GSFC
UNIVERSITY
EDUCATION RE-ENVISIONED

TRANSFORMING THE NATION
WITH EDUCATION

2021

UNIVERSITY REPORT

SOT SCHOOL OF TECHNOLOGY | **SOS** SCHOOL OF SCIENCE | **SOM** SCHOOL OF MANAGEMENT

GSFC UNIVERSITY

GSFC
UNIVERSITY
EDUCATION RE-ENVISIONED

Vigyan Bhavan, P.O. Fertilizernagar, Vadodara

For more information,
Call us at 0265-3093740/+91 75730 02444 or
log on to www.gsfcuni.edu.in

GSFC_University   gsfcuniversity   gsfcuniversity

GSFC Education Society

GSFC UNIVERSITY
EDUCATION RE-ENVISIONED

Our educational abode dwells on the philosophy of "Buddhi Gyanen Shudhayanti". It means purification of intellect through knowledge, which is vital to human life. It strengthens the path of success towards perfection, all the while being compassionate towards mankind and society at large. A huge Banyan tree is a part of our logo that symbolizes multiple roots of innovation that sprout towards sustainable growth. The rising Sun in the background of banyan tree in the logo symbolizes plethora of opportunities for accomplishment in life.

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ABOUT GSFC UNIVERSITY

GSFC University is incorporated under the Gujarat Private Universities Act 2009 as amended by Second Amendment of 2014 and is promoted by Gujarat State Fertilisers and Chemicals Ltd. (GSFC) through GSFC Education Society as its Corporate Social Responsibility (CSR) initiative to continue the tradition of serving the community in multiple ways.

VISION

GSFCU strives to be the best compact, boutique institution with a futuristic approach, encouraging student centric culture and a sharpened focus on developing industry ready & employable students with all-round development.

MISSION

- Establish an institution, which promotes creativity & innovation.
- Develop unique quality standards for academic excellence and pedagogical innovations.
- Remain agile through learning eco system with flexible processes & systems.
- Holistic growth for industry readiness.

GOVERNING BODY (GB) AND BOARD OF MANAGEMENT (BOM)

Shri P. K. Taneja, IAS (Retd.)
Chairman (GB & BOM)
President, GSFC University

Shri S. J. Haider, IAS,
Member (GB)
Principal Secretary (Higher & Technical Education), Education Department, Government of Gujarat

Shri V. D. Nanavaty
Member (GB & BOM)
Executive Director (Fin.) & CFO, Gujarat State Fertilizers & Chemicals Ltd.

Smt. Urja Shah
Member (BOM)
President, SETCO Foundation

Shri Maulik Bhansali
Member (BOM)
Co-Founder & CEO, NetWeb Software

Prof. Surya Pratap Mehrotra
Member (GB)
Visiting Professor, Indian Institute of Technology (IIT) Gandhinagar

Dr. Nikhil Zaveri
Member (GB & BOM)
Provost, GSFC University, Vadodara

Dr. Saurabh Shah
Member (BOM)
Dean, School of Technology (SoT), GSFC University

Dr. Chetna Parma,
Member (BOM)
Associate Dean, School of Management (SoM), GSFC University

Shri Mukesh Puri, IAS
Member (GB & BOM)
Managing Director, Gujarat State Fertilizers & Chemicals Ltd.

Prof. Madan Mohan Chaturvedi, Ph.D., E.N.A.Sc.,
Member (GB & BOM)
Head & Coordinator, Center of Advanced Study in Zoology, University of Delhi

Smt. Geeta Goradia,
Member (GB)
Managing Director, Jewel Consumer Care Pvt. Ltd., Vadodara

Shri Deepak Mehta
Member (GB)
Chairman & Managing Director, Deepak Nitrite Limited, Vadodara

Shri Rakesh Agrawal
Member (GB)
Chairman, Shiva Pharma Chem, Vadodara

Shri Rajiv Lochan Jain
Member (GB)
Strategic Consultant to MNCs and Indian Corporates

Shri. R. B. Panchal
Member Secretary (GB & BOM)
Director (Admin) & Registrar, GSFC University

Dr. K. Santosh Kumar
Member (BOM)
Associate Dean, School of Science (SoS), GSFC University

Dr. Saroj Shekhawat
Member (BOM)
Asst. Professor – Biotechnology, CEO – GUIITAR Council, School of Science (SoS), GSFC University

MEMBERS OF ACADEMIC COUNCIL

Dr. Nikhil Zaveri
Provost, GSFC University

Dr. C. Gopalkrishnan
Director,
School of Petroleum Management,
Pandit Deendayal Petroleum University (PDPU)

Shri Anil Vekariya
Assistant Director,
Industrial Safety & Health,
Govt. of Gujarat

Shri Abhay Purandare
Consultant - Fire & Life Safety,
Gujarat

Dr. K. Santhosh Kumar
Associate Dean,
School of Science, GSFC University

Dr. Ajay Ranka
CEO and Managing Director,
Zydex Industries

Dr. Sanjay Chaudhary
Professor and Associate Dean,
School of Engineering & Applied Science,
Ahmedabad University

Shri Sudhir Vaid
Chairman & Managing Director,
Concord Biotech Limited

Dr. Nishith Parikh
Associate Dean,
School of Technology, GSFC University

Shri R. B. Panchal
Director (Admin) & Registrar,
GSFC University

BOARD OF STUDIES

Separate Board of Studies for each stream has been constituted. The members for the BOS are drawn from academia, industry. The unique feature of the BOS is that the meritorious students of all the streams are also an integral part of respective BOS.

BOS has been constituted for the following streams:

School of Technology
- Chemical Engineering
- Mechanical Engineering
- Computer Science and Engineering
- Fire & Environment, Health, Safety

School of Science
- Chemistry
- Biotechnology

School of Management
- HR | Marketing | Finance
- Information Technology Management (ITM)
- Accounting & Finance

OUR USPs

1 Our value creation lies in being compact with a strong focus on delivering quality education and industrial training.

2 Focus on the four Cs- Culture, Curriculum, Collaborations and Campus.

3 Industry-connect is our most differentiating factor. Student Industrial Internship at the end of every semester, faculty industrial internship, MoUs with Industry, 30% of teaching by industry professionals, 50% members of the Board of Studies and Academic Council from Industry are the initiatives taken to make GSFCU students Industry Ready.

4 Immersive learning through hands-on training, workshops, industrial visits, visits to plants and processes, exposure to various areas of study for a 360 degree development of the students.

5 GUIITAR COUNCIL: An Innovation and Incubation ecosystem to enrich and enthuse students with ideas to explore the STARTUP landscape and join the Make in India Movement.

6 Constantly Vibrant and Bubbling Pot of Co-curricular activities and events for holistic development and social and mental awareness.

7 Activity Credit Bank to facilitate and motivate students to actively participate in various curricular, co-curricular and extra-curricular activities, and also rewards them with extra credits leading to certification, diploma and Advanced Diploma.

8 A vast lush Green Campus which ignite body, mind and soul. The presence of a 400 years old Banyan tree creates a soulful opportunity beyond the classroom to connect one with his or her higher self.

9 Interlacing theory and practice following a Medical College Concept where students encounter real life situations to enhance their knowledge and skills.

10 Enhanced value to campus life with excellent Sports facilities – Indoor and Outdoor like golf, swimming, Tennis, Table Tennis, Badminton, Cricket, Football and other sports.

