UNIVERSITY INDUSTRY INTERACTION CELL A Guide to INFRASTRUCTURE, TESTING FACILITIES, CORE COMPETENCE & EXPERTISE



UNIVERSITY & INDUSTRY INTERACTION CELL SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar 388120, Gujarat, India

December 2022









#startupindia



UNIVERSITY & INDUSTRY INTERACTION CELL

UIIC Committee

1	Prof. Niranjan P. Patel	Offg. Vice Chancellor, SPU	Chairperson
2	Prof. K. N. Lad	Department of Physics, SPU	Convenor
3	Prof. Y. C. Joshi	Department of Business Administration, SPU	Member
4	Prof. S. S. Kalamkar	Agro-Economic Research Centre, SPU	Member
5	Prof. S. H. Chaki	Student Start-up & Innovation Policy, SPU	Member
6	Prof. Shahera S. Patel	Department of Electronics, SPU	Member
7	Prof. Shivani Mishra	Department of Social Work, SPU	Member
8	Shri J. A. Patel	Warm Stream, GIDC, Vithal Udyognagar	Member
9	Shri Sheel Dholkia	Alpha Paint Pvt Limited, Vithal Udyognagar	Member
10	Dr Bhailalbhai P. Patel	Registrar, SPU	Invitee
11	Dr Bhautik A Patel	Chief Account Officer (I/c), SPU	Invitee
12	Prof. A. H. Hasmani	Coordinator, IQAC	Invitee

Edited By:

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Published By:

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ACKNOWLEDGEMENTS

The first task after the re-constitution of the University Industry Interaction Cell (UIIC) in January 2022 was to come up with an updated booklet providing an overall outlook of the infrastructure, facilities and expertise in the ecosystem of academics, research, extension and outreach activities at the university. A two-member sub-committee including Prof. S. S. Kalamkar, AERC, SPU and Prof. Shahera S. Patel, Department of Electronics, SPU was entrusted with the responsibility of collection of the data and preparation of draft of this booklet. Their diligent efforts to bring out the booklet in its present form are gratefully acknowledged. In the painstaking task of collection of verified data from different departments of the university, we were greatly helped by Dr Lavji N. Zala, Assistant Professor, Department of Library & Information Science, the PhD students Mr Nikhil Vekaria, Department of Materials Sciences, Ms Anjali Thakkar, Department of Applied & Interdisciplinary Sciences, and Dr Thansingh Parihar, AERC, SPU. We thank them for their humble support. The guidance and the administrative support from the honorable Offg. Vice Chancellor Prof. Niranjan P Patel and the Registrar, Dr Bhailal P Patel is highly acknowledged.

UIIC Committee

Key Features, Facts and Figures about the University

1955		27		45	116				
Year of Establishment:		University Departments		No. of Academic Programs offered	Affiliated Colleges				
4000+		300+		225	09				
No. of Students on Campus		No. of Ph. D. Scholars		No. of Faculties	No. Academic Chairs:				
	600+				•				
No. of Students undergoing Internships annually:									
Research & Consultancy (2016-21)									
	1086 396			12*	112				
No. of Research Papers		No. of Books		No. of Patents	Research Projects				
4683 lakhs		13		32 lakhs	57*				
Research Fund Received		Consultancy Projects		Revenue Generated from Consultancy Projects	MoUs				
	Key Research & Outreach Ce	nters							
. »	Agro Economic Research Centre		»	Model Career Centre					
	(Ministry of Agriculture & Farmers Welfare)			(Ministry of Labour & Employment)					
»	 » Cost of Cultivation Scheme (Ministry of Agriculture & Farmers Welfare) 			Museum Human Resource Development Centre (UGC, Govt, of India)					
»									
»				 SSIP (Student Startup and Innovation Program) (Govt. of Gujarat) International Students Centre 					
		,							

Support Centers and Facilities

- » University Health Center
- » RT-PCR Lab
- » University Press
- » University Sophisticated Instrumentation Centre (USIC)
- » YUVI Sports Complex
- » Gymnasium and Swimming Pool
- * Total Number till date

- Central Auditoriums
- » M. P. Patel Auditorium (Capacity: 266)
- » Adi Shankaracharya Auditorium (Capacity: 165)
- » Multipurpose Auditorium with Exhibition Gallery (Capacity: 1036)



Foreword

It is a great pleasure to write a foreword for this booklet which gives a detailed information about the resources and expertise available at the Sardar Patel University (SPU). Being a leading state university for academics and research, SPU had taken up an initiative to establish the University and Industry Interaction Cell(UIIC) for promoting collaboration among the academia and the industries to achieve technical adeptness and excellence for developing indigenous technologies in tune with the contemporary challenges of regional and national needs. It has led to several active links with industries, government and non-government organizations, private agencies and entrepreneurs. The expert, skilled human resources and technical facilities of different departments of the university have facilitated fruitful collaborations with these stakeholders in terms of sponsored research and consultancy projects, professional training programs, student internships and placements etc. In the last 5 years, the advancements and progress in the research, consultancy, extension and outreach activities at the university and its departments have led to addition of many new infrastructural facilities for research and development. Therefore, it is the need of the hour to provide updated information to all the stakeholders to explore new possibilities and opportunities for academia-industry interaction.

In the backdrop of the fast-changing national and global landscapes of technological, business and social needs of the society, a strong and result-oriented interaction of the industrial, corporate, service and social sectors with the academia has become inevitable. This booklet intends to facilitate the stakeholders in these sectors by providing up-to-date information about the infrastructure, testing facilities, expertise and core competencies of the faculties.

I strongly believe that this booklet provides an overall outlook of the academics, research and consultancy ecosystem at the university. I am also sure that it will be immensely helpful to all the interested stakeholders and effectively guide them to explore the opportunities to establish links with the university.

Vallabh Vidyanagar December, 2022

Prof. Dr Niranjan P. Patel Offg. Vice Chancellor

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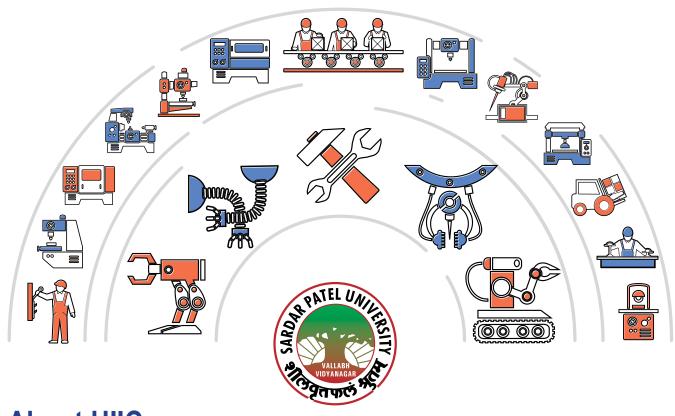
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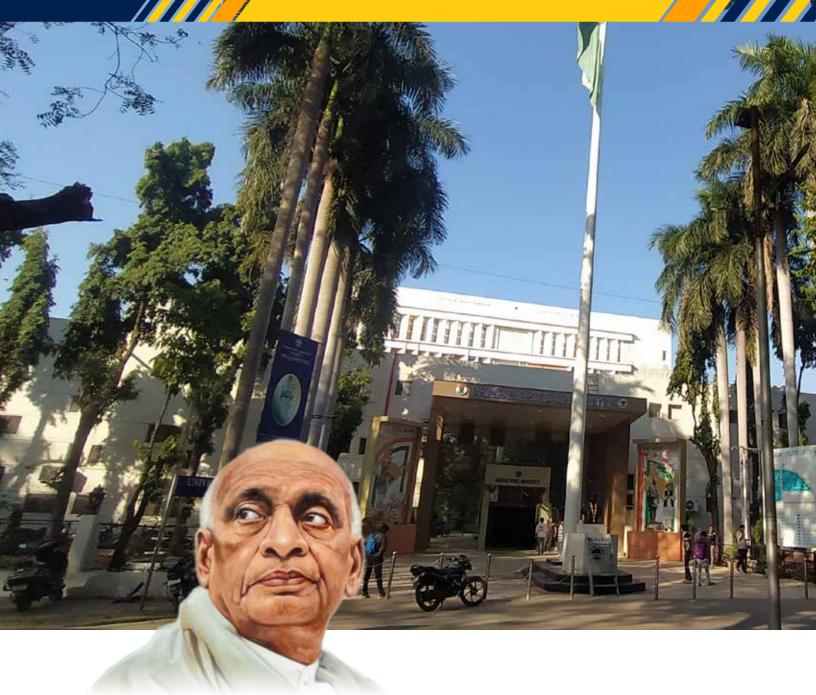
About UIIC

With the emergence of free market economy in India, considerable emphasis is being given for the close cooperation between industries and universities. University-Industry Interaction Cell (UIIC) has been established at Sardar Patel University to promote cooperation amongst faculty members of the University and the leaders of the industrial, business, corporate and social sectors to achieve technical proficiency and excellence. Active and fruitful interaction between industry and academia has gained impetus due to the movements like 'Make in India', 'Skill India', 'Startup India' and 'Atma Nirbhar Bharat' of the Government of India to promote research and innovations for making India a self-reliant, world class manufacturing hub. In the present scenario of Nation Building engulfed with global competition and challenges, National Education Policy 2020, UIIC has an important role to play for establishing a symbiotic relationship with the various sectors of the industries.

The UIIC works with the following specific objectives:

- » To create a database on Need Analysis of Industries in the state
- » To create a database on expertise/facilities on the campus

- » To coordinate R & D projects/consultancy/sponsored projects/ to address technical problems facing the Industry and the University and explore technology transfer of the new processes and technology developed by the University Departments.
- » To assist in signing of MOU, promote patent awareness and development of IPR/Patents by the University faculty based on their products and processes developed
- » To help testing/characterizations of the materials or samples of Industrial applications
- » To offer training programs/to co-ordinate Seminars relating to research outcomes with potential Industrial Applications.
- » To characterize, test and analyze industrial products
- » To keep liaison with various funding agencies and Govt. organizations
- » To make aware about the expertise resources available with the University



About Sardar Patel University

Sardar Patel University is a state university located in the educational township-Vallabh Vidyanagar- specifically developed by the motivation of the great freedom fighter and the architect of current integrated India, Shri Sardar Vallabhbhai Patel. Since its inception in 1955 (as Sardar Vallabhbhai Vidyapith) as a rural university with a mission of regeneration and rejuvenation of rural Indian life through higher education and research in all the discipline of knowledge, Sardar Patel University has evolved as a modern semi-urban university with 27 postgraduate departments, 01 constituent college, 04 academic centres, 09 academic chairs within the campus and 116 affiliated colleges. The university relentlessly caters to the educational needs of the people for career in higher studies, research, jobs, and professional services by offering a variety of UG, PG, PG Diploma, Ph.D. programmes and Certificate courses in tune with the developments at local, regional, national and global levels.

The university has completed 67 golden years of a fruitful existence and exceled in academics as well as research. Sardar Patel University was re-accredited with "A" Grade by NAAC (CGPA 3.25) and is well recognized for its academic and research excellence. It can be judged from the fact that 13 departments of the university are sponsored under various national research schemes such as UGC DRS/SAP/DST



FIST/PURSE, UGC CPEAPA etc. Faculties of the universities has published more than 1000 research papers in reputed peer-reviewed national and international journals indexed in SCOPUS and Web of Science during last 5 years. During the same period, Rs. 47 crores have been received as research grants and consultancy fees under 106 sponsored projects by the central and state government agencies like UGC, DST, DBT, DAE, GUJCOST, ICAS, ICSSR, MHRD, etc. The faculties of the university has 12 patents to its credit till date. The University hosts NBHM (under the DAE, Government of India) Western Region Library at the Department of Mathematics. The research work by individual faculty members is also well recognized. Three faculty members (1 on roll, 2-superannuated) are included in the recent list of world's top 2% scientists published by Stanford University.

The University has several unique features namely, it is the only one university in the western India and in the state of Gujarat for getting recognition as the center of excellence in applied polymers for multi-disciplinary research. It has its own community Radio Station and GUJCOST funded Community Science Center. It has an Agro-Economic Research Centre (for the states of Gujarat, Rajasthan, Dadra and Nagar Haveli) and Cost of Cultivation Scheme for Gujarat.

Avenues for University Industry Interaction

The possible avenues for the university industry interaction are listed below. The list is suggestive and not exhaustive.



- SSIP : Student Start up & Innovation Policy Cell »
- NEP : National Education Policy Cell »



University has undertaken various Memorandum of Understanding with various Universities/ Institutes/ Development of Academic Orientation, Guidance to identify research area, interdisciplinary orientation, sharing the facility with each other, joint visit of research institute and industries, etc.



Earn while Learn program

University has a unique pioneering project for the student i.e. Earn While lean program which help the students to find part-time work on the campus to meet their educational/living costs while simultaneously helping them gain work experience and inculcate work values.

Exposure Visits

In order to prepare the students for global competition, students are equipped with both theoretical as well as practical knowledge. Students are exposed to a life-changing experience through exposure visits to Universities/ Institutes/Firms. These travels provide students with an opportunity to stretch their views and transform their understanding of self, their world and the way business is conducted in a globalized world. Such trips allow a kind of cross-cultural exchange that go miles in helping students attain their ultimate goal of having a paid job.



