



**NAVRACHANA  
UNIVERSITY**

*a UGC recognized University*

# ANNUAL REPORT

2020-21

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2020-21

*This leaf signifies the physical facet  
of a human being's development*

*This leaf signifies the  
mental facet of a  
human being's development*

*This leaf signifies the  
emotional facet of a  
human being's development*



*The Navrachana emblem is  
inspired by the three leaves  
of a peepul tree.*

*Navrachana, 'a new creation.'  
It embodies the indomitable  
spirit of an education system*

*The emblem symbolizes the Navrachana Education Society's  
concern and commitment to provide the student with  
a holistic education*

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**ANNUAL REPORT  
(JULY 2020 - JUNE 2021)**

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### **Vision:**

An ethical and innovative Interdisciplinary University with social conscience providing education and research of global standards, committed to student success and creating thought leaders, contributing to nation building.

### **Mission:**

- Deliver contemporary education per global needs and standards
- Create a continuous learning culture through academic and research excellence
- Promote Entrepreneurship & Innovation, Interdisciplinary Studies & Research
- Expand reach of Multidisciplinary Studies
- Pedagogical shift towards Blended Learning
- Leverage on International Collaborations
- Partnering Industries and Research Institutes in continuous value creation

### **Core Values:**

- There are five important aspects that direct the new educational paradigm at Navrachana University:

- Professional education must prepare students with strong disciplinary insights, needed to address the challenges confronting the professional community and inculcate a sense of lifelong learning to be successful and excel over time.
- Offer interdisciplinary education that cross-fertilize learning with new ideas from disparate disciplines, so that collision at the fringes raises appropriate questions and creates innovation.
- General education must inform students about the issues that arise in their lives, personally, professionally, and socially, and help them to be reflective about their beliefs and choices; their presuppositions and motivations.
- Make the process of learning more effective through exposure to real working conditions and by practically applying knowledge and skills learned in the classroom.
- Invite students to work on 'messy', seemingly intractable problems through a focus on social entrepreneurship and address pressing problems in our immediate community.
- Discipline-specific entrepreneurship is being developed to create job creators who will create opportunities for themselves and for others.



## ABOUT **NAVRACHANA UNIVERSITY:**

Navrachana University (NUV), a UGC approved University was established through the Gujarat Private Universities Act, 2009. Undergraduate, Post-graduate and Ph.D. programs of NUV are approved and recognized by various statutory and professional bodies such as All India Council for Technical Education (AICTE), Council of Architecture, National Council for Teacher Education (NCTE) and Bar Council of India.

With the intent to offer quality education that befits the high educational standards of the Navrachana Educational Society in Vadodara, the University has embarked on a new educational paradigm that lays simultaneous emphasis on both disciplinary

education and interdisciplinary education as well as professional education and general education. This paradigm is facilitated by the University's unitary character that offers comprehensive learning and helps develop T-Shape students who have a breadth of knowledge though general and interdisciplinary education and a depth of knowledge though focused disciplinary education.

University aims at contributing to the overall development of students and thereby contributing to the development of Nation by identification of thrust research areas and academic programs, burgeoning technological competence, development of generic, application and life skills, value inculcation through





co-curricular and extra-curricular activities with pursuit of excellence and community engagement.

The University is spread over a 21523 sq. m. built-up area beautifully landscaped. Trees and lawns make the campus environment distinctly green. Navrachana University has state-of-the-art Computing Labs, High Quality Technology and science Labs, Q Lab, IOT lab and different labs catering to specific types of programs and courses. With more than 43 ICT enabled classrooms, well-equipped lecture halls with projection technology, Wi-Fi access campus, multimedia studio, Library, Amphitheatre, High-technology science and engineering labs, computer Lab with high end devices with appropriate softwares including CAD/CAM-AutoCAD, Creo & Ansys and Matlab, Auditoriums, Moot court, Cafeteria area,

computer labs, Gymnasium, Outdoor playground, in-house sports room, canteen and hostel facilities.

NUV offers more than 15 Undergraduate, 12 Post-graduate, 2 Integrated full-time programs and Ph.D. on the campus. All Educational Programs follow modular, semester-wise curricula and allow taking courses that cut across program boundaries. The unitary character allows the University to innovate new educational and pedagogic models grounded in interdisciplinary thinking and capitalize on the shared infrastructural and educational resources, to achieve a rich academic and life experience.

Through the UG and PG courses, the varsity wants to prepare students with strong disciplinary insights and inculcate a sense of lifelong learning to be successful individuals and excel in their careers.

## Five schools make up the **Navrachana University:**

**1. School of Liberal Studies and Education offers:**

BA (Journalism & Mass Communication), B.Ed., MSW and Ph.D.

**2. School of Science offers:** BSc. (Chemistry), BSc.

(Life Science), BSc-MSc Integrated (Biomedical), MSc (Chemistry), M.Sc. (Life Science), M.Sc. (Biotechnology) and Ph.D.

**3. School of Environmental Design and**

**Architecture offers:** Bachelor of Architecture, Bachelor of Design (Interior) and Bachelor of Design (Landscape).

**4. School of Engineering and Technology offers:**

B. Tech (Mechanical, Electrical and Electronics, Civil, Computer Science and Engineering, Information Technology), BSc-Data Science, BCA, M. Tech (Structural Engineering), M. Tech (Thermal Engineering), M. Tech (Computer Science & Engineering), M. Tech (Power System Engineering) and Ph.D.

**5. School of Business and Law offers:**

BBA, BBA-LLB, MBA and Ph.D.



University provides placement opportunities after successful completion of the courses offered by the university. The placement cell of Navrachana University organises regular industry-university interactions that can help the students get placement in top companies.

## Message from Chairperson



**Smt. Tejal Amin,**  
*Chairperson,*  
*Navrachana Education Society*

I feel privileged to share my thoughts on Navrachana University in the Annual Report for the period July 2020 - June 2021.

Established in 2009, the young Navrachana University has already made a mark of excellence in academics. This is in accordance with the Mission and Vision of the University, central to which is the advancement of knowledge via research and teaching. The University is committed to preparing 'future ready' graduates with 21st century skills and competencies.

Last year has been a year of disruption due to the pandemic but I must appreciate the efforts put in by the Faculty and staff to have met this exceptional challenge and reiterated our commitment to education; new tools and pedagogies were learnt and implemented to ensure that academics is not compromised.

In pursuit of academic excellence, we have endeavoured to strengthen the overall quality of education and some of the initiatives taken have been the inclusion of interdisciplinary courses via a choice based credit system; initiating strategies for improving research culture; enabling an innovation ecosystem via the Student start up and Innovation Policy (SSIP) and setting up of an incubation space - the 'Q' lab. These efforts were complemented by strong industry engagement which helped our graduates to be industry ready.

The University is committed to greater social engagement - through Khoj, an interdisciplinary program, students were given the opportunity to focus on community issues, work collaboratively, hone their problem-solving skills and design practical and social innovations. The ultimate goal was to ensure that our philosophy of 'sustainable communities' permeates all activities that we practice. In addition to academics, an extensive offering of sports, NCC, Club activities and numerous extra-curricular activities helped ensure holistic development.

The Faculty have done us proud; Faculty have projects, consultancies and research grants from prestigious National agencies like DST, UGC-DAE; DRDO among many others; they have published research papers in national/international journals with high impact factor and guided doctoral scholars in emerging areas of concern namely new approaches as solution to medical challenges, application of AI based techniques; self-directed learning pedagogies, Deep Learning Methods, etc. Via the setting up of the Centres of Excellence, and the Centre for Professional Education, the University ensured continuous professional development of the Faculty which played an important role in advancing the body of knowledge and enriching the academic environment thereby benefitting the students.

All these have helped the University to carve a niche for itself. For three consecutive years Navrachana University ranked as the 3rd Best Private University in Gujarat, India. In 2021, the Navrachana University Schools/Programs have been ranked highly among the Higher Education Institutions in Gujarat with overall rating 3 and 4 in the Gujarat State Institutional Rating Framework.

I take this opportunity to thank the academic fraternity at the University - Statutory Bodies, Advisory Boards, Faculty, Staff and students for yet another memorable year.

These are unprecedented times; and our endeavours are to educate our graduates with the requisite skills and competencies to face a challenging future ahead. The most profound impact that we can make will be via a truly educated populace and we stand committed to achieving the same.

## Year at a Glance from Provost



**Dr. Nilay Yajnik,**  
*Provost,  
Navrachana University*

The Academic Year 2020-2021 was a year continued challenge and uncertainty. The pandemic affected several people around the world. Many of our friends and relatives were infected by the virus, and a some of our near and dear succumbed to the deadly virus. Navrachana University too could not escape the virus and many of our Faculty, staff and students were infected. However, it was indeed a Blessing from Above that none in our University lost their lives due to the pandemic. Though the year was extremely challenging the Faculty, Staff and students of Navrachana University continued their Academic pursuits online and teaching, research and the Academic Calendar were by and large as per the original plan.

The Academic Year 2020-2021 had several firsts to its credit. For the first time, Navrachana University applied for rankings under the Gujarat State Institutional Ranking Framework. I am very happy to inform you all that our School of Management was ranked Second in the State and First in Vadodara, our School of Architecture was ranked Third in the State and First in Vadodara, and our School of Science was ranked Seventh in the State and First in Vadodara.

For the first time our University applied for the Student Start Up Innovation Project and I am very happy to inform you that in the first year of our SSIP Grant, we have been ranked A Grade by the Government of Gujarat.

Our University has signed several collaboration agreements with leading Universities such as the Thomas J. Watson School of Engineering of the State University of New York, Binghamton USA and the Mel and Enid Zuckerman School of Public Health of the University of Arizona, USA. The University has also signed several MOU's with the industry in the fields of Science, Engineering and Management.

Enclosed below are highlights of the activities and achievements of the 5 Schools and 5 Centres of our University.

### **■ School of Engineering and Technology**

A Country like India must capitalise on the strengths in Engineering built up over the decades. "Make in India" is also the focus of the Government. One of the strengths of Navrachana University has been in its traditional Core Engineering Programs (Mechanical, EEE, Civil). However, major changes are happening in India and abroad in the area of Core Engineering. Renewable Energy, Automation and increased integration of Computing Sciences with Core Engineering is the order of the day. Our School of Engineering has consciously made this a focus area. The following were the achievements of the School of Engineering:

1. A major revamp in the Engineering curriculum has been done. A significant change is the introduction of Project Based Learning. Every course

in every year will have a Project component and in the Final Year, a complete 6-month Project would be done by the student in an organisation with joint evaluation by the Industry Mentor and the Faculty.

2. To enable extensive Industry, connect and Project based learning, the School of Engineering has signed several MOU's with the Industry. All these organisations have agreed to accommodate our students for one Semester Internships as well as for Projects for various courses. In addition, many of these organisations have agreed to partner with our University for several activities such as Research, Teaching, Guest Sessions, course curriculum development etc. A partial list of these organisations is given below:

Siemens Ltd, Composite Excellence Centre of Asia, MGVCCL, Zeus Numeric Pune, Zion Engineering etc.

The School of Engineering and Technology conducted several funded Workshops for students and professionals. The funding for these Workshops came from prestigious organisations such as the Gujarat Council of Science and Technology (GUJCOST), Gujarat Energy Development Agency (GEDA) etc. These Workshops and Faculty Development Programs were in cutting edge areas such as Energy Conservation, Composite Materials, Automation Tools etc. In addition, the School also organised several Short Term Training Programs in areas such as Molecular Gas Dynamics (jointly with IIT Kanpur), Scientific Computing, Python Programming, Advances in Civil Engineering etc.

### **Research Projects**

Research Projects funded by prestigious organisations such as the DRDO (Defence Research and Development Organisation), DAE (Department of Atomic Energy) and the DST (Department of Science and Technology) are currently in progress and are at various stages.

### **Consultancy**

Research and Consulting work done by Faculty will ultimately get translated into the classroom teaching. It is very heartening to note that the School of Engineering and Technology successfully completed a Consulting Project "The Design of a 3D Mixer" for a Mumbai based manufacturing organisation.

### **Patents**

Two Patents have been filed and Patent numbers have also been received. These are in the areas of heat pipes with composite structures and also the optical behaviour of chiral materials.

Several student chapters and clubs were introduced including the ACM Student Chapter, Google Developers Club, Mozilla@NUV Club, Automates@NUV Club and a Hack Club. Several activities were held under these Clubs involving students from Navrachana University and other Universities as well.