11 Location of the University adds its own uniqueness. Geographically being at the threshold, Vadodara city is easily accessible for academic pursuits. Immense resources required for academics like Industry, Expert professionals, logistics, facilities etc. are just around the University.

THE JOURNEY

The academic journey of GSFC University started from the academic year 2015-16, with the setting up of **School of Technology (SOT)**.

2015

School of Technology (SOT) operationalized with offering the following programs:
B.Tech. Chemical
B.Tech. Mechanical

2016

School of Technology (SOT) added a new stream:
B.Tech. Civil

Establishment of **School of Science (SOS)** with the following programs:
B.Sc. Chemistry (Hons.)
B.Sc. Biotechnology (Hons.)

2017

Establishment of **School of Management (SOM)** with the following program:
B.B.A.

Establishment of Management Development Center (MDC)

2018

Establishment of **School of Fire & Environment, Health & Safety (SOF&EHS)** with the following programs: One year Diploma (Fire & Safety) & Six months Certificate course in Fireman/Firewoman

Establishment of GSFC University Incubation, Innovation, Technology & Applied Research Centre (GUIITAR)

2019

School of Technology (SOT) added another new stream:
B.Tech. Computer Science and Engineering
B.Tech. Fire & Environment, Health & Safety

School of Science (SOS) added the following new programs:
M.Sc. Chemistry | M.Sc. Biotechnology | Ph.D. Chemistry | Ph.D. Biotechnology

2020

School of Management introduced following specializations:
B.B.A. Information Technology Management (ITM)
B.B.A. Accounting and Finance

2021

School of Science introduced following programs:
B.Sc. Industrial Chemistry (3 Yrs)
B.Sc. Microbiology (3 Yrs)
B.Sc. Fire and Safety (3 Yrs)
M.Sc. Industrial Microbiology (2 Yrs)
PG Diploma in Industrial Safety (1 Yr)
PG Diploma in Fire and Life Safety Audit (1 Yr)
PG Diploma in Disaster Management (1 Yr)

School of Technology introduced following specializations:
Computer Science and Engineering
- Cyber Security

Mechanical Engineering
- Smart Manufacturing
- Robotics and Automation

School of Management introduced following programme:
B.B.A. Business Analytics

SCHOOLS & ACADEMIC PROGRAMS

Presently university is organized into 3 constituent schools, i.e. School of Technology (SoT), School of Science (SoS) and School of Management (SoM). One of the most distinguishing aspects of each school is an extensive industrial internship after every semester aimed at developing industry-ready employable students. All the first year students enrolled at the university have to undergo a well-designed foundation course intended to equip the students with character building and soft skills.

School of Technology (SOT)

School of Technology (SoT) has been equipped with the state-of-the-art infrastructure for imparting technical education and enabling students to be industry-ready. It focuses on providing student-centric academic structure directed towards holistic development through a structured internship program offered in every semester. Access to 22 industrial plants of GSFC and other industries in and around Vadodara of the university campus, creates an ideal platform for imparting industry oriented studies and practical training.

SOT
SCHOOL OF TECHNOLOGY

B.Tech.
- Chemical Engineering
- Mechanical Engineering
  - Smart Manufacturing
  - Robotics and Automation
- Computer Science and Engineering
  - Data Science, Artificial Intelligence and Machine Learning
  - Internet of Things and Automation
  - Cyber Security
- Fire & Environment, Health, Safety

School of Science (SOS)

School of Science (SOS) was established in the academic year 2016-2017 with the goal of imbibing innovation and creativity together with the regular academic curriculum.
SOS offers Undergraduate, Postgraduate, Postgraduate Diploma and Doctorate programs in Life Sciences and Chemical Sciences, with an objective to educate and train the students for growth opportunities opening up due to unabated advancement of science and technology. The curriculum of all programs is designed as per the University Grants Commision (UGC) guidelines and is a balanced combination of theory & experiments. End-semester internship programs provide the opportunity to the students to get tested and trained at the same time under the supervision of academic and industrial mentors. The smart classrooms, well-equipped laboratories and strong industrial collaboration ensures the academic, research and industrial competence of the students.

SOS
SCHOOL OF SCIENCE

Undergraduate Programs
- B.Sc. (Hons.) Biotechnology
- B.Sc. (Hons.) Chemistry
- B.Sc. (Hons.) Microbiology
- B.Sc. Industrial Chemistry

Post-graduate Programs
- M.Sc. Biotechnology
- M.Sc. Chemistry (Organic/Analytical)
- M.Sc. Industrial Microbiology

Post-Graduate Diploma Program
- Industrial Safety
- Fire and Life Safety Audit*
- Disaster Management*

Doctorate Programs
- Ph.D Chemistry
- Ph.D Biotechnology

*In Collaboration with Gujarat Institute of Disaster Management, Gandhinagar (Gujarat)

GUJARAT INSTITUTE OF DISASTER MANAGEMENT
BUILDING RESILIENCE

School of Management (SOM)

School of Management (SOM) aims at developing students as future business leaders by providing them with a program of exposure, experience & enrichment. The program of BBA is interwoven with the practical aspects of the business through internships, projects and other modes of experiential learning. The emphasis on entrepreneurship development adds value to the programs as students not only increase their risk-taking abilities but also they develop a host of skills which are useful in the future career.

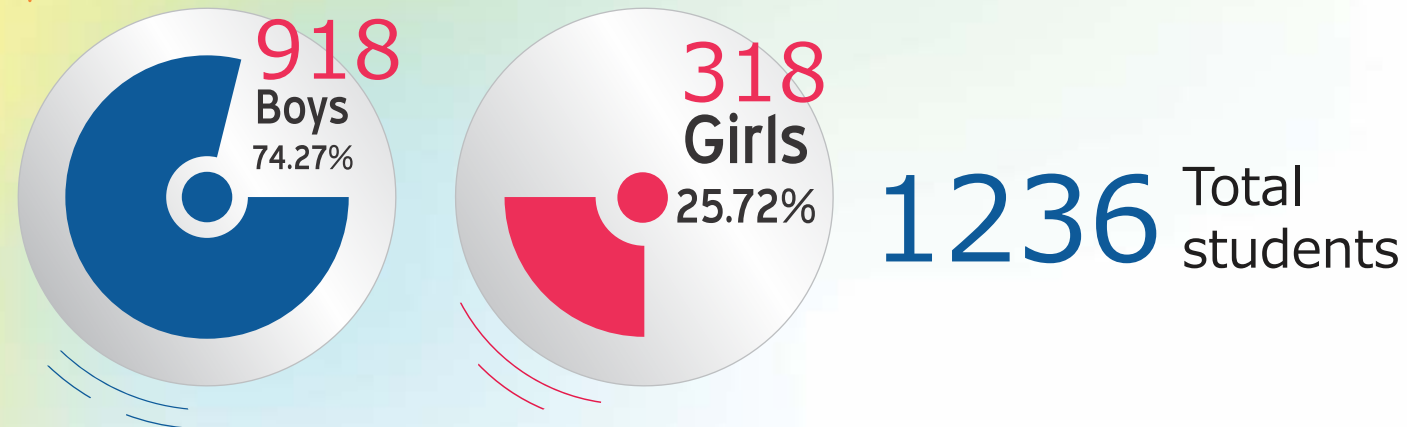Business analytics deals with the study, analysis, and interpretation of big data of organizations whether profit-making or non-profit making. Business Analytics as a discipline is emerging as an important part of management science.