Infrastructure Facilities Expertise

CENTRE

ARTMENTS

Department of Biosciences Email: hodbios_spu@spuvvn.edu

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Department of Home Science Email: hodhs_spu@spuvvn.edu

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Department of Materials Science Email: hodms_spu@spuvvn.edu

Department of Statistics Email: hodstat_spu@spuvvn.edu

Department of Computer Science and Technology Email: hodcst_spu@spuvvn.edu

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Department of Sociology Email: hodsoci_spu@spuvvn.edu

Department of Law Email: hodlaw_spu@spuvvn.edu

Department of Library & Information Science Email: hodlis_spu@spuvvn.edu

> M B Patel College of Education Email: spuvvnmbpce@gmail.com

UGC Human Resource Development Centre Email: director@hrdcspu.ac.in

> Community Science Centre Email: cscspuvvn@yahoo.com

Agro Economic Research Centre Email: aerc@spuvvn.edu

Cost of Cultivation Scheme Email: ccsgujarat@gmail.com

Community Radio Station Email: spuradiocampus@gmail.com



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Department of Biosciences

A) Specific Areas of Research Activities

- » Microbial and Environmental Biotechnology
- » Plant Morphogenesis and Physiology
- » Plant and Animal Biotechnology
- » Plant and Microbial Biodiversity
- » Photochemistry and allied areas
- » Microbial and Environmental Biotechnology
- » Purification and structural characterization of » phycobiliproteins from Cyanobacteria
- Identification of novel genes for bioremediation through metagenomic approach
- » Characterization of Arsenic hypertolerant microorganisms
- » Microbial and Environmental Biotechnology
- » Production, purification and characterization of microbial secondary metabolites
- » Production of microbial enzymes and their applications
- » Production and modification of biodegradable polymers
- » Lactobacilli and their probiotic potential
- » Plant and animal Biotechnology
- » Genetic variants in diabetic population and its association with onset of diabetes and its secondary complications

- Proteomic identification and characterization of new Biomarkers in diabetic complications.
- » Elucidation of disease resistance mechanisms in plants at structural, biochemical and molecular level
- Development of novel feed with probiotics for aquaculture
 - Micropropagation of economically important medicinal plants
 - Plant and microbial diversity
 - Bridging the knowledge gaps in the flora of Gujarat
 - Distribution mapping of medicinal plants in Shoolpaneshwar wildlife sanctuary
 - Diversity assessment of culturable and unculturable microorganisms from various ecological niches and their bioprospecting
 - Phytochemistry and allied areas
 - Screening and characterization of Indian plants for their an timicrobial properties

B) Sophisticated Equipment and Experimental Facilities



High Performance Liquid Chromatography (HPLC)

Shimadzu LC20AD

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High Performance Liquid Chromatography (HPLC)

Agilent1100 Series



- High Performance Thin Layer Chromatography (HPTLC)
- CAMAG, LINOMAT 5, Scanner-3 Sample application and TLC scanning in UV and visible range





UV Visible Spectrophotometer

Shimadzu UV 1800 Range 200-800 N Single, Multiple Wavelengths Scanning Transmission & ATR Modes

Ion Chromatography System

METROHM IC 940

Anion & Cation Analysis with Conductivity & Amperometric Detectors







Flash Purification System BIOTAGE ISOLERA 1, PDA DETECTOR

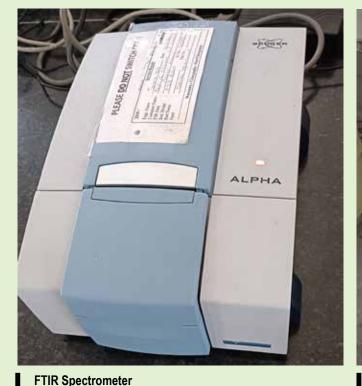
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Gel Documentation System Biorad Chemi Doc Xrs+ Gel imaging in UV and Visible range



Refrigerated Centrifuges Eppendorf 5430R ,SIGMA 3K30, 30K-RPM, 4°C TEMP





FTIR Spectrometer Bruker Aphpa 2-Transmission and ATR Modes of Measurements

Ultrapure Water Purification System ELGA PURELAB classic

C) Profile of faculty members and their expertise

Dr Ujjval Trivedi

M. Sc., Ph. D. (Microbiology) Professor https://spuvvn.irins.org/profile/40786

Dr Haresh Keharia M. Sc., Ph. D. (Microbiology) Professor https://spuvvn.irins.org/profile/169776

Dr Kamlesh C. Patel

M. Sc., Ph. D. (Microbiology) Professor

Dr Vasudev Thakkar

M. Sc., Ph. D. (Microbiology) Professor https://spuvvn.irins.org/profile/40790

Dr Hetal Panchal

M. Sc., Ph. D. (Biochemistry) Professor https://spuvvn.irins.org/profile/204703

Dr Akshaya Gupte

M.Sc. Ph.D. (Microbiology) Associate Professor https://spuvvn.irins.org/profile/28606

Dr M. Nataraj

M. Sc., Ph. D. (Botany) Assistant Professor https://spuvvn.irins.org/profile/265583

Dr Kalpesh Ishnava

M.Sc. Ph.D. (Botany) Associate Professor https://spuvvn.irins.org/profile/291589

Ms. Poonam Bhagriya M.Sc., (Zoology) Assistant Professor

Mr. Dinesh Vasava

M.Sc., (Biochemistry) B.Ed. Assistant Professor https://spuvvn.irins.org/profile/265585



Department of Chemistry

A) Specific Areas of Research Activities

- » Organic synthesis especially synthesis of bioactive heterocyclic, thermochromic and photochromic compounds
- » Microwave synthesis
- » Polymer Chemistry
- » Coordination & Bio-inorganic Chemistry
- » Organometallic Chemistry
- » Colloid and surfactant Chemistry
- » Nanomaterials
- » Smart materials
- » Sensors
- » Hydrogels and Drug release systems

- » Domino Chemistry
- » Supramolecular Chemistry
- » Ionic liquids
- » Material Chemistry
- » Dye Sensitized Solar Cell
- » Energy Storage & Generation Devices
- » Electrochemistry
- » Catalysis
- » Green Chemistry
- » Metal Extraction Chemistry



B) Sophisticated Equipment and Experimental Facilities



SAXS & WAXS SAXSpace system Anton Paar Generator with X-ray tube, Vacuum equipment, 2D HPC Detector, GISAXS Stage



NMR Spectrometer 400 MHZ Bruker Avance-1, 1H and 13C with multi element Probe



Size-exclusion High Performance Liquid Chromatography Prominence SHIMADZU



IR Spectrometer MB3000 ABB 500 to 4000 cm⁻¹



UV-Visible Spectrometer SHIMADZU, Double Beam, (200 to 800 nm Wavelength) absorbance 0 - 4.



Elemental Analyser (CHNS) EURO-EA-3000, EURO-vector, Temp. upto 1100°C



Solartron Electrochemical workstation SI-1260, SI-1296 and SI-1287 Solartron, UK, 1Hz to 1.2 MHZ frequency sweep, Electrochemical workstation with Electrical study



Fluromax-4 Spectrophotometer FLUROMAX 4CP-TCSPC, Horiba Jobin Vyra Edison, USA, Excitation and emission analysis 250-800 nm



Microwave Reactor U wave -1000 SINEO Microwave source – 2000 MHZ, 0-1000W, IR sensor range – 0 to 800°C and temperature sensor arrange – 0 to 250°C



Atomic Force Microscope (AFM) C-3000 Nanosurf, Switzerland Max scan range -5nm, Sample size *100mm on sample stage Scan Head 100µm and 10µm



Thermogravimetric Analyzer (TGA) STA-7200 HITACHI, Ambient to 1500 °C, 0 to 100 °C/min) (0.1 to 25°C/min)

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Flash Chromatography Biotag select



Density and sound velocity meter DSA 5000M Anton Paar Density -0 to 3 g/cm³ sound velocity -1000 m/s to 2000 m/s



Differential Scanning Calorimeter (DSC) DSC-7000X HITACHI -80 to 500 °C with 0.01 to 100°C/min scan





Brookfield USA

Viscosity in CPS and SS. (Up to 106)

Universal Testing Machine LLOYD Up to 3 MT

C) Profile of faculty members and their expertise

Dr D. K. Raval

M.Sc., Ph.D. (Chemistry) Professor https://spuvvn.irins.org/profile/42036

Dr Mohanbhai N. Patel

M.Sc., Ph.D. (Chemistry) Professor https://spuvvn.irins.org/profile/42065

Dr Manishkumar P. Patel

M. Sc., Ph D. (Chemistry) Professor https://spuvvn.irins.org/profile/265602

Dr Narsidas Jeramdas Parmar

M.Sc. (Org.Chem.), Ph.D. (Chemistry) Professor https://spuvvn.irins.org/profile/40802

Dr Hitendra M. Patel

M.Sc., Ph.D. (Chemistry) Professor https://spuvvn.irins.org/ profile/218952

Dr Saurabh S. Soni

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Dr Pragneshkumar N Dave M.Sc., Ph.D. (Chemistry) Professor https://spuvvn.irins.org/profile/265603

Dr Manish Kumar Mishra M.Sc., Ph.D. (Chemistry) Associate Professor https://spuvvn.irins.org/profile/265599 Dr Keshav Lalit Ameta M.Sc., Ph.D. (Chemistry) Associate Professor

https://spuvvn.irins.org/profile/206892

Dr Hitesh Kumar Manubhai Parekh

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Dr Jignesh Harikrishna Trivedi

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Dr Navinbhai Punambhai Chikhaliya

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Dr Bhupesh Bhatt

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Dr Komal M. Vyas

M.Sc., Ph.D. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/265595

Dr Kesur Rajade Ram

M.Sc., Ph.D. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/265596

Dr Pinkeshkumar G. Sutariya

M.Sc., Ph.D. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/271023

D) Industries availing analytical services

- » Anton Paar India Pvt. Ltd., Gurgaon, Haryana
- » Magnus Industrial Corporation, GIDC Estate, Vitthal Udyognagar
- » Jubiliant Agri and Consumer Products Ltd., Savli, Vadodara
- » Shree Radha Soami Traders, GIDC, Vitthal Udyognagar
- » Laksh Finechem Pvt. Ltd., GIDC, Vitthal Udyognagar
- » GMM PFAUDLER Ltd., GIDC, Karamsad
- » Colour Flex Laminators Limited, Sola, Ahemdabad
- » Elecone Engineering Company Ltd., Vallabh Vidyanagar
- » EIMCO ELECON(IND) Ltd., Vallabh Vidyanagar
- » Gujarat Industrial Research and Development Agency (GIRDA), Vadodara
- » CIPET, Ahmedabad
- » Camphor and Allied Products Ltd., Vadodara
- » Nikikem Industries. V.U. Nagar
- » Om Irritech Ltd., Rajkot
- » SVNIT, Surat
- » Navin Fluorine Int. Ltd., Surat
- » Cadila Healthcare Ltd., Ahmedabad

Dr Sharadkumar Karad

M.Sc., Ph.D. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/283519

Dr Priyaka Yadav

M.Sc., Ph.D. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/283659

Ms. Shailykumari K. Patel

M.Sc. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/283578

Dr Tushar Ravjibhai Sutariya

M.Sc., Ph.D. (Chemistry) Assistant Professor https://spuvvn.irins.org/profile/283531

- » Navin Fluorine Int. Ltd., Dewas (M.P.), India
- » Chembond Chemicals Ltd., Dudhavad, Padra
- » Maghmani Organic Ltd., Ahmedabad
- » Om Irritech Ltd., Rajkot
- » Arrowplast Ltd., Vadodara
- » Dip Enterprise, GIDC, Karamsad, Gujarat
- » KEMROCK Industries & Experts Ltd., Waghodia, Vadodara
- » Anik Silver Shine, Soni Bazar, Rajkot
- » ZCL Chemicals Ltd., G.I.D.C., Ankleshwar
- » IDMC Ltd, GIDC Estate, Vithal Udyognagar
- » Mini Sarvodyog Sira, Vithal Udyognagar
- » Chemical Examiner Gr I,Central Excise & Customs Laboratory, Vadodara
- » Asiatic Composite Ltd., Chandkheda, Ahmedabad
- » Gujarat Narmada Valley, Fertilizers & Chemicals Limited, Bharuch
- » Camphor and Allied Products Ltd., GIDC, Nandesari
- » Silikem Industries, GIDC, Vitthal Udyognagar



Department of Home Science

A) Specific Areas of Research Activities

- » Oxidative stress and inflammation in diseases
- » Nutraceuticals –antioxidant, anti-inflammatory and antidiabetic activity of plant foods, probiotics
- » Community nutrition Dietary intervention for specific health claims (anemia, diabetes, cardiovascular disease, osteoporosis), obesity, undernutrition in preschool children, breastfeeding practices
- » Bio-processing (fermentation and germination)
- » Community development- Adolescent health and psychosocial adjustment, women, and health
- Natural dyes, textile finishes (antimicrobial, anti-soil, flame retardant etc.)

