

**Chancellor - Shri Ashwini Vaishnaw (Hon. Minister of Railways, Communication and Electronics & Information Technology, Govt. of India)**

**Vice-Chancellor- Prof. Manoj Choudhary**

## **VISION**

Innovation-led, Industry-driven University for creating, assimilating and imparting excellence of knowledge and actions accelerating development in the transport and logistics sectors.

## **MISSION**

- “Best in the world” futuristic education and research built on credibility, rigor and relevance.
- Effective collaboration with industry and stakeholders for GSV to be the “focal point” of the transport and logistics ecosystem.
- Imbibe and internalize professional work ethics and culture to foster lifelong learning paradigms for a developed India.

## **VALUES**

GSV will uphold the values of academic excellence, nation building, compassion and environmental responsibility.

- Commitment to innovation and academic excellence: Challenge the status quo through innovation, curiosity and critical thinking to provide indigenous solutions for Indian problems.
- Compassion towards all individuals and society: Uphold a sense of fairness and equity for all members of society, leading by example and helping others succeed; be committed to self-discovery and purpose.
- Responsibility towards the environment: Be open to ideas and have empathy towards the environment and the planet, implementing ideas with environmental sustainability in mind.

## **ABOUT GSV**

Gati Shakti Vishwavidyalaya (GSV), India's first University in Transportation and Logistics sector, was established through the Central Universities (Amendment) Act 2022, passed by the Parliament in August 2022. Working under the Ministry of Railways (Govt. of India), the University was operationalised on 6<sup>th</sup> December 2022.

The University stands by its unique value proposition to offer logistics and transportation-focused applied education, training, skilling and research through experiential learning, multi-disciplinary research, and academia-industry interface. The Institute follows a demand-driven curriculum, while aligning with industry priorities.

GSV intends to lead the teaching, training and research in the logistics sector with a vision – “Innovation-led, Industry-driven University for creating, assimilating and imparting excellence of knowledge and actions accelerating development in the transport and logistics sectors”.

GSV executes the various academic activities:

## **Programs at GSV**

- B.Tech. in Mechanical Engineering (Specialisation: Rail Engineering)
- B.Tech. in Civil Engineering (Specialisation: Rail Engineering)
- B.Tech. in Electronics & Communication Engineering (Specialisation: Rail Engineering)
- B.Tech. in Electrical Engineering (Specialisation: Rail Engineering)
- B.Tech. in Artificial Intelligence and Data Science (Specialization: Transportation and Logistics)
- MBA (Logistics and Supply Chain Management)
- BBA (Transportation Management)
- B.Sc. (Transportation Technology)

GSV intends to include several programs for the working professionals from Academic Year 2024-2025, while expanding its academic portfolio to include additional sectors for transportation such as aviation and shipping.

GSV shall continuously offer executive training programs for the officers of Indian Railways (both probationary and serving officers). Further, it shall conduct a wide array of short term executive training programs of relevance to the entire transportation sector.

## **Board of Studies**

Subject to the overall control and supervision of the Academic Council, the functions of the Board of Studies shall be to approve subjects for research for various degrees and other requirements of research degrees and to recommend to the concerned school; which inter-alia include,

- Courses of studies and appointment of examiners for courses, but excluding research degrees;
- Appointment of supervisors for research; and
- Measures for the improvement of the standard of teaching and research

The following Boards of Studies have been constituted.

## **MECHANICAL ENGINEERING**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Prof. Edwin Raj, Professor
- Member | Dr. Venkat Chintala, Associate Professor
- Member | Dr. Ram Krishna Upadhyay, Assistant Professor
- External Academic Expert | Prof. U. S. Dixit, Dept of ME, IIT Guwahati
- External Industry Expert | Mr. Rakesh G.A, Train Development Director (India), Rolling Stock and Components, Alstom Transport India

## **ELECTRICAL ENGINEERING**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Dr. Prasiddh Trivedi, Assistant Professor
- Member | Dr. Siva Rama Krishna Madeti, Assistant Professor
- Member | Dr. Pramila, Assistant Professor
- External Academic Expert | Prof. Deepak Fulwani, Dept of EE, IIT Jodhpur
- External Academic Expert | Prof. Deepa Venkitesh, Dept of EE, IIT Madras
- External Academic Expert | Prof. Y N Singh, Dept of EE, IIT Kanpur
- External Industry Expert | Shri O P Kesari, Former PED/RDSO

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Dr. Abhilasha Saksena, Assistant Professor
- Member | Dr. Anshika Srivastava, Assistant Professor
- Member | Dr. K. D. Shukla, Assistant Professor
- External Academic Expert | Prof. Vipul Singh, Dept of EE, IIT Indore
- External Industry Expert | Mr. Lalit Mansukhani, Railway Signalling and Telecom Expert, Indian Railways
- External Industry Expert | Dr. Satya Gupta, President, VLSI Society of India
- External Industry Expert | Dr. Manish Goel, Vice President and Head of CMOS Image Sensor and LSI at Samsung Semiconductor India Research.

## **CIVIL ENGINEERING**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Dr. Pradeep, Assistant Professor
- Member | Dr. Hari Krishna Gaddam, Assistant Professor
- External Academic Expert | Prof. S. Suriya Prakash, Dept of CE, IITH
- External Academic Expert | Prof. B. R. Chahar, Dept of CE, IIT Delhi
- External Academic Expert | Prof. Urmila Brighu, Dept of CE, MNIT Jaipur
- External Industry Expert | Mr. S.C. Gupta, Head-Engineering Design Research Centre, L&T Delhi
- External Industry Expert | Mr. Milind Nirmal, ED Asia Pacific, DB Engg. & Consulting

## **ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Dr. Vipul Kumar Mishra, Assistant Professor
- Member | Dr. Shweta Sharan, Assistant Professor
- Member | Dr. Sumit Kumar, Assistant Professor
- External Academic Expert | Prof. Richa Singh, Dept of CSE, IIT Jodhpur
- External Industry Expert | Dr. Atul Kumar, Sr Research Scientist & Manager, IBM Research; Chair ACM SIGSOFT India (iSoft)
- External Industry Expert | Dr. Sharad Sharma, GM, RCIL
- External Industry Expert | Mr. Kapil Soni Director, AI Software, Qualcomm

## **AVIATION ENGINEERING**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Dr. Praveen C, Assistant Professor
- Member | Dr. Bharat Bhushan Sharma, Assistant Professor
- Member | Dr. Ravi Kumar K N, Assistant Professor
- External Academic Expert | Prof. Mangal Kothari, Dept of AE, IIT Kanpur
- External Industry Expert | Mr. Dhruv Rebbapragada, Regional Safety Director- Airbus: South Asia
- External Industry Expert | Mr. Jitu Sawale, Senior Manager (Design), HAL
- External Industry Expert | Mr. Thomas Prakash Moparthy, Senior Manager Wing & Empennage, HAL
- External Industry Expert | Mr. Subash Samuthirapandian, Scrum Master, Honeywell Technology Solutions

## **MANAGEMENT**

- Chairperson | Prof. Jitesh J. Thakkar, Dean (Academics)
- Member | Dr. Sumit Kumar, Assistant Professor
- Member | Dr. Kuldeep Singh, Assistant Professor
- External Academic Expert | Prof. Anil Kumar Agrawal, Eminent Professor
- External Academic Expert | Prof. Saswata Narayan Biswas, IRMA
- External Academic Expert | Prof. Kamal Kishore Sharma, Professor of Practice, IIMK
- External Industry Expert | Prof. Kumar V Pratap, Former Principal Economic Advisor, DPIIT
- External Industry Expert | Mr. Arun Arora, Director, Chetak Logistics, Mevyn and Chetak Foundation
- External Industry Expert | Mr. Samir J. Shah, JBS Group of Companies, Ahmedabad
- External Industry Expert | Mr. Sunil Prasad, Head – Aerospace & Rail, L&T Technology Services (LTTS)
- External Industry Expert | Dr. Ajay Shanker Singh, ICAS, Ministry of I&B, Govt of India

## **ACADEMIC ORGANIZATION**

With an objective to (a) deliver unique curriculum for national mandate; (b) develop and adopt advanced Tech & best practices; (c) technology testbed in partnership with industry, GSV is organized into two Schools and two Centers as below:

### **Schools**

- School of Technology
- School of Management

### **Centres**

- Center for Executive & Continuing Education: Organize short term programs for working professional, IRMS probationers and serving officers.
- Center for Policy: Bring Ecosystem together for policy level inputs and execution.

## **COMMITTEES**

The University has constituted various other committees for smooth functioning and regulatory compliance. These committees are as follows:

## **PLACEMENTS**

The Career Development Cell of the University organized the campus placements of the students who graduated in 2024. In order to facilitate the students, GSV arranged mock interview sessions, programming workshops etc. Approximately 65 companies, including the Railway PSUs, participated in the campus placement process. Of the total of 239 students who graduated in 2024, 80.57 % students, who opted for campus placement, were placed. Some of the students opted out of the placement process for pursuing higher studies/entrepreneurships. Following is the detailed account of the Placements for the 2023-24 batch students.

MBA (LSCM) - 100.00% placements

B.Tech (Civil) - 91.89% placements

B.Tech (ECE) - 76.92% placements

BBA (TM) - 68.57% placements

B.SC (TT) - 50.00% placements

Overall placement percentage - 80.57%

## **List of Companies visited campus for placements in 2023-24**

- DFCCIL
- Cogoport
- Wabtec Corporation
- Empezar Global Marine
- Services Pvt. Ltd.
- Alstom
- PlanetSpark
- Om Logistics
- Gateway Distriparks
- Sahaj AI Software Solutions
- Systra India
- L&T Technology Services
- IRC Group
- Mileage Logistics
- RTB Demand
- TCS BPS Hiring
- DHL Supply Chain
- India Pvt. Ltd
- Flipkart (SCCP)
- Ralson Tyres Limited
- Bank of America
- Seashell Logistics Pvt Ltd
- GarudaUAV Soft Solution Pvt Ltd
- LEA Associates South
- Asia Pvt Ltd
- TCI Group
- Chetak Logistics Ltd
- Megha Engineering and
- Infrastructure Ltd
- TATA Projects
- Siemens Limited
- Bhaskram Jyotish Anusandhan
- Kendra Pvt. Ltd.
- Aarvee Associates
- DP World
- Shree Cement Limited
- JM Baxi Group
- Tata Consulting Engineers
- Control Infotech Pvt. Ltd. (DigiRail)
- Nippon Koei
- India Pvt Ltd
- Onwayy Cargo Pvt. Ltd.
- TCS MBA Hiring
- VE Commercial
- Vehicles Ltd
- Aquatic Freights Pvt Ltd
- Legrand India
- DB RRTS Operations
- Private Limited

- Log Hub
- Kintetsu World Express
- Jaro Education
- ProcMart
- Deepak Group
- EdgeQ
- Nuvoco Group
- Chelson Gordon
- Consultancy
- Reliance Retail
- Capricorn Logistics
- Climate Policy Initiative
- American Express
- Vardhman
- Envirotech
- AIMIL Ltd
- Transworld Terminals
- Pvt Ltd
- Homefirst Finance
- Company
- Fogtec Fire Protection
- Pvt Ltd
- Gati KWE
- eInfochips
- MyCaptain
- DB Engineering & Consulting GmbH
- Shree Balaji Shipping & Projects Pvt Ltd
- Balaji Railroad Systems Pvt Ltd
- Piramal Finance
- Cosco Shipping Lines (India) Pvt Ltd
- Plusnet Communication Pvt. Ltd.
- Palsun Maritime (India) Limited
- Fortune Inc
- UltraTech Cement
- Matchlog Solutions Pvt Ltd
- Geo Designs and Research Pvt Ltd
- RSA Global
- Larsen & Toubro Limited
- Efftronics Systems Pvt Ltd
- A.Paul Software Systems Pvt Ltd
- Sannverse Railtech Pvt Ltd
- Roima Intelligence India
- e2E Rail
- GoComet
- TCS NQT
- Indicold Private Limited
- Fidrox Technologies
- NimbusPost Pvt Ltd
- Vinsum Axpress India
- Pvt Ltd
- Team Global Logistics Pvt. Ltd