SOM
SCHOOL OF MANAGEMENT

- **B.B.A. Business Analytics**
- **B.B.A. (General)**
  - Human Resources (HR)
  - Marketing
  - Information Technology Management (ITM)
  - Accounting & Finance

STUDENTS ON THE CAMPUS

918
Boys
74.27%

318
Girls
25.72%

1236 Total students

625 SOT | **328** SOS | **189** SOM

Faculty

42% Female | **58%** Male

62 Faculties | **49** Visiting Faculties | **42** Admin Team

GSFCU Best Practices

1. Gender-Sensitive Approach
2. Student Industrial Internship
3. Faculty Industrial Internship
4. Foundation course
5. GUIITAR Council, Sec. 8 Company for Start-up activities
6. Immersive learning through hands-on training
7. Activity Credit Bank for non-academic/co-curricular activities
8. GSFCU CSR Funding to pursue research & innovative ideas
9. Eventia - a bimonthly GSFCU newsletter
10. Virtual Discipline Specific Internship
11. Online Teaching Initiative
12. Online Examination Initiative
13. Science view magazine for nurturing Scientific Temper
14. President's Initiative for Nurturing Unlimited Potential of Students (PINUPS)
15. Academic Associate Program for peer learning
16. Language Lab
17. Student's feedback in faculty recruitment
18. Active Quality Cell for academic audit
19. Student's managed clubs & chapters under Vibrant Pot
20. Student's Musical Band - The Diversity
21. Bridge courses in Physics, Chemistry, Maths, English & Accounting

FOUNDATION COURSE

Foundation course aims at emphasizing on educating the students about various aspects of on and off-campus life, creating well-rounded personalities who can contribute to the society, can adapt to their surroundings and turn out to be great thinkers and problem solvers in all walks of life. GSFC University conducts the foundation course for the newly admitted students.

With a view to acquaint with ethos of university and help students settle down in university atmosphere, encourage them to build sense of self confidence, explore creative pursuits and develop minds and bodies to make them wholesome and well- rounded global citizens, GSFC University organized 3rd Foundation Course for 10 days for the batch of students enrolled in 2020-21. The Foundation Course was held during 23 August 2021 to 4 September 2021.

The topics focusing on the objectives of the Foundation Course were delivered as expert talk, engaging activities and workshops. To facilitate the students who were not able to join on campus, the sessions were also streamed live via google meet, zoom and YouTube.

To ensure the holistic development of the students, the topics were divided into four – Body, Mind, Intellect and Soul.

a. Body
1. Sports Activities
2. Prevention of Lifestyles in Young Adults
3. First Aid
4. Zumba – Body fitness
5. Self Defense

b. Mind
1. Session on positivity
2. Origami – Fine arts
3. 5S
4. Grooming & Etiquettes
5. Mind Management – Emotional Wellbeing
6. Good Habits

c. Intellect
1. Story-Board – Ideas as a sequence of Images
2. Traffic and discipline on road
3. Light the Fire in your Heart
4. Life & Literature
5. Placement Talk
6. Mono Prints

d. Soul
1. Heartfullness & Meditation
2. Yoga
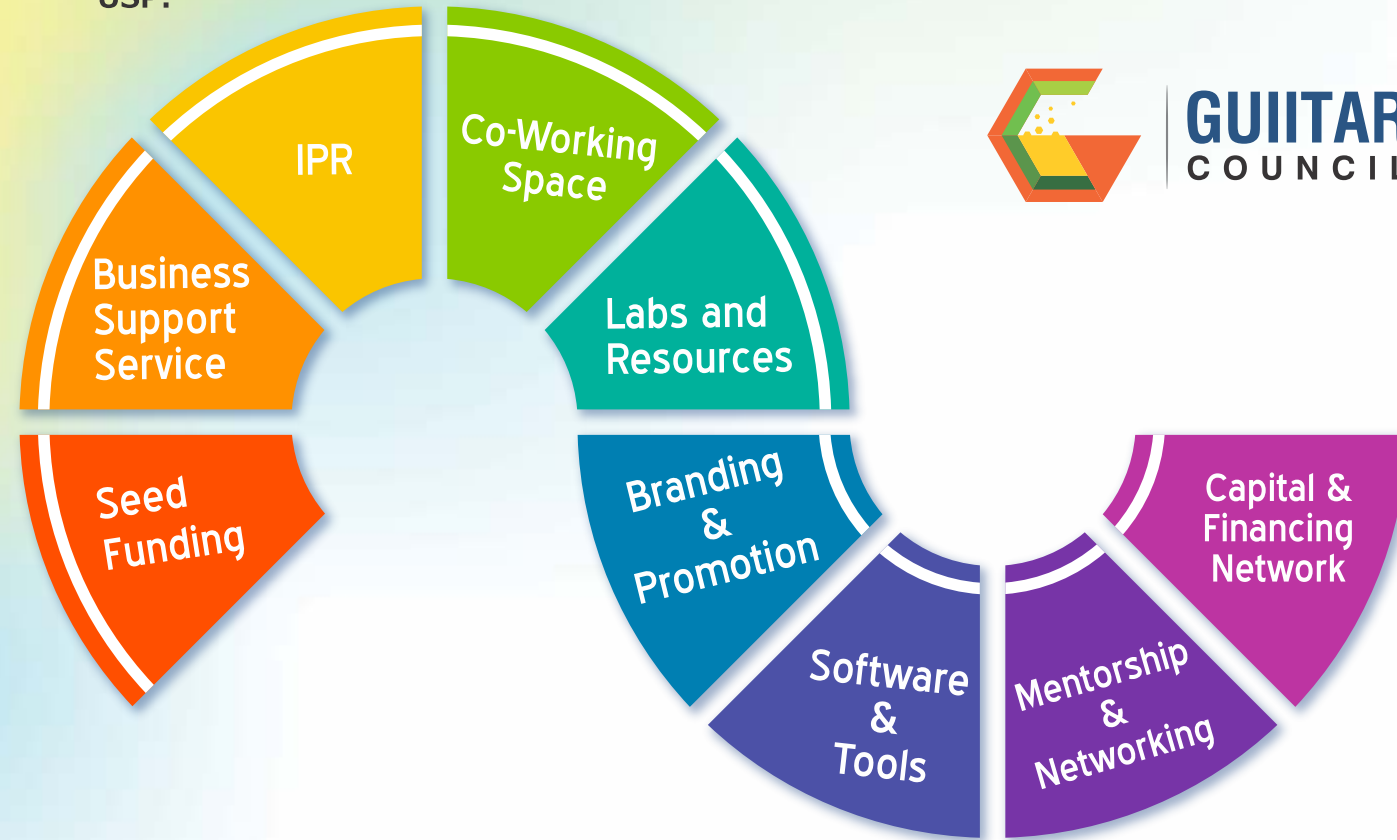3. Life Inspiration by Dr. Jaideep Sharma
4. Who am I?

BRIDGE COURSE

GSFC University conducts a bridge course for newly admitted students before the commencement of the first semester classes every year. The main objective of the course is to bridge the gap between subjects studied at the pre-university level and subjects they would be studying at graduation. As the medium of learning at University is English, the course is essential; whereas the basic concept of Maths is brushed for the biology students who opt for Mathematics as an elective subject. Physics, Chemistry, Accountancy have also been added as Bridge Courses from this year.