### **Infrastructure Upgrade**

Advanced Manufacturing Lab: The School of Engineering and Technology has set up an Advanced Manufacturing Lab. This Lab includes a state of the art Robotic Arm from Germany along with CNC Machine and 3D Printers. The School also has set up a High Performance Computing Lab with 8 Blade servers. This will be used to give students and Faculty exposure to areas such as high end computational fluid dynamics, finite element analysis and big data applications across disciplines.

The collaboration with the Thomas J Watson School of Engineering of the State University of New York, Binghamton, USA, is making good progress. Several joint programs were held in the field of Additive Manufacturing, Machine Learning, Autonomous Systems and Artificial Intelligence in Manufacturing.

## ■ School of Business and Law

The School of Business and Law is the second largest School of the University in terms of student strength. The School has signed an MOU with the CII Young Indians to collaborate with Industry. This collaboration will give our students exposure to several organisations and projects. A Consulting project in the area of supply chain management has been completed by the School for a large Mumbai based manufacturing organisation. Around 200 students were placed by the School for Corporate and Social internships with various organisations, despite the pandemic. These internships were done virtually due to the lockdown and pandemic. The School also organised various Conclaves in the areas of Marketing, HR and Finance.

The Law Program collaboration with the Gujarat National Law University is also making very good progress. A National Level Faculty Development Program was organised. Several Conferences in the areas of Law and Technology, IPR, Environment Law and Consumer Awareness Laws were organised. The Law Program also was awarded their first funded project from the Government of Gujarat, through the Gujarat National Law University, for research on IPR.

## ■ School of Environment Design and Architecture

Several innovations have been pioneered by SEDA. The concept of Pre-Teaching Seminars was introduced in which the Faculty discuss with their colleagues, through a Seminar, their Course and their pedagogy of teaching and get feedback and suggestions on improvement. The entire curriculum starting Academic Year 21-22 has been revamped and has been made very flexible with students being encouraged to tailor make their Architecture and Design degrees.

A Global Design Challenge was held by SEDA to design Open Spaces post the pandemic. This was

done in a proactive manner, during the pandemic. Participation was from SEDA students and also from leading Schools of Architecture in India and abroad.

Around 25 public talks by leading Architects in India and from abroad were held. Two talk series "Fresh from the Oven" (young practitioners discuss their journey with current students) and "In Tune with Nature" (leading Architects focussing on environment sensitivity spoke to students)

SEDA has set up the NUV Centre for Heritage Research which is an interdisciplinary Centre focusing on natural heritage and living heritage. Several projects were done under this Centre. The collaboration with the North Dakota State University is also going on very well with Faculty from both Schools being on Juries of each other Schools as external experts. SEDA Faculty and students have won several accolades Nationally and Internationally including the Charles Correa Top Six Best Design Thesis, invitation to be on the Niti Aayog Panel, as well as on the Committees of International Conferences

## ■ School of Science

The School of Science, the youngest School of the University, has forged ahead in the areas of innovation, collaboration and research. The School of Science has tied up with both Industry and Academia both in India and abroad. Some of these collaborations include the following:

- Mel and Enid Zuckerman College of Public Health of the University of Arizona, USA
- The Polytechnic University of Marche, Italy
- University of Calgary, Canada
- Albert Einstein Institute of Medicine New York
- Mount Sinai Hospital, New York
- Co-Sara Diagnostics, USA and Vadodara
- Community Science Centre, Vadodara
- Gujarat Life Sciences Ltd.
- Catalysis Society of India

The School of Science continued to innovate in Curriculum and delivery of courses both during the online phase and the hybrid phase. Lab work and experiments are very important components of the Curriculum and the School innovated through a tie up with a Harvard Alumni start up, LabXchange, which provided a platform to simulate the life sciences, chemistry and physics lab experiments. The School of Science has innovative practices of making a research culture all pervasive within the School.

Research and publications by the School continued to be strong. The School has made around 30 publications in top tiered Journals such as Springer Nature, Elsevier, American Chemical Society Journal, Royal Society of Chemistry Journal, Taylor and Francis Journals. Three book chapters have also been published by Springer Nature and Elsevier.

Three research projects funded by the Department of Science and Technology Science and Research Board are currently in various stages of progress.

In addition, around 18 funded projects have been applied for.

### ■ School of Liberal Studies and Education

The focus of the School has been to relook at their curriculum and conduct various external connect activities to enhance student learning and interaction with the outside world. Keeping this in mind, the BEd. Program organised a very interesting and relevant Seminar on Artificial Intelligence in Education. In addition, the Faculty of BEd participated in a session in the Navrachana University – University of Arizona Conference on Public Health. Session on Critical Thinking were also held. The B.Ed. students and Faculty organised and participated in several sessions on the New Education Policy.

The Journalism Program organised an International Conference on Media Studies jointly with the Arab Open University. The Program also conducted a Media Research workshop for students. The Masters





in Social Work Program organised a National Conference on the Future of Social Work in which there were eminent speakers and participants from all over India.

#### **Center for Education Innovation and Research:**

Two books have been published by the Center. The first book is a compilation of papers presented by experts from India and abroad and discussed in the Vichar Vimarsh Idea Fest 2020. The second is a transcreation of a portion of Gitanjali by Tagore. The Centre also organised the Second Vichar Vimarsh Idea Fest on the theme "Digital Spaces" with speakers from Holland, Poland and Singapore. The Center has also launched an Education blog and an Education Podcast series. These will be platforms for discussion and deliberation on various topics of Education. This will cover school Education and Higher Education as well.

#### **Center for Environment Research and Innovation**

The Navrachana University Center for Education Innovation and Research has tied up with the Center for Environment Education to work together in various areas of environment protection. This includes joint projects, internships, student competitions, training programs – all connected with the protection of the environment. The CEE had organised a global Tide Turners challenge to spread awareness of plastic pollution and Navrachana University students participated in this challenge. Two teams of students of Navrachana University were decaled in the top 20 amongst more than 800 teams which had participated.

#### **Center for Heritage Research**

The Center for Heritage Research organised three major activities:

1. A study and documentation of the works of Laurie Baker in Vadodara was done, highlighting the architectural innovations of his buildings.

2. A study and documentation of the narrow gauge railway of the erstwhile Baroda State was done.
3. An innovative project of geotagging the Banyan (Vad) trees of Vadodara was also done
4. A public exhibition and Heritage walks were also organised.

#### **Center for Public Health**

The Center was set up through the collaboration with the Mel and Enid Zuckerman College of Public Health, University of Arizona, USA. The Center organised a very successful interdisciplinary virtual Conference on Public Health. The Conference had around invited 15 speakers from around the world and around 100 papers were presented at the Conference. The Conference also had nearly 400 delegates attending the Conference. The topics included Public Health issues in the areas of Management, Law, Science, Engineering, Architecture, Social Work, Education and Journalism. The Centre is also working on a tie up with hospitals in Vadodara.

#### **Center for Professional Education**

The Center for Professional Education conducted several Training Programs, Webinars, and Self Learning Programs.

The Center conducted 10 training programs for internal and external participants and conducted webinars on different topics, including joint webinars with GELRAD USA and Binghamton University USA.

Several Self learning programs have been uploaded on the on Learning Management System. These include:

- 1) Lean Six Sigma - White Belt Certification
- 2) Introduction to Lean Six Sigma
- 3) Short Term Training Program on Scientific Computing using Python Programming
- 4) Faculty Development Program on Mentoring

5) Managing Data using MS Excel

6) Advance Data Analysis using MS Excel

Around 100 Webinars were conducted across all the disciplines of the University. In addition, the Center also conducted Virtual Panel Discussions and Virtual Conferences

Around 10 Short Term Training Programs were completed for various organisations. One long duration Executive Program for Management exclusive for a Company was also launched.

Other Major Achievements of the University

1. The unique innovations of our University KHOJ (a compulsory graded interdisciplinary social innovation project) and our Interdisciplinary courses (compulsory graded interdisciplinary courses) have been streamlined. A formal collaboration with the AATAPI Foundation for KHOJ projects has also been completed.
2. Five SSIP Projects have been funded by the SSIP. These include 2 from Science, 2 in Mechanical Engineering and 1 in Management.
3. In the AY 20-21, the University has produced four PhD's. Three are from the School of Liberal Studies and Education and one is from the School of Business and Law
4. Several Alumni Connect activities across Schools were conducted. Alumni from USA, Germany, Canada, India participated and gave career guidance talks for our students.
5. The University Library celebrated Librarian's Day in August 2020 with an excellent virtual talk on "Measuring Research Output and Promoting Research Visibility" by the Dy. Librarian of the University of Delhi. This was organised jointly with the Library Professionals Association and more than 1000 Information Professionals from around the world attended

The Library also launched the NavGyan portal which has curated open source journals and articles of leading authors and publishers. This was very useful in the pandemic since students and Faculty could use these digital resources instead of the physical ones.

6. The University took a decision to apply for NAAC Accreditation in 2019, but due to the pandemic the process was slowed down. However, from January 2021 the work has started in full swing and the University will be submitting the Self Study Report in the first quarter of 2022.
7. The National Cadet Corp (NCC) has been established at Navrachana University in March 2021. There are 60 students of Navrachana University in the Army Wing of the NCC. This will help tremendously in character building and discipline.
8. For the very first time, Navrachana University organised a Doctoral Colloquium. This was done online and several Doctoral Scholars from the University and outside presented, discussed and deliberated on their research and experts gave them valuable inputs. This has been named NUV Shodhan and this will be a regular annual feature of our University
9. The University invested in a Learning Management System and Faculty and students have been trained on its usage. In the increasing hybrid world of Education, the Learning Management System will continue to be a major tool in the delivery of blended learning.

In the forthcoming Academic Year 2021-2022 the University will continue to strive towards strengthening all the initiatives taken so far keeping in mind our core philosophy of being innovative, interdisciplinary and to work with a social conscience for the betterment of our Nation and humankind.

## Message from Registrar



**Dr. Sandeep Vasant,**  
*Registrar,*  
*Navrachana University*

I am pleased to share some of the initiative undertaken in the academic year July 2020 - June 2021. The Office of the Registrar is a dynamic unit that has worked collectively to enhance internal administration while also maintaining collaborative partnerships with stakeholders and other members of the community.

The year gone by, has been an unprecedented year with many organizational challenges. To meet these, the University initiated processes and systems to address the needs of students, faculty/staff and the community.

The University moved ahead with digitization and brought within its ambit, systems and processes to enrich academic and administrative procedures. With the help of these, we effectively coordinated the entire process from student registration to graduation, managed the student information system in terms of needed academic records, designed the academic calendar for smooth functioning and ensured efficient maintenance of the infrastructure. Streamlining administrative tasks has brought back the focus on teaching.

Use of technology for knowledge enrichment was maximised during the pandemic period. Faculty and students benefitted immensely from the webinars conducted with Universities abroad – international experts shared their thoughts and research experiences enriching the educational space.

It was during this time that the Faculty were familiarised extensively with the Learning Management system - LMS, which is now an invaluable partner in all our academic activities.

Our campus is a significant enabler to our endeavours to offer high quality tertiary education. The University has a very good infrastructure in terms of well-equipped laboratories, library, amphitheatre and a fully wi-fi enabled campus. With an intention of expanding and making good quality education available to all, the University made available excellent facilities for students coming from outstation. Alumni forums were created and they were encouraged to connect with their alma mater; share their experiences and help University graduates with their experiences, inputs and suggestions.

I take this opportunity to thank the NUV academic fraternity for their support in all the aforementioned academic endeavours.

We remain committed to a rich academic climate through effective administration, automation and keeping pace with changing trends.