- Patil Group
- Yusen Logistics
- Scorpion Express Pvt. Ltd.
- Prologis Freight India Private Limited
- TVS Supply Chain Solutions
- Jindal Stainless Limited
- Luminous Power Technology
- Airtel
- Plasser India
- Jubilant FoodWorks Ltd
- Mitsogo Technology
- Avadh Rail Infra Ltd
- Gxpress Solutions Pvt Ltd
- Ayesa
- Aquint Infratele India Pvt Ltd
- Century Plyboards
- India Ltd
- Safexpress Pvt. Ltd.
- HBL Power Systems Pvt Ltd
- AAJ Enterprises
- Rail Labs
- National Engineering Ind.
- Ltd (NBC Bearings)
- Saini Electricals & Engineering Works
- Medha Servo Drives Pvt Ltd
- Total Movements Pvt Ltd
- Arista Networks
- OMIIA Consulting
- Suyog Electricals Limited

## FACULTY AND ADMINISTRATION

### Regular Faculty

As a result of the faculty recruitment conducted during Oct-Nov 2023, a total of 14 faculty members joined GSV since January 2024, taking the total regular faculty count to 26. We have also hired a Professor of Practice/Eminent Professor. Th list of regular faculty at GSV is:

- Prof. Jitesh J. Thakkar | Professor & Dean Academics, GSV | PhD – IIT Delhi
- Prof. Chandi Prasad Nanda | Professor, GSV | Humanities, Arts and Social Sciences | PhD, JNU
- Prof. R. EDWIN RAJ | Professor & Dean (Students' Welfare), GSV | PhD, IIT Roorkee
- Mr. Anil Kumar Lahoti | Distinguished Visiting Professor (Will be joining shortly) | Ex-CRB & CEO, Railway Board
- Mr. Pradeep Kumar Garg | DEAN EXECUTIVE & CONTINUING EDUCATION | Ex-Indian Railway Service of Engineers (IRSE) Officer
- Dr. Pawan Kumar Agarwal | Distinguished Visiting Professor, GSV
- Dr. Venkateshwari Chintala | Associate Professor, GSV | PhD, IIT Delhi
- Dr. Sunil Kumar Sharma | Assistant Professor, GSV | PhD, IIT Roorkee. | Post-Doctoral Fellow, C. N. University, South Korea
- Dr. Ram Krishna Upadhyay | Assistant Professor, GSV | PhD, IIT Dhanbad | Post-Doc : IIT Kanpur
- Dr. Abhilasha Saksena | Assistant Professor, GSV | PhD, Tohoku University, Japan
- Dr. Hari Krishna Gaddam | Assistant Professor, GSV | PhD, IIT Delhi
- Dr. Pradeep | Assistant Professor, GSV | PhD, IIT Hyderabad.
- Dr. Pradeep Kumar Saroj | Assistant Professor, GSV | PhD IIT Dhanbad | Post-Doctoral Fellow, Yonsei University Seoul, South Korea
- Dr. Jyoti Sharma | Assistant Professor, GSV | PhD, University of Delhi. | Post-Doctoral Fellow, University of Texas at Dallas, U.S.A.
- Dr. Navneet Lal Sharma | Assistant Professor, GSV | PhD IIT Indore,
- Dr. Bharat Bhushan Sharma | Assistant Professor, GSV | PhD I.I.T. Roorkee
- Dr. Anshika Srivastava | Assistant Professor, GSV | PhD, Motilal Nehru National Institute of Technology Allahabad
- Dr. Prasiddh Kismatkumar Trivedi | Assistant Professor, GSV | PhD, IIT Bombay
- Dr. Siva Rama Krishna Madeti | Assistant Professor, GSV | PhD, IIT Roorkee
- Dr. Kuldeep Singh | Assistant Professor, GSV | PhD, IIIT Allahabad
- Dr. Sumit Kumar | Assistant Professor, GSV | PhD, IIT Dhanbad
- Dr. Praveen Chandradhas | Assistant Professor, GSV | PhD, Homi Bhabha National Institute, Mumbai
- Dr. Ravikumar K N | Assistant Professor, GSV | PhD, NIT Surathkal
- Dr. Dinesh Gundavaram | Assistant Professor, GSV | PhD, IIT Patna
- Dr. Vipul Kumar Mishra | Associate Professor, GSV | PhD, Indore
- Dr. Krishna Dayal Shukla | Assistant Professor, GSV | PhD, IIT Indore
- Dr. Shweta Saharan | Assistant Professor, GSV | PhD, MNIT Jaipur
- Dr. Pramila Jakhar | Assistant Professor, GSV | PhD, IIT Indore

## Visiting Faculty

The University has been engaging prominent visiting faculties preferably from Indian Railways, Industry, IITs, IIMs, and NITs to complement the regular faculties in teaching and offer domain specializations and industry focus.

- Mr. Naresh Lalwani | Ex-GM, Central Railways | Indian Railways
- Mr. O. P. Kesari | Retired Senior Professor | RDSO
- Mr. Narayan Parvatikar | Director of Training Rail Academy, Retired Signalling Engineer | Indian Railways
- Mr. Ganesh Sahay | DRM | Chennai Division (IR)
- Mr. S K Das | Retired Railway Officer, IRTS | Indian Railways
- Mr. Lalit Mansukhani | Head, COE on KAVACH | IRISSET, Secunderabad
- Dr. Amit Garg | IRSE, Principal Chief Engineer | Ministry of Railways
- Mr. R. K. Shekhwat | Senior Professor | IRICEN, Pune
- Dr. Jaideep Gupta | Dean | IRIEEN, Nashik
- Mr. Mahender Singh | Principal/ DMRA (Sr. Dy. General Manager/Operations) | Delhi Metro Rail Academy
- Mr. Ritesh Gupta | Professor/ DMRA (Dy. General Manager/ Operations) | Delhi Metro Rail Academy
- Mr. Abu Fahim | Lecturer/ DMRA | Delhi Metro Rail Academy
- Mr. Sanjiv Garg | Secretary General | CILT India (Formerly Indian Railways)
- Mr. Hari Om Sharma | Chief rolling stock Expert | NIPPON KOEI INDIA
- Dr. Manu Kumar Gupta | Assistant Professor | IIT Roorkee
- Dr. Tarun Sharma | Assistant Professor | IIT Roorkee
- Dr. Rishman Jot Kaur Chahal | Assistant Professor | IIT Roorkee
- Dr. Pradeep Kr. Jha | Professor | IIT Roorkee
- Prof. Rajesh Sathiyamoorthy | Professor | IIT Kanpur
- Dr. Palani Iyamperumal Anand | Professor | IIT Indore
- Dr. Appina Balasubramanyam | Assistant Professor | IIT Indore
- Dr. Venkatesha Murthy | Associate Professor | IIT Jodhpur
- Dr. Nitin Bhatia | Associate Professor | IIT Jodhpur
- Dr. Sumit Kalra | Assistant Professor | IIT Jodhpur
- Dr. Sameer Kumar Sarma Pachalla | Assistant Professor | IIT Jammu
- Dr. Hasmukh Gajjar | Associate Professor | IIM Indore
- Dr. Shivam Kushwaha | Assistant Professor | IRMA
- Dr. Janak Suthar | Assistant Professor | IRMA
- Dr. Narasimha Rao Banavathu | Assistant Professor | NIT Andhra Pradesh
- Dr. K. D. Yadav | Associate Professor | SVNIT Surat
- Dr. Chetan R. Patel | Associate Professor | SVNIT Surat
- Dr. Naved Malek | Associate Professor | SVNIT Surat
- Dr. Ganesh D Kale | Assistant Professor | SVNIT Surat
- Dr. P. V. Ramana | Assistant Professor | MNIT, Jaipur
- Dr. Shridev Devji | Assistant Professor | MNIT, Jaipur
- Dr. Kamal Kishore Sharma | Prof. of Practice | IIM Kozhikode
- Prof. Mihir Das | Professor | UPES, Dehradun
- Prof. Ravindra Kumar Singh, Professor | Professor | GNLU
- Mr. Samir Shah | Consultant | JBS Academy
- Prof. Ankur Kulshrestha | Assistant Professor with 20+ years of corporate experience | Birla Institute of Management Technology
- Mr. Arun Arora | Consultant and Trainer | Director, Chetak Group

- Mr. Satish Duryodhan | Consultant & Trainer | 15 years of Industry Experience (Freelancer)
- Mr. Girish Gujar | Industry Professional | 25+ years of industry experience (Freelancer)
- Dr. Mohd. Avesh | Technical Head | Vehicle Fitness Testing Station, Dehradun
- Prof G Raghuram | Ex Director | IIM Bangalore
- Mr. Yuvrajsinh Dharmendrasinh Sindha | BIM Specialist & Trainer | Hypersoft CAD Institute, Vadodara
- Dr. Priyanka Ghosh | Yoga Trainer | Priyanka Institute of Naturopathy

## INFRASTRUCTURE

Currently, Gati Shakti Vishwavidyalaya (GSV) is sharing the campus and infrastructure with the National Academy of Indian Railways (NAIR). The Ministry of Railways have taken several steps to enable additional infrastructure usage for GSV activities within the same campus.

Further, additional construction is being carried out in the current campus including classrooms, lab facilities, auditorium and hostel facilities. The Bhumi Pujan for the new construction was performed on 1<sup>st</sup> March 2024 and the construction activities started on 15<sup>th</sup> March 2024. The construction is planned to be completed in ~30 months, to be ready for academic year 2026-27.

Ministry of Railways has already advised the Western Railways to procure additional land in the Waghdia area for developing additional independent campus for GSV.

## Laboratories

- Workshop Practices & Engineering Survey Lab
- Computer Programming - I (Python)
- Engineering Physics Lab
- Health, Wellness and Yoga
- Engineering Mechanics Lab
- Basic Electrical and Electronics Engineering Lab
- Computer Programming - II (C Language)
- Engineering Chemistry Lab
- Digital Electronics Lab
- Building Materials & Concrete Technology Lab
- Data Structures and Algorithms Lab
- Strength of Materials Laboratory
- Electronic Devices and Circuits Lab
- Strength of Materials Lab
- Material Science Lab
- Electrical Networks Analysis & Synthesis Lab
- Object Oriented Programming with JAVA Lab
- Thermo-dynamics Laboratory
- Fluid Mechanics Lab
- Strength of Materials Lab
- Surveying Lab
- Fluid Mechanics and Hydraulics Lab
- Embedded Systems Lab
- Engineering Graphics and Design Lab
- Heat Transfer Lab
- Electrical Machines 1 Lab
- Computer Organization and Architecture Lab
- Aero-dynamics Laboratory
- VLSI Design Lab
- Building Information Modelling Lab
- Metrology and Instrumentation Lab
- Electrical Machines 2 Lab
- Database Management Systems Lab
- Aircraft Structures Laboratory
- Communication Lab
- RCC Lab
- Theory of Machines Lab

- Data Structures and Algorithms Lab
- Deep Learning Lab
- Flight Training/ Flight Simulation Laboratory

GSV has setup lab blocks for the effective execution of the programs. Once, the new lab block is built-up all the equipment and machinery will be shifted to the new lab block.

## **Construction of New Academic Block, Lab Buildings and Hostels**

Vide letter dated 05.01.2023, the Ministry of Railways (Railway Board) directed RVNL to communicate with GSV and the Gati Shakti Directorate/RB about the infrastructure work of GSV including preparation of a fresh Masterplan and its execution. GSV provided the detailed infrastructural requirements for the proposed construction in Lalbaug campus vide letter dated 6<sup>th</sup> April 2023. The Bhumi Pujan for the new construction was performed on 1<sup>st</sup> March 2024 and the construction activities started on 15<sup>th</sup> March 2024.