GUIITAR COUNCIL @ GSFC UNIVERSITY

A Company incorporated u/s 8 of The Companies Act, 2013
USP:

- IPR
- Co-Working Space
- Business Support Service
- Labs and Resources
- Seed Funding
- Branding & Promotion
- Software & Tools
- Mentorship & Networking
- Capital & Financing Network

GUIITAR COUNCIL

Advisory Board:

Dr. Madhukumar Mehta
Chairman Emeritus,
Vadodara Innovation
Council, Vadodara

Mr. Ramanan Ramanathan
Former Mission Director,
Atal Innovation Mission &
Additional Secretary, Niti
Aayog, New Delhi

Mr. Anupam Jalote
CEO, iCreate - International
Centre for Entrepreneurship
and Technology,
Ahmedabad

Mr. Hemal Patel
Former MD & CEO,
Cyberoam Technologies
Private Limited, Ahmedabad

Mr. Shankar C Rele
CEO, ICE Strategic Business
Advisors, Mumbai

Dr. Nilesh Khare
Dean - Faculty of
Management & Commerce,
Jagran Lakecity University,
Bhopal

Ms. Poyni Bhatt
CEO, Society for Innovation
and Entrepreneurship (SINE)
– IIT Bombay, Mumbai

Mr. Bhavesh Chelani
Founder & MD,
Dessertino, Vadodara

Dr. Nikhil Zaveri
Provost (Vice-Chancellor),
GSFC Univesity, Vadodara

Mr. R. B. Panchal,
Director (Admn.) & Regisrar
GSFC University, Vadodara

RECOGNITION OF NODAL INSTITUTE, GOVT. OF GUJARAT:

GUIITAR Council, a Section 8 Company promoted by GSFC University has been recognized as a Nodal Institute by Industries Commissionerate, Govt. of Gujarat under the scheme for Assistance for Startups/Innovation, Gujarat Industrial Policy – 2020.

GUIITAR Council has been set up for developing an Ecosystem for promoting Startups and inculcating Entrepreneurship spirit amongst the young minds and innovators. GUIITAR Council's major focus areas are Agriculture, AI & Robotics, Biotechnology, Clean-Tech, Cyber Security, Energy, Environment, Healthcare, ICT, IoT, Manufacturing, Services, Water and Waste Management.

Startups and innovators in and around Vadodara will be benefited by the Startups Ecosystem developed by GUIITAR Council and be able to avail benefit from various incentives provided through the Nodal Institute under the scheme.

Assistance to Startups:

- Seed support: Up to INR 30.00 lakh per startup

- Assistance to Startups having a significant impact on Society: Up to INR 10.00 lakh per startup

- Sustenance allowance: INR 20,000 per month per approved startup for one year up to INR 2,40,000/-, INR 25,000 in case of at least one-woman founder / Co-founder per month per approved startup for one year up to INR 3,00,000/-.

- Skill development: Up to INR 1 lakh per approved startup

- Assistance to enroll and participate for the Acceleration program: Up to INR 3.00 lakh per approved startup

- Pre-Series A Funding: INR. 50.00 lakh to INR 3.00 crore from Gujarat Venture Finance Limited (GVFL) for approved startup

- Interest Subsidy: Additional interest subsidy of 1%, Maximum up to 9% on term loans under the provisions of scheme for assistance to MSMEs.

Industries Commissionerate
Government of Gujarat

StartUp
Igniting the future

Recognition under Student Startup and Innovation Policy (SSIP), Govt. of Gujarat:

GSFC University has signed a MoU with Gujarat Knowledge Society (GKS) a nodal agency of Govt. of Gujarat to implement Student Startup and Innovation Policy (SSIP) at University. Rs. 30 lakhs total budget approved for the financial year 2021-22 and received Rs. 3.75 lakhs grant.

The Student Startup & Innovation Policy of Government of Gujarat aims to create an integrated, state-wide, university-based innovation ecosystem to support innovations and ideas of young students and provide a conducive environment for optimum harnessing of their creative pursuit.

Assistance to Student/Alumni:

- Support for Proof of Concept/Prototype Development: Max. Rs. 2.00 lakhs grant

- Support for IPR: Max. Rs. 50,000/- grant for domestic IPR filing

Approved and Funded Project under SSIP:

Rs. 17,500/- grant

from GSFC University and Student Startup and Innovation Policy, Govt. of Gujarat for their project

"Creating Interactive Education Material Using Augmented Reality"

Awarding Students

Anjali Nair   Bhagyashree Babu   Urvish Mehta   Stuti Upadhayay   Divyesh Menghani   Zion Desai

Mentors Dr. Saroj Shekhawat, CEO, GUIITAR & Mr. Roshan Rawal, Founder, Exposit

Rs. 1,06,000/- grant

from GSFC University and Student Startup and Innovation Policy, Govt. of Gujarat for their project

"Creating Training & Laboratory Module through Virtual Reality Platform"

Awarding Students

Tej P. Dhruve   Dhruv V. Desai   Jahnvi B. Bundhelya   Husain M. Kalolwala   Prapti N. Patel   Amol J. Jadhav

Mentors: Dr. Saroj Shekhawat, CEO, GUIITAR & Mr. Roshan Rawal, Founder, Exposit

Rs. 50,000/- grant

from GSFC University and Student Startup and Innovation Policy, Govt. of Gujarat for their project

"Agriculture Surveillance Drone"

Awarding Student

Rahi Patel

Mentors: Dr. Nishith Parikh, Associate Dean, School of Technology, GSFC University & Mr. Ravi Butani, Project Manager, WhileOne Technologies Pvt. Ltd.

Rs. 60,000/- grant

from GSFC University and Student Startup and Innovation Policy, Govt. of Gujarat for their project

"वरुणादि Solar Desalination"

Awarding Student

Jayrajsinh Gohil

Mentors: Mr. Aakash Bhavsar, Assistant Professor, School of Technology, & Dr. Poonam Sharma, Assistant Professor, School of Science

Students Achievement:

Mr. Jaydeep Gajjar

Won 3rd Rank in EDII-Mirchi Startup Express competition and received certificate from Shri. D. R. Parmar, Jt. Commissioner of Industries, Industries Commissionerate, Govt. of Gujarat, Gandhinagar in the presence of Dr. Sunil Shukla, Director General, EDII – Ahmedabad.

Received appreciation certificate from Mrs. Ritaben K. Patel, Mayor, Gandhinagar Municipal Corporation for his innovation Portable Sanitization Machine to fight against COVID-19 during Swachh Survekshan 2021 event at Gandhinagar, under the category of Startups.

Mr. Heth Patel

Won Second Prize in YuvaBizz - A Business Idea Competition held in Saptarshi during June 30th to July 6th 2021 as a part of Yuvalaya's 7th Foundation Day celebration at Vadodara.

Dr. Sanjukta Bose Goswami, Nilay Shah, Nimit Shah, Manav Shah, Harsh Rajput, Zalak Patel and Dr. Dinesh Kumar Pandey

Won the runner up prize of $100 in a Chem-E-Car Competition in AIChE Student Regional Conference 2021 organised virtually by Ahmedabad University.