- » Traditional textiles, textile crafts, and contemporary wear
 - Garment design
- » Textile waste management
- » Ergonomics

»

- » Environment management, waste management
- » Hospitality management
- » Consumerism
- » Interior decoration
- » Entrepreneurship



B) Sophisticated Equipment and Experimental Facilities

ELISA multimode microplate reader and strip washer

Synergy H1, and 50TS Mediscec (I) Ltd, Mumbai

Automation Compatibility : BioSpa, BioStack, BenchCel

Environment Control : 4-Zone Incubation to 45 °C, 4-Zone Incubation to 70 °C, Condensation Control, CO2, O2 Control , Filter Detection Modes : Fluorescence Intensity, Fluorescence Polarization, BRET (ii) LuminescenceTime Resolved FluorescenceTR-FRET (iii)UV-Vis Absorbance

Imager/Reader Options : Reagent injectors, Instrument Control : Computer Software, Monochromator Detection Modes : UV-Vis Absorbance, Fluorescence Intensity (variable bandwidth), Shaking : Double-orbital LinearOrbital, Supported labware : 6 to 384-well platesTake3/ Take3 Trio





CO, incubator

CLM-170B-8-UV, cellmate, Esco Biotech, Singapore Interior Volume :170 L (6 ft3) Temperature Control Method Direct Heat and Air Jacket using Microcontroller PI Ambient Temperature Range : 18 to $34^{\circ}C$ (64 to $93^{\circ}F$) Temperature Range: Ambient +3 to $60^{\circ}C$ $CO_2 \rightarrow$ Range, % CO_2 : 0-20 $CO_2 \rightarrow$ Accuracy, % $CO_2 \pm 0.1^{\circ}C$ $CO_2 \rightarrow$ Sensor Infra(1R) Sensor, % $CO_2 \pm 0.1^{\circ}C$ Humidity Humidification Method :Humidity pan Humidity Range : RH Up to 95%

Blood cell counter

Sysmex, Japan

Analysis parameters: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW-SD,

Whole Blood : RDW-CV, MPV, NEUT#, LYMPH#, MONO#, EO#, BASO#, IG#,

NEUT%, LYMPH%, MONO%, EO%, BASO%, IG% RET (optional license available) : RET#; RET%, IRF; RET-He Body Fluids: XN-BF: Sample Types: CSF, Synovial, Serous WBC-BF, RBC-BF, MN#, PMN#, MN%, PMN%, TC-BF# Measurement principles : WBC DIFF/RET: Fluorescent Flow Cytometry, RBC/PLT: DC Impedance method with hydrodynamic focusing, HGB: Cyanide-free SLS method Throughput : Up to 60 samples/hour in whole blood (WB) mode Aspiration volume: 25 µL in whole blood (WB) mode,70µL in pre-dilute (PD) and body fluid (BF) mode Data storage capacities: 100,000 samples



Gel Document System

EC3 410 Chemi System Gel Document System Sys Compa 9 CQ 34551X

The EC3 systems are designed for chemiluminscence, fluorescence, and colorimetric imaging. Systems can be used with fluorescent and colorimetric gels; colony plaques; microtiter plates; autoradiograph film; Northern, Southern, Western, and dot blots; 1D analysis; colony counting; densitometry; membrane arrays; and live plant studies. Three types of 115V, 8W single intensity UV transilluminators are available, each with a built-in ethidium bromide emission filter. The FirstLight* FI-26X model offers a 302nm wavelength and a 25x26cm (97/8x101/4") filter. The LM-26 model offers 302 and 365nm wavelengths, and a 21x26cm (81/4x101/4") filter. The LMS-26 model offers 254, 302, and 365 wavelengths, and a 21x26cm (81/4x101/4") filter. Five scientific-grade, high resolution cameras are available with the EC3 systems.



RT PCR

High throughput Light Cycler 480 II Wells : 96-well, 384-well, Application : Gene detection / Gene expression analysis / And genetic variation analysis, Volume: 96-well PCR plate: 10 - 100 µl and 384-well PCR plate: 5 - 20 µl, Time : < 40 minutes (384-well PCR plate), Excitation Source: Broad-spectrum, high-intensity LED (390 – 710 nm) , Excitation Wavelength: 420 nm - 670 nm, Detection: Six detection filters; Cooled CCD camera



Spectrofluorometer

HITACHI F-7000

Sensitivity (Raman light of water): Noise Background S/N 15,000 or above*1 Noise Peak 800 or above*2

Minimum sample volume: 0.6 mL (in use of standard 10 mm rectangular cell)

Photometric principle :Monochromatic light monitoring ratio calculation Light source: 150 W xenon lamp, self-deozonating lamp house Measuring wavelength range: (on both EX and EM) 200 to 750 nm, and zero-order light

(Expandable up to 900 nm with optional detector)

Wavelength scan :speed 30, 60, 240, 1,200, 2,400, 12,000, 30,000, 60,000 nm/min





Auto analyzer

Cobas Integra 400 Plus

System: Random and continuous access, sample selective analyser. Integration of 4 measuring principles 36 tests onboard Absorbance photometry: Enzymes and substrates, Turbidimetry: Specific proteins, drugs of abuse, Fluorescence polarimetry: Therapeutic drugs, thyroid tests, Ion-selective electrode potentiometry: Na+,K+,CI– and Li+, Test throughput: Up to 400 tests/hr (including ISE), Sample types: Serum, plasma, urine, CSF, hemolysate and whole blood (HbA1c), Sample handling: 90 primary or secondary tubes onboard, p to 6 x RD15 racks on-board, Cooled rack position for controls and calibrators, Automatic sample dilution and concentration Barcode reading via laser scanner, with immediate STAT recognition, Reaction cells: Holds 1,000 disposable cuvettes with 5 mm path length, and 120-240 µL reaction volume



Colour Analyzer

Colour Flex EZ 45°/0° (Hunter L*a*b*) Easy Match QC Software

Measurement Principle: Port up or Port forward dual-beam spectrophotometer, Geometry: Directional annular 45° illumination / 0° viewing, Spectrophotometer: Sealed optics; 256-element diode array and a high resolution concave holographic grating, Spectral Range: 400 nm - 700 nm Spectral Resolution: < 3 nm, Effective Bandwidth: 10 nm equivalent triangular, Reporting Interval: 10 nm, Photometric Range: 0 to 150 %, Light Source: Pulsed Xenon Lamp, Flashes per Measurement: 1 flash, Measurement Time: < 1 second from button push to measurement 2 seconds from button push to data display, Minimum Interval Between Measurements: 3 seconds Standards Conformance: CIE 15:2004, ISO 7724/1, ASTM E1164, DIN 5033, Teil 7 and JIS Z 8722 Condition C

Texture analyzer

CT3-50 kg, Brookfield, USA, Load Range/Resolution*: 2-50000g/5.0g Speed: Range 0.01-0.1mm/s(increments 0.01mm/s) and 0.1-10mm/s (increments 0.1mm/s), Accuracy $\pm 0.1\%$ of the set speed, Position: Range 0-101.6mm, Resolution 0.1mm* and Accuracy 0.1mm





Polarimeter

Auto Pol- I, Rudolph, Germany, Measures Optical Rotation, Specific Rotation, Concentration, as well as °Z (ISS) Sugar Degrees. **Resolution:** 0.01° Arc Optical Rotation. **Accuracy:** 0.02° Arc Optical Rotation as well as 0.03°Z (ISS) Sugar Degrees. Designed as a single wavelength instrument for Food and certain Pharmaceutical applications. It is also used for less demanding applications where budget is critical, but quality is still important.

Viscometer

LVDV- II + Pro/RVDV- II + Pro, Brookfield, USA, **Speeds:** Standalone: Interleaved: LV/RV (18 speeds), **Sequential:** LV/RV (18 speeds), Custom: 54 speeds, user selectable External (PC Control) .01 - 200 rpm, 0.01 rpm increments from 0.01 to 0.99 rpm 0.1 rpm increments from 1.0 to 200 rpm Temperature Sensing Range: -100°C to 300°C (-148°F to 572°F), Viscosity Accuracy: ±1.0% of full scale range, Viscosity Repeatability: ±0.2% Temperature Accuracy: ±1°C | -100°C to +149°C, ±2°C | +150°C to +300°C, Operating Environment: 0°C to 40°C temperature range (32°F to 104°F) 20% - 80%R.H.: noncondensing atmosphere





Soniccator

VC-750, Sonics, Power Output: 750 watt maximum, **Frequency:** 20kHz, **Dimensions**: H x W x D: 9.25 x 7.5 x 13.5" (235 x 190 x 340mm), Converter Cable: Part #201-0300, Length: 6 ft. (1.8m), **Ultrasonic Converter:** Part #CV334, **Diameter:** 2.5" (64mm), Length: 7.25" (183mm), **Tool Kit:** Part #381-0005, **Includes**: 2 spanner wrenches and 1 open-end wrench, **Standard Probe:** Part #630-0220, **Tip Diameter:** 0.5" (13mm) with replaceable tip, **Length**: 5.5" (139mm), **Material**:Ti6Al4V titanium alloy



Protein Analyzer

Kelplus- KEL VAC, Kelplus-KES 06L E and Kelplus- SUPRA LX VA Pelican Kelplus, KEL VAC- Four Stage Semi Automatic Acid Neutralizer Scrubber (Regular Version), **KES 06 LE**: v Automatic block digestion with built in exhaust fume manifold system v Automatic Microprocessor based temperature controller, **Automatic distillation system**: **APPLICATIONS:** For digestion of plant samples, Microprocessor based temperature controller (Ambient to 450°C), Digital display of temperature and time, Casted Aluminium Alloy Heaters for uniform heating and even digestion, Auto fix exhaust manifold system for absolute fume trapping, KEL FLOW suction assembly for pollution free analysis , Feather touch membrane keys with built-in safety features

Soxhlet apparatus

SCS- 3, Pelican Kelplus

SOCS PLUS Three Place Fully Automatic Solvent Extraction System with auto time temperature integrated programming facility and auto phase change over with PC compatibility feature.

There is time & tamp gradient, Casted Aluminium Alloy Heater, 65-80 % Solvent recovery.



C) Profile of faculty members and their expertise

Dr Vinayak H. Patel

M.Sc. Ph. D Professor https://spuvvn.irins.org/profile/265654

Dr Namrita Kola

M.Sc. Ph. D Professor https://spuvvn.irins.org/profile/265652

Dr Neeta R. Dave

M.Sc. Ph. D Associate Professor https://spuvvn.irins.org/profile/265652

Dr Viraj Roghelia

M.Sc. Ph. D Assistant Professor https://spuvvn.irins.org/profile/265651

Dr Komal Patel

M.Sc. Ph. D Assistant Professor https://spuvvn.irins.org/profile/269286



Department of Physics

A) Specific Areas of Research Activities

- » Crystal Growth, Characterization and Device Fabrication
- » Nanomaterials and their applications
- » Crystallographic study of Biomolecules
- » Computer simulation study of materials using classical molecular dynamics & DFT methods
- » Optical physics, Biomedical optics, 3D Microscopy, Optical Instrumentation
- » Microwave Dielectrics
- » Theoretical High Energy Physics



B) Sophisticated Equipment and Experimental Facilities



Hall Effect Measurement System

Lakeshore 7504 Sample geometry: van der pauw Number of contacts: 4 Sample volt. & current: V max 8V, I max 100mA, I min – 500fA Resistance range: 100 μ Ω to 100G Ω Magnet power supply: Four quadrant 2kW Minimum Temperature of Measurement: 10K



High Vaccum Coating Unit

Hindhivac

Achievable vacuum level: 1X10⁻³ mbar (liquid nitrogen trap) Thin film deposition techniques: Thermal evaporation



Particle Size Analyzer

Carl Zeiss Malvern Instruments Limited, **Red Laser (He-Ne):** 10mW, **Wavelength**: 632.8 nm **Detector**: Avalanche **Photodiode Range**: 0.3 nm to 5 µm



Thermal Analyzer System

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SII Nano Technology Inc., **Temperature Range**: RT to 1100°C **Rate of Heating:** 0.1°C to 50°C/Min., **Sample Type:** Solid Sample (min.5 mg and max. 20 mg)



Micro Raman Spectrometer

Horiba, **Two Laser sources**: 532 nm and 785 nm, **Gratings**: 1200,1800,2400 cm⁻¹, **Intensity:** 0.1 to 100 %



Trinocular Upright Metallurgical Microscope Carl Zeiss, Light Source: Halogen lamp Lenses: 5X, 10X, 20X, 50X



X-Ray Powder Diffractometer

Rigaku Ultima IV

C) Profile of faculty members and their expertise

Dr V. M. Pathak

M.Sc, Ph.D. (Physics) Professor https://spuvvn.irins.org/profile/40819

Dr M.P. Deshpande

M.Sc, Ph.D. (Physics) Professor https://spuvvn.irins.org/profile/40821

Dr K. D. Patel

M.Sc, Ph.D. (Physics) Professor https://spuvvn.irins.org/profile/265675

Dr Brijmohan Thakore

M.Sc, Ph.D. (Physics) Professor https://spuvvn.irins.org/profile/40822

Dr Gunvant Kantilal Solanki

M.Sc., Ph.D. (Physics) Professor https://spuvvn.irins.org/profile/40824

Dr Sunil Chaki

M.Sc, Ph.D. (Physics) Professor https://spuvvn.irins.org/profile/265674

Dr Kirit N. Lad

M. Sc., Ph. D. (Applied Physics) Professor https://spuvvn.irins.org/profile/172651

D) Industries availing analytical services

- » Supernova Tech. Pvt. Ltd, GIDC, Vithal Udyognagar
- » Deepak Nitrides, Vadodara
- » The M. S. University, Baroda, Vadodara
- » V.P and R.P.T.P Science College, Vallabh Vidyanagar
- » Smt. S. M. Panchal College, Talod
- » Department of Physics, Jiwaji University, Gwalior

Dr Arun Anand

M. Sc. Ph. D. (Applied Physics) Professor https://spuvvn.irins.org/profile/318180

Dr Jignesh N. Pandya

M. Sc., Ph. D. (Physics) Professor https://spuvvn.irins.org/profile/318035

Dr Ashvin N Prajapati

M. Sc., Ph. D. (Physics) Associate Professor https://spuvvn.irins.org/profile/318283

Dr Swati Pandya

M.Sc, Ph.D. (Physics) Assistant Professor https://spuvvn.irins.org/profile/286322

Mr. Bhavin H. Brahmbhatt M.Sc. (Physics)

EM Operator

Mr. Rajeshkumar J. Rajpara B.Tech (EC) Technical Assistant (EC)

Dr Jayesh R Gandhi M.Sc, Ph.D. (Physics) Technician



Department of Mathematics

A) Specific Areas of Research Activities

- » Analysis
- » Banach and Topological Algebras
- » Function Algebras and Function Spaces; Harmonic Analysis
- » Operator Algebras
- » Operator Theory

B) Profile of faculty members and their expertise

Dr A H Hasmani

Ph.D. (Mathematics) Professor https://spuvvn.irins.org/profile/46035

Dr H V Dedania

Ph.D. (Mathematics) Professor https://spuvvn.irins.org/profile/40810

Dr J C Prajapati

Ph.D. (Mathematics) Professor https://spuvvn.irins.org/profile/270182

Dr Himali S. Mehta

Ph.D. (Mathematics) Associate Professor https://spuvvn.irins.org/profile/22796

Dr Sanjay Jivrajbhai Ghevariya

Ph.D. (Mathematics) Assistant Professor https://spuvvn.irins.org/profile/265670

Dr Jay Gopalbhai Mehta

Ph.D. (Mathematics) Assistant Professor https://spuvvn.irins.org/profile/265669

- » Mathematical Analysis: Financial Mathematics
- » Relativity Theory
- » Differential Equations
- » Graph Theory
- » Mathematical Modeling