# Board of **Governers**



**Shri Rahul Amin**  
Chairman BOG  
Chairman & Managing Director  
Jyoti Ltd.



**Smt. Tejal Amin**  
Member  
Chairperson  
Navrachana Education Society



**Dr. Nilay Yajnik**  
Member (ex-officio)  
Provost  
Navrachana University



**PadmaShri Dr. M.H. Mehta**  
Member  
Chairman  
Gujarat Life Science Pvt. Ltd.



**Dr. TKS Lakshmi**  
Member  
Retired Professor  
Banasthali Vidyapith



**Dr. Indira Parikh**  
Member  
Former Founder President  
Flame



**Dr. Subhash Bhatnagar**  
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**Shri Sudhir Mankad**  
IAS Member  
Retired Chief Secretary  
Govt. of Gujarat



**Shri Sameer Kherra**  
Member  
Managing Director  
See Linkages Pvt. Ltd.



**Shri S.J. Haider**  
IAS Member  
Principal Secretary  
Higher Education, Govt. of Gujarat



**Dr. Sandeep Vasant**  
Member (ex-officio)  
Registrar  
Navrachana University

# Board of Management



**Shri Rahul Amin**  
Chairman BOG  
Chairman & Managing Director  
Jyoti Ltd.



**Smt. Tejal Amin**  
Member  
Chairperson  
Navrachana Education Society



**Dr. Nilay Yajnik**  
Member (ex-officio)  
Provost  
Navrachana University



**CA Abhay Desai**  
Member  
Chartered Accountant  
Yagnesh Desai and Co.



**Shri Mayur Thakkar**  
Member  
President  
NEXSA



**Shri Pradeep Sinha**  
Member  
Industrial Designer



**Smt. Sandhya Gajjar**  
Member  
Managing Trustee  
Bhasha Research



**Shri Nilesh Shukla**  
Member  
President  
India SME Forum, Gujarat Chapter



**Dr. Sandeep Vasant**  
Member (ex-officio)  
Registrar  
Navrachana University

# Academic Council



**Dr. Nilay Yajnik**  
Member (ex-officio)  
Provost  
Navrachana University



**Dr. Sandeep Vasant**  
Member (ex-officio)  
Registrar  
Navrachana University



**Prof. Michael Aruldas**  
Former HOD,  
Dept of Endocrinology  
University of Madras, Chennai



**Shri Shishir Joshipura**  
MD and CEO  
Praj Industries Ltd.



**Dr. Madhukumar Mehta**  
Renowned Technopreneur



**Prof. Sujata Patel**  
Professor  
Dept. of Sociology  
University of Hyderabad



**Prof. A.V. Ramachandran**  
Mentor  
School of Science  
Navrachana University



**Prof. Pratyush Shankar**  
Dean - SEDA  
School of Science  
Navrachana University



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Associate Professor - SLSE  
Navrachana University



**Dr. Amarish Badgajar**  
Head-SET,  
Associate Professor  
Navrachana University



**Dr. Hitesh Bhatia**  
Associate Dean - SBL,  
Associate Professor  
Navrachana University



**Dr. Sandeep Patil**  
Associate Professor and  
Program-Chair Chemistry  
Head - Unversirty Research cell  
Navrachana University



**Dr. Mandira Sikdhar**  
Associate Professor and  
Program-Chair - Ph.D,  
Navrachana University



**Dr. Vandana Talegaonkar**  
Associate Professor  
School of Liberal Studies and  
Education  
Navrachana University



**Dr. Dinesh Panchal**  
Assistant Professor,  
Head - CPE  
Navrachana University



## RANKING AND ACCREDITATION

A pioneering attempt towards recognizing world-class institutions in Gujarat, GSIRF is a partnership between Knowledge Consortium of Gujarat (KCG) and ICARE - India's most trusted institution ranking & rating authority.

School of Science, School of Environmental Design & Architecture, and School of Business & Law each received a 4-star in 2021, GSIRF rating. The overall GSIRF rating of the University for 2021 is 3-star.







The Executive Committee of the **Knowledge Consortium of Gujarat, Department of Education, Government of Gujarat** on the recommendation of the duly appointed agency, the Indian Centre for Academic Rankings and Excellence (**ICARE**) has rated

*Navrachana University*  
*School of Science*



as a **4 Star** Institution with a CGPA of **3.9 out of 5** in the category of '**COLLEGE**' on the basis of comprehensive performance metrics as set out in the **Gujarat State Institutional Ratings Framework (GSIRF)** on the 22<sup>nd</sup> June 2021.

PARAMETER	STAR RATINGS
TEACHING, LEARNING & RESOURCES	★★★★★
RESEARCH AND PROFESSIONAL PRACTICE	★★★★
GRADUATION OUTCOMES	★★★★
OUTREACH AND INCLUSIVITY	★★★★

**BY ORDER**

**Anju Sharma IAS**  
Principal Secretary  
Education  
Government of Gujarat

**Shri M Nagarajan IAS**  
CEO  
Knowledge Consortium of Gujarat  
Government of Gujarat

**Prof A U Patel**  
Advisor  
Knowledge Consortium of Gujarat  
Government of Gujarat

**Dr Karthick Sridhar**  
Vice Chairman  
ICARE

VALID UPTO 30<sup>th</sup> MAY 2022



The Executive Committee of the **Knowledge Consortium of Gujarat,**  
**Department of Education, Government of Gujarat** on the  
 recommendation of the duly appointed agency, the Indian Centre for Academic  
 Rankings and Excellence (**ICARE**) has rated

*Navrachana University*



as a **4 Star** Institution with a CGPA of **3 out of 5** in the category of  
**'ARCHITECTURE'** on the basis of comprehensive performance metrics as set out in the  
**Gujarat State Institutional Ratings Framework (GSIRF)**  
 on the 22<sup>nd</sup> June 2021.

PARAMETER	STAR RATINGS
TEACHING, LEARNING & RESOURCES	★ ★ ★ ★
RESEARCH AND PROFESSIONAL PRACTICE	★ ★ ★
GRADUATION OUTCOMES	★ ★ ★
OUTREACH AND INCLUSIVITY	★ ★ ★ ★

**BY ORDER**

**Anju Sharma IAS**  
 Principal Secretary  
 Education  
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 CEO  
 Knowledge Consortium of Gujarat  
 Government of Gujarat

**Prof A U Patel**  
 Advisor  
 Knowledge Consortium of Gujarat  
 Government of Gujarat

**Dr Karthick Sridhar**  
 Vice Chairman  
 ICARE

VALID UPTO 30<sup>th</sup> MAY 2022



The Executive Committee of the **Knowledge Consortium of Gujarat,**  
**Department of Education, Government of Gujarat** on the  
 recommendation of the duly appointed agency, the Indian Centre for Academic  
 Rankings and Excellence (**ICARE**) has rated

*Navrachana University*



as a **4 Star** Institution with a CGPA of **3.7 out of 5** in the category of  
**'MANAGEMENT'** on the basis of comprehensive performance metrics as set out in the  
**Gujarat State Institutional Ratings Framework (GSIRF)**  
 on the 22<sup>nd</sup> June 2021.

PARAMETER	STAR RATINGS
TEACHING, LEARNING & RESOURCES	★★★★★
RESEARCH AND PROFESSIONAL PRACTICE	★★★★
GRADUATION OUTCOMES	★★★★
OUTREACH AND INCLUSIVITY	★★★

**BY ORDER**

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 Government of Gujarat

**Prof A U Patel**  
 Advisor  
 Knowledge Consortium of Gujarat  
 Government of Gujarat

**Dr Karthick Sridhar**  
 Vice Chairman  
 ICARE

VALID UPTO 30<sup>th</sup> MAY 2022



The Executive Committee of the **Knowledge Consortium of Gujarat,**  
**Department of Education, Government of Gujarat** on the  
 recommendation of the duly appointed agency, the Indian Centre for Academic  
 Rankings and Excellence (**ICARE**) has rated

*Navrachana University*



as a **3 Star** Institution with a CGPA of **2.7 out of 5** in the category of  
**'UNIVERSITY'** on the basis of comprehensive performance metrics as set out in the  
**Gujarat State Institutional Ratings Framework (GSIRF)**  
 on the 22<sup>nd</sup> June 2021.

PARAMETER	STAR RATINGS
TEACHING, LEARNING & RESOURCES	★ ★ ★
RESEARCH AND PROFESSIONAL PRACTICE	★ ★ ★
GRADUATION OUTCOMES	★ ★ ★ ★
OUTREACH AND INCLUSIVITY	★ ★ ★ ★ ★

**BY ORDER**

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**Prof A U Patel**  
 Advisor  
 Knowledge Consortium of Gujarat  
 Government of Gujarat

**Dr Karthick Sridhar**  
 Vice Chairman  
 ICARE

VALID UPTO 30<sup>th</sup> MAY 2022



## SCHOOL OF BUSINESS AND LAW

### PROGRAMS OFFERED AND STUDENTS

#### ENROLMENT: 2020-21

Programs Offered	No. of Students enrolled for the year 2020-2021	No. of students for the year 2020-2021 (Cumulative)
BBA-LLB	18	64
BBA	172	406
MBA	59	121
<b>TOTAL</b>	<b>249</b>	<b>584</b>

Working in close association with industry and academic experts, right from Curriculum development to students' projects, internships and work placements, School of Business and Law at NUV, Vadodara, Gujarat offers several unique undergraduate and postgraduate programs in the field of Management (BBA and MBA) and Law (BBA-LLB Integrated).

#### ■ The School aims at:

- Making students learn, assimilate and practice the skills required to excel in today's dynamic world.
- Focussing on basic concepts and theories of management and computer applications in business along with real-life practice to develop managerial and decision-making skills of students.
- Developing the right kind of values, ethics and attitudes required for becoming socially responsible citizens.

#### ■ COLLABORATIONS & MOU'S

(Name of the organisation and purpose)

- Entropik Technologies Pvt Ltd for Faculty Training, Workshops for Industry and Students Project
- CII - Young India for Students Internships and Seminars
- Gujarat National Law University for Conferences

#### ■ AWARDS/RECOGNITION OF TEACHERS

**Dr. Anupama Chirag Dave** awarded the Best Paper at the International Online Conference titled 'Impact of COVID-19 on Indian Economy' organized by Department of Economics and Centre for Research in Economics, Madurai, Tamil Nadu, India - 23rd November 2020..

**Dr. Sujatha Patil**, Honourable Mention Paper Award at International Virtual Conference on "Effective use of ADR Process in Construction Industry" organised by Adani Institute of Infrastructure Management, Ahmedabad

**Dr. Sujatha Patil**, Awarded "IP Director & HOD of the Year 2021" by Intellectual Property and Promotion Organisation.

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## RESEARCH PAPERS PUBLISHED IN JOURNALS

(Name of the Faculty, Title of paper, Name of Journal, ISSN Number)

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**Dr. Ajay Kumar Sinha & Dr. Pradeep K Behera**, Application of ISM for the analysis of issues in Reverse Logistics for the viability of Automobile Remanufacturing in India, *International Journal of Business and Management Invention (IJBMI)*, 2021. ISSN-2319-8028.

**Dr. Anupama Chirag Dave & Ms. Rinky Trivedi**, Predicting Youngster's Attitude towards Online Food Delivery, *International Research Journal of Business Studies IRJBS*, (UGC CARE LISTED), 2020. ISSN-2089-6271.

**Dr. Anupama Chirag Dave & Ms. Rinky Trivedi**, Predicting Youngster's Attitude towards Online Food Delivery, *International Research Journal of Business Studies*, 2020. ISSN-2089-6271.

**Dinesh Panchal & Bala Krishnamoorthy**, Emerging perspectives on business model typologies, *International Journal of Business Excellence*, 2020. ISSN-1756-0055.

**Madhura Thombre**, Management and Humanities Deconstructing Deep fake: Tracking legal Implications & Challenges International Journal of Law, Vidhi Aagaz Publication. ISSN-2581-5369.

**Neha Taneja Chawla & Hitesh Bhatia**, A Study on the Influence of Education and Demographic Variables on the Entrepreneurial Self Efficacy (ESE), *Adhyayan: A Journal of Management Sciences*, 2020. ISSN-2249-1066, E-ISSN-2455-8656.

**Neha Taneja Chawla & Hitesh Bhatia**, A Study on Evolution of Models Measuring Entrepreneurial Intention, *Interwoven: An Interdisciplinary Journal of Navrachana University*, 2021, ISSN-2581-9275.

**Neha Taneja Chawla & Hitesh Bhatia**, Measuring Entrepreneurial Self-efficacy: A Comprehensive Scale, *Sage Journal of Entrepreneurship and Innovation in Emerging Economies*, 2021. ISSN-2393-9575.

**Nikita Rangoonwala & Hitesh Bhatia**, Application of Artificial Neural Network to Predict Wilful Default for Commercial Banks, *Journal of Business Analytics and Intelligence*, ProQuest, EBSCO, 2020. ISSN-2321-1857.

**Nikita Rangoonwala**, Evaluation of Bankruptcy Prediction Models, *Interwoven: An Interdisciplinary Journal of Navrachana University*, 2020. ISSN-2581-9275.

**Pritha Gawande, K. Agrawal & Anupama Dave**, Changing paradigm of promotions – A study on Tour Operators of Saurashtra region, *Journal of Huazhong University of Science and Technology*, 2021. ISSN-1671-4512.