INDUSTRY 4.0 INITIATIVES

3D PRINTING LAB:

- To facilitate students with 3D Printing Technology
- **Facilities**
  - o FDM Desktop 3D Printers
  - o 3D Scanner & Software
  - o DIY 3D Printer Kit
- **Applications:**
  - o Mechanical & Plant Engineering
  - o Automotive Industry
  - o Product Design
  - o Health Care
  - o DIY Maker
  - o Education & Research

SUPERCOMPUTER FACILITY:

- To solve computational challenging problems
- For scientific advancement and economic competitiveness of a nation
- Computer-Aided Engineering (CAE):
  - o Computational Fluid Dynamics
  - o Computational Structural Mechanics
- Data Analytics & Artificial Intelligence

ROBOTICS LAB:

- e-yantra Lab in collaboration with IIT Bombay
- FireBird V 2560
- Spark V Robot
- Raspberry-Pi 3
- Zigbee Modules 100m range
- Sharp GP2Y0A21YK0F infrared range sensor (10cm to 80cm)
- Gyroscope, accelerometer and GPS interfacing module for the robot
- GPS receiver
- Two-Axis Camera pod with Wireless Camera
- Arduino Uno/Nano

LIFE SCIENCE LABS

- Animal Tissue Culture
- Plant Tissue Culture
- Molecular Biology
- Microbiology
- Common Instrumentation and Research Facility

CHEMICAL SCIENCES LAB

- Advanced Organic
- Advanced Inorganic
- Organic Synthesis
- Analytical Chemistry
- Instrumentation

ENGINEERING LABS

- Fire and EHS - 3 labs
- CSE - 7
- Chemical - 7
- Mechanical - 8
- Common Labs - 5

INFRASTRUCTURE

Campus

✓ 05 Buildings
✓ 35 Lecture/Tutorial Halls
✓ 40 Laboratories/Workshops
✓ Studio Facility
✓ 24/7 Security
✓ Smart Auditorium
✓ 03 Smart Classrooms
✓ High Tech classrooms with Digital Podium and Well-Equipped Laboratories
✓ Digital Campus System and Digital Library to access e-resources
✓ Incubation and innovation (GUIITAR) Council for promoting student ideas
✓ Conferencing facilities
✓ Sports and recreational facilities
✓ New Lab Building
✓ Aanganva - Open-air Amphitheatre for organizing events and recreational activities
✓ Lush green campus
✓ Impressive and aesthetically built up academic buildings
✓ Bank & ATM facility
✓ Cafeteria
✓ GSFC's officers club
✓ Golf Course

Library Resources

✓ 6943 Books related to University courses as well soft & Technical skills & General books
✓ 34 Print Journals/Periodicals & Magazines + e-journals
✓ 290 CD/DVD collection
✓ GSFC University Library has a fully functional KOHA Library Management Software and D-Space Digital institutional repository
✓ E-resources include E-books, E-Journals, Video lectures of NPTEL, NDL and South Asia Archive
✓ E-Subscription of National Newspapers (Times Group)
✓ Access of ShodhShuddhi: Plagiarism Detection Software (PDS) for research authentication
✓ DELNET Membership with DELNET Knowledge Gainer Portal. (It gives access to 1,58,33,201 of resources including E-journals, E-books, Articles, Institutional Repositories content)

Auditorium Infrastructure

✓ Smart Auditorium – 147 Seats.
✓ Amphitheatre - 400 seats

Conference Rooms: 7

Canteen Facility

✓ In-house kitchen
✓ Mess facilities for hostel students
✓ Retail outlet for everyone else to avail the canteen benefits

Hostel

✓ 92 Hostel Rooms (72+20)
✓ 276 Student Capacity
✓ 03 Buildings
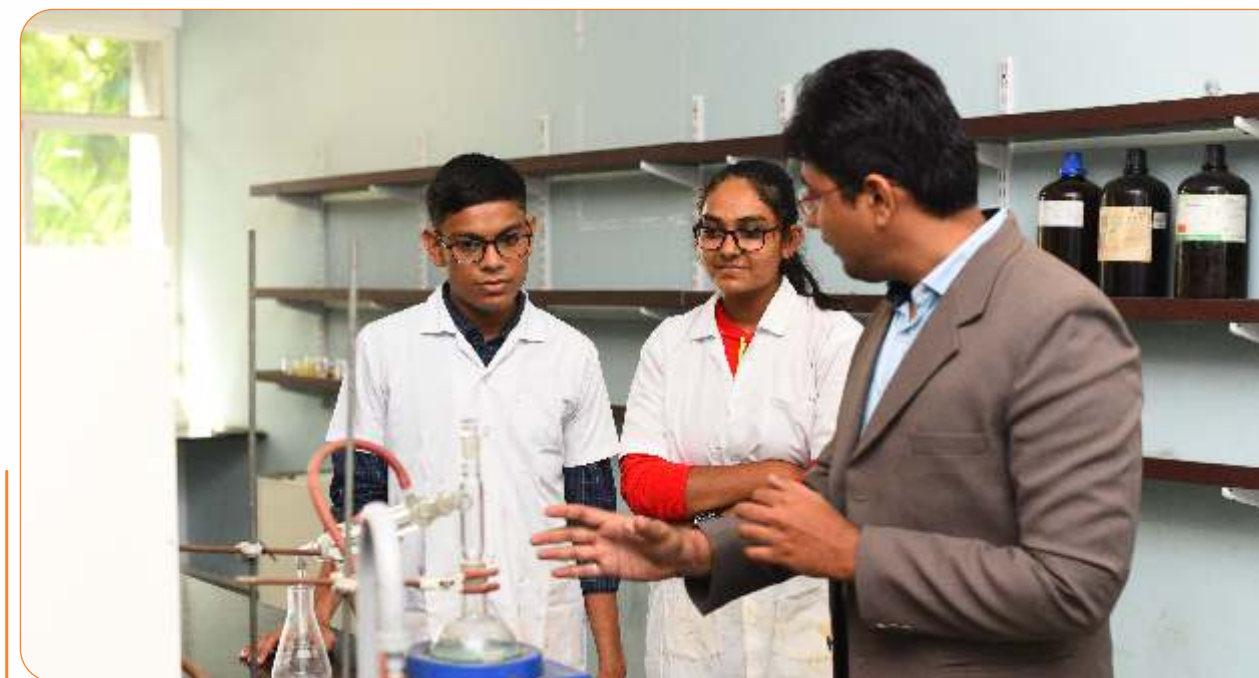
On Campus 24/7 Medical Facility

INDUSTRY EXPOSURE

The Industry Internship Program provides students with an opportunity to gain valuable experiences beyond the classroom setting by engaging in projects of substantial size, scope, and complexity. It enables students to better appreciate the application of fundamental conceptual knowledge from the course curriculum by allowing them to apply and relate what they have learnt in class to real-world industry projects.

The university offers of students a platform to develop skills needed for their professional success. Courses are anchored around hands-on, practice-based approach. They aim to equip students with practical experiences and knowledge, preparing them to meaningfully engage with their future employers.

GSFC's plants, subsidiaries, and associates expose students to a professional and real-life workspace. The company offers its facilities as a learning ground where students engage in projects, challenging case studies and group work.

The mandatory and intensive internship program gives students a great opportunity to acquire practical knowledge and learn how to work within a corporate environment.

GSFC Ltd and GSFC University COVID TESTING (RT-PCR) Training at SSG Hospital for Biotechnology Students

To meet the needs of skilled manpower during the second wave of covid 19- a COVID TESTING (RT-PCR) training was initiated by GSFC Ltd along with GSFC University at SSG Hospital, Vadodara. A total of 16 Biotechnology Students were trained under this initiative.