Mr. Kamlesh Ratilal Baleviya

Ph.D., Pursuing Assistant Professor https://spuvvn.irins.org/profile/265668

Dr Meera H Chudasama

Ph.D. (Mathematics) Assistant Professor https://spuvvn.irins.org/profile/156281

Dr Nagjibhai S. Rabari

Ph.D. (Mathematics) Assistant Professor https://spuvvn.irins.org/profile/280161

Dr Prashantkumar Patel

Ph.D. (Mathematics) Assistant Professor https://spuvvn.irins.org/profile/219301

Dr Ravikumar R Panchal

Ph.D. (Mathematics) Assistant Professor https://spuvvn.irins.org/profile/269289



Department of Electronics

A) Specific Areas of Research Activities

- » Thin Films (Bulk & Nano Particles)
- » Thin Film Electronic Devices
- » Optoelectronics
- » Bulk Crystal Growth and Characterization
- » Analog and Digital Circuit Design
- » Embedded system Design
- » VLSI Circuit Design and Simulation
- » Computer Hardware and Networking
- » Wi-Fi Networking Technology

- » Gas Sensors and Bio sensors
- » Microcontroller/ IoT based Design, Development and control Instrumentation
- » Chemical Vapour Sensors and e-Nose
- » Pollution Monitoring and Control
- » Higher Order Filter Designing
- » Cognitive Analysis of the Stakeholders
- » PLC Based Industrial Control

B) Sophisticated Equipment and Experimental Facilities



Vacuum Coating Unit Make: Hind Hivac Vacuum range: 10⁻² to 10⁻⁶ torr



DC Sputtering System Make: Mansha Vacuum Equipment 50VDC to 2000VDC



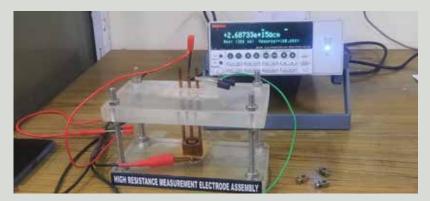
High Temperature Rotary Tube Furnace Make: Naskar & Co, Hawrah Temperature range: 30°C to 1500°C



Pulse Laser Deposition System (PLD)Compex Pro-102F, Coherent GmbH, GermanyTurbo Molecular Pump for PLDMake: Pfeiffer Vacuum GmbH, GermanyHigh Vaccum chamber for PLDHigh Vacuum Chamber for PLDHiPace 700 DN-160CFF, Excel Instrument,MumbaiOutput Wavelength (nm):193 Max., PulseFrequency: 20 (Hz)Max., Pulse Energy: 400 (mJ)



High Temperature Tube Furnace Make: Naskar & Co, Hawrah, Temperature range: 30°C to 1400°C



Electro Meter/ High Resistance Meter Keithley 6517B DC voltage measurements: 1 μ V to 200 V DC current measurements: 10 μ A to 20 mA Resistance measurements: 1 Ω to 10¹⁶ Ω



Nano-volt Meter Make: Keithley 2182A, 15nV p-p noise at 1s Response time 40–50nV, p-p noise at 60ms, Current source at up to 24Hz with 30nV p-p noise



Source Meter Keithley 2602A Dynamic range: 1fA to 10A and 1µV to 200V Timer accuracy: ±2µs



Double beam UV-Visible Spectrophotometer Systronics 2203, Wavelength: 200nm to 1100 nm, Bandwidth: 2.0 nm

C) Profile of faculty members and their expertise

Dr (Mrs.) Shahera S.Patel

M.Sc., Ph.D. (Electronics) Professor https://spuvvn.irins.org/profile/265637

Dr (Miss) Vibha S. Vaishnav

M.Sc., Ph.D. (Electronics) Associate Professor https://spuvvn.irins.org/profile/265636

D) Industries availing analytical services

- » TWIN Engineering, Vadodara
- » ADIT Engg. College, Vallabh Vidyanagar

Mr. Divyang B.Dave

M.Sc. (Electronics) Associate Professor https://spuvvn.irins.org/profile/265634

Mr. Paresh B.Patel

M.Sc. (Electronics) Associate Professor https://spuvvn.irins.org/profile/265635

» GCET Engg. College, Vallabh Vidyanagar



Department of Materials Science

A) Specific Areas of Research Activities

- » Flame retardant polymers for water borne coatings
- » Oxidative resistant coating using PECVD technique
- » Biomass derived porous carbon for waste water treatment
- » Materials for the prevention of environment
- » Development of Carbon Nanomaterials, Nanoclays, Porous materials
- » Nanomaterials reinforced Composites for Biomedical applications
- » Graphene and Nanoceramics as Heterogeneous catalytic materials
- » Carbon/carbon composites for advanced engineering applications



B) Sophisticated Equipment and Experimental Facilities



Scanning Electron Microscope

Hitachi S-3000N Magnification: Up to x3,00,000 Resolution: 3 nm Sample nature: Ceramic and metallic



Differential Scanning Calorimeter

Mettler Toledo DSC822e Temperature range: 30°C to 500°C Heating rate: 1°C/min to 20°C/min Sample amount: 2-20 mg



Thermo-mechanical Analyzer (TMA)

Model: Mettler Toledo TMA/SDTA840 Temperature range: 30°C to 800°C Heating rate: 1°C/min to 20°C/min Sample amount: 2*2*2 mm Sample Type: Ceramic and metallic

L



BET surface Area Analyzer

Micromeritics ASAP 2020 Sample amount: 20-50 mg Sample nature: Solid samples



Raman Spectrometer

Renishaw InVia-H43299 Workable Lasers: 514 nm (Argon laser, 20mW Beam Power) 785nm (Diode laser ,300mW Beam Power) Sample amount: 20-50 mg Sample nature: Solid



Tribometer

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CSM 01-003394 Load: 1N, 2N, 5N, 10N, 20N Sample size: Round sample (20 mm to 50 mm in diameter) Sample Type: Solid Sample

Particle Size Analyzer

Microtrac Zetatrac 2 lasers: 780 nm Sample Type: 1mg solid sample dispersed in 10 ml solvent Particle size range: 0.8 nm to 6.5 um





UV-Visible Spectrophotometer

Shimazdu UV-1601 Wavelength: 200 nm to 1100 nm Spectra Band Width: 2 nm Sample Type : Liquid sample



Polarized Optical Microscope

Leitz Leborlux 12 POLS Sample Type: Solid sample embedded in epoxy resin with highly polished surface Lenses: 20X, 50X, 100X



Fourier Transform Infrared (FTIR) spectroscopy

Model: Bruker Alpha Wavelength: 400 cm-1 to 4000 cm-1 Sample Type: Solid sample (5 mg), liquid sample (pH between 5 to 8)

C) Profile of faculty members and their expertise

Dr (Miss) R. H. Patel,

M.Sc., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265666

D) Industries availing analytical services

- » Sud-Chemie India Pvt. Ltd., Nandesari, Vadodara
- » Kana Advanced Composite, Por Baroda

Dr Jignesh Valand

M.Sc., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265664

- » Global Innovative Excellence, Baroda
- » HSV Aditya Glass Line Private Limited, Vallabh Vidyanagar



Department of Statistics

A) Specific Areas of Research Activities

- » Design of Experiments
- » Statistical Inference
- » Survey Sampling
- » Statistical Quality Control Techniques
- » Biostatistics, Pharmaceutical Statistics
- » Statistical Computing

- » Statistical Modelling
- » Response Surface Methodology
- » Operations Research
- » ISO standard documentation
- » Lean Six Sigma Methodology

B) Sophisticated Equipment/Software and Experimental Facilities

- » SPSS
- » R
- » STATA

- » Minitab
- » Matlab
- » Design Expert



C) Industries availing analytical services

- A) 3 Week Certification Course on "Lean Six Sigma Green Belt" (See Appendix)
- B) QPM Course Internship Projects at (last two years)
- » Power Build Pvt. Ltd., Elecon Group of Industries, Vallabh Vidyanagar
- » Vidya Wires Pvt. Ltd., Vitthal Udyognagar
- » Rhino Machines Pvt. Ltd., Vitthal Udyognagar
- » Tripcorn Pvt. Ltd., Vitthal Udyognagar
- » Atlanta Electricals Pvt. Ltd., New Vallabh Vidyanagar, GIDC, Anand, Gujarat 388345
- » Maksim Alloys. Vithal udhyognagar, GIDC, Anand

D) Profile of faculty members and their expertise

Dr J.M.Divecha

Ph.D. Professor https://spuvvn.irins.org/ profile/209243

Dr D.P.Raykundaliya

Ph.D. Assistant Professor (SS) https://spuvvn.irins.org/ profile/265691

Dr Khimya S. Tinani

Ph.D. Assistant Professor https://spuvvn.irins.org/profile/291109

Dr Rupal C. Rabari Ph.D.

Assistant Professor (Ad hoc)

» Freudenberg Gala Household Product Pvt. Ltd., Mogar

- » SUN PHARMA, Vadodara 9. Stat Modeller, Vadodara
- » Precision Plastic Pvt. Ltd., Halol
- » Amneal Pharmaceutical Pvt Ltd, Pharmez (Special Economic Zone - SEZ, Highway, Matoda, Sarkhej-Bavla Rd, Sanand, Gujarat 382213
- » Sahajanand Medical Technologies Ltd., Surat

Mr. Agniva Das

Ph.D (Pursuing) Assistant Professor (Ad hoc)

Mr. Tanaji V. Mane

Ph.D. (Pursuing) Assistant Professor (Ad hoc)



Department of Computer Science and Technology

A) Specific Areas of Research Activities

- » Computer Networks
- » Simulation and Modeling
- » IT enable Services
- » Distributed Systems
- » Computer Graphics
- » Image Processing

B) Profile of faculty members and their expertise

Dr D. B. Shah

Ph.D. Professor& Director https://spuvvn.irins.org/ profile/40807

Dr D. B. Choksi

Ph.D. Professor https://spuvvn.irins.org/profile/32579

Dr P. V. Virparia

Ph.D. Professor https://spuvvn.irins.org/ profile/265607

» Multimedia

Dr P. S. Sajja

Dr S. A. Jain

Ph.D.

Mr. B. B. Patel

Dr P. P. Pittalia

Ph.D.

Professor

profile/281493

https://spuvvn.irins.org/

Associate Professor

Associate Professor

profile/265605

https://spuvvn.irins.org/

Ph.D.

Professor

- » Database Management Systems
- » Operating Systems
- » Artificial Intelligence
- » Systems Analysis and Design

https://spuvvn.irins.org/profile/43431

https://spuvvn.irins.org/profile/270258

» Software Engineering

- » Object Oriented Technology
- » Web Applications
- » Compiler Design
- » Search Engine Optimization
- » Analysis of Computer Algorithms
- » Business Information System

Dr V. L. Desai

Ph.D. Associate Professor https://spuvvn.irins.org/profile/291052

Dr J. V. Smart

Ph.D. Assistant Professor https://spuvvn.irins.org/ profile/290449

Dr R. D. Gaharwar

Ph.D. Lecturer https://spuvvn.irins.org/profile/265606

Ms K. D. Kalvani Teaching Assistant

44



Department of Pharmaceutical Sciences

A) Specific Areas of Research Activities

- » Analytical Method development,
- » Herbal Standardization

- » NDDS
- » Formulation development

B) Sophisticated Equipment and Experimental Facilities



UV-Visible Spectrophotometer UV-1800, Shimadzu Corporation Wavelength Range: 200 - 800 nm Spectral bandwidth: 1 nm Photometric range: Absorbance (-4 to 4 Abs); Transmittance (0% to 400%)



High Performance Liquid Chromatography (HPLC) System
1260 Infinity, Agilent Technologies
C-8, C-8 column, Quarternary Mobile Phase composition,
Manual Injector and PDA detector



High Performance Thin-Layer Chromatography (HPTLC) System

CAMAG (Linomat 5, Scanner 4)

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Semiautomatic Sample Application with Scanner, Plate Heater and Development Chamber for Quantitative Analysis



FTIR Spectroscopy System IR Affinity, Shimadzu 4000 cm⁻¹ to 400cm⁻¹, Diffuse Reflectance Sampling Accessories



Lyophilizer Benchtop Pro, VirTis **RBG Bottle 500** ml / 1000 ml



Spray Dryer Labultima

I



Dissolution Test Apparatus TDT-08, Electrolab



Probe Sonicator Vibracell, Sonics INC.



Diffusion Test Apparatus EDC-07, Electrolab

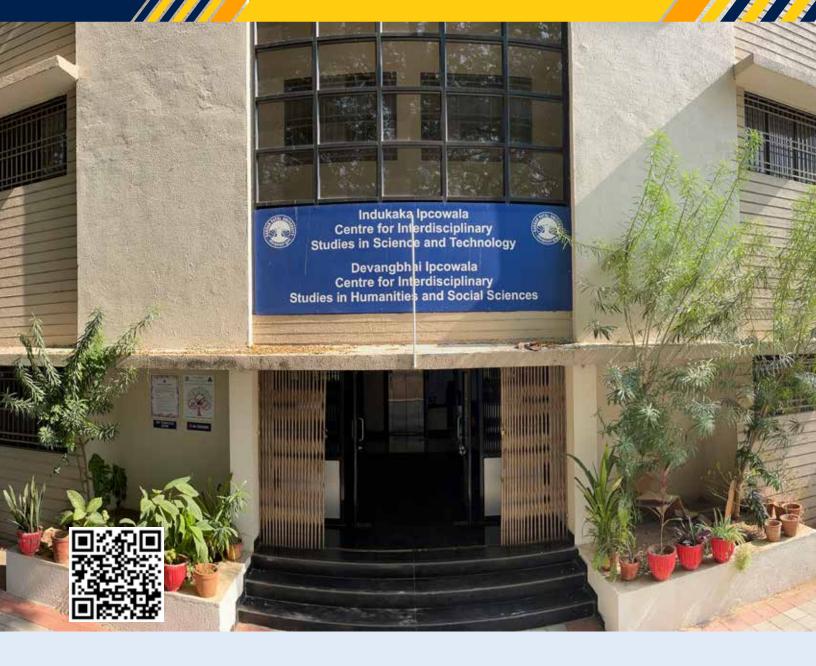
C) Profile of faculty members and their expertise

Dr Vijaykumar K. Parmar M.Pharm, Ph.D. Associate Professor https://spuvvn.irins.org/profile/208368

Dr (Mrs.) Bhavna A. Patel M.Pharm., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265673 Dr Shraddha J. Parmar M.Pharm, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265672

Dr Mihir Kishorchandra Raval

M.Pharm, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/288469



Department of Applied and Interdisciplinary Sciences

A) Specific Areas of Research Activities

- » Metagenome analysis of Cattle, Buffalo and Human milk.
- » Transcriptome analysis of fungi.
- » Biocontrol of plant and animal parasitic nematodes by using nematophagous fungi.
- » Cloning, Characterization and Functional screening of industrially important enzymes using metagenomics approach.
- » Phytochemical and pharmacological studies of plant extracts on microorganisms
- » Synthesis and characterization of nanomaterials such as graphene, metal & metal oxide-based nanoparticles.
- » Development of polymer-based nanocomposites, carbonceramic composites.
- » Development of Electro-ceramics and Bio-ceramic materials.