## **SPONSORED R&D PROJECTS**

**Project:** Solar pre-heated thermochemical conversion of municipal mixed plastic waste to high quality plasto-fuels for transportation and industrial heating applications.

Funding agency: Department of Science and Technology (DST), New Delhi

Funding amount: 2.62 Crore INR

Principal Investigator: Dr. Venkat Chintala

Project Status: Ongoing

**Summary:** Thermo-Catalytic Depolymerization (TCD) plant of about 1.5 to 2 TPD plastic waste was installed at Vadodara Railway Station (BRC) Yard, Vadodara, Gujarat. The plant is flexible enough to convert all kinds of mixed plastic waste collected from municipal landfills, railway establishments including railway stations, residential communities, industries, and University campuses etc. Three products namely plasto-fuel (liquid product), plasto-gas (gaseous product), and plasto-char (solid product) are being produced from the plant. Successful trial runs were conducted with the Western Railway plastic waste (BRC) and Vadodara municipal corporation (VMC) plastic waste collected from Makarpura landfill site. The produced plasto-fuel was used in wide range of applications such as two-wheelers, agriculture engines/pump sets, electrical generator sets, Rail abrasive cutter, Agriculture pesticides sprayer machine, and other heating appliances (industrial burner), domestic air-pressure stove, domestic wick stove, etc. Employment of plasto-char for making Paver blocks, and other civil engineering applications is underway.

**Project:** Disaster Resilient Surface Transportation Infrastructure: A systems approach to managing the impact of climate change.

Funding agency: British Council, United Kingdom (UK), Govt. of UK.

Funding amount: 14.1 Lakhs INR

Principal Investigator @ India: Dr. V Chintala

Project status: Completed

**Summary:** The project was aimed for creation of common frameworks of content, quality, delivery, and assessment at global standards on the topic of disaster resilient surface transportation. All the surface transportation modes including road and rail were

covered under the project. Rail transportation infrastructure in the context of pre and post disaster aspects were addressed by the Indian partner.

### **Project: A study on the problems and conjectures in univalent function theory.**

Project Name: Core Research Grant (CRG)

Funding Agency: Science and Engineering Research Board (SERB), DST, Govt. of India

Principal Investigator (PI): Dr. Navneet Lal Sharma

Funding Amount: 20.18 Lakh INR

Status: Ongoing (From August 2022 to March 2025)

**Summary:** This proposal covers a wide range of problems in univalent function theory (UFT). The problem of estimating sharp bounds for logarithmic coefficients (LC) and successive coefficients are also an interesting problem for a function to be in the class of normalized analytic univalent functions (S). These coefficients play an important role for various estimates in the UFT. In this project, we will solve the open problems related to the logarithmic coefficients (LC) and the inverse logarithmic coefficients. Inspired by the LC, here we would give a new approach and will get Bohr inequalities for the logarithmic power series when it is in the families of close-to convex and spiral-like functions. Another aim to discuss and derive Bohr-Rogosinski's radii for standard subclasses of S which have subordination relations. Hall's conjecture is not available for many subclasses of S. Motivated by this fact, we will obtain the analogue of Hall conjecture for some special classes of S. Our aims of this project are to solve few open problems and identify new applications in different areas.

## **EXECUTIVE TRAINING PROGRAMS**

In line with the mandate accorded by the Ministry of Railways and the vision of the University, and per the Central Universities (Amendment) Act 2022 for creation of Gati Shakti Vishwavidyalaya, GSV conducted a 4-week Management Training Program for IRMS Probationers during 15th January to 9th February 2024.

Venue: IRITM Lucknow

Number of Probationers: A total of 39 IRMS probationers were trained.

Faculty: The training was imparted by GSV faculty and experts invited from the premier institutes – IITs and IIMs.

## **NEW INITIATIVES**

### **(a) Curriculum Revision and Upgradation**

The B.Tech programs for Academic Year 2023-2024 (starting August 2023) started with the new academic curriculum. The curriculum included inputs from the Ministry of Railways, Production Units of Railways and related industries. Further reviews are periodically planned through the Board of Studies.

The B.Tech courses include around 15% content related to the railway and transport related topics. Academic curriculum of each specialisation at B.Tech level includes **unique proposition through common courses:**

- Design Thinking
- Introduction to Multimodal Transportation Ecosystem
- Numerical Methods using MATLAB simulation
- Ethics in Engineering Practice
- Engineering Economics, Costing, Estimation, and Tendering
- Artificial Intelligence and Machine Learning
- Entrepreneurship and Innovation
- Logistics and Supply Chain Management
- Operations Research

The university extensively reviewed and upgraded the curriculum of MBA in Logistics and Supply Chain Management and it is enriched with courses addressing the emerging and futuristic challenges in logistics and supply chain management. Academic curriculum of MBA includes:

- Transportation System Safety and Reliability
- Freight Management
- Warehouse Design and Management
- AI&ML Principles and Applications for SCM & TM
- Terminal Management
- Transportation System Safety and Reliability
- Technologies for Transportation System
- Transportation Network Models
- Transport Infrastructure and Public-Private Partnerships
- Supply Chain Risk Management
- Railroad and Air Cargo Logistics
- Operational and Financial Aspects of Railway Freight
- Infrastructure Development and Financing
- Revenue Management

## (b) New Courses

The University is planning to introduce the following new undergraduate courses in engineering considering the demand and requirements of the industry.

### For Regular Students

B.Tech in Aviation Engineering

MBA in Ports and Shipping Logistics (Jointly with Indian Maritime University)

### For Working Professionals:

M.Tech in Intelligent Transport Systems

M.Tech in Railway Engineering

MBA (Logistics & Supply Chain Management)

MBA (Metro Rail Management)

PhD (Engineering)/PhD (Management)

The proposals are being moved to EC for enabling approval.

### **(c) Establishment of Innovation and Incubation Cell**

GSV has established an Innovation and Incubation Cell to spearhead the innovations by the students and to promote incubation cell activities in association with Industry.

- IEC started on 15<sup>th</sup> September 2023 on the auspicious occasion of Engineers Day and started functioning at GSV towards start-ups and incubation activities.
- GSV has registered in the Ministry of Education Innovation and Incubation Cell (IIC) portal on 8.5.24 (GSV AISHE code: U-0968).

### **Expert talk/Seminar on IPR**

Prof. Prabuddha Ganguli, Distinguished Visiting Professor of GSV conducted a seminar on IPR filing aspects on 19<sup>th</sup> Jan 2024 to expose the GSV faculty and students on the IPR filing aspects, do's and don'ts. Total 185 students and 18 faculty members got benefited out of the program.

As a follow-up and to pursue patent activities across the Indian Railways, conducted workshop with ICF-Chennai and identified 15 patentable matters related to Vande Bharat.

## **COLLABORATIONS**

The University has collaborated and signed MOUs with the following Academic Institutions and Industries to align with its core values of being Innovation-led and Industry-driven and to foster steadfast partnerships and collaborations.

- AIRBUS – 7<sup>th</sup> September 2023
- Nippon Koei – 12<sup>th</sup> January 2024
- Karmayogi Bharat – 14<sup>th</sup> February 2024
- DPIIT – 4<sup>th</sup> October 2023
- Delhi Metro Rail Corporation – 15<sup>th</sup> Feb 2024
- IIT Gandhinagar – 5<sup>th</sup> August 2023
- IIM Mumbai – 28<sup>th</sup> September 2023
- IMU – 17<sup>th</sup> October 2023
- IIT Jodhpur – 2<sup>nd</sup> August 2023
- BITS Pilani – 6<sup>th</sup> Jan 2024

## **FINANCIAL AID/SCHOLARSHIPS**

### **(a) Financial Aid by GSV**

GSV offers Financial Aid to the needy and meritorious students (upto 20% of the student population is covered under this scheme) under two income slabs: (i) income up to Rs. 1.0 Lacs and (ii) income between 1.0 to 3.0 Lacs. The students qualifying for financial aid under slab-I are given the aid equal to 100% of the tuition fee and 50% of the hostel fee and under slab-II, the students get 50% of the tuition fee and 25% of hostel fee. The hostel fee rebate is applicable to the undergraduate students only.

The University granted the financial aid to 130 students amounting Rs. 1,58,20,480/- during the academic year 2023-24 as per the details given below:

### **(b) Scholarship (Funded by External Agencies)**

The University is engaging with external funding agencies (e.g. industries extending corporate social responsibility) for additional scholarships to benefit the students. One such scholarship is Siemens Scholarship for Female Students, for all eligible female students possessing the merit and needs. For the year 2023-2024, 4 students of GSV qualified for Siemens Scholarship. Similarly, Chetak Jai Krishna Girls Scholarship from the Chetak Foundation, New Delhi, is extending the financial support for one female student.

## **STUDENTS' ACTIVITIES DURING AY 2023-24**

GSV organized various curricular/co-curricular/sports/cultural events for the students during the year.

### **(a) EPITOME 2024**

The Annual Tech-Fest EPITOME-2024 of India's first-ever transportation university was held on 2-3 March 2024. It is poised to be a transformative initiative at the crossroads of academia and the dynamic transport industry. It features various competitions, seminars, and diverse activities to serve as a catalyst for innovation and collaborative learning. Through strategic collaboration with key players in the transportation infrastructure, logistics, and supply chain management sector, Tech-Fest provides participants with practical insights into real-world industry challenges, fostering a holistic understanding of the sector's dynamics. This strategic partnership enhances the depth of discussions. It ensures that the event is deeply rooted in solving real-world challenges and exploring opportunities in the transportation sector.

Guest/Speaker:

- Mr. Laurie Alder (Head of Customer Services, Airbus India & South Asia)
- Mr. E. Srinivas (Joint Secretary, DPIIT, Govt. of India)
- Mr. Madhvendra Singh (CEO at Gujarat Maritime Cluster)
- Mr. H. L. Suthar (PED, Track & Design, NCSRCL)
- Mr. Avadesh Singh (Executive Director, LEA Associates)
- Prof. Nalinaksh Vyas, IIT Kanpur (Former Chairman - Technology Mission for Indian Railways (TMIR))
- Mr. Ghansham Bansal (Dean, Delhi Metro Rail Academy)
- Mr. Manoj Yadava (DG-RPF)
- Prof. Chetan Vaidya (Ex-Director, School of Planning and Architecture (SPA) New Delhi)

- Mr. Mohit Sinha (Former DG/HR, Railway Board)
- Mr. Anand Bhardwaj (Train System, India Head, Alstom)
- Dr. Pawan Kumar Agarwal (Former Special Secretary - Logistics, Distinguished Visiting Professor, GSV)
- Mr. Samir J. Shah (JBS Group of Companies, Ahmedabad)
- Mr. Sourajit Mukherjee (Director & Chief Executive Officer, e2E Rail)
- Ms. Zaiba Sarang (Co-Founder, iThink Logistics)
- Ms. Rashi Jain (GadiGoda Startup)
- Dr. Pawan Duggal (Senior Advocate, Supreme Court)

## **(b) AUJASYA 2024 - Sports fest**

Aujasya, the annual sports event of GSV, was held between 20-28th January 2024. It gave students a chance to showcase their competitive spirit and athletic talents and create unforgettable memories. The event was filled with excitement. Students enthusiastically participated, making Aujasya 2024 a memorable event.

- Team events: Cricket, Football, Volleyball, Basketball, Handball and Kabaddi
- Individual events: Badminton, Table tennis, throw ball, Athletics, Short put, discus throw, Long jump, 5 km Marathon, 1500 m run, 800 m run, etc.