**Sarika Srivastava & Anupama Dave**, COVID 19 Scenario of online education: A study based on acceptance level of online learning among students of Gujarat during Lock-Down, CIET's journal, *Indian Journal of Educational Technology (IJET)*, 2021. ISSN-2581-8325.

**Dr. Sujatha S. Patil**, Bolar Provision: An Experimental Use Exception to Patent Monopoly, *Mukt Shabd Journal*, (UGC CARE LISTED), 2020. ISSN-2347-3150.

**Dr. Sujatha S. Patil**, Constitutional Validity of the Provisions of Insolvency and Bankruptcy Code, *Mukt Shabd Journal* (UGC CARE LISTED), 2020. ISSN-2347-3150.

**Tohid Kachwala, Dinesh Panchal, Shaileja Rego, & Pradeep Pai**, Relationships between service quality, customer satisfaction & customer loyalty in hotel services, *Journal of Hospitality Application and Research*, 2020. ISSN-0973-4538.

**Tohid Kachwala, Dinesh Panchal, & Pradeep Pai**, The critical dimensions of TOM in hospitality services, *Journal of Hospitality Application & Research*, 2021, ISSN-0973-4538.

**Tohid Kachwala, Dinesh Panchal, & Bali A.**, The Relationships among Overall Service Quality, Customer Satisfaction and Customer Loyalty in Library Services., *International Journal of Productivity and Quality Management*, 2021. ISSN-1746-6474

## BOOKS CHAPTERS PUBLISHED

(Name of the teacher, title of the book/chapters published, title of the paper, title of the proceedings, ISSN nos. Name of the publisher)

**Dr. Amol Ranadive**, *What Gamers Want – A Framework to Predict Gaming Habits*, Orange Book Publication, Bangalore. ISBN-978-93-90489-76-3

**Dr. Amol Ranadive**, Significance of Neuromarketing Techniques for Measuring Effectiveness of Promotions during COVID-19, Nirma University.

**Dr. Amol Ranadive**, Measuring Product Involvement for Organic Food Products: A Case Study of Vadodara City, Prestige Institute of Management, Gwalior, Madhya Pradesh.

**Chandrika Tewatia Raj**, Changing Contours of Criminal Law in India, Decriminalization of Drugs: A solution viable in India, Laxmi Publication Pvt. Ltd. ISBN: 978-93-5274-653-8

**Dr. Hitesh Bhatia**, No Poverty: Encyclopaedia of the UN Sustainable Development Goals. Springer, Cham. Anti-poverty Initiatives: Reducing Multidimensional

Poverty and Deprivation, Springer Cham. ISBN-978-3-319-95713-5.

**Dr. Hitesh Bhatia**, Decent Work and Economic Growth. Encyclopaedia of the UN Sustainable Development Goals. Springer, Cham., Emerging Trends in Productive Employment, Springer Cham. ISBN-978-3-319-95866-8.

**Madhura Thombre**, Interface Between Law and Technology, The curious case of Modern Cyber Warfare: Issues and Challenges. ISBN 978-81-950434-4-6.

**Navin Sinha, Madhura Thombre, Hitesh Bhatia**, Peace, Justice and Strong Institutions. Encyclopaedia of the UN Sustainable Development Goals. Moving Towards an Informative and Transparent Justice System, Springer Cham. ISBN-978-3-319-71066-2.

**Neha Taneja Chawla & Dr. Hitesh Bhatia**, Entrepreneurship education in India: Relevance and Limitations.

**Neha Taneja Chawla & Dr. Hitesh Bhatia**, A study on influence of entrepreneurship education and demographic variables on the entrepreneurial self-efficacy (ESE).

**R. Trivedi & Anupama Dave**, Sustainable Finance for better world Digital Payment System – Customers Perspectives on Factors of Sustenance, Eureka Publication. ISBN-978-81-951108-4-1.

**Ms. Stella Joice**, The Interface between Law and Technology Sustainability through Green Buildings: A study with respect to Real Estate, Environmental Protection and the SDG's. ISBN: 978-81-950434-4-6.

## CONFERENCES ORGANISED

- 2<sup>nd</sup> Entrepreneurship Summit on 7<sup>th</sup> and 8<sup>th</sup> February 2020
- 3<sup>rd</sup> Entrepreneurship Summit on 9<sup>th</sup> and 10<sup>th</sup> April 2021.



- National Seminar on Law and Social Transformation in India on 21<sup>st</sup> January 2021
- International Conference on the Interface between Law and Technology on 30<sup>th</sup> January 2021.
- Workshop on Intellectual Property Rights (IPR) Patent & Designs process on 10<sup>th</sup> October 2021.
- Intellectual Property Rights: Strategies & Approaches for Start-ups & MSMEs Growth on 15<sup>th</sup> May 2021.

#### ■ CONFERENCE PARTICIPATION:

- **Firdos Solanki** attended a Program in Supply Chain Digitalization and Management from National Institute of Industrial Engineering Mumbai in collaboration with MIT, USA.
- **Neha Taneja Chawla** attended EDI 14<sup>th</sup> Bi-Annual Conference.

#### ■ PROGRAMS CONDUCTED FOR STUDENTS AND TEACHERS

**June 2020 to Sept 2020** Quality & Six Sigma

**Oct 2020 to Jan 2021** Faculty Development Programme on "Emerging Trends in Legal education: Issues, Challenges & Innovative responses", 2<sup>nd</sup> HR

Conclave Up-Skilling – Re-Skilling and the Future of Workplace, Interview Skills, Attitude is Everything, Trading Alpha - Stock Simulation Competition, Lecture on Critical Legal Research and International Conference on the Interface between Law and Technology, Candid with committee, Business Idea Presentation

**Feb 2021 to May 20 21** Civil Procedure and Court System, E Filing & Conference in Gujarat High Court, 2 Day Online Symposium - Online Symposium Themed Marine, Introduction to Neuromarketing and its Applications in Advertising & Branding

#### ■ EVENTS/ACIVITIES ORGANISED

**June 2020 to Sept 2020** Inter-class Debate Competition, Painting & Sketching competition, Photography competition, Teacher's Day celebration

**Oct 2020 to Jan 2021** International Conference on the Interface between Law and Technology, Legal Aid Awareness, National Moot Court Competition, Workshop on Intellectual Property Rights (IPR) Patent & Designs process, Azadi ka Amrit Mohatsav (Probono legal activities), Opinion Writing Competition, Slogan and Poster Making Competition

**Feb 2021 to May 2021** The Rising Stars, Feb Fest, Reminisce-Magazine Release, Parivartan



## SCHOOL OF ENGINEERING AND TECHNOLOGY

### PROGRAMS OFFERED AND STUDENTS

#### ENROLMENT: 2020-21

Programs Offered	No. of Students enrolled for the year 2020-2021	No. of students for the year 2020-2021 (Cumulative)
B.Tech in Computer Science & Engineering	107	310
B.Tech in Information Technology	3	102
B.Tech in Mechanical Engineering	13	131
B. Tech in Electrical & Electronics Engineering	13	57
B. Tech in Civil Engineering	23	118
M. Tech in Thermal Engineering	2	5
M. Tech in Power Systems Engineering	2	4
M. Tech in Structural Engineering	9	13
M. Tech in Computer Science & Engineering	2	4
Bachelor of Computer Application	55	159
Bachelor of Science In Data Science	11	25
<b>Total</b>	<b>240</b>	<b>928</b>

To emerge as a center of excellence for holistic higher education, the University has established a top-class School of Engineering and Technology as a key provider of knowledge through teaching, research and industry connect in the field of Engineering and Technology. The school offers a curriculum that lays emphasis on theory as well as the application of engineering concepts.



### ■ It emphasizes

- Knowledge of core engineering with strong laboratory and workshop components.
- State-of-the-art modern curriculum incorporating the best engineering concepts and practices.
- Hands-on-training for better understanding of real-life applications.
- Continuous evaluation and closed loop feedback system enhancing self-motivation, transparency and learning.
- Industry-Academia partnership for better understanding of engineering education and its applications.
- Broad-based education and holistic development via Courses in humanities, management and communication skills.

### ■ COLLABORATION & MOUs

(Name of the organisation and purpose)

- IBM for train the trainer sessions, designing the course of IoT, Develop the Projects from the students.
- Ascendtis, Panacea Software, Pixelotech, Zion Engineering Works, Capiq Engineering Pvt Ltd and MGVCCL for Internship and Placements.
- Composite Excellence centre of Asia for Projects, Training Sessions, Seminars

### ■ AWARDS/RECOGNITION OF TEACHERS

- **Dipali Pandya**, Best paper Award by Satyabhama Institute of Science and Technology, Chennai, jointly Organized by Centre for Nanoscience and Nanotechnology.
- **Dr. Pallavi Ghalsasi**, Reviewer for PhD Thesis - HBNI by Homi Bhabha National Institute, Department of Atomic Energy.



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## RESEARCH PAPERS PUBLISHED IN JOURNALS

(Name of the Faculty, Title of paper, Name of Journal, ISSN Number)

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**A. Patel, M. Sangewar & H. Desai**, Comparative Analysis of Maximum Power Point Tracking Techniques in a Solar PV System, *International Journal for Research in Applied Science & Engineering Technology*, ISSN-2321-9653.

**Adarsh Thakur, Saloni Pandya & Ajanta Sachan**, Dynamic behaviour and characteristic failure response of low plasticity cohesive soil, *International Journal of Civil Engineering, Springer*, ISSN-1735-0522, E-ISSN-2383-3874.

**Akshay Goraniya & Prakruti Shah**, HVDC transmission line transient power protection: A review, *International Journal of Electrical Power System and Technology*, ISSN-2455-7293.

**Amit Kumar Singh, Vaibhav C. Gandhi, M. Madhusudhana Subramanyam, Sarvesh Kumar, Sandeep Aggarwal & Shivam Tiwari**, A Vigorous Chaotic Function Based Image Authentication Structure, *Journal of Physics: IOP Science Conference Series*, ISSN-1742-6588, e-ISSN-1742-6596.

**D. Bhuvir & H. Desai**, Techniques for Enhancing Performance of Parabolic Trough Systems: A Review, *International Research Journal of Engineering & Technology*, ISSN-2395-0056, e-ISSN-2395-0072.

**D. Bhuvir & H. Desai**, Advances in Solar Photovoltaic Technology: A Review, *International research journal of engineering & technology*, ISSN-2395-0056, e-ISSN-2395-0072.

**D.R. Parmar, R.H. Rayani, A.G. Vala, R.V. Kusurkar, R.K. Manvar, S.N. Talukdar, Preeti, V. Zunjar, S. Battula & J.Y. Soni**, Design, Synthesis, *Silico Studies and in Vitro Anticancer Activity of 3-(4-Methoxyphenyl) azetidine Derivatives*, *Chemistry Select*, ISSN-2365-6549.

**Deepa R. Parmar, Jigar Y. Soni, Ramakrishna Guduru, Rahul H. Rayani, Rakesh V. Kusurkar, Anand G. Vala, Sahista N. Talukdar, Ibrahim H. Eissa, Ahmed M. Metwaly, Ahmed Khalil, Vishwanath Zunjar & Satyanarayana Battula**, Discovery of new anticancer thiourea-azetidine hybrids: design, synthesis, in vitro antiproliferative, SAR, in silico molecular docking against VEGFR-2, ADMET, toxicity, and DFT studies, *Bioorganic Chemistry*, ISSN-0045-2068.

**Dhruvi Bhuvir, Dhrumi Bhuvir & Prakruti Shah**, An Experimental Study on Pollution Flashover: A Review, *International Research Journal of Engineering and Technology*, ISSN-1549-1556.

**Dipali Pandya, A. D. Badgujar & N. D. Ghetiya**, A novel perception toward welding of stainless steel by activated TIG welding: A review, *Journal of Materials and Manufacturing Processes*, ISSN-1042-6914, E-ISSN-1532-2475.

**Ms. Gayatri Chavan, Ms. Jyoti Tiwari & Ms. Babita Patel**, Literature Survey on Cloud Cryptography for Data Security, *International Journal of Advanced Research in Computer and Communication Engineering*, ISSN-2278-1021.

**Ms. Gayatri Chavan, Ms. Jyoti Tiwari & Ms. Babita Patel**, Literature Survey on Efficient Energy Management Using Green Cloud Computing, *International Journal of Advanced Research in Computer and Communication Engineering*, ISSN-2278-1021.