M.Sc Biotech Final year students visiting GSFC Ltd. Caprolactam 2 Plant for their dissertation work on Industrial Effluent Treatment using bioremediation approach.

MOU's

GUJARAT INSTITUTE OF DISASTER MANAGEMENT

GUJCOST, Gandhinagar

Deepak Foundation Vadodara

North South Foundation

Parametric Technology

NASSCOM

Atos Global It Solutions And Services Ltd.

SNDT Women's University, Mumbai

SETCO FOUNDATION

AIESEC

IIT, Gandhinagar

MOU between GSFC University and Gujarat Institute of Desert Ecology, Bhuj

MOU between GSFC University, Vadodara and Airport Authority of India(AAI)

MOU between GSFC University, Vadodara and AIESEC, Baroda

MOU between GSFC University and Gujarat Knowledge Society for implementation of the Student Startup and Innovation Policy (SSIP) of Government of Gujarat

MOU between GSFC University and Gujarat Council on Science and Technology (GUJCOST) for establishing the

1. Supercomputer facility
2. Design Lab at the GSFC University

COLLABORATION WITH FOREIGN UNIVERSITIES

MOU between GSFC University, Vadodara & University of Maryland, USA. Areas of cooperation would include programs and activities in the field of Fire Engineering.

Letter of Intent (LOI) between GSFC University, Vadodara & Victoria University, Australia to develop initiatives in the areas of Education, Research, Training, Joint Publication, Digital Sessions, Workshops and Conferences etc.

3. Letter of Intent (LOI) of mutual cooperation between GSFC University, Vadodara & University of Dubai, UAE. The term of partnership aims at: Promoting Student's Exchange, Exchange of Academic Materials, Publications and Information, Enhancement of interest in teaching & Research activities of the respective institutions.

VIRTUAL DISCIPLINE SPECIFIC INTERNSHIP

As the COVID-19 lead situation is still prevailing, Student Industrial Internship for the Academic Year 2020-21 (Even Semester) continued through online mode based on Discipline Specific Projects.

Student Industrial Internship – Business Areas

1. Agriculture Technology
2. AI, ML, Computer Vision
3. Alternate Energy Sources
4. Analytical Software Development
5. Application/Software Development
6. AR/VR
7. Automobile
8. Bioremediation
9. Cement Industry, Research
10. Chemical Intermediates
11. Chemistry
12. Coating-Agricultural Industry
13. Computer Application
14. Computer Vision
15. Design and Optimization
16. Dye-Industry, Textile Industry
17. Energy
18. Environment and Ecology
19. Environment and Pollution Control
20. Environmental & Fertilizer
21. Environment Science
22. Game Development & IoT
23. Green Energy, Marketing
24. Health & Nutrition
25. Healthcare
26. Heat Transfer, Design, Energy Efficiency, IDP
27. HVAC
28. Industrial Equipment Study
29. Industrial Pollution Management
30. IoT & Computer Vision
31. IT Sector
32. Language
33. Manufacturing
34. Marine Biotechnology Industrial Aspects
35. Marketing
36. Material Chemistry
37. Material Degradation
38. Molecular Biology and Agriculture Biotechnology
39. Molecular Diagnosis
40. Nutrigenomics
41. Pharma
42. Polymer Science and Technology
43. Process
44. Product Design
45. Production Industry
46. Project Management
47. Recycling, Food Industry, Solid Waste
48. Management
49. Refrigeration & Air Conditioner
50. Renewable Energy and Solid Waste Management
51. Renewal Energy
52. Safety in Utility Industry Social
53. Software/Web Development
54. Solid Waste
55. Suspension
56. Technology
57. Waste Management
58. Web Development
59. Wireless Technology

Total Students: 820 **Total Group: 166** **Total Business Areas: 59**

Industry Mentors

SOT

Total Industry Mentors: 36
From Vadodara: 28 Mentors (77%)
From Mumbai: 2 Mentors (5.5%)
From Bangalore/Chennai/Halol/Mundra/Jamnagar/Pune: 01 Mentor Each (2.77%)

SOS

Total Industry Mentors: 31
From Vadodara: 22 Mentors (70.9%)
From Ahmedabad/Bhatinda/Gajraula Amroha/UP/Hyderabad/London/Nasik/Rajpipla/SPRERI Anand/Tamil Nadu: 01 Mentor Each (3.22%)

SOM

Total Industry Mentors: 09
From Vadodara: 09 Mentors (100%)

76 Industry Mentors

Glimpses of Few Students Project

School of Technology (SoT)

✓ Navigation System for Visually Impaired People
✓ AI Based Plant Disease Detection (FarmDoc)
✓ Water Float Solar Power Panels with Sun Position Tracing
✓ Utilization of Organic Waste into Bioenergy and Manure
✓ Sustainable Plastic: An Evolved Approach

School of Science (SoS)

✓ Protection of Materials from the Corrosion
✓ Development of Natural Waste Absorbent for Sanitary Napkins
✓ Current Lithium-Ion Battery Technology in Electrical Vehicles and Future Challenges
✓ Formation of Fertilizer from Atmospheric CO_2
✓ Breast Cancer and SNPs in Indian Population (Biomarker Selection)

School of Management (SoM)

✓ E-cycling for College Campus
✓ During Covid consumer preferences towards the purchasing goods
✓ Launching of E-rickshaw with solar panel in Baroda
✓ Foodprint of Covid-19 on education sector

INTERNATIONAL WEBINAR

1 **Plant Tissue Culture & Biotechnology: Current Trends & Future Perspectives**

1500+
Participants

40+
Countries

21
Expert Talks

2 **Computational Biology: "Genomic Analysis of SARS-CoV-2"**

EXPERT SPEAKERS

Dr. Cristian R. Munteanu
IKERDATA & University
of a Coruna, Spain

Dr. Nidia Sequeira Trovao
Fogarty International Center,
NIH, USA

STUDENTS MANAGED CLUBS

Vibrant Pot - Celebrating zeal and zest

With an objective of providing the learning platform outside the classroom, GSFC University encourages Students' Managed (SM) Clubs. SM Clubs promotes the culture of active participative learning and provides a firm platform to the students for sharing their innovative ideas. The SM Clubs help to gain invaluable leadership as well as life skills. In addition to connecting you with other students who have similar interests, SM Clubs are a platform for students to interact with peer learners and professionals in their fields of interest. Club enables the individual to build formal and informal networks while exploring career opportunities. Various clubs includes activities that promote social responsibility, civic engagement, industrial understanding, projects management, meticulous documentation and project execution with a purpose to train and develop human capital. The concept of initiating Students Managed Clubs (SMC) is an integral part of GSFC University to encourage active participation of students and thereby promote healthy competition.

Aarogyam
Club

Adventure
Club

Biotechnology
Club

Business
Management
Club

Community
Services Club

Cultural
Club

Civil Modelling
Club

CODE Club

Debate &
Elocution Club

Environment
Club

Event Management
Club

Indian
Heritage Club

Mathematics
Club

Photography
Club

Sports Club

The Virtual Stage - Cultural Club

The Environment Day Celebration - by G Force

The International Yoga Day Celebration - Aarogyam Club

Green Tagging - G Force

SPORTS INFRASTRUCTURE

The GSFC University offers a range of sports infrastructure such as well maintained playgrounds & field, swimming pools, sports equipment, gymnasium, badminton courts, cricket & football grounds including a golf course.