## **(c) AGNEE 2023: Cultural Event**

After becoming a central university, the first cultural festival, Agnee-2023, was organized on 18th November 2023. GSV has students from almost every state of our country, and they bring their unique cultural diversity to create synergy in diversity. It is marvelous, and watching them perform their natural talents is a feast for every watching eye.

# **GSV REPRESENTATION AT MAJOR EVENTS**

GSV has marked impactful presence at various platforms providing its students as well as faculty invaluable experience through interaction with leading industries and ecosystem. At some of the events, GSV set up exhibition stalls, which attracted enthusiastic response from the attendees. Some of these are highlighted below:

## **(a) Indian Mobile Congress 2023 (26-29th October)**

IMC is a digital technologies' forum (Largest in Asia) consisting of International conferences and a technology exhibition. Students and faculty delegation were invited to IMC. Here are a few glimpses of the event.

## **(b) Vibrant Gujarat 2024 (10-12th January)**

It is a biennial investors' global business event that is held in the state of Gujarat, India. The event is aimed at bringing together business leaders, investors, corporations, thought leaders, policy and opinion makers; the summit is advertised as a platform to understand and explore business opportunities in Gujarat.

### **(c) LogiMAT 2024 (28th Feb -1st March):**

A premier platform, bringing together industry leaders, professionals, and innovators and also offers a unique opportunity to showcase the latest advancements in intralogistics, material handling, warehousing technology and infrastructure, automation and robotics, cold-chain solutions and multimodal transportation management. GSV was the Knowledge Partner.

## **CO-CURRICULAR EVENTS**

### **(a) Engineer's Day**

GSV celebrated Engineers Day on 15th September 2023 to honour the birth anniversary of Sir Mokshagundam Visvesvaraya. On this occasion, Incubation and Entrepreneurship cell of GSV was inaugurated amidst the presence of several industry leaders.

### **(b) Independence Day**

The University celebrated Independence Day with pride. The Hon'ble Vice Chancellor unfurled the national flag in the morning followed by an address to the students and staff.

### **(c) Sustainability Conclave**

Organized in collaboration with National Productivity Council

No. of Participants ~ 200

Themes:

1. Sustainability and Green Growth
2. Drone Application in Agricultural Sector
3. Industry 4.0 - Application in Agricultural Logistics
4. Green Supply Chain
5. Multimodal Transportation

Guests/Speakers:

- Dr. Rajiv Ranjan
- Mr. Rahul Kirkire
- Mr. Sagar Panchal
- Mr. Tarun Purohit
- Mr. Natarajan Pratap

### **(d) Republic Day Celebration**

The University celebrated the Republic Day with full vigour. The Hon'ble Vice Chancellor unfurled the national flag followed by an address to the students and staff. The GSV

Family undertook Viksit Bharat Sankalp Yatra on the occasion, followed by two exciting talks on “National Development and GSV”.

No. of Participants ~ 250

Guest Speakers:

- Smt. Ranjan Bhatt
- Mr. Anil Kumar Lahoti
- Maj. Gen. Neeraj Vashney

## CONVOCATION

The First Convocation of GSV was held on 6th December 2023 at Sir Sayajirao Nagar Gruh. A total of 380 students of the graduating batches of 2023 and 2022 were conferred their respective degrees.

**Chief Guest:** Smt. Jaya Varma Sinha (Chairperson & CEO, Railway Board)

**Guest of Honor:**

- Dr. Tessy Thomas (Distinguished Scientist, DRDO)
- Prof. Partha Pratim Chakrabarti (Former Director, IIT Kharagpur)

## **RECOGNITIONS FOR GSV**

GSV was recognised at national level for its industry-academia interface and fostering significant partnerships, thus reinforcing its “industry-driven” approach, by the “Economic Times” and the “World Education Summit 2024.”

## **Clubs at GSV:**

- **Technocrats**
- **Media & Tech Club**
- **Event Management Club**
- **Literary Club**
- **Nritya - Dance Club**
- **Malhaar - The Music Club**
- **AAghaz-Drama Club**
- **Sports Club**
- **Debate & Quiz Club**
- **SAE COLLEGIATE CLUB OF GSV**
- **एधार्फ - The Business Club**

# **एधार्थ - The Business Club**

In today's fast-paced world, understanding the role and significance of business in society is crucial.

Business drives innovation, creates opportunities, and enables visionaries to transform their ideas into reality. Recognizing this, एधार्थ - The Business Club of Gati Shakti Vishwavidyalaya (GSV), is dedicated to nurturing the business acumen and personal growth of students. Our focus spans diverse domains, including Entrepreneurship, Finance, Marketing, Operations, Leadership, and Interpersonal Skills, empowering students to excel both personally and professionally.

## **Core Committee:-**

- Coordinator: Parag Nema (BTech ECE TY)
- Co-Coordinator, Operations: Vinay Chaurasia (BTech ECE TY)
- Co-Coordinator, Finance: Balasaheb Sabne (BTech ECE TY)
- Co-Coordinator, Public Relations: Ritikesh Tiwari (BTech CE TY)
- Co-Coordinator: Ritvika Kumar (BTech ME SY)

## **Flagship Events and Initiatives:-**

### **1. Hult Prize**

The Hult Prize competition provides GSV students a global platform to foster innovation, entrepreneurship, and real-world problem-solving. By tackling pressing global challenges, participants enhance their leadership, teamwork, and creative thinking skills, aligning with GSV's vision of producing industry-ready graduates.

We introduced the Hult Prize with an engaging induction program. Teams of 3–5 members presented innovative ideas during the semi-finals, receiving constructive feedback from judges. The competition culminated in a dynamic final round, where the winning team advanced to represent GSV globally in Bangkok, showcasing their groundbreaking idea on an international stage.

### **2. Guesstimates 2.0**

This strategic competition challenged students to solve real-world estimation problems, sharpening their analytical and quantitative skills essential for top management roles. Participants tackled complex scenarios, refining their critical thinking and decision-making abilities under pressure. Winners received exciting prizes, underscoring GSV's commitment to fostering industry-relevant expertise among students.

### **3. Intra-College Trading Competition**

Held over two days during live stock market hours, this event offered participants an immersive experience in stock trading. Students engaged in buying and selling activities, applying financial strategies in real-time market conditions. The top five performers were awarded certificates, while the highest-ranking GSV students received exclusive merchandise. This initiative enhanced participants' financial literacy and market strategy skills, preparing them for future challenges in the financial world.

### **4. Leadership & LinkedIn Sessions**

hosted transformative sessions on leadership development and optimizing LinkedIn profiles, equipping members with the tools to stand out in the competitive business landscape.

These sessions empowered students to:

- Build confidence.
- Expand their professional networks.
- Strategically position themselves for successful careers.

## **Impact of एधार्थ - The Business Club**

**एधार्थ - The Business Club has transformed students at Gati Shakti Vishwavidyalaya by fostering innovation, leadership, and practical business skills.** Through events like the Hult Prize, trading competitions, and leadership sessions, the club bridges the gap between theory and real-world application, preparing students to excel as future-ready professionals.

## **AAGHAAZ- Drama Club**

Aaghaz, the Drama Club, is a vibrant platform for creative expression that uses the art of storytelling to address social issues and inspire change. Through engaging performances, the club aims to entertain audiences while raising awareness about important topics. With a commitment to creativity and social responsibility, Aaghaz has become a significant part of the cultural landscape of Gati Shakti Vishwavidyalaya.

The core committee of the club is:

- *DIWAKAR YADAV : COORDINATOR*
- *SATYAM PATEL: CO-COORDINATOR*
- *S PRANATHI: CO-COORDINATOR FINANCE*
- *AMIT KUMAR BAGHE: CO-COORDINATOR OPERATIONS*
- *SANKALP PANDEY: CO-COORDINATOR PUBLIC RELATIONS*

In 2023, Aaghaz organized a variety of notable events, including

1. **'Nomophobia' on Engineer's Day:** A thought-provoking mime performance highlighting the dangers of mobile phone addiction
2. **'Nukkad Natak' on October 2nd:** A compelling street play that raised awareness about the harmful effects of single-use plastics and their unconscious use.
3. **Stage Play 'Kya Se Kya Hogaya' at the annual cultural fest "Agnee 23":** This captivating drama explored the challenges faced by today's youth as they navigate personal aspirations alongside parental expectations.
4. **Nukkad Natak on Food Waste:** Another street play aimed at raising awareness about the critical issue of food waste.
5. **Pre-Agnee Nukkad Natak titled 'Kaun Madari Kaun Jamoora':** This thought-provoking performance focused on narratives made in today's age to fulfill someone's agenda. Where social media, news media and political systems crucial for every social being, unfolds themselves in the narrative game with this thought-provoking Nukkad Natak.
6. **Stage Play during Agnee 24 titled 'Conversation in Transition':** This enchanting play explored the evolution of modes of conversation, where human feelings are expressed in different age in its own style.

Aaghaz remains committed to using the art of drama to foster awareness and inspire change within the community.

## **NRITYA - The Dance Club**

### **CORE MEMBERS**

1. *Anushka Rai: Coordinator*
2. *Selva Akash: Co-coordinator*
3. *Pranav Choudhary: Co- coordinator Finance*
4. *Kiranmai Barala: Co- coordinator Public Relations*
5. *Pankaj Nagar: Co- coordinator Operations*

**NRITYA**, the dance club of Gati Shakti Vishwavidyalaya has a fairly productive and versatile year of performance exhibiting the talent of artists and multicultural performances. Here's a brief of our performances.

#### **1. Engineer's Day :**

Two of our talented dancers exhibited classical dances where one was the elegance of Bharatanatyam and the other was the narration of Kathak.

#### **2. Agnee 2023 :**

This happens to be our annual cultural fest, students from different batches collaborated to display the classical, folk, and Bollywood skins which proves the cultural diversity of the club.

#### **3. Hult Prize competition :**

NRITYA provided an enthralling fusion dance of classical with Hollywood tunes that kicked off the competition.

#### **4. Epitome :**

In the celebrated tech fest of the university, our respective dancers evolved an extraordinary act by blending folk fusion and Bollywood moves where the dancers used LED lights to make the show more impressive.

#### **5. Ganesh Chaturthi :**

Students portrayed their classical and Bollywood skills devoting their performances to lord Ganesh.

#### **6. Agnee 2024 :**

Students put fire on the stage with amazing performances and fusions portraying the rich culture of various dance forms and exhibiting parts of Bollywood retro.

In the year under review, NRITYA has sustained itself as a celebration of dance as an instrument of communication and as a bridge between cultures and has left a rich legacy on the University and beyond.

## **MALHAAR: The Music Club**

### **Core Committee:**

- TANISHQ SRIVASTAVA: **Coordinator**
- ATHARVA DESAI: **Co-Coordinator**
- ANURAG TIWARI: **Co-Coordinator (Operations)**
- ANIRBAN DAS: **Co-Coordinator (Finance)**
- AYENA MARJEEYA: **Co-Coordinator (Public Relations)**

GSV Malhaar, the official music club of GSV, has had an eventful year, showcasing the musical talent and diversity of our club members across multiple college events and fests. Our performances were carefully curated to represent all types of music, including classical, Bollywood, and regional songs in various languages, celebrating the diverse backgrounds of our student body.

### **Engineers Day**

**(September 15, 2023)**

Engineers Day was celebrated with enthusiasm, where Malhaar set the tone for the evening by performing an array of uplifting and inspiring songs, honouring the spirit of innovation.

### **Antakshari - Event 2023**

**(September 19, 2023)**

Malhaar organized an engaging Antakshari competition, bringing together music enthusiasts for a lively and fun-filled event. Participants showcased their quick thinking and knowledge of songs, creating an atmosphere of excitement and energy. With creative rounds and enthusiastic performances, the event successfully celebrated the joy of music and camaraderie. It was truly a delightful experience for everyone involved.