**Hiral H. Parikh & Dr. Kedar Pathak**, Fabrication and Characterization of Heat Pipe with Composite Structure for the Adiabatic Section, *Current Materials Science*, ISSN-1874-4648.

**Dr. Hiral Parikh & Dr. Piyush Gohil**, Experimental Evaluation and Estimation of Frictional Behavior of Polymer Matrix Composites, *Journal of Computational and Applied Research in Mechanical Engineering*, ISSN-2228-7922.

**K. Thakor & H. Desai**, Control method of energy storage, interface for DC micro grid: A review, *International research journal of engineering & technology*, ISSN-2395-0056, e-ISSN-2395-0072.

**Kinjal Thakor & Prakruti Shah**, Partial Discharge Detection Techniques: A Review, *International Research Journal of Engineering and Technology*, ISSN-2395-0056, 2395-0072.

**Mohit Desai & Prakruti Shah**, Design of High Voltage Direct Current Rectifier: A Review, *International Research Journal of Engineering and Technology*, ISSN-1583-1588.

**Mohit Desai, Rohan Patel & Ketan Bhavsar**, Design of non-isolating boost converter, *Journal of Emerging Technologies and Innovative Research*, ISSN-2349-5162.

**Mohit Desai, Dipak Mishra, Rohan Patel, & Ketan Bhavsar**, Control Method and Sinusoidal PWM Technique, *International Journal of Engineering Research & Technology (IJERT)*, ISSN: 2278-0181.

**Nirav Patel & Sandip Vasanwala**, Impact of Slab Thickness on Reinforced Concrete Buildings using Fragility Curve, *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN-2277-3878.

**Nirav Patel & Sandip Vasanwala**, Propagating Fragility Curve for RC Buildings Via Hazes Methodology, *Materials Today: Proceedings*, ISSN-2214-7853.

**Payal Desai**, Semi analytical cum numerical analysis of two-dimensional elasticity problem of plate with eccentric hole in bipolar coordinate system, *International Journal for Computational Methods in Engineering Science and Mechanics (Scopus Index)*, ISSN-1550-2287, e-ISSN-1550-2295.

**Piyushkumar M. Mistri & Kedar A. Pathak**, A Scientific Pore over a Solar Cooking Systems, *International Journal of Recent Technology and Engineering*, ISSN-2277-3878.

**Prafulla Parikh, Satyanshu Kumar, Tuhina Banerjee, Jyoti Kode, Vishwanath Zunjar, Raghuraj Singh, P.S. Nagar & Jinal Patel**, Prophylactic potential of Indian medicinal plants in the management of influenza like illness especially COVID-19, *Medicinal Plants*, ISSN-0975-6892.

**Prakruti Shah & Bhinal Mehta**, Mitigation of grid connected distributed solar photo voltaic fluctuations using battery energy storage station and micro grid, *International Journal of Energy Technology and Policy (INDERSCIENCE PUBLISHERS)*, ISSN-1472-8923.

**Ms. Priyanka Kothoke, Ms. Anupama Deshpande & Mr. Yogesh Chaudhari**, Examination and Determination of Partial Discharge Source utilizing SOM and BPM Techniques of ANN, *International Journal of Advanced Science and Technology*, ISSN-2005-4238.

**Radha Madhavi Duggaraju & Lipika Mazumdar**, Module Basis for Generalised Spline Modules, *Journal of Indian Mathematical Society*, ISSN-0019-5839.

**Ronak Patel, Birjesh Donga, Ritik Patel & Saritha K.**, Local Deal Finder, *International Research Journal OF engineering & Management Studies*, ISSN-1847-9790.

**Saritha K.**, Block chain authentication using elliptic curve digital signature algorithm, *Interwoven: An Interdisciplinary Journal of Navrachana University*.

**Sheetal Shende**, Rainfall and temperature pattern trend analysis of Dahod district of Gujarat, India, *Turkish Online Journal of Qualitative Inquiry (TOJQI)*, e-ISSN-1309-6591.

**Sheetal Shende**, A conceptual rainfall-runoff mathematical model to simulate runoff using daily amount of rainfall for arid and semi-arid region, *Journal of Physics: Conference Series*, ISSN-1742-6596.

**Shivani Purohit, Drashti Sojitra, Mohit Chawla & Kriti Vishesh Jaiswal**, IoT Based Healthcare System, *International Journal of Advance Research, Ideas and Innovations in Technology*, ISSN-2454-132X.

**U.M. Pirzada & S. Rama Mohan**, Fuzzy form of Euler method to solve fuzzy differential equations, *Journal of Fuzzy Logic and Modelling in Engineering*, ISSN-2666-2957.

## BOOKS CHAPTERS PUBLISHED

(Name of the teacher, title of the book/chapters published, title of the paper, title of the proceedings, ISSN nos. Name of the publisher)

**D.P. Pandya & A.D. Badgujar**, Sustainable stainless steel weld with novel approach of electromagnetic stirring on Activated TIG welding, ISBN: 978-93-90103-07-2.

**Dhaval Mehta**, *What Gamers Want – A Framework to Predict Gaming Habits*, ISBN- 978-93-90489-76-3.

**Ms. Hetal Desai**, *International conference on public health: Abstract Book Study*, On Comprehensive Model of Low Carbon Emission & Cost Benefit of Grid Connected Photovoltaic Generation for Sustainable Environment, *International conference on public health: Abstract Book*.

**Ms. Monika Shah**, *Reuse of Rubber tires as aggregate in concrete*.

**Ms. Monika Shah**, *Identification, analysis and Remediation of Contaminated Soil*.

**Ms. Monika Shah**, *Delhi Air Pollution-A case study*.

**Ms. Monika Shah**, *Sustainable Navrachana building and generation to End-of-life of solar Panel*.

**Ms. Monika Shah**, *Industrial Waste Water Treatment by Advanced Oxidation Process-Fenton Oxidation*, ISBN-978-93-90214-19-8.

**Ms. Monika Shah**, A critical review on application areas of computational fluid dynamics in context to environmental pollution, *Community based research and innovations in Civil Engineering*.

**Niraj H. Patel**, *Improving Power System Security to Reduce the Energy Losses in Transmission System with the help of FACTS Devices*.

**Ms. Prakruti Shah**, *Improving Power System Security to Reduce the Energy Losses in Transmission System with the help of FACTS Devices*.

**Ms. Prakruti Shah**, *Enhance the performance of Grid connected micro grid with solar uncertainties by optimal sizing of battery energy storage*.

**Purnima Pandit, Priyank Makwana and Shardav Bhatt**, Automatic Speech Recognition of Continuous Speech Signal of Gujarati Language Using Machine Learning, *Advances in Intelligent Systems and Computing*, Springer ISBN-978-981-15-9952-1, e-ISBN-978-981-15-9953-8.

**Dr. Saloni Pandya**, Influence of Biopolymer Treatment on Suction Characteristics of Bhavnagar Expansive Soil, *Proceedings of Indian Geotechnical Conference 2020*, Visakhapatnam Chapter.

**Dr. Saloni Pandya**, Identification, Analysis and Remediation of Contaminated Soils Identification, *Analysis and Remediation of Contaminated Soils*.

**Dr. Saloni Pandya**, Remediation of black cotton soil using plastic straw as stabilizer, *Remediation of black cotton soil using plastic straw as stabilizer*.

**Sharnil Pandya, Mayur Mistry, Pramit Parikh, Kashish Shah, Gaurav Singh Gaharwar, Ketan Kotecha & Anirban Sur**, Precision Agriculture, *Lecture Notes in Networks and Systems*, Springer, Singapore., ISBN-978-981-16-0732-5, e-ISBN-978-981-16-0733-2.

**Prof. Vaibhav C. Gandhi**, *Feature Sentiment Text Categorization for Opinion Mining.*

**Prof. Vaibhav C. Gandhi**, *Practical - In Advance Computer Network using Cisco Packet Tracer.*

**Prof. Yogesh Chaudhari**, *Investigation and Determination of PD Source Utilizing SVR and RF.*

#### ■ CONFERENCE PARTICIPATION

**Kriti Vishesh Jaiswal** attended Online Course on 'Nurturing Innovation & Start-Up Ecosystem (NISE)' in Navrachana University, Vadodara.

**Dr. Amarish Badgujar, Dr. Hiral Parikh, Mr. Adil Khan, & Ms. Harsh Bodas** attended *Comprehensive Online Intellectual Property Rights* at i-hub Gujarat.

**Ketan Bhavsar**, *NAAC Accreditation Process -National Workshop for Higher Educational Institutions, Institute for Academic Excellence.*

**Dhaval Mehta**, *On-Line Workshop on Online Teaching, Learning, and Evaluation with MOODLE MOOC Platform.*

#### ■ AWARDS/RECOGNITION OF STUDENTS

**Shehzad Mala** won the Red Bull Cup at Inter University Cricket.

#### ■ EVENTS/ACIVITIES ORGANISED

**June 2020 to Sept 2020** : Data Science: Career for Everyone, Insights on Cloud Computing for Researchers & Projects, Career Launcher, Teacher's Day Celebration Event, Webinar on Hands with Flutter, One Day Symposium (online) on Introduction to Internet of Things and Industry 4.0

**Oct 2020 to Jan 2021** : Quantitative Sense making- from everyday life to mathematics curriculum, Panel Discussion on Opportunities, Scope & Requirements for higher studies in foreign countries for EEE graduates, Panel Discussion on Educational and Career Opportunities Abroad, Necessity of Start-Ups and Incubation Center, Dynamics of Start-Ups, Gujcost Sponsored one-day webinar on "Functional Composite Materials: Scope and Challenges", Insights on Cloud Computing for Researchers & Projects.

**Feb 2021 to May 2021** : Expert talk on Building Information Modelling, Liquefaction resistance of soils in Gujarat, Introduction to Python Programming, Machine Learning methods for Image and Video Processing, Fun with Data using R, Data Science in Education, Industry Connect Expert talk on Designing and Sizing of small scale solar power system, One-day webinar on EnergyConservation Awareness, one-day webinar on Mitigation of-Harmonics using series active filter under SSIP Cell, Expert Session on CV writing for B.Tech-IT students, Expert Session on CV writing for B.Tech-IT, Webinar on Basics of Machine Learning students, One day webinar on Mitigation of Harmonics, Expert talk on Building Information Modelling (CE)using series active filter under SSIP Cell (EEE)One day webinar on Energy Conservation Awareness (ME/EEE) Industry Connect Expert talk on Designing and Sizing of small scale solar power system (EEE) Round-Table on Academia-Industry Partnership, Webinar - Introduction to structural simulation in Ansys Mechanical, GEDA sponsored one day webinar on "Energy Conservation Awareness", Composite Materials: Theory and Applications" in collaboration with Composite Excellence Centre of Asia (CECA)

## School of ENVIRONMENTAL DESIGN AND ARCHITECTURE

### PROGRAMS OFFERED AND STUDENTS

#### ENROLMENT: 2020-21

Programs Offered	No. of Students enrolled for the year 2020-2021	No. of students for the year 2020-2021 (Cumulative)
Bachelor of Architecture	45	204
Bachelor of Design (Interior)	45	156
Bachelor of Design (Landscape)	0	20
<b>TOTAL</b>	<b>90</b>	<b>380</b>

The School of Environmental Design and Architecture (SEDA) is at the cutting-edge of ingenuity; it provides a dynamic and challenging environment that fosters creativity, critical thinking, intellectual development; the ability to respond to the natural environment and cater to the spatial needs and aspirations of individuals and the society. The School has been established to offer broad-based Design Programs in Architecture and Interior Design with focused education to meet the challenges of the design profession.

### AWARDS/RECOGNITION OF TEACHERS

**Prof. Pratyush Shankar**, Committee of Experts for 'Planning and Architectural Framework for Hill Regions', Government of India - NITI Aayog

### RESEARCH PAPERS PUBLISHED IN JOURNALS

(Name of the Faculty, Title of paper, Name of Journal, ISSN Number)

**Pragya Shankar**, Undergraduate Landscape Program, *Journal of Landscape Architecture*, ISSN-0975-0177.





## ■ CONFERENCE PARTICIPATION

**June 2020 to Sept 20** Studio Pre-Teaching Seminars - I, History Pre-Teaching Seminars - II, Landscape History Pre-Teaching Seminars - III, Construction Pre-Teaching Seminars - IV, Landscape Studio Pre-Teaching Seminars - V, Landscape Studio Pre-Teaching Seminars - V, Pre-Teaching Seminars - VI, Fresh Out of the Oven Series - Seminar 01: Mr. Aman Amin, Fresh Out of the Oven Series - Seminar 01: Mr. Anand Sonecha, Fresh Out of the Oven Series - Seminar 01: Ms. Sonal Mittal, Geeta Wahi Dua - In Conversation with Prof. Pratyush Shankar and Prof. Pragya Shankar

**Oct 2020 to Jan 2021** Pre -Teaching Seminar - I, II and III, Musings on the Computability of Design by Prof. Dr. Ganapathy Mahalingam, Guruwari: Let's learn from the Gurus Session 1 and 2, Pre teaching seminar-III

**Feb 2021 to May 2021** Preserving the Unmapped: Cultures, Communities and Conservation by Kamalika Bose, Philip Singleton: A reflective Journey of an Architect to Image Maker, Stepwells of Ahmedabad: Water, Gender and Heritage: An illustrated Talk by Priyanka Sheth, Aashini Sheth and Tanvi Jain.