Students can avail the following sports facilities without any extra cost:

Sr. No	Game	Play grounds/Facilities
1	Golf	1
2	Swimming pool	1
3	Cricket	1
4	Volleyball	2
5	Lawn Tennis	2
6	Table tennis	4
7	Badminton Court	2
8	Football	1

DRIVING FORCE

Lush & green campus with an eco-friendly environment and huge flora and fauna.

University is nurtured and supported by GSFC LIMITED that encourages its growth.

Interactive and smart classrooms with outstanding facilities.

Well-equipped labs with modern state-of-the-art facilities.

Highly qualified and experienced faculties.

Well-furnished hostels with 24*7 library facilities.

Sewerage water treatment plants that recycle water for further use.

Proper Vehicle parking planning with security at every entrance and exit

The huge cricket ground and sports courts for almost every game on the campus.

STUDENT ACHIEVEMENTS

School of Technology (SOT)

Student Name	Program	Achievement
Pujan Soni & Kshitij Joshi	Computer Science Enginerring	"IoT-Based Unique Air and Noise Pollution Monitoring System" Book chapter publication in International Journal (Springer)
Harita Popat	Computer Science Enginerring	Secured 2nd rank in institutional level event "Funn2sh"
Kunj Patel	Chemical Engineering	Secured 2nd rank in national level event "Web-quizophile Competition"
Himalay Prajapati	Chemical Engineering	Winner in Institute level event "Businessgenix logo Making Competition"
Nehang Joshi	Mechanical Engineering	Secured final position in institute level competition in "Design -o- mania & Gizmo"

Technical Quiz Competition

School of Science (SOS)

Student Name	Program	Achievement
Ms. Subhiksha	M.Sc. - Biotechnology	1) 2nd Prize for Essay writing competition on Biotechnology 2) 1st Prize for Slogan and Poster making competition on road safety
Padmini Kendrekar	B.Sc. - Biotechnology	1) Qualified IIT JAM with All India Ranking 575 2) Cleared GATE

Heth Patel SYBBA, secured 2nd position with a cash prize of Rs 1000/- in yuvabizz business idea competition, conducted by Yuvalay, Vadodara on July 4, 2021

Viraj Patel - BTech CSE 1st year won the first prize in national level poster making competition - art-a-thon.

Patel Veera from BTech Chemical 2nd year won the 1st runners up in national level poster making competition - art-a-thon.

Bhakti Mistry - won 2nd runners up in national level poster making competition - art-a-thon.

FACULTY ACHIEVEMENTS

- Reviewer of many National and International Journals.
- Delivered expert lectures at various institutions and universities.
- Invited as experts in various workshops.
- Book Publications.
- Received Industrial project funding.
- Filed Patents.
- Delivered webinars on various platforms.
- Project submitted to various state and national funding bodies.
- Publications in various national and international journals.
- Presentations in various conferences and seminars.

Dr. Akhilesh Prajapati

GSBTM-DST funded research project entitled " Characterization of breast cancer stem cells and exploring miRNAs as therapeutic potential to induce breast cancer stem cell death" (principal investigator)

Sanctioned amount- 43 lacs INR

Year of the project sanction- 2021

Received prestigious Indian National Science Academy (INSA) visiting

Scientist Fellowship Award, 2021

INTERNATIONAL YOGA DAY

WORLD YOGA DAY - June 21, 2021

Yoga Day is celebrated across the globe to highlight the importance of Yoga and how it has been beneficial in keeping the body and mind in sound health. In these baffling times of Covid-19 pandemic, maintaining health is the utmost concern and yoga has proved to be a great tool for respiratory health and immunity. Keeping that in view, Aarogyam Club of GSFC University has organized a virtual session with a theme of "Yoga for Immunity" to celebrate the International Yoga Day.

It is a privilege for me to introduce our esteemed guest, a certified yoga instructor Ms. Ila Katwala,

She has an MSc degree in Yoga and has been a Yoga instructor for the past 7 years.. Ms. Ila is a trained instructor in parental yoga, naturopathy and other diseases related yoga. She conducts Yoga awareness programs in various schools and Engineering institutes. She has also conducted a workshop for the staff members of ITMU- Vadodara, Nr. Jarod. She also trains students for yoga performance.

Aarogyam club of GSFC University celebrating
"International Yoga Day"
on 21st June 2021

Theme: Yoga for Immunity
Yoga Instructor: Ilaben Katwala
Platform: Zoom
Time: 8:00 am to 9:00 am

GENDER SENSITIVE CULTURE

GSFC University is committed to developing an environment free from gender-based discrimination and harassment, including sexual assault and all other forms of gender-based misconduct. The University conducts regular sensitization programs to increase awareness regarding gender-based discrimination as well as misconduct. The University intends to support students who face or experience such discrimination or misconduct through conducting inquiries and by diligently investigating reports of such misconduct.

THE DIVERSITY - GSFC UNIVERSITY BAND

GSFC University paves the path and motivates the students to venture about the new avenues of life. At every stage, the GSFCU has provided the opportunity to explore the potential talent of the students and THE DIVERSITY - an official university band is exemplary.

The Diversity is a band where the students with the musical prodigy have come together to share and exhibit their talent among others. They practice and perform various instruments and sing songs for the occasions, sometimes for enjoyment too.

This year the new band members added new flavour in the performances. The band performed live on the Republic Day and the Independence Day 2021. The band grooved the alumni meet with their diverse performances on medley of songs from 60s' era, the mash up of garba and the individual and group performances..

The band members are:

1. **Mr. Shivanshsinh Rajpurohit** - B.Tech. - CSE - Guitarist
2. **Mr. Kshitij Joshi** - B.Tech. - CSE - Drummer & Octapad Player
3. **Mr. Rudra Joshi** - B.Tech. - CSE - Guitarist
4. **Mr. Bhargav Sosa** - B.Tech. - Mechanical- Singer
5. **Mr. Rahi Patel** - B.Tech. - Mechanical - KeyBoardist
6. **Mr. Dhaivat Rakholiya** - B.Tech. - Mechanical - Singer
7. **Mr. Dhyey Gandhi** - B.Tech. - Chemical - Guitarist
8. **Mr. Prathmesh Dharmadhikari** - B.Tech. - Chemical - Tabla & Cajon Player
9. **Mr. Nalin Jayswal** - B.Tech. - CSE - Singer
10. **Ms. Varda Deshpande** - B.Tech. - CSE - Singer
11. **Ms. Ashi Chauhan** - B.Sc. - Biotechnology - Singer
12. **Ms. Isha Deodhar** - B.Sc. - Biotechnology - Singer
13. **Mr. Niral Chhaya** - B.Tech. - Chemical - Singer
14. **Mr. Manan Patel** - B.Tech. - Mechanical - Tabla Player

SCIENCE VIEW MAGAZINE

GSFC University aims overall development of students and encouraging them to be unique quality holder with excellent academic records. By launching the Science View magazine, GSFC University serves an exclusive platform to students to showcase their skills and knowledge of various branches of science as well as technology. This type of initiative also helps them to develop distinctive approach towards learning.

 Science View magazine is a Bi-annual magazine published by the School of Science, GSFC University. It is a theme-Based e-magazine in which an entire issue of the magazine is developed based on some specific theme which is decided by the Editorial team members of the Science View Magazine comprising students as well as Faculty members. Theme of the e-Magazine reflects what are the current challenges and/or opportunities in the field of science and technology. It is a magazine wherein students as well as Faculty members are invited to contribute by submitting their thoughts, ideas or opinions in form of articles.