### **Agnee - Cultural Fest 2023**

**(November 18, 2023)**

During our cultural fest, Agnee, Malhaar stole the show with a variety of performances, from classical Indian compositions to popular Bollywood numbers. This event allowed us to bring together students from different cultural backgrounds, unified through music.

### **Hult Prize**

**(February 25, 2024)**

At the prestigious Hult Prize event, Malhaar was proud to entertain and inspire the audience, adding a unique musical dimension to this important occasion focused on global challenges and solutions.

### **Epitome - Technical Fest**

**(March 2, 2024)**

Kicking off the year, Epitome saw Malhaar in full swing, performing a mix of innovative musical pieces. This event was an ideal platform to showcase the skill and versatility of our club members as we embraced technology-inspired themes.

## **MEDIA AND TECH**

The Media and Tech Club of GSV is a vibrant blend of creativity and innovation, capturing the essence of campus life with every event, competition, and celebration. We transform moments into stories that resonate, blending our passion for digital media and a thriving e-sports culture into powerful narratives. With an eye for detail and a commitment to excellence, we showcase GSV's spirit, championing the art of storytelling, strategy, and skill—all driven by the energy and vision of our dynamic community.

With a vision to spread ideas worth sharing, and a mission to create a community of young adults who do not settle for the world as it is but are willing to work towards a world as it should be, we present TEDxGSV, an independently organized event by the Media & Tech club of GSV, where we are inviting speakers from different walks of life to share their experiences and talk about pressing issues that spark conversations.

## **LITERARY CLUB**

The Literary Club of Gati Shakti Vishwavidyalaya is one of the university's oldest and most passionate communities, driven by the vision to make GSV a name recognized across India for its love of literature and vibrant cultural events. We aim to create a lively, inspiring environment where creativity, expression, and innovation can thrive. Our club is about more than just reading and writing—it's a space where ideas come to life, where public speaking, pop culture, and personal development all come together to shape unique experiences for every member. With our workshops and events, we're all about pushing creative boundaries, building skills, and deepening everyone's love for literature and culture.

## **Spell Tech**

***14 September, 2024***

On the eve of Engineers' Day, the Literary Club unveiled Spell Tech 2024, a spellbinding fusion of art and technology that celebrated innovation, creativity, and camaraderie. The event, a thrilling two-round competition, captivated the audience with its unique format and enthusiastic participation. The Preliminary Round, masterfully anchored by Kiranmai Barala and S. Pranathi, tested participants' wit and technical acumen through a clever twist—identifying the correctly spelled option amidst deliberate misspellings. The top 15 participants advanced to The Ultimate Word Wizard Challenge, an electrifying buzzer round hosted with flair by Kiranmai. The grand finale was a test of speed, precision, and nerves, as participants raced against time to spell challenging words, with the added excitement of negative marking for errors. Aditya Rai and Durgesh Kumar emerged as the champions, while Pradyuman Pal and Tanishqa Pagidipalli claimed the runner-up position. Both teams were rewarded for their remarkable performances. With impeccable hosting,

vibrant participation, and an atmosphere brimming with energy, Spell Tech 2k24 was a testament to the synergy of learning and enjoyment, leaving a lasting impression on budding engineers.

## Battle of Wits

***Agnee 2024, 26 October, 2024***

The Battle of Wits, the flagship event of the Literary Club at GSV, was a true highlight of Agnee 2024, leaving everyone impressed with its blend of energy and creativity. The event kicked off with The Quiver, a rapid-fire round that had participants racing against the clock to tackle pop culture, aptitude, and GK questions. This was followed by Worddash, where teams dived into solving crosswords and cracking codes in a battle against time. The grand finale, News Gladiators, stole the show as participants stepped into the role of news anchors, delivering engaging takes on trending headlines. The enthusiasm of the participants and the excitement of the audience made the event a huge success, with the third round being the undeniable crowd favorite.

## **SAE COLLEGIATE CLUB OF GSV**

### **1. Internal RC Car Competition**

The SAE GSV team organized an internal RC car competition, which saw the enthusiastic participation of 10 teams from within the college. Each team showcased their creativity and engineering skills in designing and racing their custom-built RC cars. The top 3 winning teams received cash prizes, motivating participants and fostering a competitive spirit.

### **2. Arduino Workshop by Prasiddh Trivedi**

A hands-on Arduino workshop was conducted by Prasiddh Trivedi, where students learned the fundamentals of Arduino programming and embedded systems. This workshop provided an excellent foundation in electronics, enabling participants to use Arduino for various projects, from basic prototypes to more advanced applications.

### **3. Expert Talk by Prof. Timothy Waters**

The SAE GSV team was privileged to host an expert talk by Prof. Timothy Waters, a renowned figure in the automotive engineering field. Prof. Waters shared valuable insights on recent advancements in vehicle dynamics and automotive systems, inspiring students to pursue further research and innovation in this domain.

### **4. Interaction with YouTuber Purvang Mantri for BAJA**

An interactive session with YouTuber and BAJA enthusiast Purvang Mantri was organized, focusing on the BAJA SAE competition. Purvang shared his experiences and tips on designing, building, and testing BAJA vehicles, providing students with a real-world perspective on competition and vehicle performance.

### **5. National Aerothon Participation**

The college had the honor of sending two teams to the prestigious Aerothon, where over 100 teams from across the nation competed. Both teams represented the college with great enthusiasm and skill, making it through to the final interview rounds. This participation boosted their confidence and brought recognition to the college on a national platform.

### **6. Drone Workshop**

SAE GSV organized a comprehensive workshop on drones, covering essential components and principles for drone design and assembly. This workshop provided students with an understanding of the key components in drones and the science behind UAVs, giving them tools needed for building and flying drones safely.

## **Debate and Quiz Club**

The Debate and Quiz Club at Gati Shakti Vishwavidyalaya is where students come together to explore ideas, sharpen their minds, and have some fun! The club hosts popular events like Baat-Chitt: Baat se Chitt, where students debate interesting topics in Hindi, Kaun Banega Crorepati, a quiz game inspired by the famous TV show, and Trivia, a game where you spin a wheel, get a random topic, and answer questions about it. Other events include Triumph, an exciting quiz that challenges general knowledge, and Colosseum, an English debate competition where students showcase their argumentation skills. Joining the club is a great way to build confidence, improve speaking skills, and learn to think on your feet—all while

making new friends. It's the perfect place to expand your knowledge, develop teamwork skills, and enjoy friendly competition!

#### **Positions and Members:**

- Coordinator: Shivam Kumar (BBA, Third Year)
- Co-Coordinator: Ojas Singh (B.Tech, Second Year)
- Co-Coordinator (Operations): Aryan Vaish (B.Tech, Second Year)
- Co-Coordinator (Finance): Anjali Chaurasiya (B.Tech, Second Year)
- Co-Coordinator (PR/Communications): Aayush Agarwal (B.Tech, Second Year)

#### **1. Baatchitt**

On the occasion of Hindi Diwas, the Debate and Quiz club organized “Baatchitt- Baat Se Chitt” a hindi debate to celebrate the day. Participants have to qualify a preliminary round where they have to prove themselves in 2 mins hindi speech. In the next round, the finalists were facing each other, battling with words, proving their points, answering the questions and mild taunts on knowledge were remarkable, cheering from the audience made the battle worthwhile. The debate was rewarding in all sense and marked a beginning for a series of events organized by the club.

#### **2. Trivia**

In the heat of the Pre-Agnee, with excitement in the air, the club organized of the kind retro theme based, nostalgic fair-inspired quiz game- “Trivia”

Participants have to spin the wheel of several classic genres and will be asked questions of increasing difficulty about the selected genre. A new format of the game and exciting point system invited many young minds to test their knowledge beautifully. The event sparked several healthy discussions and smiles on the participants who played.

## **TechnoCrats**

#### **Core team:**

Coordinator: Vivek Kumar (BTech CE TY)

Co-coordinator: Shobhit Dubey (BTech ECE TY)

Co-coordinator Operations: Soham Wani (BTech ECE TY)

Co-coordinator Finance: Durgesh Kumar (BTech CE TY)

Co-coordinator Public Relations: Shruti Verma (BTech AI&DS SY)

TechnoCrats continued to fulfill its mission "To ignite curiosity and nurture a passion for technology by providing a collaborative platform for learning, exploration, and innovation" during AY 2023-24. This year was dynamic and impactful, marked by diverse activities that promoted innovation, skill development, and collaboration.

#### **1. Campus Connect Workshop**

The academic year began with a workshop led by communications expert Preeti Singh, focusing on interview techniques, testimonial writing, and confidence-building.

## **2. AALEKHAN – The AutoCAD Competition**

Organized in September for Engineer's Day celebrations, this competition tested participants' design skills using AutoCAD.

## **3. SPEEDSTER – Typing Speed Competition**

This event challenged students to showcase agility and precision in typing.

## **4. SPELL-TECH**

In collaboration with the Literary Club, this spelling and technical challenge combined vocabulary skills with technical knowledge.

## **5. TRIUMPH – The Tech Quiz**

Partnering with the Debate and Quiz Club, this competitive event tested participants' grasp of technology.

## **6. National Engineer's Day Celebrations**

The club played a pivotal role in inaugurating the Incubation & Entrepreneurship Cell, in partnership with the Event Management Club.

## **7. LARSA 4D BRIDGE SERIES Workshop**

This event included software donation and installation sessions, preparing members for a rail bridge analysis workshop.

## **8. CodeBlaze Coding Competition**

A platform to enhance programming skills through coding challenges and problem-solving activities.

## **9. AI Image Generation Competition**

With the theme "India of Your Dreams," this competition encouraged participants to showcase creativity through AI tools.

## **10. PRE-CIPHER SAGA – The Cryptic Hunt**

A popular and engaging prelude to the tech fest, testing participants' aptitude and problem-solving skills.

## **11. EPITOME'24**

TechnoCrats collaborated with other clubs and the administration to organize this grand event. Activities hosted by the club included:

- AI/ML Hackathon
- Model Making and Representation
- AALEKHAN (Second Edition)
- AI Poster Generation
- NIRMAAN – Truss Bridge Competition
- CIPHER SAGA – The Cryptic Hunt

(Proud to mention that Cipher Saga became the most popular event for individual participation in the history of GSV)

### **13. Problem Of The Day**

A daily problem was sent which enhanced participants' problem solving aptitude and coding skills.

Beyond external events, TechnoCrats emphasized internal growth and learning. Regular workshops and sessions covered topics such as:

- GitHub
- Web Development
- Data Structures and Algorithms
- Basics of Robotics
- Emotional Intelligence

These sessions provided members with a balance of technical expertise and essential soft skills.

In line with the ethos of "Create, Innovate, Elevate," regular meetings focused on organizational behavior, fostering a strong sense of belonging among members. This collaborative environment enhanced the club's culture and strengthened bonds within the team.

This year, TechnoCrats made significant contributions to the college's technical and professional development, nurturing a vibrant community of learners, creators, and problem-solvers. By blending innovation with a collaborative spirit, the club truly elevated its impact on campus life.

### **SPORTS COMMITTEE.**

The Sports Committee at Gati Shakti Vishwavidyalaya plays a pivotal role in promoting physical fitness, teamwork, and a spirit of healthy competition among students. It serves as the backbone of all sports-related activities, ensuring a balance between academics and athletics. Here's an overview of its objectives, and functions.

#### **Core member**

Coordinator      Raghu Dev (B.tech FY)

Co-Coordinator    Manikanth nimmala  
(B.tech 3rd yr)

Co-Coordinator  
Finance          Anushka Roy(BBA 3rd)

Co-Coordinator

Operations      Sumit Kumar(BBA 3rd)

Co-Coordinator

Public Relation      Rohan Mane(B.tech FY)

### **Aujasya (Jan)**

Aujasya: Annual Sports Fest with a Twist

Aujasya, the much-anticipated annual sports fest of the college, is a celebration of athleticism, teamwork, and community spirit.