## ■ PROGRAMS ORGANISED

**June 2020 to Sept 20** Construction Week Installations - Mural Design (Pulak Sanpui), Prof. Neelkanth Chhaya - Building Mind full.

**Oct 2020 to Jan 2021** Prof. Sankalpa - Shape + Structure, Swati Negi - In tune with Nature, Uday Andhare - In tune with Nature, Malaksingh Gill - In tune with Nature

**Feb 2021 to May 2021** Philip Singleton - A Reflective Journey of an Architect to Image Maker, Kamalika Bose - Preserving the Unmapped: Cultures, Communities, Conservation, Dr. Kush Patel - Instructor Bio: Building Feminist Solidarities in Architecture and Academia, Sriganesh Rajendran - In tune with Nature

## ■ AWARDS/RECOGNITION OF STUDENTS

**Achal Prajapati & Mahima Sorathia** received International Honorable Mention - The House

**Ansh Shah & Dhruv Shah** honored International recognition in Top 30 at Haptic: Material Museum, Barcelona International Competition.

**Ansh Shah & Parthiv Parikh** received International Participation Recognition from Design Museum, Oslo

**Ansh Shah & Nitish Kesari** received International Participation Recognition from School of Fashion, Milan

**Anshi Shah, Jeet Shah, Stuti Shah & Dhruvi Shah** received International Participation Recognition - Love in the time of epidemic.

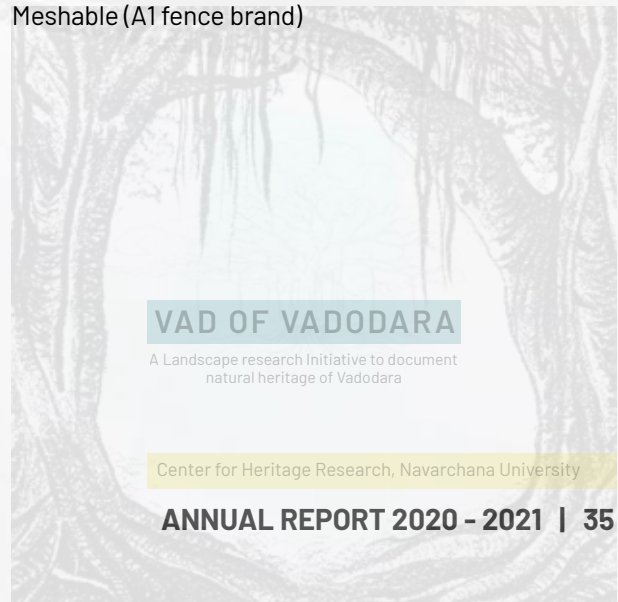
**Canna Shah** honored International Participation Recognition from Tiny House, Tiny Library, Top 10 AIS-GDO and Little Big Loo

**Devansh Patel, Mardvi Patel & Aman Srivashtava** honored International recognition, Honorable Mention in Tomb of Waste event.

**Forum Chavan** won Gold Medal (Open Sight Standard Rifle Prone Championship 50m Women) at 13<sup>th</sup> Ramdas M. Halwai Memorial District Shooting Competition at District level

**Kairavi Gandhi** made it to Top 6 at National Level at Charles Correa Foundation Gold Medal Award 2021

**Pranjali Ambekar** won 2<sup>nd</sup> Position in International - Meshable (A1 fence brand)



VAD OF VADODARA

A Landscape research Initiative to document natural heritage of Vadodara

Center for Heritage Research, Navarchana University

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## SCHOOL OF LIBERAL STUDIES AND EDUCATION

### PROGRAMS OFFERED AND STUDENTS ENROLMENT: 2020-21

Programs Offered	No. of Students enrolled for the year 2020-2021	No. of students for the year 2020-2021 (Cumulative)
Bachelor of Education	50	97
Bachelor of Arts - Journalism & Mass Communication	51	84
Master of Social Work	20	33
<b>TOTAL</b>	<b>121</b>	<b>290</b>

Well-known for its programs in teacher education which are NCTE approved, the School has a well-earned reputation in the field of teacher education due to its high quality curriculum, practice teaching components, faculty and research. The University, which has its roots in top quality schools, is well connected with the local education community and ensures that the knowledge and skills, essential for a modern-day teacher, are adequately developed through its courses and successfully applied to the needs of schools and society. BEd has an excellent record (100%) in placement over the last Fourteen years.

**Master of Social Work** Program started under the aegis of School of Liberal Studies and Education in 2016. It is a 4-semester program. It is a generic program which offers 33 courses and is of 100 credits. It has research and fieldwork as an integral part of program. Three days students come to campus and for three days they are in field. Fieldwork goes hand in hand with theory so that students get hands on learning simultaneously. Apart from fieldwork students are also engaged in rural camps and study tours. Rural camps are organized inside Gujarat and study tours are organized outside the state of Gujarat to provide wider exposure to expand their horizon in the field of Social Work Profession.

**B.A Journalism and Mass Communication** Program also started in the year 2016 under the aegis of School of Liberal Studies and Education. It is a three-year, six semester program. Gives exposure to students in

different kinds of Media and skill set and tool set associated with media.

Students are given hands on training through Newsletter "Observer" where students become reporters and gather and disseminate campus related news. It also has a state-of-the-art studio and sound recording facility to train students. Photography, podcast, blog, vlog and other narratives are created by the students under the able guidance of the faculty members.

**Ph.D. in Education** program started in 2011 is a robust program guided by the faculty members of SLSE. It has Five recognized research guides with more than 20 students registered for PhD program.

#### COLLABORATIONS & MOU'S

AATAPI Seva Foundation for Collaboration & Conduction of Khoj Course

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# RESEARCH PAPERS PUBLISHED IN JOURNALS

(Name of the Faculty, Title of paper, Name of Journal, ISSN Number)

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**Aastha Shah**, Rise of social media and its trends, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Ashish Mehta**, Changing trends in online shopping - A study of Mumbai suburbs, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Mr. Gilbert A.R. & Dr. Robi Augustine**, The Changing Trends of Journalism in The Covid Era: A Study Among Journalists in Kerala, *International Journal of Research Culture Society*, ISSN- 2456-6683.

**J.A.H. Khatri**, Favored variety and Cultural othering: Semantic Enclave in Hindi Cinema, *Language in India*, ISSN-1930-2940.

**J.A.H. Khatri**, Gujarati Cinema: From a Historical Perspective, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Ms. Kavita Dixit & Dr. Archana Tomar**, Integration of Life Skills with Social Science, *Horizons of Holistic Education*, p- ISSN: 2349-8811, e-ISSN: 2349-9133.

**Kripali Jadeja & Vandana Talegaonkar**, The impact of mid-day meal in government elementary schools of Surendranagar city, *Interwoven: An Interdisciplinary Journal of Navrachana University*, ISSN-2581-9275.

**Nabila Qureshi, Archana Tomar, & Anita Thomas**, Quantitative and Qualitative Analysis of Schools towards the Education of Muslim Girls (A Study undertaken in and around Vadodara city, *Studies in Indian Place Names*, ISSN-2394-3114.

**Dr. Robi Augustine & Ms. Sheedhal K. Reji**, Online Teaching and Learning during COVID-19: A Study among Selected University Students, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Dr. Robi Augustine & Ms. Kripaja K. Yadav**, Digital Divide and Youth: A Study among Rural Students in Kerala, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Dr. Robi Augustine & Ms. Alina Augustine**, A Study of Fake News in Media, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Dr. Robi Augustine**, The Quarantined Truth in Info Emic Era: A Discourse of Misinformation, Disinformation & Post Truth Descriptions during COVID-19 Pandemic, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Dr. Robi Augustine & Ms. Sanju Xavier**, A Critical Study on Netflix Docudrama-'The Social Dilemma', *International Journal of Research Culture Society*, ISSN-2456-6683.

**Dr. Robi Augustine & Ms. Radhika R Nair**, Online journalism during Covid 19: A survey among the online journalists in Kerala, *International Journal of Research Culture Society*, 2456-6683.

**Dr. Robi Augustine**, a critique on content moderation on Facebook- a study based on 'stop the steel' conspiracy campaign, *International Journal of Research Culture Society*, ISSN-2456-6683.

**Dr. Robi Augustine & Mr. Gilbert A. R.**, Television Journalism in Covid Era: A study among TV journalists in Kerala, *International Journal of Research Culture Society*, ISSN-2456-6683.

**S. Poddar & M. Sikdar**, Cognitivist Lesson Plans: A tool for effective teaching for mathematics teachers, *Interwoven: An Interdisciplinary Journal of Navrachana University*. ISSN-2581-9275.

**Vaibhavi Gawarikar & P.V. Xavier**, Critical thinking: An indispensable dimension in the course on sustainable development, *Interwoven: An Interdisciplinary Journal of Navrachana University*, ISSN-2581-9275.

**Vaibhavi Gawarikar & P.V. Xavier**, Thought is Power, *IOSR Journal of Humanities and Social Science (IOSR-JHSS)*, e-ISSN: 2279-0837, p-ISSN: 2279-0845.

## BOOKS CHAPTERS PUBLISHED

(Name of the teacher, title of the book/ chapters published, title of the paper, title of the proceedings, ISSN nos. Name of the publisher)

**Dr. Archana Tomar**, On Metamorphosis by Kafka, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISBN-978-81-950434-5-3.

**Devanshu Chattopadhyay**, The Library of Babel: A Book Talk, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISBN-978-81-950434-5-3.

**J.A.H. Khatri**, On Meaning-making: Interview with Seema Khanwalkar, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISSN-978-81-950434-5-3.

**Keaton Lemos**, The Men Eating Leopard of Rudraprayag: A Book Talk *Vichar Vimarsh 2019: An Exchange of Ideas*, ISBN-978-81-950434-5-3.

**Kripali Jadeja & Vandana Talegaonkar**, Girl Education: Status, Initiatives and Challenges, The status of girls' education in elementary schools: Inclusion of marginalized, ISBN-978-93-5437-132-5.

**Krishna Trivedi & Dr Subhash Sharma**, A paradigm shift in Business, Economy and Society in New Millennium, Dissemination of Information on Social Media Platforms, Shifting paradigm in business economy and society vision 2050, ISBN-978-81-930017-6-9.

**Dr. Minaxi Shivdas Bhagwat & Dr. Vandana Talegaonkar**, Perspectives Toward India's New National Education Policy 2020, Educational

Blogging: Praxis of Web 2.0 Infused Teaching-Learning Practices in Teacher Education, ISBN-978-93-90238-53-8.

**Prof. (Dr.) N. Pradhan & Ms. B. Valli**, Relevance of Peace and Value Education in the Modern World Concept of Peace Education, ISBN-978-93-89234-84-8.

**Pratima Talwar**, Thousand Splendid Suns by Khaled Hussaini: A Book Talk, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISBN-978-81-950434-5-3.

**Vandana Talegaonkar & J.A.H. Khatri (eds.)**, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISBN-978-81-950434-5-3.

**Vandana Talegaonkar & J.A.H. Khatri**, Introducing Idea Fest, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISBN-978-81-950434-5-3.

**Vandana Talegaonkar**, On Story-telling: Interview with Neha Bahuguna, *Vichar Vimarsh 2019: An Exchange of Ideas*, ISSN-978-81-950434-5-3.

**Vandana Talegaonkar & J.A.H. Khatri**, Introduction: Revisiting Tagore, *Songs of Life: Poems of Tagore Trans created*, ISBN-978-81-950434-6-0.