B) Sophisticated Equipment and Experimental Facilities



Triple Quardupole Liquid Chromatography Mass spectrometry (LC-MS/MS)

LCMS 8030, Shimadzu, Japan

Mass Range: 10 to 2000 m/z, Sensitivity: ESI positive: 1 pg Reserpine, S/N>200(RMS), Resolution: R< 0.7FWHM, Application flow rate: ESI 1ul/min to 2ml/min, Scan Speed: Ma 15,000 u/sec, Polarity switching time: 15msec, MRM transition speed: Max 500 channels/sec



Research Rotary and Oscillatory Rheometer

MCR 102 Modular Compact, Anton Paar, Graz. Austria Bearing design: Air, fine-pored carbon, Working modes: Combined Motor Transducer (CMT), Min. torque (rotation): 5 nN, Min. torque (oscillation): 5 [1] nNm, Max. torque: 200 mNm, Min. angular deflection (set value): 0.5 μ rad, Max. angular deflection (set value): $\infty \mu$ rad, Min. angular velocity: 0 rad/s, Max. speed: 314 -3000 rad/s Normal force range: -50 to 50 N



4200-SCS, Keithley, USA, C Current-Voltage (I-V) **Range:** 10 aA - 1A, 0.2 μ V - 210 V, apacitance-Voltage (C-V) **Range :** 1 kHz - 10 MHz ± 30V DC bias, ULSED I-V RANGE : ±40 V (80 V p-p), ±800 mA 200 MSa/sec



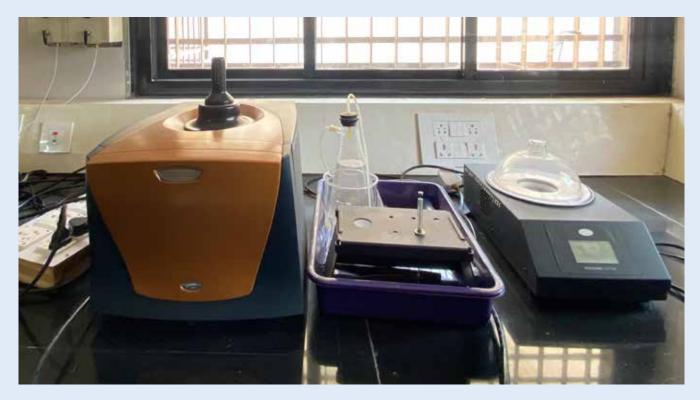




High Performance Particle Size Analyzer along with Zeta Potential

SZ100 Nanopartica, Horiba, Japan

Particle Size : Range: 0.3 nm - 8.0 μ m, **Accuracy:** +/- 2%, ISO 13321/22412 compliant. NIST traceable polystyrene latex particle **standard:** 100 nm **Meaurement time:** Approx. 2 minutes in general for particle size analysis, **Sampling cell:** Cuvette cell, Sampling volume: 12 μ L ~4 mL, **Zeta Potential Measurement: Range:** -200 mV - +200mV, **Measurement time:** ~ 2 minutes, **Sampling cell:** Disposable cell or dip cell, **Sampling volume:** ~100 μ L for disposable cell, **Temp control range:** 1-90° for particle size, 1-70° for zeta potential, **Laser:** DPSS 532 nm, 10 mW Class **Molecular weight:** Static light scattering Debye plot technique, **Measurement Range: Mw:** 1×103 - 2×107 g/mol



Isothermal Titration Calorimeter

Nano ITC Standard Volume System, Water TA

Temperature Range : -10 °C to 130 °C, Scan Rates : 0.001 °C to 2 °C/min, hort-term Noise : 0.015 µWatts, aseline Repeatability : 0.028 µWatts, ell Configurations : Fixed Capillary /Cylindrical, ell Materials : Platinum / Gold, esponse Time : 5 sec, ctive Cell Volume : 300 µL / 330 µL, equired Sample Volume : 500 µL / 450 µL, ressure Control Built-in : 0 to 6 atmospheres, Heat Measurement Type Power Compensation



RT-PCR

CFX Connect, BioRad, USA, **ax.** ramp rate : 5 °C/sec, Average ramp rate : 3.3 °C/sec, Heating and cooling method : Peltier Temperature Range, : 0 - 100 °C, Accuracy : \pm 0.2 °C of programmed target at 90°C, Uniformity : \pm 0.4 °C well-towell within 10 sec of arrival at 90°C, Gradient Operational range : 30 – 100 °C, Programmable span: 1–24 °C Scan Time All channels : 12 sec, AM/SYBR® Green only : 3 sec (Two channel system)



Inductive Coupled Plasma Optical Emission Spectroscopy (ICP-OES)

Optima 8000, Perkin Elmer, Singapore, **Operating Temperature:** 15 - 35°C (59 - 95°F), **Max. rate of change** : 2.8°C (5°F)per hour **Optimum Room Temperature :** $20^{\circ}C \pm 2^{\circ}C$, **Relative Humidity :** 20% to 80%, without condensation, **Optimum Relative Humidity :** 35% - 50% **Resolution :** 0.1mm, $\pm 4\%$



Simultaneous Thermal Analyzer (DTA-DSC-TGA System)

STA 8000, Perkin Elmer, Singapore, **Max.** Temperature: 1000 °C, **Min. Temperature :** 25 °C



Prominence Preparative cum Analytical HPLC System

Prominence, Shimadzu, Japan, **Solvent delivery method:** Parallel-type double, lunger, **Plunger capacity:** 10 μ L, ax. discharge pressure: 44 MPa **Flow rate setting range :** 0.0001 to 5.0000 mL/min (1.0 to 44 MPa), 5.0001 to 10.0000 mL/min (1.0 to 22 MPa), **Flow rate accuracy:** Not more than ±1% or ±2 μ L/min, whichever is greater (under specified conditions), **Flow rate precision:** Not more than 0.06% RSD or 0.02 min SD, whichever is greater **Operating temperature range:** 4 to 35 °C



Gas Chromatograph with Head Space Sampler

MASTER GC, DANI Instruments, Italy **COLUMN OVEN**: Operating **temperature**: 5°C above ambient to 500°C **Temperature resolution**: 0.1°C **Thermal accuracy**: ± 0.1°C, **Thermal stability**: ± 0.1°C, **Max Heating Ramp Rate**: 140°C/min, 0.1 °C/ min, Injectors available Packed (PK), Split/splitless (SL/IN, Detectors available FID flame ionization detector

Gel Permeation Chromatography

NEXERA GPC System, Shimadzu, Japan Measurement method: Single Flow, Mobile phase flow rate setting range : 0.1 to 1 mL/min, Mobile phase flow rate accuracy : Not more than 1% or 2 μ L/min, whichever is greater (0.1 to 1 mL/min), Sample injection volume setting range : 0.1 to 100 μ L (standard), Molecular weight calculations: Mn, Mw, Mz, Mz1, Mv, Mw/Mn, Mv/ Mn, Mz/Mw





Microplate Reader

SPECTRAMAX M2e, Molecular Devices **Read modes**: Absorbance, Fluorescence (top/ bottom read) **Wavelength ranges**: Abs: 200 - 1000 nm, FL Ex: 250 - 850 nm, **FL Em:** 360 - 850 nm (M2), **FL Em:** 250 - 850 nm (M2e) **Wavelength selection**: Monochromator tunable in 1-nm increments, **Absorbance photometric accuracy/linearity**: < ±1.0% and ±0.006 OD (0.0-2.0 OD), **Light source(s)**: Xenon flashlamp **Detector(s)**: Silicon photodiode, Photomutiplier tube **Read types (endpoint, kinetic, etc)**: Endpoint, Kinetic, Spectrum scan, Well scan, **Temperature control**: Ambient + 4°C to 45°C

Spectroflourophotometer

RF-6000, Shimadzu, Japan

Light source: 150 W Xenon lamp, Scanning Wavelength range: 200 to 900 nm and 0 order, Resolution : 1.0 nm or less (Emission), Sensitivity : The SN ratio of the Raman line of distilled water is 350 and more (P–P) 1,000 and more (RMS)





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Inverted Fluorescence Phase contrast Microscope

Axis observer, Carl-zeiss

Phase contrast microscopy and Fluorescence image taken **Filters available :** Normal filer for phase contrast microscopy, DAPI, FITC and TRITC, **Specimen visualized :** In slide, culture flask, pertriplate and 96 well plate

C) Profile of faculty members and their expertise

Dr Anju P. Kunjadiya

M.Sc, Ph.D (Biotechnology) Associate Professor https://spuvvn.irins.org/profile/265584

D) Industries availing analytical services

- » Department of Zoology, MSU, Vadodara
- » DDIT, Nadiad
- » Kidney Hospital, Nadiad
- » Rex Tone Industry Ltd.
- » SPRERI, Vallabh Vidyanagar
- » Department of Chemistry, MSU, Vadodara
- » Department of Pharmacy, Changa

Dr Rakesh V. Patel

M.Sc, Ph.D (Material Science) Assistant Professor https://spuvvn.irins.org/profile/265667

- » Department of Chemistry, VNSGU, Surat
- » Department of Bioscience, VNSGU, Surat
- » Anand Agricultural University, Anand
- » Department of Pharmaceutical Sciences, Saurashtra University, Rajkot
- » GCET, Vallabh Vdidyanagar



Department of Business Management

Business.

Public Policy

Finance

A) Specific Areas of Research Activities

- » Consumer Behaviour & Research activities
- » Research methodology
- » H.R.M
- » Marketing Management
- » Consumer Behavior
- B) Industries availing analytical services
 - Industries availing analytical services

»

»

»

- » Technology based Enterprises
- » Stock Markets
- » Business Policy & Strategic Management
- » Financial Accounting: Cost & Mgt. Accounting
- » Government of Gujarat: Analytical services of the Baseline Survey & End line Survey

C) Profile of faculty members and their expertise

Prof.(Dr) P. K. Priyan

M.Com, Ph.D. (Management) Professor https://spuvvn.irins.org/ profile/265663

Prof. (Dr). Yogesh C. Joshi M.A., Ph.D. (Economics) Professor https://spuvvn.irins.org/profile/265589

Prof. (Dr) Darshana Dave MBA, Ph.D. (Management) Professor https://spuvvn.irins.org/ profile/221332

Dr R. M. Rathod MBA, Ph.D. (Management) Professor https://spuvvn.irins.org/profile/269312

Business Economics, International

Development Economics

Human Development

Dr Mitesh M. Jayswal MBA, Ph.D. (Management) Professor https://spuvvn.irins.org/ profile/94935

Dr Vilas V Kulkarni MBA, Ph.D. (Management) Associate Professor https://spuvvn.irins.org/profile/265588

Dr K. S. Prasad

MBA, Ph.D. (Management) Assistant Professor (S.S.) https://spuvvn.irins.org/profile/265662

Dr Ashish C. Mehta (S.S.) M.Com, Ph.D. (Commerce) Assistant Professor https://spuvvn.irins.org/profile/265661

Dr Hitesh Parmar

MBA, Ph.D. (Management) Assistant Professor https://spuvvn.irins.org/profile/265587



Department of Business Studies

A) Specific Areas of Research Activities

- » Commerce,
- » General Management,
- » Marketing Management

B) Profile of faculty members and their expertise

Dr Sandip K. Bhatt

M.Com., Ph.D. Professor https://spuvvn.irins.org/profile/30858

Dr Yagnesh M. Dalvadi

M.Com., Ph.D. Professor https://spuvvn.irins.org/profile/265594

Dr Kamini Shah

M.Com., L.L.B., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265593

Dr Suresh P. Machhar

MBA, M.Com., Ph.D. Associate Professor https://spuvvn.irins.org/profile/268680

- » Human Resource Management,
- » Taxation,
- » Finance and Accounting

Dr Komal Mistry

MBA, Ph.D. Associate Professor https://spuvvn.irins.org/profile/285731

Dr Jayendrasinh Jadav

M.Com., Ph.D. Associate Professor

Dr Darshna S. Rohit

M.Com., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265592

Dr Ankur D. Amin

MBA, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265660



Department of Economics

A) Specific Areas of Research Activities

- » Agricultural Economics
- » Rural Development and allied areas
- » Environmental Economics
- » Human Development

B) Profile of faculty members and their expertise

Dr Kinjal Ahir

M.A., Ph. D. Associate Professor https://spuvvn.irins.org/ profile/172888

Dr Sonal Bhatt

M.A., M. Phil, Ph.D Associate Professor https://spuvvn.irins.org/profile/265612

Dr J. K. Barot

M.A., Ph. D. Associate Professor https://spuvvn.irins.org/ profile/265610

» Monetary Economics

- » Economics of Natural Resources
- » Economics of Higher Education
- » Gender Economics