What sets Aujasya apart from typical sports fests is its exciting **auction segment**, where teams **bid for players** to form dynamic squads of 4 teams for different games. This unique feature adds an element of strategy and excitement, making it a highlight of the college calendar.

### **Farewell match (April)**

The sports committee organized a memorable farewell match for seniors, celebrating their journey with fun, teamwork, and sportsmanship.

### **Yoga day ( 21 jun)**

The sports committee organized a healthy competition on Yoga Day, promoting fitness, mindfulness, and community participation through yoga activities.

### **Workshop for different games.(September)**

The sports committee organized an engaging workshop for various sports games, offering participants a chance to enhance their skills and knowledge. This event covered fundamental techniques, strategies, and rules for games like basketball, football, volleyball, Badminton and cricket, guided by experienced members of the sports committee .

### **Intra college tournament ( Oct -Nov)**

The sports committee successfully organized an exciting intra-college tournament, bringing together students from various departments to compete in games like basketball, cricket, volleyball, and more. The event fostered sportsmanship, teamwork, and camaraderie among participants. It was a memorable experience, showcasing exceptional talent and enthusiasm, leaving everyone eagerly anticipating the next edition.

## **Event Management Club (EMC), Gati Shakti Vishwavidyalaya**

The Event Management Club (EMC) at Gati Shakti Vishwavidyalaya is an integral part of the campus's vibrant community, dedicated to organizing and managing a wide spectrum of cultural, academic, and extracurricular events. The club serves as a platform for students to hone their organizational, leadership, and interpersonal skills while contributing to the university's dynamic environment. EMC not only enhances the cultural vibrancy of the institution but also fosters collaboration, creativity, and professionalism among its members. The club's activities reflect a balanced mix of celebration, intellectual growth, and impactful initiatives aimed at student engagement and societal awareness.

### **Positions and Members:**

- Coordinator: Shrey Dikshit (B.Tech, Third Year)
- Co-Coordinator: Sanvi Pande (BBA, Third Year)
- Co-Coordinator (Operations): Anup Singh (B.Tech, Third Year)
- Co-Coordinator (Finance): Shristi Chanderia (B.Tech, Second Year)
- Co-Coordinator (PR/Communications): Rishab Singh (MBA, Second Year)

### **Activities Conducted:**

#### **1. Cultural Celebrations:**

EMC organizes vibrant celebrations of Holi and Ganesh Chaturthi, bringing students together in a spirit of unity and joy. These events promote cultural inclusivity and serve as a platform for students to relax, interact, and embrace Indian traditions amidst their academic routines. The colorful Holi festival fosters camaraderie, while Ganesh Chaturthi showcases the club's ability to manage and execute events with traditional rituals and festivities.

#### **2. Sustainability Conclave:**

The Sustainability Conclave is one of EMC's flagship initiatives, emphasizing the importance of environmental awareness and innovative solutions. This conclave includes the following engaging activities:

- Tints of Sustainability: A creative competition where Students use digital tools like Canva to design impactful posters promoting sustainability.
- Enviro Probe: A professional platform for students to write and present research papers on sustainability-related topics, encouraging intellectual discussions and analytical thinking.
- Transit-Agri Tech - A Business Pitch: This event provides students the opportunity to pitch start-up ideas in the fields of sustainable agriculture and transportation. Participants showcase their ideas with practical product or service presentations, fostering entrepreneurship and innovation.

### **3. Induction Program:**

Every academic year, EMC plays a vital role in organizing the Induction Program for new students. This program is designed to help freshmen acclimatize to the campus culture, meet peers, and become familiar with the university's ethos. EMC ensures the program is interactive, informative, and welcoming for all participants.

### **4. Epitome - Management Excellence:**

During Epitome, a major event on campus, EMC takes on key responsibilities to ensure the event's success. These include:

- Discipline Management: Maintaining decorum and ensuring smooth operations throughout the event.
- Stage Management: Coordinating performances, speeches, and activities with precision and professionalism.
- Hospitality Work: Managing the logistics of guest reception, accommodation, and overall experience, reflecting the club's commitment to excellence in event Management.

### **5. Contribution to Agnee - The Cultural Fest:**

The EMC is a key player in the success of the university's annual cultural fest, Agnee. The club takes on critical responsibilities such as:

- Stage Management: Ensuring seamless transitions between performances

And managing the technical and logistical

Aspects of the stage and managing the technical and logistical aspects of the stage.

- Ramp Walk: Organizing and managing a Retro-Themed Ramp Walk, where participants showcase iconic styles from the 70s, 80s, and 90s, adding a unique flair to the event

- Discipline Management: Maintaining order and ensuring the smooth flow of activities

during the fest.

#### **6. Waste to Wonders - Swachhata Hi Seva Campaign:**

On 2nd October, EMC celebrated Gandhi Jayanti by organizing a creative and inspiring event, Waste to Wonders, as part of the Swachhata Hi Seva Campaign. This included a Waste-to-Art Exhibition, where students showcased artistic creations made from recyclable and discarded materials, promoting the importance of environmental sustainability and cleanliness. The event highlighted the club's commitment to social responsibility and innovation in addressing pressing global issues like waste management.

#### **Impact of EMC:**

The Event Management Club consistently raises the bar for campus events, leaving a lasting impression on participants and audiences alike. Through its diverse range of activities, EMC not only enriches the student experience but also instills valuable skills such as teamwork, problem-solving, and time management in its members. The club is a testament to the university's vibrant culture, blending fun, learning, and social impact.

## About Gati Shakti Vishwavidyalaya(GSV)

Gati Shakti Vishwavidyalaya (GSV), India's first University in the Transportation and Logistics sector, was established through the Central Universities (Amendment) Act 2022, passed by the Parliament in August 2022. Working under the Ministry of Railways (Govt. of India), the University was operationalised on December 6, 2022. The University stands by its unique value proposition of offering logistics and transportation-focused applied education, training, skilling, and research through experiential learning, multi-disciplinary research, and academia-industry interface. The University follows a demand-driven curriculum while aligning with industry priorities. GSV shall lead the teaching, training and research in the transportation and logistics sector with a vision – “Innovation-led, Industry-driven University for creating, assimilating and imparting excellence of knowledge and actions accelerating development in the transport and logistics sectors”. To this objective and vision, the university has made very rapid strides and significant progress in the last two years, across all the dimensions of industry-driven curricula, executive training programs, research and industry partnerships, to set up a strong foundation to be India's and World's Best University in the transportation and logistics sectors.

## Vision of GSV

Innovation-led, Industry-driven University for creating, assimilating and imparting excellence of knowledge and actions accelerating development in the transport and Logistics sectors

## Mission of GSV

“Best in the world” futuristic education and research built on credibility, academic rigour, and relevance. Effective collaboration with industry and stakeholders will make GSV the “focal point” of the transport and logistics ecosystem. Imbibe and internalise professional work ethics and culture to foster lifelong learning paradigms for a developed India.

## Values of GSV

GSV will uphold the values of academic excellence, nation-building, compassion and environmental responsibility. innovation and academic excellence: Challenge the status quo through innovation, curiosity and critical thinking to provide indigenous solutions for Indian problems. Compassion towards all individuals and society: Uphold a sense of fairness and equity for all members of society, leading by example and helping others to succeed; be committed to self-discovery and purpose. Responsibility towards the environment: Be open to ideas and have empathy towards the environment and the planet, implementing ideas with environmental sustainability in mind.

## Elements of the logo design:

- Symbols representing all modes of transportation (Land, Water, Air), showcasing the transportation sector (Railways, Roads and Highways, Metro, Aviation, Aerospace, Ports, Shipping, Maritime, Waterways, etc.)
- The "Banyan Tree" or "Vad Vriksha" from Vadodara, symbolises both knowledge and sustainability.

- A continuous "wheel" of progress, depicting momentum and innovation.
- The Sanskrit sloka "अदम्यम् उत्कृष्टतायाः अनुसरणम्", translating to "Relentless Pursuit of Excellence".

#### Court of GSV

Per the Section 44(c) of the Central Universities Act, 2009 and in exercise of the powers conferred under Section 3(F)(3) of the Central Universities Act, 2009 [as amended the vide Central Universities Amendment act, 2022], the Central Government has accorded approval to the Constitution of the First Court of Gati Shakti Vishwavidyalaya with the following 31 members comprising the best from Govt, Industry and Academia. The First meeting of the Court of Gati Shakti Vishwavidyalaya was held on 19 Nov 2024 at the Rail Bhawan - New Delhi under the Chairmanship of our Chancellor, wherein the members deliberated on the vision, current status and the future growth path of our country's most unique and aspirational university.

#### Category: Nominee from Government

1. Chairperson (Ex-officio) | Name: Shri Ashwini Vaishnav
2. Member (Ex-officio) Vice Chancellor | Name: Prof. Manoj Choudhary
3. Member (Ex-officio) Chairperson, Railway Board | Name: Shri Satish Kumar
4. Member (Ex-officio) Secretary, MoRTH | Name: Shri V Uma Shankar
5. Member (Ex-officio) Secretary, Port & Shipping | Name: Shri T K Ramachandran
6. Member (Ex-officio) Secretary, Civil Aviation | Name: Shri Vumlunmang Vualnam
7. Member (Ex-officio) Secretary, DPIIT | Name: Shri Amardeep Singh Bhatia
8. Member (Ex-officio) Secretary, Dept of HE, MoE | Name: Shri K. Sanjay Murthy
9. Member (Ex-officio) Foreign Secretary | Name: Shri Vikram Misri
10. Member (Ex-officio) Vice Chief of Army Staff | Name: Lt Gen NS Raja Subramani
11. Member (Ex-officio) Chief Secretary of Gujarat | Name: Shri Raj Kumar

#### Category: Distinguished leaders from the Industry, Trade, transportation, logistics, Finance, Startup etc

12. Member Chairman, Tata Group | Name: Shri N Chandrasekharan
13. Member CMD, L&T | Name: Shri S N Subrahmanyam
14. Member MD & CEO, Siemens India | Name: Shri Sunil Mathur
15. Member MD, India Cluster, Alstom | Name: Shri Olivier Loison
16. Member President, Airbus India | Name: Shri Remi Maillard
17. Member MD, AMD India | Name: Ms Jaya Jagadish
18. Member DG, BISAG-N | Name: Shri T P Singh
19. Member Chairman, Deendayal Port Authority | Name: Shri Sushil Kumar Singh

#### Category: Distinguished persons from Vadodara

20. Member MP, Vadodara | Name: Dr Hemang Joshi
21. Member Chancellor, MS University | Name: H/H Shubhanginiraje Gaekwad

Category: Distinguished Academicians from outside GSV

- 22. Member Chairman, UGC | Name: Prof M Jagadesh Kumar
- 23. Member Chairman, AICTE | Name: Prof T G Sitharam

Category: Nominee from Executive Council of GSV

- 24. Member Director, IIT Gandhinagar | Name: Prof. Rajat Moona

Category: Representatives from GSV

- 25. Member Dean (Acad), GSV | Name: Prof. Jitesh Thakkar
- 26. Member Dean (SW), GSV | Name: Prof. R. Edwin Raj
- 27. Member Dean (ECE), GSV | Name: Prof. Pradeep Kumar Garg
- 28. Member Representative of Teachers | Name: Dr. V Chintala (Associate Professor)
- 29. Member Representative of Students (President of the GSV Student Council) | Name: Ms. Sanjana Behera
- 30. Member Chief Finance & Accounts Officer (Ex-officio) | Name: TBD
- 31. Member Secretary (Ex-officio) Registrar | Name: Shri T V Ananthasubramanian

#### Executive Council

A perfect synergy between Academics, Industry & Government

The Executive Council is the principal executive body of the University. The 1st Executive Council of GSV has 11 Members, chaired by the Vice-Chancellor. The following are the Members:

- Prof. Manoj Choudhary | Vice Chancellor, GSV Ex-officio - Chairperson
- Mr. R. Rajgopal | DG (HR), Board, Govt. of India
- Ms. Anurag Jain | Secretary, Road Transport and Highways
- Prof. Rishikesh Krishnan | Director, IIM Bangalore
- Prof. Rajat Moona | Director, IIT Gandhinagar
- Mr. Remi Maillard | President & Managing Director, Airbus India & South Asia
- Mr. Sunil Mathur | Managing Director & Chief Executing Officer, Siemens Ltd., India
- Ms. Geeta Gurnani | Chief Technology Officer & Technical Sales Leader (for India and South Asia), IBM
- Mr. Pradeep Gaur | Chairman & Managing Director, Rail Vikas Nigam Ltd.
- Mr. Neelkanth Mishra | Chief Economist - Axis Bank, Head of Global Research - Axis Capital
- Prof. Jitesh J. Thakkar | Dean - Academics, GSV
- Mr. T V Ananthasubramanian | Registrar, GSV Ex-officio - Secretary (Non-Member)

#### Academic Council

Here are the members of the academic council of GSV:

- Prof. Manoj Choudhary | Vice Chancellor, GSV Ex-officio - Chairperson
- Prof. Deepa Venkitesh | Dept. of Electrical Engineering, IIT Madras.
- Dr. Atul Kumar | Senior Research Scientist & Manager, IBM Research, India

- Mr. Milind Nirmal | ED Asia Pacific, DB Engg & Consulting
- Mr. G.A. Rakesh | Train Development Director, Alstom Transport India.
- Mr. Shailendra Shrivastava | Chief Delivery Officer, L&T Technology Services (LTTS)
- Dr. Venkateshwarlu Chintala | Associate Professor, GSV
- Prof. C. P. Nanda | Professor, GSV
- Prof. Pradeep Kumar Garg | Professor of Practice (GSV)
- Prof. R. Edwin Raj | Professor & Dean (Students' Welfare) GSV
- Prof. Jitesh J. Thakkar | Dean - Academics, GSV
- Mr. T V Ananthasubramanian | Registrar, GSV Ex-officio - Secretary (Non-Member)
- Dr. Jyoti Sharma | Assistant Professor, GSV
- Dr. Ram Krishna Upadhyay | Assistant Professor, GSV

#### Finance Committee

The Finance Committee of the university comprises of the nominees of the Visitor and Executive Council.

- Prof. Manoj Choudhary | Vice Chancellor, GSV Ex-officio - Chairperson
- Mr. Jawed Mazhar | FA & CAO/Con/ CSTM, CR
- Mr. Pranav Kumar Mallick | ED (Transformation), Railway Board
- Ms. Bandana Sharma | EDF (Estt) Railway Board
- Prof. Sampat Raj Vadera | Dy Director, IIT Jodhpur
- Ms. Geeta Gurnani | CTO, IBM Tech
- Prof. Urmila Brighu | Dept. of CE, MNIT, Jaipur

#### Academics at GSV

In line with its mission, vision and national mandate, the University offers multidisciplinary and specialized programs at the UG and PG levels across both the School of Technology and School of Management. In addition to the programs for regular students, from this academic session, GSV has started to offer Masters and PhD programs for working professionals. These programs offer a well-balanced combination of flexibility and multidisciplinary approaches, fostering cutting-edge, application-focused skill sets aligned with industry demands. Currently, the university offers B.Tech., MBA, M.Tech., and Ph.D. programs, with a total enrollment of 841 students. This includes 706 B.Tech. students, 21 BBA students (in their final year of study), 73 MBA students, 13 MBA (Working Professionals), 14 M.Tech. (Working Professionals), and 14 Ph.D. (Working Professionals) candidates.

Following are the UG & PG programs:

School of Technology:

- B.Tech. in Electronics and Communication Engineering (Specialization: Rail Engineering)
- B.Tech. in Civil Engineering (Specialization: Rail Engineering)
- B.Tech. in Mechanical Engineering (Specialization: Rail Engineering)
- B.Tech. in Electrical Engineering (Specialization: Rail Engineering)
- B.Tech. in Artificial Intelligence and Data Science (Specialization: Transportation and Logistics)
- B.Tech. in Aviation Engineering
- M.Tech. in Railway Engineering (Working Professionals)
- M.Tech. in Intelligent Transport System (Working Professionals)

School of Management:

- BBA in Transportation Management (last batch)
- MBA in Logistics and Supply Chain Management (separate batches for regular students and working professionals)
- MBA in Ports and Shipping Logistics
- MBA in Metro Rai Management (Working Professionals)
- MBA in Multi-Modal Transportation (Working Professionals)
- Ph.D in Management (Working Professionals)

Unique Features of B.Tech Curriculum:

- In-depth coverage of core and foundation courses in the respective areas of specialization – Mechanical, Civil, Electronics and Communication, Electrical, Artificial Intelligence and Data Science, and Aviation Engineering.
- Imparts 21st-century skills (in the true spirit of NEP) by offering courses such as Design Thinking, Communication Skills, Foreign Language, Entrepreneurship and Innovation, Health, Wellness and Yoga to prepare the competencies desired for global challenges.
- Ensures experiential learning, after every year of study, by including three internships (total of 14 weeks) at reputed organizations and projects in semesters 7 and 8. Including the final semester project work if done at industry, a student spends approx. 20% of the entire B.Tech duration at Industry premises, thus creating a very valuable “industry-oriented” proposition.
- Strong focus on Sustainable Development Goals (SDGs) by offering courses on “Environmental Science and Sustainability.”
- The curriculum addresses the broader challenges involved in multi-modal logistics by offering courses such as Multi-modal Transportation Systems, Transport Safety, Logistics and Supply Chain Management, Project Management, Artificial Intelligence and Machine Learning, Operations Research, Urban, Rural, Regional Transport Planning Models etc.
- Courses such as Ethics in Engineering Practice and Engineering Economics, Estimation, Costing & Tendering enables in making of socially responsible and industry-ready graduates.

The program curriculums have been prepared in detailed consultation and involvement of Industry, Sector and related stakeholders. The Boards of Studies of each discipline have leading experts from Industry and Academia as members to help prepare a curriculum that is both academically rigorous as well as relevant. The specialization-wise courses included with transportation focus are as follows:

#### Electronics and Communication Engineering Transportation-Specific Courses:

- Electronic Train Safety Systems (KAVACH, ETCS, PTS)
- Installation, Testing & Commissioning of Railway Signalling Systems
- Railway Communication Systems
- Power Supply Systems & Earthing Surge Protection Systems
- Passenger Information Systems
- Cyber Security

#### Civil Engineering Transportation-Specific Courses:

- Railway Station and Cargo Terminal Design
- Application of Geosynthetics in Railways
- Permanent Way Engineering (Track Structure, Track Maintenance & Track Modernization)
- Survey and Construction of Railway Lines including Tunnels, Bridges and Structures
- Track Management and Maintenance

#### Mechanical Engineering Transportation-Specific Courses:

- Railway Braking and Brake Testing Systems
- Railway Systems Engineering
- Rolling stock incident investigation and vehicle performance monitoring
- Safety and Reliability of High-Speed Operation
- Maglev & Hyperloop Technologies
- Urban Rail Transport System
- LHB Coaches, High-Speed Rail Systems
- Design of Electric Vehicles

#### Electrical Engineering Transportation-Specific Courses:

- Railway Electrification and Traction Systems
- Railway Interlocking Systems
- Electronic Train Safety Systems (KAVACH, ETCS, PTS)
- Installation, Testing & Commissioning of Railway Signalling Systems
- Electrical Systems in Railway Coaching Stocks
- Power Supply Systems & Earthing Surge Protection Systems
- Energy Auditing and Certification

### **Artificial Intelligence and Data Science Transportation-Specific Courses:**

- Intelligent Transportation System
- Logistics Network Design and Optimization
- AI Applications in Transportation Engineering
- Big Data Analytics in Transportation
- Sensors in Transportation
- Trustworthy AI system

### **Aviation Engineering Transportation-Specific Courses:**

- Avionics
- Aviation Engineering
- Flight Mechanics
- Airframe Maintenance and Repair
- Aircraft Engine Maintenance and Repair
- Air Traffic Control
- Navigation and Guidance System
- Airport Management

### **M.Tech. Programs:**

#### **1) M.Tech. in Intelligent Transport System (Working Professionals)**

The program addresses the rising need for professionals skilled in sustainable, integrated, and AI-powered transportation systems, essential for India's evolving infrastructure. It combines foundational and advanced engineering knowledge, preparing students to plan and manage complex intelligent transport systems effectively. Key features include:

- Industry relevance through collaborations, internships, and case studies for hands-on experience.
- A multidisciplinary approach to ensure a holistic understanding of Intelligent Transport Systems (ITS).
- Emphasis on applied AI and data analysis to enhance efficiency in the transportation sector.

#### **2) M.Tech. in Railway Engineering (Working Professionals)**

The railway industry is at the forefront of delivering sustainable and efficient transportation solutions. This program prepares students to excel in this evolving field with cutting-edge knowledge and practical skills:

- Comprehensive understanding of railway operations and key subsystems across departments.
- Emphasis on hands-on learning through visits to railway establishments for real-world exposure.
- Skill enhancement for professionals, enabling effective application of expertise in their roles.

### 3) Ph.D. in Engineering (Working Professionals)

This program is tailored for experienced professionals aiming to conduct impactful, technology-driven research in transportation and logistics.

The program enables participants to:

- Address real-world industry challenges through multidisciplinary engineering research.
- Enhance professional competencies in scientific inquiry, analytical problem-solving, and structured methodologies for tackling complex, large-scale transportation issues.

### Unique Features of MBA Curriculum

- It provides a strong foundation in the fundamental domains of business such as Finance, HR&OB, Managerial Economics, Marketing, etc.
- Students acquire professional competencies in domains such as data analytics, optimization, integration of business functions, transport safety and reliability, logistics and supply chain processes, infrastructure finance and business models, and implementation of advanced technologies such as IoT and ICT in the transport and supply chain sector.
- Students are imparted experiential learning with the provision of courses such as Internship, Business Seminars, Leadership Roundtable, and Capstone Simulation.
- The graduates can significantly contribute to the policy, planning, and design stages of transportation and logistics systems.

### MBA (Logistics and Supply Chain Management)

The program is designed to develop a strong foundation in theories, methods and tools for managerial and analytical skills for the design, integration and coordination of supply chains at multiple levels, bringing innovative and dynamic solutions to a fast-paced business environment. Offers specialized courses in areas such as logistics & warehousing systems, supply chain strategy, freight transportation and revenue management. The program is relevant to the civilian and corporate sectors as well as for the defence sectors, and therefore offered (through separate batches) for regular students as well as working professionals.

### MBA (Port and Shipping Logistics)

The program is designed to provide in-depth knowledge of ports and shipping operations by building a strong foundation in theories, methods and tools needed to design, organize and supervise ports infrastructure and shipping logistics systems.

### **MBA in Metro Rail Management (Working Professionals)**

The program is designed to cater for the needs of Metro Rail by combining general management skills, personal competency development and the fundamentals of business administration to provide in-depth knowledge of metro rail operations, by building a strong foundation in theories, methods and tools needed to design, organize and supervise metro rail management systems for Urban Transportation. Offers specialized courses in areas such as Metro Rail Economics; Metro Rail People Management; Metro Rail Pricing and Financing; Urban and Metro Rail Infrastructure Planning and Development; and Metro Rail Marketing & Services.