## ■ CONFERENCES ORGANISED

**Oct 2020 to Jan 2021** International Media conference on Media, Culture, and Society, Nanubhai Amin Memorial Lecture

**Feb 2021 to May 2021** Voices of women in Vadodara - Interview, Wellness Talk series,



## ■ CONFERENCE PARTICIPATION

**Dr. Valli Pillai** for Online Course on 'Nurturing Innovation & Start-Up Ecosystem (NISE)' from i- hub Gujarat.

**Dr. Valli Pillai** for NAAC Accreditation Process - National Workshop for Higher Educational Institutions from Institute for Academic Excellence.

**Ms. Priyanka Shah** for NAAC Accreditation Process - National Workshop for Higher Educational Institutions from Institute for Academic Excellence.



## ■ AWARDS/RECOGNITION OF STUDENTS

**Devansh Bhrambhatt** winner of National event, India Open Mixed Martial Arts (MMA) Championship

**Devanshu** ranked Second at Speech Master, National event.

**Mira Erda** ranked First at Formula 4 racing championship, National event.

## ■ EVENTS/ACIVITIES ORGANISED

**Oct 2020 to Jan 2021** Social Worker - A multirole actor in chronic disease scenario, NUV Media Konnect (International Media Conference)

**Feb 2021 to May 2021** Panel Discussion On "Social Work Practice in Covid Times", Orientation Talk to Social Vyuh - A start up by Alumni, Mental Health Issues: Depression, Making your first impression last forever, Resume Building & How to Face an Interview



## SCHOOL OF SCIENCE

### PROGRAMS OFFERED AND STUDENTS ENROLMENT: 2020-21

Programs Offered	No. of Students enrolled for the year 2020-2021	No. of students for the year 2020-2021 (Cumulative)
B.Sc. (Chemistry Life Sciences, Microbiology)	70	174
B.Sc. M.Sc. Biomedical Science	25	74
M.Sc. Chemistry	34	58
M.Sc. Life Science	16	30
<b>TOTAL</b>	<b>145</b>	<b>336</b>

School of Science offers B.Sc. (Specializations-Chemistry, Life Sciences, Microbiology), BMS (Specializations - Molecular medicine, Drug Discovery and design, Reproductive Biomedicine, Human Genetics, Neurobiology), MSc-Life Science (Specializations - Plant Science; Animal Science; Biochemistry; Environment Science), MSc - Chemistry (Specializations - Organic Chemistry, Analytical Chemistry), MSc-Biotechnology (Specializations - Agriculture Biotechnology, Clinical Biotechnology) and MSc-Microbiology (Specializations - Agriculture Microbiology, Clinical Microbiology).

The School of Science has highly qualified and experienced Faculty. It also facilitates research leading to Doctoral Degree - PhD. School of Science has International/National Collaborations with:

- University of Calgary, Canada
- University of Naples, Italy
- Michigan State University, USA
- New York University, USA
- Monash University, Australia
- DBT Centre for bioinformatics, Holy Cross College, Trichy
- Department of Endocrinology, University of Madras
- Centre for Molecular Medicine, JNU

### COLLABORATIONS & MOU'S

#### (Name of the organization and purpose)

- Gujarat Life Sciences for students' placements and internships, conduct workshops and short training programs.
- Pragathan Rejuvenating Nature to conduct workshops and short training programs, Development of Incubation center at NUV.
- Community Science Centre to conduct activities for the awareness of Environment, Internships to students.
- DBL Enterprises for students' placements and Internships, developing center at NUV
- Scientific Remedies Pvt. Ltd for students' placements and Internships, conduction of workshops and short training programs.

## AWARDS/RECOGNITION OF TEACHERS

**Dr. Parth Pandya** received Young Researcher Award-2020 from the Institute of Scholar, Bengaluru, India. He was being awarded for the Publication entitled "Evaluating the Toxic potential of Agrochemicals on the Hypothalamic Thalamic Pituitary axis in tilapia which was published in prestigious *Journal of Applied Ichthyology* by Wiley Publishers.

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## RESEARCH PAPERS PUBLISHED IN JOURNALS

(Name of the Faculty, Title of paper, Name of Journal, ISSN Number)

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**Ayushi Patel, Dhara Morawala, Henilkumar Lankapati, Brijesh Shah, Kalpana Maheria,** Ti-ATMP catalysed esterification of levulinic acid to synthesize butyl ester Materials, *Today: Proceedings*, ISSN-2214-7853.

**B. Thakkar, P. Pandya & P. Parikh,** Isolation, establishment and characterization of new insect cell line derived from midgut of rice weevil, *Sitophilus oryzae In Vitro Cell. Dev. Biol.-Animal* (Springer Nature), ISSN-1071-2690.

**Brad B. Nelson, Janne T. A. Mäkelä, Taylor B. Lawson, Amit N. Patwa, Brian D. Snyder, C. Wayne McIlwraith, Mark W. Grinstaff, Laurie R. Goodrich & Chris E. Kawcak,** Cationic contrast-enhanced computed tomography distinguishes between reparative, degenerative, and healthy equine articular cartilage, *Journal of Orthopaedic Research*, ISSN-1554-527X.

**D. Shanthana Lakshmi, Sivashunmugam Sankaranarayanan, Tejal K Gajaria, Guoqiang Li, Wojciech Kujawski, Joanna Kujawa, and Rodrigo Navia,** A Short Review on the Valorisation of Green Seaweeds and Ulvan: FEEDSTOCK for Chemicals and Biomaterials biomolecules, ISSN-2218-273X

**Daniel Mammen & Elizabeth Robin,** A novel anomalous spiral secondary growth in roots of *Trianthema portulacastrum* L., *Indian Journal of Applied Research*, ISSN-2249-555X.

**Daniel M. & Mammen D.,** Vincetoxicum indicum (Burm.f.) Mabb. - A case of transient abnormal thickening in stem, *Notulae Scientia Biologicae*, p-ISSN 2067-3205 e-ISSN 2067-3264.

**Elizabeth Robin, Sameera Patel, & Mammen Daniel,** An in-depth study on the phytochemical and pharmacognostic features of *Pedaliium murex*, *World Journal of Pharmacy and Pharmaceutical Sciences*, ISSN-2278-4357.

**J.M. Langhnoja, L.K. Buch & P.P. Pillai,** Potential role of NGF, BDNF, and their receptors in oligodendrocytes differentiation from neural stem cell: An in vitro study *Cell, Biology International*, p-ISSN-1065-6995, e-ISSN-1095-8355.

**Khushali U., Elizabeth R., Denni M. & Darshee B.,** Recent Scenario of Medicinal Plants of India in Cancer Therapeutics, *Interwoven: An Interdisciplinary Journal of Navrachana University*, ISSN-2581-9275.

**Khushali U., Foram P., Ramachandran A.V., Elizabeth R., Darshee B.,** Breaching the Barriers of Chemotherapeutics for Breast Cancer with Alternative Medicine, *Journal of endocrinology and reproduction*, e-ISSN-2455-1244, p-ISSN-0971-913X.

**Mrinal Sharma, Prranshu Yadav, Ankita Doshi, Hemang Brahmbhatt & C. Ratna Prabha,** Probing the effects of double mutations on the versatile protein Ubiquitin in *Saccharomyces cerevisiae*., *Int J BiolMacromol*, ISSN-0141-8130.

**Ravi S Baghel, Poornima Suthar, Tejal K Gajaria, Sourish Bhattacharya, Annamma Anil, CRK Reddy,**

Seaweed bio refinery: A sustainable process for valorising the biomass of brown seaweed, *Journal of Cleaner Production*, ISSN-0959-6526.

**Reza Najjar, Laya Zarei-Gharehbaba, Mohand Tazerout, Sandeep R Patil,**

Stable gasoil/sunflower oil fuel micro emulsions prepared by using methylimidazolium based ionic liquids as surfactant, *Journal of Molecular Liquids*, ISSN-0167-7322.

**Shehnaz H. Solanki, Sandeep R. Patil,**

Phase behaviour and microstructure of sugar surfactant-ionic liquid micro emulsions, *Journal of Dispersion Science and Technology*, p-ISSN-0193-2691, e-ISSN-1532-2351.

**Shehnaz H. Solanki, Sandeep R. Patil,**

Phase Studies and Efficient Recovery of Inorganic Metal Salts from The Micro Emulsion System Using a Sugar-Based Non-Ionic Surfactant, *Ten side Surfactants Detergents*, p-ISSN-0932-3414, e-ISSN-2195-8564.

**Tejal K Gajaria, Himadri Bhatt, Ankit Khandelwal,**

**Vihar T Vasu, CRK Reddy, D Shanthana Lakshmi, A** facile chemical cross-linking approach toward the fabrication of a sustainable porous ulvan scaffold, *Journal of Bioactive and Compatible Polymers*, ISSN-1530-8030.

**Vaibhav Mantri, Mudassar Anisoddin Kazi, Nikunj B**

**Balar, Vishal Gupta, Tejal Gajaria,** Concise review of green algal genus *Ulva* Linnaeus, *Journal of Applied Phycology*, ISSN-1573-5176.

**Vaibhav A Mantri, M Ganesan, Monica G Kavale,**

**Tejal K Gajaria,** Status, exploitation and resource management of alginophytes in India: an account and way forward, *Journal of Applied Phycology*, ISSN-1573-5176.

## BOOKS CHAPTERS PUBLISHED

(Name of the teacher, title of the book/chapters published, title of the paper, title of the proceedings, ISSN nos. Name of the publisher)

**Dr. Ankita Doshi,** Wound Healing Research Role of Medicinal Plants in Wound Healing: An Ethno pharmacological Approach, DOI: 10.1007/978-981-16-2677-7\_6, Springer Nature

**Dr. Parth Pandya,** Recent Research Advances in Biology Vol. 1, Experimental Study on Acute Exposure of Pyrazosulfuron Ethyl Induced Hematological and Blood Biochemical Changes in the Freshwater Teleost Fish *Oreochromis mossambicus*, ISBN-978-93-90149-69-8, Book Publisher International, London.

**Dr. Samarth Trivedi,** Functional Materials for Switchable Devices, Graphene: Smart material as a photo-sensitive switchable device, ISBN: 9780128239728, Elsevier Ltd.

## CONFERENCE ORGANISED

### INTERNATIONAL CONFERENCE

- ICRED International Conference on Reproduction, Endocrinology and Development with Society for Reproductive Biology and Comparative Endocrinology (SRBCE) Baroda Obstetrics and Gynaecology Society (BOGS) from 19.01.2019 - 21.01.2019.
- International Conference on Eco health and Environmental Sustainability with University of Calgary from 24.02.2020 - 26.02.2020
- ICPH International Conference on Public Health with University of Arizona from 24.03.2021 - 26.03.2021



## WEBINAR

- One-day International Webinar on Emerging Trends in Heterogeneous Catalysis & New Challenges with Reliance Industry, Baroda, Maharaja Sayajirao University Baroda on 28/11/2020
- Webinar on "Ideation to proof of concept" (SSIP Cell) on 20.12.2020
- Interactive webinar on Biodiversity on 22.05.2021

## CONFERENCE PARTICIPATION

- **Dr. Amit Patwa** for NAAC Accreditation Process-National Workshop for Higher Educational Institutions from Institute for Academic Excellence.

- **Dr. Ankita Doshi** for I HUB- IPR Certificate Course from Gujarat Student Start-up Innovation Hub
- **Ms. Foram Patel** for I HUB- IPR Certificate Course from Gujarat Student Start-up Innovation Hub
- **Dr. Lipi Buch** for I HUB- IPR Certificate Course from Gujarat Student Start-up Innovation Hub
- **Dr. Vivek Mishra** for I HUB- IPR Certificate Course from Gujarat Student Start-up Innovation Hub

## EVENTS/ACIVITIES ORGANISED

**June 2020 to Sept 2020** Photograph Competition entitled "Life in Lockdown"





Advancing Higher Education



## PhD Program

During the academic year (June 2020 to May 2021) 23 students registered for the PhD program. Three research scholars Sangeeta Poddar, Kripali Jadeja and Vaibhavi Pandya were awarded PhD degree. The cumulative number of students registered for PhD and continuing in the program 77.

## LIBRARY

Navrachana University (NUV) believes that a good library is pivotal to the growth of an educational institution and hence committed to developing a well-equipped and enriched central Library which caters to various information needs of the students and faculty members to pursue academic work and accomplish research goals. The library has a vast collection of teaching and learning resources and provides access to both physical as well as electronic resources. All the library collection can be accessed through online-public access catalogue and NUV Library Web Portal.