So far, three issues of the magazine are published and available on the website of the GSFC University.

Issue 1 (2019)   **Issue 2 (2019-20)**   **Issue 3 (2020)**

Issue 4 (2021)   **Issue 5 (2021)**

EVENTIA - A BIMONTHLY GSFCU NEWSLETTER

Eventia – a bimonthly newsletter is the digital newsletter of the university that is aimed to provide glimpses of the activities done by the students of GSFCU. The newsletter highlights not only in-house achievements of the students but also the external accomplishments. The newsletter has special columns by the expert teachers just like Environmental Canthus, Knowledge Concavity, Finvest Chronicle, and Lesson to Learn to name a few. The following are the links of the issues so far:

May - June 2021	March - April 2021	January - February 2021

November - December 2020	September - October 2020	July - August 2020

April - June 2020	February - March 2020	December - January 2019-20

ONTI 20 and ONEI 20

Business, Government, Community across the globe bore the brunt of the upshot of the corona-crisis. Academic Institutions and Universities appear susceptible to disruption as "business" operations have always been found convenient and comfortable in on-campus knowledge transmission. The disruption was sure to result in a deficiency in teaching, and conducting the exam. There was no such pressure felt in the past for a compelling move to an arena of technology-empowered with an internet-enabled domain of service delivery.

GSFCU promptly recognized during mid-March that sudden closure of the campus might lead to a paralytic situation where students are deprived of their academics when they are on their mid-way to complete the academic year, and teachers are losing time to complete the course work. It was decided that such a circumstance should not result in scholastic deficiency appearing as silhouette of academic delinquency. It was time to embrace the NEW NORMAL. GSFC U started with Online Teaching Initiatives (ONTI-20) and Online Exam Initiative (ONEI-20) to maintain academic continuity.

Although GSFC University was the first in the state to shift its academics online many other universities followed suit.

VICHAR VIMARSH

"Vichar - Vimarsh" is a discussion forum for Faculty and Staff at GSFC University. This forum is an opportunity for GSFC University and Staff to engage in discussions concerning challenges in the classroom, best practices in teaching, pedagogical innovations and emergent technologies that facilitate learning specifically issues relevant to Education 4.0.

Goals:

- Foster a scholarly teaching community to provide pedagogical support and suggestions to enhance teaching and learning.
- Connect faculty to facilitate the collaborative development of effective instructional resources.
- Promote quality teaching through the exchange of best practices and emergent technologies relevant to effective pedagogy for Education 4.0.
- Administration and IT plays a pivotal role in smooth functioning of academics and it is imperative they are a part of this forum. Their suggestions on how to best utilize the facilities available and how to optimize resources to ensure a better implementation of E4.0 @ GSFC-U.

PINUPS - PRESIDENT'S INITIATIVE FOR NURTURING UNLIMITED POTENTIALS OF STUDENTS

The students have immense potentialities to perform, but, due to various reasons, such as, social, cultural, and psychological, students are unable to bring out their potentials, and their performance remains unexploited. Hence, they require various support services from instructions to incentives. Universities need to become innovative in order to transform the students' persona in a way that when they are graduated, turn out to be confident, committed individuals by which the nation gets citizens who can contribute for the development and growth of the society.

GSFC University envisioned their students industry-ready and employable with holistic development following a student-centric approach.

Therefore, it requires a special initiative whereby at least 5% of the brightest students of the University can be guided, supported and mentored with special activities so that they become distinct in their identity to make a mark in the real-life world.

PINUPS is such a novel initiative which has

Objective:

The objectives of the initiative are:

- To groom the bright students for a better career and life.
- To evolve practices for providing support to the students to enhance academically.
- To guide students in exploring better alternatives for career building.
- To provide effective mentorship for refining the personalities of the students.
- To help the students by nurturing their unlimited potentials for a better outcome.
- To strengthen the students' knowledge base by offering additional academic inputs.
- To help the students by bridging the skill-gap with extra activities.
- To offer activities in order to develop a positive outlook and attitude towards the world.
- To instil the values of life in order to make the students better human beings.
- To enhance overall competence, capability and confidence for taking up challenges of life.

MODULE 1 - Mentors and Mentorship – preparing perspective

MODULE 2 - Developing Professional Approach to Mentoring

MODULE 3 - Communication Skills for Effective Mentoring

MODULE 4 - Socio-Intellectual Development

Workshop I – 6th March 2021

The first workshop has been conducted on 6th March 2021. A morning session has been conducted by Dr. Dhvani Patel on 'Mentoring the Mentors' where she discussed goal setting and how to create a concern and love for education & commitment for the self & society from 10.00 am till 1.00 pm.

The afternoon session has been conducted by Prof. Pushpanathan who shared his expertise on 'Developing Professional Approach to Mentoring'. He discussed mentoring style, SWOT analysis & conflict resolution with 4Cs collaboration, communication, creativity & critical thinking from 2.00 pm till 5.00 pm.

Workshop II – 21st August 2021

The Second workshop on mentoring has been conducted on 21st August 2021. A morning session has been conducted by Dr. Rajendra Singh Jadeja on 'Communication Skills for effective Mentoring' where he discussed what communication is and what is mentoring and what interconnectivity is. He also discussed the components of effective mentoring. Ms. Sneha Bajaj assisted him in the session which started from 10 am till 1.00 pm.

The afternoon session has been conducted by Dr. Ramesh Kothari who shared his expertise on 'Socio-Intellectual Development'. He discussed how mentoring can help society, what are the characteristics of a good mentor and how creative a mentor can be. Dr. Rupesh Patel and Ms. Ankita Patel assisted him during the session from 2.00 pm till 5.00 pm.

The entire process of mentorship should be well monitored so that the entire initiative gives the benefits to the students maximally. Meritorious students may be appointed as Academic Associates to leverage their strength for enhancing the academic calibre of other students through peer-learning. The main goals as a mentor are to provide personal guidance, encouragement, and emotional support to students. A mentor can only guide and support a student if he/she has a strong relationship based upon mutual trust and respect. Mentors build close relationships with their students by meeting with them on a regular basis; this provides students with a feeling of stability. A mentor, by showing up on time, acknowledging the mentee's thoughts and worries, listening to his or her issues, being honest, and consistently showing that the mentor cares, a student can become a strong, and good human being. Such a process will help to elevate the academic performance of students and to enable developing holistic personalities.

CORPORATE SOCIAL RESPONSIBILITY (CSR) CONTRIBUTION FROM VARIOUS ORGANISATIONS

Gujarat Green Revolution Company Ltd. (GGRC)
75.82 Lakhs

Gujarat Industrial Development Corporation (GIDC)
25 Lakhs

Gujarat Alkalies and Chemicals Ltd. (GACL)
1.38 Crore

Gujarat Industries Power Company Ltd. (GIPCL)
50 Lakhs

GSFC Agrotech Ltd.
9.59 Lakhs

Airports Authority of India (AAI)
30 Lakhs

Indian Potash Ltd. (IPL)
39.11 Lakhs

Department of Science & Technology
1 Crore*

*Rs. 50 Lakhs towards Super Computer & Design Lab and Rs. 50 lakhs towards as a financial assistance for the project on IT specialized courses in emerging technology aggregating to Rs. 1 crore

GLIMPSES OF
GSFC UNIVERSITY