Dr Vijay S. Jariwala

M.A., Ph. D. Associate Professor https://spuvvn.irins.org/profile/264989

Dr Bhaveshkumar R Parmar

M.A, M.Phill, Ph.D. Associate Professor https://spuvvn.irins.org/ profile/290712

Mr. Hitesh R. Luhar

M.A., M. Phil., Assistant Professor https://spuvvn.irins.org/profile/290521

» Industrial economics

- » Economics of Health
- » Economics of Co-operatives

Mr. Ashishkumar R. Vasava

M.A., M. Phil Assistant Professor https://spuvvn.irins.org/ profile/288785

Dr Rajnikant P. Parsaniya

M.A., M. Phil, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/252898



Department of Education

A) Specific Areas of Research Activities

- » Researches on Pedagogical aspects for School subject Science and Technology
- » Advanced Cognitive Science in Learning perspective

B) Profile of faculty members and their expertise

Dr Paresh B Acharya

M.Sc., M. Ed., Ph.D. Associate Professor https://spuvvn.irins.org/profile/243826

Dr Alka J. Macwan

M.A., M. Ed., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265630

Dr Bhumikaben J. Barot

M.Com., M. Ed., Ph.D. Associate Professor https://spuvvn.irins.org/profile/283596

Dr Amrita J Marshal

M.A., M. Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265619

- » Advance Educational Psychology
- » Teacher Education
- » Indian Knowledge System

Dr Mohitgiri Goswami

M.A., M. Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/241280

Dr Hashmukh L. Rathwa

M.A., M. Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265616

Dr Rita A. Parmar

M.A., M. Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/241303



Department of Hindi

A) Specific Areas of Research Activities

» Hindi Language, Literature

B) Profile of faculty members and their expertise

Dr D.S.Tripathi

Ph. D. Professor https://spuvvn.irins.org/profile/245631

Dr Dilip Mehra

M.A., M.Phil., Ph..D. Professor https://spuvvn.irins.org/profile/281729

Dr H. M.Parmar

Ph. D. Associate Professor https://spuvvn.irins.org/profile/265646

Dr Seema. R. Rathod

Ph. D. Assistant Professor https://spuvvn.irins.org/profile/265645

Dr Anila M. Mishra

Ph. D. Assistant Professor https://spuvvn.irins.org/profile/265644

Dr Parvati Gosai

Ph. D. Assistant Professor https://spuvvn.irins.org/profile/265643



Department of Psychology

A) Specific Areas of Research Activities

- » Social psychology
- » Industrial Psychology
- » Counseling
- » Organizational Behaviour

B) Profile of faculty members and their expertise

Dr S. M. Makvana

M.A., M.Phil., Ph.D. Professor https://spuvvn.irins.org/profile/265680

Dr Samir J Patel

M.A., Ph.D. Professor https://spuvvn.irins.org/profile/30280

- » Clinical Psychology
- » Disability & Abnormal
- » Special Children

Dr Pankaj S. Suvera

M.A., M.Phil., Ph.D Professor https://spuvvn.irins.org/profile/265678

Dr Sangita N. Pathak

M.A., M.S.W., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265679



Department of English

A) Specific Areas of Research Activities

- » Discourse Analysis
- » War and Literature
- » Queer Studies
- » Partition Literature
- » Literature, Film and Media Studies
- » Studies of Race and Gender

B) Profile of faculty members and their expertise

Dr Parul Popat

MA (English), PhD Associate Professor https://spuvvn.irins.org/profile/152847

Dr Manish R. Solanki

MA, Ph.D. Associate Professor https://spuvvn.irins.org/profile/294540

- > Environment and Literature
- » Translation Studies
- » English Language Teaching
- » Influence and Integration of Technology in Teaching, Learning and Assessment Activities
- » Digital HumanitiesB) Industries availing analytical services

Dr Pranava J. Dave

MA, Ph.D. Associate Professor https://spuvvn.irins.org/profile/294532

Dr Piyush B. Raval

MA, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/287105



Department of Gujarati

A) Profile of faculty members and their expertise

Dr Pinakini Pandya

M.A., M.Phil, Ph.D Professor https://spuvvn.irins.org/profile/265642

Dr Param Pathak

M.A., Ph.D Professor https://spuvvn.irins.org/profile/290472

Dr Mahendra Nayee

M.A., Ph.D Professor https://spuvvn.irins.org/profile/295177

Dr Sudha Chauhan

M.A., M.Phil, Ph.D. Associate Professor https://spuvvn.irins.org/profile/265641

Dr Rameshchandra Chaudhri

M.A.,M.Phil, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/282284

Dr Rajeshvari Patel

M.A., M.Phil, Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265639





Department of History

A) Profile of faculty members and their expertise

Dr J. M. Pandya

Ph. D. Professor https://spuvvn.irins.org/profile/32447

Dr S. B. Solanki

Ph.D. Associate Professor https://spuvvn.irins.org/profile/265650 Dr Vasantkumar R Patel

Ph.D. Associate Professor https://spuvvn.irins.org/profile/265648

Dr D. C. Chaudhari Ph.D.

Assistant Professor https://spuvvn.irins.org/profile/265647

Dr Hemant. Dave

Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265649



Department of Political Science

A) Specific Areas of Research Activities

» Panchayati Raj, Indian Freedom Struggle and Politics and International Relations.

B) Profile of faculty members and their expertise

Dr Baldev Agja

M.A. M.Phil, Ph.D Professor https://spuvvn.irins.org/profile/265677

Dr Arpit Patadiya

M.A., M.J.S., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/193386



Department of Sanskrit

A) Specific Areas of Research Activities

» Sanskrit Poetics, Classical & Sanskrit Literature, Vedant, Vyakarana & Nyaya

B) Profile of faculty members and their expertise

Prof. Dr Niranjan P. Patel

Ph.D. Professor https://spuvvn.irins.org/profile/265682

Dr Mahesh G. Patel

Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265681 Dr Priyankkumar N. Raval Ph.D. Assistant Professor (Adhoc)



Department of Social Work (MSW)

A) Specific Areas of Research Activities

- » Medical & Public Health
- » Psychiatric Social Work
- » Correctional Social Work
- » Human Resource Management
- » Change Management
- » Social Psychology
- » Social Entrepreneurship

- » Aging & Gerontology
- » Youth Welfare
- » Gender Equity
- » Community Development
- » Emotional Quotient (EQ)
- » Corporate Social Responsibility
- » Human Resource Development
- B) Industries availing analytical services

Meet Manpower Solutions, Vadodara

» GIPCL, Bharuch

»

»

- » Shri Parmukh Swami Medical College, Karamsad
- » IWMI, Anand

C) Profile of faculty members and their expertise

Dr Shivani Mishra

MSW, Ph.D. Professor https://spuvvn.irins.org/ profile/278240

CEAT tyres, Vadodara

Dr Bigi Thomas

MSW, Ph.D. Associate Professor https://spuvvn.irins.org/profile/265687

Dr Manisha Parmar

MSW, Ph.D. Assistant Professor https://spuvvn.irins.org/ profile/291051

Ms. Anamika Christi MSW, Ph.D. (Pursuing) Assistant Professor https://spuvvn.irins.org/profile/291054

» Organizational Behaviour & Development

- » Industrial Psychology
- » Child Development
- » Disability
- » Life Skill Education
- » Skill Guru Academy, Ahmedabad

Dr Maukshita Dhangadhariya MSW, Ph.D.

Assistant Professor (Adhoc) https://spuvvn.irins.org/ profile/265686

Dr Radha Shukla

Ph. D. Assistant Professor (Adhoc) https://spuvvn.irins.org/profile/265683



Department of Sociology

A) Profile of faculty members and their expertise

Dr I. M. Macwan

Ph.D. Professor & Hon. Director of Dr Babasaheb Ambedkar Chair https://spuvvn.irins.org/profile/265690

Dr Ramesh H. Makwana

Ph.D. Professor https://spuvvn.irins.org/profile/265689

Dr M. M. Makwana

Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265688



Department of Law

A) Specific Areas of Research Activities

- » Constitutional law
- » Insurance Law
- » Cyber Law

B) Profile of faculty members and their expertise

Ms. Mamta Karkar

Assistant Professor https://spuvvn.irins.org/profile/265657

Ms. Pragnya Kansara

Assistant Professor https://spuvvn.irins.org/profile/265656

- » Criminal Law
- » Family Law
- » Law on Women and Child and such other
- Ms. Sneha Marathe

Assistant Professor https://spuvvn.irins.org/profile/295973

Ms. Dwiti Vyas

Assistant Professor https://spuvvn.irins.org/profile/295814



Department of Library & Information Science

A) Specific Areas of Research Activities

- Institutional Repository, Knowledge Management,
- » Corporate librarianship, Information Seeking Behavior,
- Study, Internet of Things,
- » Scientometrics Study, Academic Social Networks,
- » Research Data Management,
- » LIS Education and Research,
- » Digital Library in Vernacular Language,
- » Library Consortium, Web based Services. Open Access.

Dr Jignesh C. Makwana

Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265659

Dr Lavji N. Zala

Ph.D. Assistant Professor https://spuvvn.irins.org/profile/90441

» Library Networking, bibliometric

B) Profile of faculty members and their expertise

Dr N.D. Oza

MLISc, Ph.D. Assistant Professor https://spuvvn.irins.org/ profile/49725

Dr Shishir Mandalia

M.Sc., MLISc, Ph.D. Associate Professor https://spuvvn.irins.org/profile/209241

Dr Meghna Vyas

Ph.D. Associate Professor https://spuvvn.irins.org/ profile/57538

C) Industries availing analytical services

» Analysis of required and anticipated need of information may be operated through collective engagements which may be useful in many areas such as production, sales, marketing, packaging, etc.



M B Patel College of Education

A) Specific Areas of Research Activities

- » Innovative Practices in Teaching
- » Advanced Pedagogy
- » Standardization of Tests
- » Integration of Technology

B) Profile of faculty members and their expertise

Dr Hitesh P. Patel

M.Com., M.Ed., Ph.D. Principal https://spuvvn.irins.org/profile/291432

Dr Amitaben B. Patel

M.A., M.Ed., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265631

Dr Neepaben D. Bharucha

M.Sc., M.Ed., Ph.D. Associate Professor https://spuvvn.irins.org/profile/265632

- » Curriculum Development
- » Recent Issues : Environmental awareness
- Dr Jitendra B. Patel

M.Sc., M.Ed., M.Phil., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265628

Dr Jayshree Kantilal Dave

M.A.,M.Ed.,Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265626

Dr Deepalee Ambalal Mahida

M.A.,M.Ed.,Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265627 Dr Urmilaben G.Gamit M.A.,M.Ed., Ph..D Assistant Professor https://spuvvn.irins.org/profile/265620

Dr Rinaben N. Vohra M.Com., M.Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265614

Dr Gopalbhai Bathabhai Bharvad M.A, M.Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265624

Mr. Ashwinkumar H. Rathava M.A., M.Ed. Assistant Professor https://spuvvn.irins.org/profile/265625

Dr Samir Bhupendrakumar Vaghrodia

M.A., M.Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/291100

Dr Rajeshkumar Ishwarbhai Bhatt

M.Com., M.Ed., M.Phil., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265618\ Dr Neha Jethabhai Nandaniya M.A.(Guj), M.Phil. (Edu), Ph.D., NET Assistant Professor https://spuvvn.irins.org/profile/265622

Mr. Dilipbhai Jaysing Vasava MA, M.Ed., PhD, Pursuing Assistant Professor

https://spuvvn.irins.org/profile/265621

Dr Payal Rameshbhai Bhatia M.Com, M.Ed. Ph.D. Assistant Professor https://spuvvn.irins.org/profile/288315

Dr Samir Dilipbhai Ajmeri

M.A., M.Ed., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265629

Dr Jetalkumar J. Panchal

M.Sc., M.Ed., M.Phil., Ph.D. Assistant Professor https://spuvvn.irins.org/profile/265617

Mr. Brijeshkumar Balubhai Chaudhari M.Sc., M.Ed. Assistant Professor https://spuvvn.irins.org/profile/265623

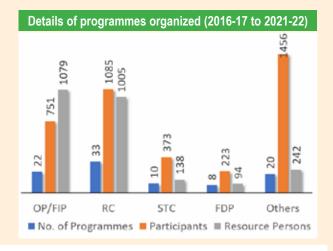


UGC Human Resource Development Centre

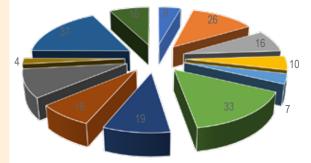
A) Profile of faculty members and their expertise

Dr Mitesh M. Jayswal

MBA, Ph.D. (Management) Hon. Director https://spuvvn.irins.org/profile/94935



Areas in courses were organized



- Ethics [9]
- Research Methodology [16]
- Gender, Marg. Communities [7]
- Communication Skills [19]
- Plagiarism [20]
- Microteaching [37]

- Environment [26]
- Agricultural Sciences [10]
- Mobile Applications [33]
- e-content Development [16]
- Basic legal awareness [4]
- Disaster Management [16]



Community Science Centre

A) Specific Areas of Activities

- » Imparting Education about Science and Technology useful to the Community
- » Demonstration of Science and Maths Models
- » Poster Exhibition

» Competitions/Celebrations

- » Awareness Generation Programmes
- » Training Programmes/Workshops

B) Profile of faculty members and their expertise

Dr (Miss) Vibha S. Vaishnav

M.Sc., Ph.D. (Electronics) Honorary Director https://spuvvn.irins.org/profile/265636

Dr Vijaykumar K. Parmar

M.Pharm, Ph.D. Honorary Jt. Director https://spuvvn.irins.org/profile/208368

Mission:

- » Science to People People towards Science
- » Inclusive Approach
- » Average Activities per year : >300
- » Average number of Beneficiaries : > 50,000 per year





Agro - Economic Research Centre

»

Dr Hemant Sharma

Dr. M. R. Ojha

Shri M. C. Makwana

M.Sc., Ph. D.