### **MBA in Multi-Modal Transportation (Working Professionals)**

The program aims to provide in-depth knowledge of multi-modal transport operations, by building a strong foundation in theories, methods and tools needed to design, manage, coordinate different modes of transport and optimize multi-modal transport systems. Offers specialized courses in areas such as Multi-Modal Transportation Management; Multi-Modal Transportation Economics; Multi-Modal Transportation People Management; Multi-Modal Transportation Pricing and Financing; Cargo and Container Handling Management; Multi-Modal Transportation Infrastructure Planning and Development; Multi-Modal Transportation System Safety and Reliability.

### **Ph.D in Management (Working Professionals)**

The Ph.D program in Management for Working Professionals offers a unique opportunity to undertake a critical investigation of real-life industry problems.

It is designed for experienced professionals who want to pursue impactful research in transport-specific areas. GSV provides a unique opportunity to undertake multidisciplinary research on challenging issues in transportation and logistics.

Opportunity to undertake research in management for real-life industry problems.

Conduct groundbreaking research under renowned faculty, culminating in a published dissertation.

Elevates professional competencies in terms of scientific inquiry and investigation, analytical abilities and structured approach required for solving complex and large-scale problems.

### **BBA in Transportation Management**

This 3-year degree program develops skills and competencies in Principles of Accounting and Finance, Principles of Marketing, Business Communication, Supply Chain Planning and Control, Supply Chain Decision Modelling, Freight Logistics, Operations Management and Transport Systems Management. This program is under revision (the last batch is in its current form)

### **Upcoming Academic programs**

From the upcoming Academic Year, GSV plans to introduce several new programs that are unique and sector-specific viz

- M.Tech (Bridge & Tunnel Engineering)
- M.Tech (Road & Highway Engineering)
- MBA (Aviation Operations & Management) and additional programs being designed for Railways, Digital Maritime, Maritime Infrastructure and Defence sectors.

Through its Center of Infrastructure Project Management and Center for Transport Safety, several training programs for the sector shall be conducted. For the Aviation sector, a list of 25 executive training programs has already been prepared that includes: Safety Management Systems, Flight Operations Engineering, Aircraft Performance, Crew Resource Management, Accident & Incident Investigation, Flight Data Analysis etc.

GSV is mandated to conduct the training program for all the newly recruited officers of the Indian Railway Management Service (IRMS). Officers shall undergo their probationary training designed by GSV a combination of theoretical and practical experiences at Centralised Training Institutes (CTIs) and industry, resulting in an MBA degree from GSV. Further, under the MoU with the DPIIT (Ministry of Commerce and Industry), GSV shall act as a central nodal agency, to train the state and central administrative officers on PM GatiShakti, City Logistics Plans and Logistics Policy.

Credit-based courses are being planned to be introduced accordingly. Based on a number of requests, GSV shall strive to extend its academic and executive training programs to international participants.

### Research & Development at GSV

Gati Shakti Vishwavidyalaya is actively engaged in cutting-edge fundamental as well as translational research, and few ongoing research activities of the university are highlighted below:

- Plastofuels production from mixed plastic waste  
**Principal Investigator:** Dr. V Chintala  
**Funding Agency:** DST New Delhi  
**Funding Amount:** 262 lakhs  
**Duration:** 3 years (Ongoing)
- A study on the problems and conjectures in univalent function theory  
**Principal Investigator:** Dr. Navneet Lal Sharma  
**Funding Agency:** SERB, DST, Gov of India  
**Funding Year:** 2018  
**Duration:** 3 years (Ongoing)
- Computer Vision-based Physio Assistant  
**Principal Investigator:** Vipul Kumar Mishra  
**Funding Agency:** Digital Darwin Pvt. Ltd.  
**Funding Amount:** 4.8 lakhs  
**Duration:** 1 year (Ongoing)

### External Collaborations

GSV was established by the Government of India to uniquely serve the mandate of contributing to the ecosystem of the entire transportation sector and multimodal logistics.

Being an industry-driven and innovation-led university, GSV has emphasized collaboration with leading industries, government organizations, and academic institutions to leverage synergy and maximize outcomes. These collaborations offer possibilities for student and faculty exchange, scholarships, internship and placement opportunities for students, joint research and learning, collaborative labs, offering of joint programs, and organization of conferences/workshops.

## External Collaborations

1. Date: Jun 19, 2024
  - MoU Signed: Asian Institute of Transport Development
2. Date: Jan 12, 2024
  - MoU Signed: Nippon Koei
3. Date: Jun 3, 2024
  - MoU Signed: Plasser India
4. Date: Jun 3, 2024
  - MoU Signed: Nokia
5. Date: Jun 3, 2024
  - MoU Signed: Jacobs
6. Date: Aug 6, 2024
  - MoU Signed: Japan Transport and Tourism Research Institute, Japan
7. Date: Jan 6, 2024
  - MoU Signed: Birla Institute of Technology and Science, Pilani
8. Date: Feb 19, 2024
  - MoU Signed: NITTTR, Bhopal
9. Date: Apr 10, 2024
  - MoU Signed: Petersburg State Transport University (PGUPS), Russia
10. Date: Apr 16, 2024
  - MoU Signed: VLSI Society of India
11. Date: Apr 16, 2024
  - MoU Signed: Chartered Institute of Logistics and Transport, India
12. Date: May 24, 2024
  - MoU Signed: GSFC University, Vadodara
13. Date: Jun 11, 2024
  - MoU Signed: The Maharaja Sayajirao University, Vadodara
14. Date: Sept 17, 2024
  - MoU Signed: Monash University, Australia
15. Date: Feb 14, 2024
  - MoU Signed: Karmayogi Bharat
16. Date: Feb 15, 2024
  - MoU Signed: Delhi Metro Rail Corporation
17. Date: Jun 21, 2024
  - MoU Signed: Gujarat Infrastructure Development Board
18. Date: Sept 9, 2024
  - MoU Signed: Indian Army
19. Date: Sept 9, 2024
  - MoU Signed: Indian Air Force
20. Date: Jun 28, 2024

- MoU Signed: Indian Chamber of Commerce
- 21. Date: Jul 5, 2024
  - MoU Signed: RailTel

## Placements

The Career Development Centre (CDC) at GSV enables students with the skills and opportunities to achieve their career goals. A team of faculty and staff members along with active participation of student coordinators at CDC are making sustained efforts to establish processes and approaches for the career development plan to facilitate the training of students for both short and long-term career goals. The Career Development Centre of the University organized campus placements for the students who graduated in 2024. In order to facilitate the students, GSV arranged mock interview sessions, programming and personality development workshops, etc. Approximately 135 companies showed interest and around 65 companies, including the Railway PSUs participated in the campus placement process.

Of the 239 students graduated in 2024, 80.57 % students, who were eligible and opted for campus placement, were placed. Some of the students opted out of the placement process for pursuing higher studies/entrepreneurships. The students received internship and placement opportunities at leading organizations.

Here's the tabular data converted into linear data:

## Prominent Employers

- DFCCIL
- SIEMENS
- Alstom
- Larsen & Toubro
- Plasser India
- Ultratech
- TATA Projects
- DB Engineering & Consulting GmbH
- e2E Rail
- DHL
- Safexpress Pvt. Ltd.
- PlanetSpark
- Gateway Distriparks
- Nippon Koei
- Transworld Logistics
- Cogoport
- OM Logistics
- Legrand
- Bank of America
- Systra India
- Wabtec Corporation

- Shree Cements
- RailTel
- Jindal Stainless Ltd.
- Chetak Logistics Ltd.
- Jubilant Foodworks Ltd.
- Airtel
- GarudaUAV Soft Solution Pvt Ltd
- J M Baxi Group

#### **Internships during 2023-24**

##### **1. Tech. in Mechanical Engineering (Specialization: Rail Engineering)**

- Indian Railways, Delhi Metro Rail Corporation, Indian Railway Institute of Disaster Management, Bangalore, Steel Authority of India Limited, Research Design and Standards Organization, Hyderabad Metro, National High Speed Rail Corporation Limited, Lucknow Metro, Nistom, Vizag Steel Plant, Schneider Electric, Inteligentia Labs Pvt. Ltd. and Larsen & Toubro, Vadodara

##### **2. B.Tech. in Civil Engineering (Specialization: Rail Engineering)**

- AIGEN LABS Geodesign, Rail Vikas Nigam Limited, Patel Engineering, Rail Land Development Authority, Nacional High Speed Rail Corporation Limited, Larsen & Toubro, Darwin Digitech, Rashtriya Research Design and Standards Organisation, Indian Railways, Delhi Metro Rail Corporation, Indian Railway Institute of Disaster Management, Bangalore Metro, Hitachi Rail, Vandhana, Rail Corporation, National High Speed Rail Corporation

##### **3. Tech. in Electronics and Communication Engineering (Specialization: Rail Engineering)**

- Danras Loco Works-Varanasi, DRM Office (DMRO)-Vadodara, DMRO-Jsipar, DMRO-Kota, Electric Loco Shed-Bhopal, DRMO-Delhi, DRMO-Secunderabad, Supervisor Training Institute-Amer, GM Office-DRMO-VIBW Vijayawada, DRMO-Howrah, DRMO-Hajipur, DRMO-Vijayawada, DRMO-Bilaspur, Diesel Loco Shed-Barmati, DRMO-D-Danaour, DRMO-Raipur

##### **4. B.Tech. First Year 2023 Students**

- Rail India Technical and Economic Service, Dedicated Freight Corridor Corporation of India Limited, Mumbai Ports, Adani Ports, DP World, Chonak Logistics, Almart Industry, Vinsum Express Logistics, Gette

##### **5. MBA**

- Rail Land Development Authority, Rail Vikas Nigam Limited, Indian Railways, Delhi Metro Rail Corporation, National High Speed Rail Corporation, Central Railway, Western Railway, East Central Railway, South Central Railway, Eastern Railway, North Western Railway, Northeast Frontier Railway, Northeast Frontier

**Railway, West Central Railway, South Eastern Railway, South Eastern Central Railway**

### **Human Resources**

**For the national mandate that GSV has, across the entire transportation and logistics sectors, the faculty is the backbone of the University.**

**Currently, we have 28 regular faculty members (4 Professors, 2 Associate Professors and 22 Assistant Professors) and offers have been made to 6 more. In addition, we have engaged the services of 46 visiting faculties from several top institutes/organizations across India. We are well supported by serving and retired officers from Indian Railways, who engage in teaching at the GSV and also guide the students in their projects.**

- Prof. Jitesh J. Thakkar
- Prof. C.P. Nanda
- Prof. Pradeep
- Dr. V. Chirrala
- Dr. Abhinav Saxena
- Dr. Mansi R. Bhardwaj
- Dr. Ram S. Upadhyay
- Dr. Pradeep
- Dr. Jyoti Sharma
- Dr. Pradeep Kr. Saroj
- Dr. Prafull K. Trivedi
- Dr. Kuldeep Singh
- Dinesh Guncavar
- Vipul Kumar Mishra
- Dr. Shweta Shrivastava
- Dr. Gaurav Khare
- Dr. Altaf Veem

**In the recently concluded faculty recruitment drive, GSV made offers to 10 regular faculty. Further, a position for Airbus Chair Professor has been advertised. In addition, an Adjunct Faculty position has been offered to a serving industry professional.**

### **FINANCIAL AID/SCHOLARSHIPS**

**GSV offers Financial Aid to the needy and meritorious students (upto 20% of the student population is covered under this scheme) under two income slabs: (i) income up to Rs. 1.0 Lacs and (ii) income between 1.0 to 3.0 Lacs. The students qualifying for financial aid under slab-I are given the aid equal to 100% of the tuition fee and 50% of the hostel fee and under slab-II, the students get 50% of the tuition fee and 25% of hostel fee. The hostel fee rebate is applicable to the undergraduate students only.**

**The University granted the financial aid to 130 students amounting  
Rs. 1,58,20,480/- during the academic year 2023-24 as per the details given below:**

**A number of Corporates such as AIRBUS, SIEMENS and CHETAK GROUP have  
significantly partnered with GSV for scholarships to the needy and meritorious  
students.**