- Industrial exposure with in-plant training at related industries
- Seminar presentation – confidence building
- Experienced and Skilled technical Professionals from Industries for Expert Talks, Personality Development Programs
- Prospective course for job placements

Course Contents:

- Sensors Fundamentals
- Principles of Control Systems
- Programming – Python
- Signal Processing Circuits
- Optoelectronics & Fiber Optic Sensors
- Sensing & Analytical Systems
- Advanced Microprocessor & Microcontrollers
- Fundamentals of IoT
- Data bases - Data Mining
- Software Testing
- Practical – Project work

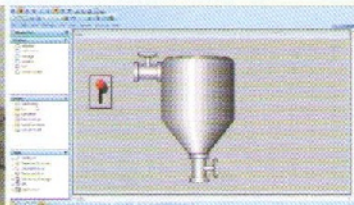


- Data Communication & Networking
- Machine Learning
- PLC-DCS-SCADA
- RF & Microwave Communication
- Power Electronics & Automotive Sensors
- Biomedical Sensing & Imaging Systems
- Artificial Intelligence
- Robotics & Fuzzy
- IIoT & Cloud
- Micro-system Fabrication Technology
- Practical – Project work

Image Source: <https://www.mdpi.com/1424-8220/22/23/9271>



<https://freeway.com/ai-in-iot-enhancing-the-power-of-smart-devices/>



I S T A R

Institute of Science & Technology for Advanced Studies & Research (ISTAR)

Mota Bazar, Vallabh Vidyanagar - 388120, Dist. Anand, GUJARAT

Phone: +91 02692-234955 Email: office.istar@cvmu.edu.in, headinc@istar.edu.in Website : www.istar.edu.in

Please Call for Further Details : Dr. Himanshu Kapse : 9879062713, Mr. Keyur Patel : 9998039325



Estd. 1999

Institute of Science & Technology for Advanced Studies & Research (ISTAR)

Constituent of CVM University

Recognized under 2(f) & 12(b) of UGC Act, 1956

1st ranked in Gujarat State (GSIRF) ranking



M. Sc. Physics

Eligibility:

Bachelor of Science (B. Sc.) in Physics,
Applied Physics, Physics (Hons),
Electronics, Electronics & Communication
General B. Sc. or any subject with at
least 10 credits of Physics studied at
graduation level.

Specialization s –

Space Technology / Solid State Physics

Features:

2 years – 3 sem course work + 1 sem Project work
Sophisticated facilities / labs for Practical & Project
work, Skill based learning concepts – Seminars
State of Art Lab with Spectroscopic and Analytical
Instruments at SICART
Scholarships Available , Assistance in job placements

Job Scope:

- Academic and Education institutions, Research labs , Atomic and Space organization, Meteorology departments, Renewable Energy Organizations, Biophysical labs etc.
- Instrumentation Industries, Govt. Organizations
- After this Masters course, students can opt for Ph.D.



ISTAR - CVM University, Vallabh Vidyanagar, Dist: Anand, Gujarat, India

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