Assistant Professor

M.A. (Economics)

M.A. (Economics)

Research Associate

Research Associate

A) Specific Areas of Research Activities

- » Village Surveys and Resurveys
- » Agricultural Production & Resource Economics, Prices & Incomes Policy
- Biotechnology in Agriculture, SRR, Post-Harvest Losses, Crop Insurance, Crop diversification, Crop Cutting Experiments, Farm Profitability
- Water Management, Participatory Irrigation, Micro irrigation Systems, Skill Gap, NWDPRA
- » Agricultural Credit, Credit plus, KCC

B) Industries availing analytical services

- National Dairy Development Board (NDDB), Anand
- » Directorate of Economics and Statistics, Government of Gujarat,

C) Profile of faculty members and their expertise

Dr S. S. Kalamkar

M.Sc., Ph.D. Professor (Director) https://spuvvn.irins.org/ profile/281864

Dr Kinjal Ahir

M.A., Ph. D. Hon. Director https://spuvvn.irins.org/profile/172888

Agriculture Marketing, Post-harvest Management

- » Agrarian Crisis and Farmers Suicides
- » Use of Renewable Energy Sources for Agriculture
- » Dairy development, Economics of Milk Production, Cost of Milk Production, RBP, Break Even Point, Livestock Fodder
- » Fishery Development, Post-harvest losses

- » Export Marketing of Agriculture and Allied output
- » Parampangat Krishi Vikas Yojana, Organic Farming, Natural Farming,
- » MSP, Decentralized Procurement, MIS
- Market Risk, Government Interventions, eNAM, Emerging marketing Channels
- Contract Farming
- IASRI, New Delhi, Directorate of Agriculture, Government of Gujarat

https://spuvvn.irins.org/profile/282091

- Irrigation Department, Government of Gujarat
- » National Dairy Research Institute, Karnal (Haryana)
- » Vidarbha and Marathwada Dairy Development Project, GOM, Nagpur.

Ms. Kalpana Kapadia

M. A., M. Phil. (Economics) Research Associate

Dr. Thansingh B. Parihar M. Sc., Ph.D. Research Associate



Cost of Cultivation Scheme

A) Specific Areas of Research Activities

- » Cost of cultivations studies
- » Field Survey

B) Profile of faculty members and their expertise

Dr Mitesh M. Jayswal

MBA, Ph.D. (Management) Hon. Director https://spuvvn.irins.org/profile/94935

- » Data used for Fixation of Minimum Support Price (MSP)
- » Data Analysis

Dr Shantilal R. Bhaiya

MA, M.hil, Ph.D. Field Officer https://spuvvn.irins.org/profile/283549

C) Profile of Technical Staff members and their expertise

Mr. Gopal S. Machhi MA, M. Phil (Economics) Assistant Statistician

Mr. Hemal U. Padhiyar MA, M. Phil (Economics) Field Supervisor

Mr. Vishal C. Chudasama MA, M. Phil (Economics) Field Supervisor

Mr. Brijesh P. Pandya M Sc (Agri.) Field Supervisor

Mr. Hitesh P. Makwana MA, M. Phil (Economics) Field Supervisor

Mr. Atishesh B. Chaudhari MA (Economics) Field Supervisor



Community Radio Station

A) Specific Activities

- » Daily program schedule covers Lectures, Debates, Panel » discussions, Traditional Songs, University News, Cultural Programs, Health related Programs, Institutional Profiles, Admission related information,
- » Part time certificate program for students as well as for local community on "Radio Announcer and Art of Presentation"
- During pandemic of COVID-19 station has run two major campaigns as a part of activities carried out by most of the community radio station in the country. Station has also successfully managed two campaign on Common YOGA Protocol, a venture of Ministry of AAYUSH



University song, Lectures, Debates, Panel Discussions, Traditional songs, University News, Cultural and Health related programmes, Talks for Stress Management, Institutional profile and admission related programmes, announcements.



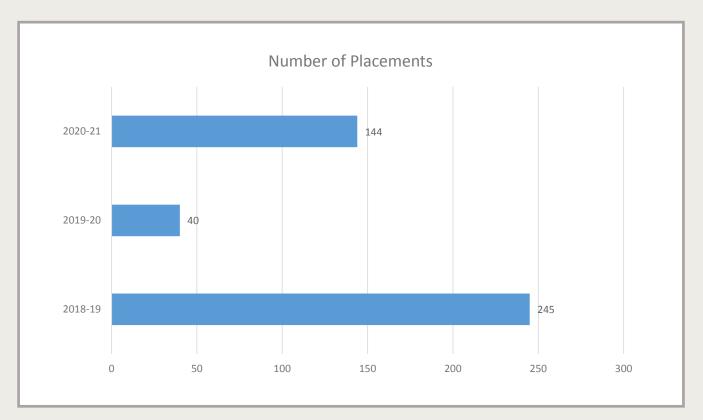


» Radio Campus 90.4 FM

- » A non-commercial venture, established by University's own resources in 2004
 - » The first of its kind in Gujarat State
 - » Broadcasting power: 50W, Coverage: 15 Km
 - » Programs are broadcast 5 hrs x 5 days a week



University for Placements





Employers

A S Patel Arts College, Boriavi Acadecraft Pvt.Itd Accord Management Accutest research laboratory pvt LTD ADANI Alembic Glasses Allen career Institute Anganwadi Training Centrer Near Rank Hospital Anju Corporation, Akota, Baroda. Anupam industries LTD Apex heart institute APIDEL, Vadodara **APOLLO MUNICH** Ashita consultancy Astral Pipes Atlanta, V. U. Nagar Authentic Staffing Agency B.Ed. Colleges Self-finance

Banco gaskets india ltd. Ankhi near jambusar Bank of Baroda Baroda Citizens Council Baroque Pharmaceutical Pvt. Ltd. Sokhda-388620, Ta-Khambhat, Dist-Anand. Beacon Insurance **BEIL(Bharuch Enviro Infrastructure** Limited) Ankleshwar Bharat parenteral Ltd jarod Bharuch Enviro infrastructure limited Birla Grasim Ltd BOB Swarojgar Vikas Sanstha **BOSCH Ltd** Botree Technologies Pvt Ltd. Byju's Code/caste Pvt. Ltd., Ahmedabad Collabera Concept Medical Researc Pvt Ltd, Surat. DCB INDIA

Decathelon Sports Baroda Gotri Sevasi Department of Computer Science DETOX corp pvt ltd Dhavat Infotech Private Limited **Dipak Foundation** D'Mart Don Bosco Snehalaya, Vadodara Durga group of companies Dynamic Industry, Jambusar **Evision IT Solution EVOSYS** Father agnel institute of Technical Training Geetanjali Vidhyalay,padra,Vadodara **Glenmark Life Sciences** Global job placement - morbi Government of Gujarat Govt. of Gujarat (Assistant Professor/ Lecturer Through GPSC) Gujarat security service ,center point



alkapuri, Vadodara Gujarat State Trasport nigam Gandhinagar HDFC BANK HDFC LTD HFFC, Mumbai ICICI BANK Ltd ICICI Prudential ICICI SECURITIES IDBI Bank IITE, GANDHINAGAR INDUS IND BANK infotech management consultancy IRMA

- Itechnotion pvt Ltd IWMI-Tata Water policy program "Jal Tarang" near smruti apartment,Anand,Gujarat J K Paper Jvs technology Pvt Ltd K K Chokshi Associates, , Vadodara Kisd Brain Power Knovos India Pvt Ltd Labour Office, Bharuch Learning Links Foundation Lenden Club (Mumbai) Leo Consultancy
- Logilite Technologies Lotus Hospitals for Childern & Women Lupin Ltd. Ankleshwar Mahavir Trauma/Cardica Hospital, Surat Mamlatdar Kacheri, Jetpur, Rajkot Matushree Monghiba Mahila Arts College-Amreli MCN corporation Surat MD India Health Care Motherohood Hospital MRF Ltd. Dahej Nano Teach Department AAU Narola infotech solutions LLP



National Cooperative Dairy Federation of India Limited National sample survey office Vadodara Ncoresoft Technology Neelkanth Placement Services, Vadodara Nielsen (India) Private Limited Nutech jetting equipment india pvt Itd Nutrition, Mitram Enterprise O2h Discovery Pvt.Ltd Odyssey solution Olakh Parul Univeristy PCIBL

Pehalwan Gym & Fitness Piramal Prakash Chemicals Prakash Software Solutions Pvt. Ltd Primary School Gujarat Government QuestInfosoft Pvt Itd Ratu Agro Bhumel Recruitment Bazar Rigel Network Rojgari Placements Pvt Ltd S & P GLOBAL Saksham Resources Sarmount laboratories Pvt LTD.

Ankleshwar

SARTHI CONSULTANTS Shree Krishna hospital Karamsad Skynet outsourcing services, , Vadodara Social Keen Youth Spandan Multispeciality Hospital Manjalpur, Vadodara ST,GCR,GoG Stellar Formulations industry pvt.ltd SUN PHARMA Sunshine Globle Hospital, Majalpur, Vadodara Swiss Glasscoat Equipment Itd



Synzeal Research Pvt.ltd. Talent Corner HR Service pvt. ltd. TARKESH & NIRANJANA SURESHBHAI PATEL COMMERCE COLLEGE , BORIAVI TCS

Tha Maharaja Sayajirao Univerisy, Baroda Thakorji Farmer producer co.op society, kurchan Torrent Cables Trust TAGS Varahaa steelworks Pvt Ltd Vijay tanks and vessels private limited VIRAJ PROFILES LIMITED Vodafone-idea Itd, Ahmedabad Vrindi India Pvt. Ltd Way to Web Pvt. Ltd Wockhardt Hospitals, Nasik WovV Tech Zydus Healthcare Limited, Ahmedabad Zydus Hospital Zydus Research Centre Zyduscadila Healthcare Ltd,Dabhasa







Consultancy Projects

Name of the Department	Name of consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in Lakhs)
Department of Applied and Interdisciplinary Sciences	Quantification of Immunosuppressive drugs in blood samples	Muljibhai Patel Urological Hospital, Nadiad Phone: 0268 252 0323	2019-20	5.40
	Quantification of Immunosuppressive drugs in blood samples	Muljibhai Patel Urological Hospital, Nadiad Phone: 0268 252 0323	2020-21	3.71
	Experimental Investigation of transient Heat Inleaks in Liquid nitrogen Criostat	GCET Engineering College, V. V. Nagar. Phone: +91-02692-231651 EXT:203	2016-17	0.01
	Hall Measurement Setup	GMM Pfaudler, Karamsad. Phone: +91 2692 661700	2018-19	0.1
Department of Physics, Sardar Patel University	Fabrication of Laboratory Setup to measure Thermoelectric Power at Variable Temperature Range	Department of Physics, M.S. University of Baroda, Vadodara. Phone: +91 265 2795339	2019-20	0.15
	Measurement of Scientific Parameters for Pulse Electro Magnetic Field	Parth electronics Pvt. Ltd., V. U. Nagar. Phone: +91 9408125311	2019-20	0.04
	Thermoelectric Power Measuring Unit	Department of Physics, M.S. University of Baroda, Vadodara. Phone: +91 265 2795339	2020-21	0.15

Department of Biosciences	Production and R&D activities of the Tissue Culture Laboratory of Kutch Crop Services Ltd.	Tissue Culture Laboratory, Kutch Crop Services Ltd., Mundra-370421 Ph. 02832 223258 E-mail: indiadates@gmail.com	2017-18	1.25
	Production and R&D activities of the Tissue Culture Laboratory of Kutch Crop Services Ltd.	Tissue Culture Laboratory, Kutch Crop Services Ltd., Mundra-370421 Ph. 02832 223258 E-mail: indiadates@gmail.com	2018-19	6.00
	Production and R&D activities of the Tissue Culture Laboratory of Kutch Crop Services Ltd.	Tissue Culture Laboratory, Kutch Crop Services Ltd., Mundra-370421 Ph. 02832 223258 E-mail: indiadates@gmail.com	2019-20	0.43
Department of Social Work	Baseline survey on Solar Farming at Mujkuva	International Water Management Institute, Colombo, Sri Lanka T: +94112880000 E-mail: iwmi@cgiar.org	2017-18	2.00
	Skill based Tourism Training Course	Skill Guru Academy, 5th Floor, Lokmanya College Campus, Behind HP Petrol Pump, Near Shivranjani cross road, Satelite, Ahmedabad - 380015 Phone: +91 7698121122 E-mail: info@skillguru.com	2019-20	11.1
Department of Economics	Report on Dhundi Saur Urja Utpadak Sahkari Mandali Ltd.	International Water Management Institute, Colombo, Sri Lanka T: +94112880000 E-mail: iwmi@cgiar.org	2018-19	1.00

MoUs of Sardar Patel University

Sr. No.	Name of the Company	Purpose of MoU	
1	Institute of Rural Management (IRMA), Anand	Development of Academic Orientation, Guidance to identify research area, Interdisciplinary orientation, etc	
2	Atmiya University, Rajkot	Sharing the facility with each other, Joint visit of research institute and industries	
3	CHARUSAT, Changa	Academic, Research and Scientific cooperation, Sharing HR facility, Joint program, Research activity	
4	Gujarat Institute of disaster management, Government of Gujarat, Gandhinagar	Academic and professional activities, Student exchange, Scientific research, Consultancy, Training programs on Disaster Risk Management	
5	Saurashtra University, Rajkot	Faculty training, Seminars and workshops, Refresher courses, Collaborative projects, internships	
6	Eaculty training Seminars and workshops Refresher courses Collabo		
7	Kadi Sarva Vishva vidvalav Eaculty training Seminars and workshops Refresher courses Collaborative prov		
8	Maharaja Krishnakumarsinhji Bhavnagar University		
9	O2h discovery, Changodar	Course curriculum development activity as per the need of industry, Students training, Students Internship, Institutional-Industry facility sharing	
10	Hemchandracharya North Gujarat University, PatanFaculty training, Seminars and workshops, Refresher courses, Collaborative projects internships		
11	SynZeal Research Pvt Ltd Course curriculum development activity as per the need of industry. Students t		
12	Yog board, Gandhinagar	Training and various activities related to Yoga education	
13	State Modeller, Vadodara	Collaborative research projects, student internship and training, Data analysis, Joint consultancy, Job work	
14	Sri Swaminarayan Research Centre, Vadtal	Students training, Multidisciplinary projects, Skill development workshops	
15	BAPS Swaminarayan Sansthan	To carry out IPDC Course	
16	Bhaikaka University, Gokalnagar, Karamsad	Students training, Multidisciplinary projects, Skill development workshops, Mental health related drives	
17	Sameer Laundry Care Pvt. Ltd., Pune	Laundry services to students and in-house linen in the hostel, Washing cloths and drying	
18	Students For Development, Anand	Tree Plantation Drive and Environment Awareness	

Department MoUs

Sr. No.	Department	Name of the Company	Purpose of MoU
1	Pharmaceutical Sciences	PNP Analytical Solution GIDC Vadodara	Training of students, sharing of library resources, Project/Programs collaboration, Guidance for licensing approval for laboratories, Analytical process development
2	Pharmaceutical Sciences	M/s Purple Inc. Ahmedabad	Vocational Training of students, Campus placement activity, Lectures arrangement, Joint seminar/conferences
3	Pharmaceutical Sciences	M/s Iconnector Pharma, Vadodara	Research consultancy, Students internship, Vocational training, Campus placement activity, Lectures arrangement, Joint seminar/conferences
4	Pharmaceutical Sciences	Amanta Healthcare Ltd, Ahmedabad	Research consultancy, Students internship, Vocational training, Campus placement activity, Lectures arrangement, Joint seminar/conferences
5	Computer Science and Technology	VI Infotech, Anand	Institution, Industry visit programs, Training of students
6	Social Work	Kunariya Village, Bhuj, Kutch	Promotion of Extension activities during Rural Camp, Research Programs, Field projects, Virtual Learning
7	Social Work	Yashwant Rao Chawan School of Social Work, Jakatnaka, Satara College	Collaboration, Co-operation & Interaction, Research Development programs, Study tour, Student Exchange Programs
8	Social Work	Score Livelihood Foundation	Student's Internship, Field Action Project, Extension Activities, Research Development, Campus Placement
9	Social Work	Faith Foundation	Student's Internship, Field Action Project, Extension Activities Research Development, Campus Placement
10	Social Work	Kripa Foundation	Student's Internship, Field Action Project, Extension Activities Research Development, Campus Placement
11	Social Work	Bhavesh Vyas and Associates	Field Work Internship, Research Development, Implication of Certificate Course for students, Field Action Project, Campus Placement
12	Social Work	Nivedita Foundation	Student's Internship, Field Action Project, Extension Activities Research Development, Campus Placement
13	Social Work	HelpAge India	Student's Internship, Field Action Project, Extension Activities Research Development, Campus Placement
14	Social Work	72 East Production	Add-on Course cum training program for students, Research Development, Curriculum Designing in Life skill course
15	Social Work	Ravipura Village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.
16	Social Work	Vaghasi Village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.
17	Social Work	Gana village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.
18	Social Work	Ajarpura Village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.
19	Social Work	Morad Village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.
20	Social Work	Ardi Village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.
21	Social Work	Porda Village	Student's Internship, Field Action Project, Extension Activities Research Development, Life Skill Education.

22 Social Work	Social Work	Udaipur School of Social Work	Collaboration, Co-operation & Interaction, Research Development		
			programs, Study tour, Student Exchange Programs		
23 So	Social Work	Don Bosco Snehalaya	Student's Internship, Field Action Project, Extension Activities Research		
23			Development, Campus Placement		
24	Social Work	Madhuvan Foundation	Student's Internship, Field Action Project, Extension Activities Research		
24			Development, Campus Placement		
25	Social Work	Vidya Wires Pvt. Ltd.	Student's Internship, Field Action Project, Extension Activities Research		
25			Development, Campus Placement		
26	Social Work	LEAAD	Student's Internship, Field Action Project, Extension Activities Research		
20			Development, Campus Placement		
27	Social Work	Tilak Maharashtra Vidyapeeth	Collaboration, Co-operation & Interaction, Research Development		
21			programs, Study tour, Student Exchange Programs		
28	Social Work	CMR University	Collaboration, Co-operation & Interaction, Research Development		
20			programs, Student Exchange Programs		
29	Casial Wark	ork Blind People's Association	Student's Internship, Field Action Project, Extension Activities Research		
29	Social Work		Development, Campus Placement		
30	Electronics	Sardar Patel college of	Industrial training and visit, Guest lectures, Placement camps,		
30	Electronics	Education (SPEC)	Collaborative academic activity		
31	Humonition	Bhaikaka University, Karamsad	Collaborative Research and Development activities, Education Training,		
51	Humanities		Joint Projects		
32	2 Computer Science K & M Technoguide Infosoft Pvt. and Technology Ltd., Anand		Quest lectures Visite Training programs		
32			Guest lectures, Visits, Training programs		
33	Computer Science	Dhavat Infotech Pvt. Ltd.,	Quest Lestures Discoment drive Industrial Training and Visit		
33	and Technology	Anand	Guest Lectures, Placement drive, Industrial Training and Visit		
34	Computer Science	Webient IT Solutions,	Quest Lestures Disconnent drive Industrial Training and Visit		
34	and Technology	Ahmedabad	Guest Lectures, Placement drive, Industrial Training and Visit		

MoUs under NEP - 2020

Sr. No.	Department	Name of the Company	Purpose of MoU	
1	Business Studies	Vitthal Udyognagar, Vallabh Vidyanaagar	Curriculum Design, Industrial training and Visit, Skill development program, Guest Lecture	
2	Sociology	Department of Sociology, Saurashtra University, Rajkot	Collaborative research and publications, Participation of Seminars and academic activities, Short term programs, Joint conferences	
3	Business Studies	RFRF Nagpur	Nurturing Research, Innovation and Creativity among students	
4	Sociology	Kapadwanj Don Bosco Society managed Don Bosco Rural Integral Social Training Institute (DRISTI), Kapadwanj	Curriculum design, Social training and visit	



Accreditation, Ranking and Rating				
NAAC	QS Asia	GSIRF	QS India	
Cycle – I (2001-2006)	Year 2023	Year 2019-20	Year 2019	
Four Star	451-500	Four Star	55	
Cycle – II (2006-2011)	Year 2022	Year 2020-21	Year 2020	
B (2.86 CGPA)	451-500	Four Star	62	
Cycle – III (2017-2021)	Year 2021	Year 2021-22	Outlook	
A (3.25 CGPA)	401-450	Four Star		
QS Southern Asia	QS Southern Asia	QS BRICS	Year 2022 69	
Year 2023	Year 2023	Year 2019	Year 2021	
115	115	231-240	69	

Participation in NIRF, GSIRF and SRA



Rank (101-150) 2017-18 & 2018-19



Rank (4 Star) 2019-20 & 2020-21 Other quality audit recognized by state, national or international agencies

» All India Council for Technical Education (MBA & MCA)

2016-17, 2017-18, 2018-19, 2019-20, 2020-21

 Pharmacy Council of India (Pharmaceutical Science)

2017-18, 2018-19, 2019-20, 2020-21

Innovation Ecosystem Student Startup and Innovation [SSIP-SPU AR PATEL UNIVERSITY Navadhara] Total projects sanctioned (PG and PhD) 10 » Total Funds Sanctioned for PoCs/ Prototypes » Rs. 9 Lakhs SECTION - 8 COMPANY (SP-SEC) » SPU (bg) 60) BLACK GOLD navadhara BLACK GOLD VERMICOMPOST VERMICO IPOST Where ideas nurture SPU-SSIP-Navadhārā Sardar Patel University **Object Detection – Learning Aid Student Progression** TATA CONSULTANCY SERVICES New Life amneal tcs NCDFI Placement 258 Few Prominent recruiters CEVL MeMarket Total Number of students placed 486 oc kotal FINAN 92 पावरग्रिड 49 45 LUPIN 42 POWERGRID ongc 2016-17 2017-18 2018-19 2019-20 2020-21 N Gaci 8 torrent % of students progressing to higher education (2020-21) 39.9 » Glascoa Amul » Average % of students clearing competitive exams 20.84 ICICI Securities HDFC BANK





Major Research Sponsors



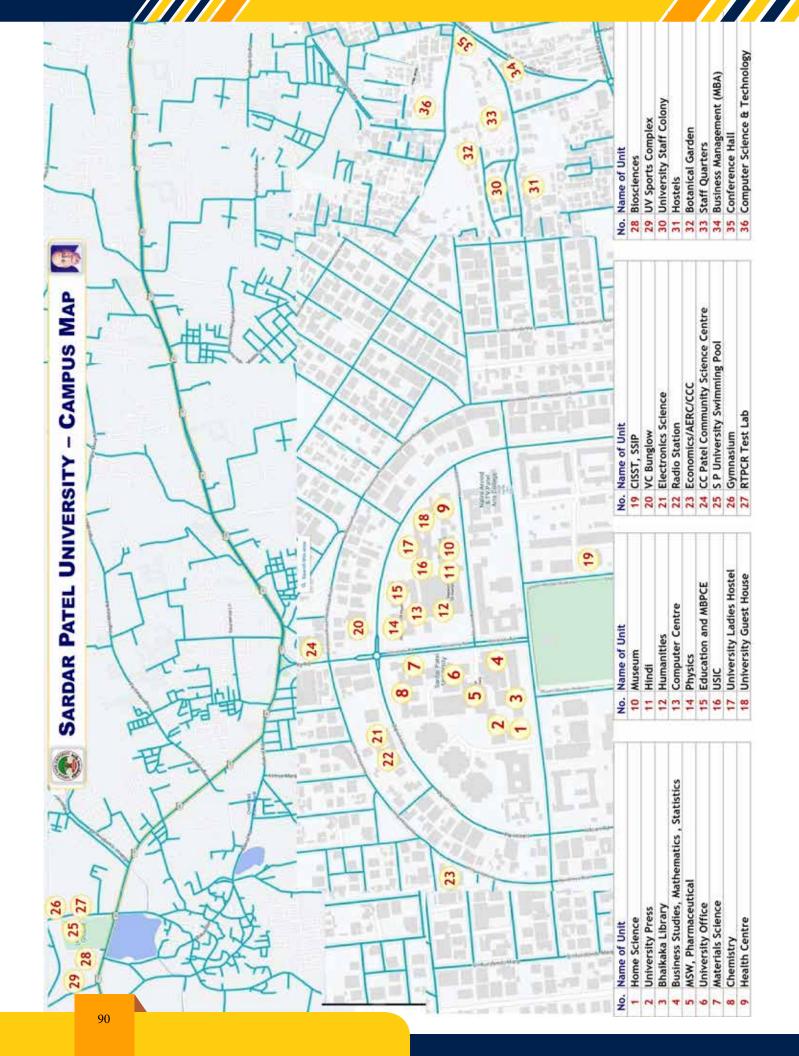
माननीय प्रधान मंत्री श्री नरेंद्र मोदी जी ने हाल ही में सरदार पटेल विश्वविद्यालय में ग्रामीण विकास पर किए गए कार्यों का उल्लेख और सराहना की है।

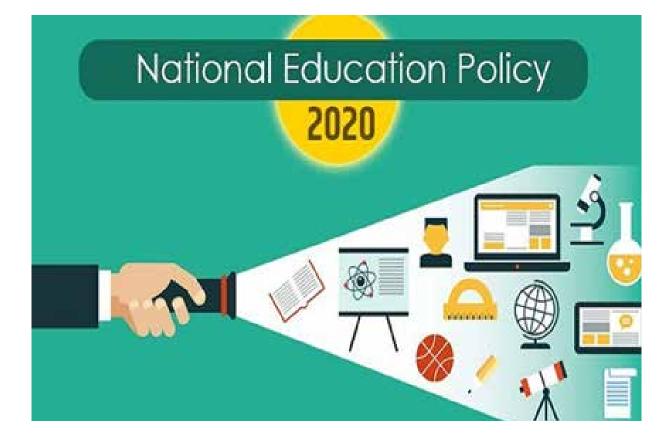


७ - ९ जुलाई २०२२ वाराणसी, उत्तरप्रदेश में UGC द्धारा आयोजीत NEP - 2020 के सन्दर्भ में देश के विभ्भिन युनिवर्सिटी के वाइस चान्सेलर का सम्मेलन।

मुझे याद है मैं गुजरात में था, तो एक बार सरदार पटेल युनिवर्सिटी में मेरा कार्यक्रम था सरदार पटेल युनिवर्सिटी के लोगोंने रूरल डेवेलोपमेंट में काफी रिसर्च करके कुछ किताबें तैयार की थी। उस दिन उन्होंने मुझे गिफ़्ट की। मैंने जरा बड़ी बारीकी से उनको देखा मुझे बड़ा इंटरेस्ट लगा। मैंने डिपार्टमेन्ट को काम दिया। मैने कहा की भाई ये जो स्टूडेंसने जो काम किया हैं आप जरा देखिये सरकार जहाँ जा रही हे और बच्चे जो कह रहे हे इसमें कितना अंतर है और आप हैरान हो जाएंगे उसमें से बहुत सी चीज़ें मुझे रूरल डेवेलोपमेंट के मेरे काम में इतनी मदद आई। विध्यार्थीओने, टीचर्सने किया हुआ काम था जो सरकार में एयर कंडीशन कमरों में बैठकर निर्णय करना मुश्किल होता हे जी। जो फील्ड में हमारी पीढ़ी जाती है उसका बहुत ही अच्छा अर्क निकाल के ले आती है और कुछ चीजों का कल्पना बाहर का लाभ हआ हो येभी ध्यानमें आता है।











२४त कथंनी वर्ष

SARDAR PATEL UNIVERSITY Vallabh Vidyanagar

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