### Resources

Particulars	No. of Teaching & learning resources added during the year 2020-21	Teaching & learning resources as on 31-05-2021
Books	355	20265
Periodicals (National & International)	113	691
Theses / Dissertations / Projects	116	660
CDs	20	1566
Indian Standards	-	7920
Bound Journals	125	3596

## E-Resources

NUV Library provides enormous access to eBooks, e-Journals and Learning e-resources through various databases.

**EBSCO Management Collection** - (1000+ E- resources- Full Text Academic Journals, Magazines, Trade Publications, Books / Monographs, Company Profiles etc.)

**Manupatra - Law Database** (Manupatra Module-4 (13-eBooks,36-Journals, 8000+Article,17 lakhs+ Bare Acts,11000+ Committee Reports)

**JSTOR Arts and Science Collection** (152 Journals)

**JSTOR Sustainability Collection** (106 Journals and 6000+ Research report/Monographs)

**South Asia Archive** is a fully searchable digital archive encompassing millions of pages of valuable research and teaching materials, providing online access to documents ranging from the mid-18th to the mid-20th Century. The Archive contains interdisciplinary contents - books, journals, reports, film ephemera, census reports & more.

**NavGyan: An Open knowledge Gateway** has been developed to provide access to useful Open educational e-resources (OER) i.e., eBooks, e-Journals, Databases/Archives/Repositories, Digital and Virtual Libraries, Online Learning Tools & Open Coursewares, Open Access Patent & Standard Databases, E-References (Dictionary/Encyclopedias), Electronic Thesis and Dissertations (ETD), E-Newspapers and Competitive exam paper with solution.

**Institutional Digital Repository (IDR)** has been developed to make scholarly publications of NUV globally accessible and contributed NUV-IDR to **National Digital Library of India**, project of Ministry of Education (MoE) managed by IIT Kharagpur. Currently the repository contains more than 500+ items con-

sisting of faculty publications, Institutional scholarly publications, NUV in media, Theses, Dissertations and Students projects.

NUV Library provides **Document Delivery Service (DDS), Inter-Library Loan (ILL) services and Academic integrity service (Anti-Plagiarism Software)** through membership in the National Library Networks i.e., **DELNET, INFLIBNET (ShodhShuddhi project)**. Moreover, NUV Library also facilitates access to learning resources of Smt. Hansa Mehta Library - The Maharaja Sayajirao University of Baroda, Vadodara through and library, CEPT University through institutional membership.

The library is fully automated by using **Library management software SOUL** and advanced automated by **RFID** (Radio Frequency Identification) System.

NUV has signed MoU with INFLIBNET for **Shodhganga** Project on 10th November 2016. Till date we have uploaded 10 NUV PhD theses on Shodhganga.



## Library Services

- Circulation
- Open access library collection
- Reading Facilities
- PhD Reading Corner
- E-resources access section
- Orientation Program
- Database Search Service
- Inter Library Loan
- Document Delivery
- OPAC (Online Public Access Catalogue)
- Reference and Information
- Current Awareness Services
- Selective Disseminate Services
- Mail Alert Service
- Thematic book display
- Information Literacy Program
- Table of content service
- Wi-Fi & CCTV



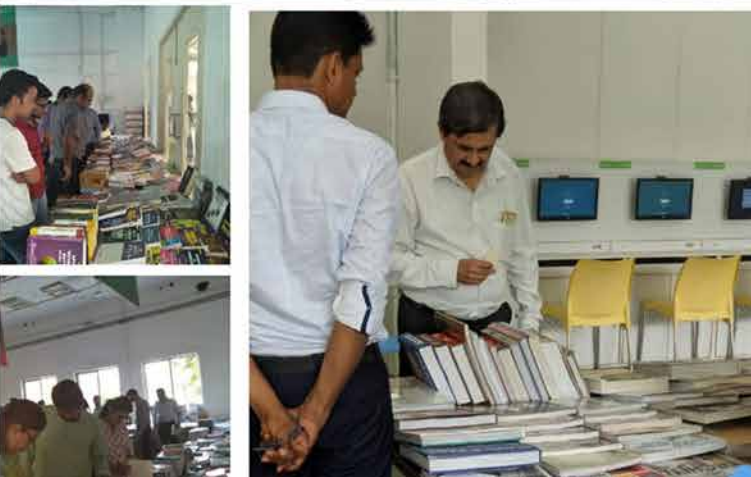
## Activities & Event

Besides, the regular support to the patrons in their academic and research work, NUV Library had also organized several events and activities i.e., expert talks, author talks, book talks to support research activities and to inculcate a culture of reading and writing among members of NUV.

**June 2020 to September 2021** National Webinar on “Measuring Research Output and Promoting Research Visibility”, Virtually Launched “NavGyan: An Open Knowledge Gateway” on National Librarians

**October 2020 to January 2021** : Talk “Flirting with Fakeness: Digital Narration in a post-truth milieu”

**February 2021 to May 2021** : Talk Digital Anthropology and its Significance to India: Understanding Local Digital Contexts through the Lens of Gender”, Author Talk - Fact and Fiction: Creative reflections of the author.



## CENTERS

Navrachana University currently has five independent Centers; Centre for Professional Education; Navrachana University; Centre for Environment, Research and Innovation; Center for Heritage Research; Center for Public Health; and Centre for Education Innovation and Research.

### ■ Center for Professional Education

The purpose is to develop and deliver contemporary and interdisciplinary programs to support participants' pursuit of lifelong learning; to enable them to upgrade their skills and be successful and excel over time. The Centre aims to help Educational Institutions and professionals to be up-to-date with the trends and developments in their field by offering customized Development Programs. Keeping in mind the busy schedules of the participants, the programs are offered on-campus or at customers' location or through an online platform.

### ■ Center for Environment, Research and Innovation

Navrachana University, Vadodara has set up a Center for Environment, Research and Innovation (NUCERI). This Center shall serve as a unique platform in terms of providing opportunities for interdisciplinary interactions, amongst different stakeholders, regarding this important topic of concern. The main aim of this Center shall be to find innovative and sustainable solutions by conducting research meetings, discussion forums, workshops, national and international seminars, conferences, round tables, panel discussions, training programs as well as to establish meaningful national and international collaborations in order to address the issues of environment, research and innovation.

### ■ Center for Heritage Research

School of Environmental Design and Architecture launched the Navrachana University Center for Her-

itage Research in 2021 to carry out new research investigations in understanding the value and significance of heritage buildings. In a very short period of time, the Center has already garnered international attention through its various initiatives. Students and faculty members work together on projects right from documentation, research, publications and exhibitions as final outputs. All students are welcome to work at the Center under the guidance of faculty.

### ■ Center for Public Health

Navrachana University in collaboration with University of Arizona organized a three-day virtual International Conference on Public health. Eminent experts from India, USA, Brazil, Canada and Italy shared their views on several themes identified in the three-day Conference. Eminent speakers like Prof Mohan Tanniru from University of Arizona, Dr. Kumarasamy Director of VHS Infectious Disease Medical Centre Chennai, Padma Shri Subroto Das from CEO Lifeline foundations Vadodara, Prof Iman Hakim Dean Mel and Enid Zuckerman, College of Public health University of Arizona, Dr. Narayan Gaonkar health Specialist UNICEF, Gujarat, Dr. Dileep Mavlankar Director Indian Institute of Public health Gandhinagar, Dr. Salvador Gullo Neto from School of Medicine Brazil, Dr. Navin Verma Assistant Director, Non Communicable Disease Division Delhi, Dr. Krishna Reddy CEO, Care Hospitals AP, India, and Dr. Minoo Patel Dean GMERS Medical College talked about the current pandemic and the road ahead for public health practice and management. COVID was discussed from all perspectives as a matter of learning for public health systems world over. Existing problems in handling COVID pandemic were highlighted like lack of sufficient training and knowledge of healthcare professionals, public awareness for such

pandemic, lack of sufficient infrastructure to manage such pandemics and also need for stricter supervision and control. The experts suggested some very important way ahead as lessons learnt from this pandemic. Some of them were requirement of a well-structured public health policy in place, increase public private partnerships to implement innovations in healthcare through research and start up, make public health awareness a priority, increasing funding on public health, establish health and wellness centers for continued public health awareness and support, work on increasing the resilience, quality of healthcare service, accessibility of clear and true information and proper communication and healthcare services around the world. The Conference also talked in detail about how Block chain and Artificial Intelligence could be at use to store data of COVID patients and also be used for effective vaccine distribution. The real time generation and tracking is the only way to deal with situation like these and IT based solutions in health-care are key to such mass handling. However, the issue of data privacy and ethics were also debated and lot of future scope of work will depend on the efficient handling of such sensitive data.

### **Center for Education Innovation and Research**

Center for Education Innovation and Research (CEIR) at Navrachana University, Vadodara is a unique interdisciplinary platform. This Center engages with Innovation and Research in education across all levels from pre-primary to PhD. The scope of its activities includes:

- Providing an intellectual and action space for deliberation, research, innovation and action in education
- Serving as a meeting ground for all stakeholders of education on multiple and varied issues of education aiming for resolution, new solutions and new insights
- Documenting ideas and practices in education across disciplines and levels and take lead in policy advocacy
- Providing an Interdisciplinary platform for dissemination of ideas and practices about education across disciplines and levels

## **IQAC**

The Internal Quality Assurance Cell (IQAC), Navrachana University has been constituted on 1st April 2021 for planning and monitoring quality-sustenance activities.

### **Vision of IQAC**

To promote quality culture as the prime concern of Higher Education Institutions through institutionalizing and internalizing all the quality-enhancing and sustaining initiatives taken with internal and external support.

### **Objective**

The primary objective of the IQAC is to develop a mechanism to promote conscious, consistent, and catalytic action plans to improve the academic and administrative performance of the institution. IQAC shall promote institutional quality enhancement and sustenance through the internalization of quality culture and institutionalization of the best practices.

## PLACEMENT

Navrachana University's placement process is designed to make recruitment easy and flexible to optimize students' success. We help students find the right opportunities based on their interests and aptitude and by matching them with recruiting organizations' requirements. A thoughtfully designed and carefully nurtured vibrant campus culture ensures that students turn into well-rounded and sought-after professionals, while experiencing some of the best times of their lives. Imbibing perspectives from not only professors but also peers, and learning not only from the regularly updated curriculum but also through the diverse range of ongoing extra-curricular activities, Navrachana graduates are well placed to navigate life.

With more than 200 international, national and local recruiters on board, NUVites have plenty to choose from, if they don't become job creators themselves.

Various activities done by placement cell are as given below:

### a) Placements:

Post Pandemic period was a phase wherein we broke all past records for the maximum number of Job offers in one month that NUV's students got from Corporates. In July 2020, our students got 23 Job offers, and in May 2021, they got 18 job offers!

On an approximate average, about 30-35% of our students were engaged in jobs after they passed in 2021. They either joined as employees or are self-employed or working as Professional consultants to various Organizations.

The spectrum of renowned Corporates where our students got job offers is broad, ranging from:

- TCS and WIPRO for students of Computer Science and Engineering,
  - HDFC, ICICI Bank Ltd, IDFC First Bank, and Atul Limited for students of MBA,
  - Piramal Pharma Solutions, Atul Ltd, IPCA Laboratories, Dorf Ketal Chemicals and Farmson Pharmaceuticals for students of School of Science,
  - MG Motors India, Hettich India, Geo Designs & Research for students of School of Engineering & Technology,
  - D Mart, Banco Products India and Sterling Cancer Hospitals for students of our MSW Program,
  - Nielsen IQ and Indian Institute of Patent & Trademark for our students of BBA,
  - Lex Protector and Infinvent IP for students of BBA-LLB program,
  - Reputed Schools like Global Discovery Academy, Poddar School, Billabong International School, Don Bosco, etc. for B Ed students.
- .... And many more.

### b) Businesses and Start Ups:

Approximately 11% of our students chose to become Job Creators and not Job Seekers. They Started their own business or joined an existing business. Some of them joined Farming also.



### c) Higher Education:

On an approximate average, about 45- 47% of our students who passed in 2021 have gone for higher studies either in India, or at reputed Universities abroad.

Some of the reputed Universities in India where our students have taken up higher studies are:

- Narsee Monjee Institute of Management Studies
- IIM Kozhikode
- Symbiosis Institute of Computer Studies and Research
- The Maharaja Sayajirao University of Baroda
- Mithibhai College, Mumbai University
- International Institute of Information Technology, Bangalore
- ICFAI Business School - IBS Mumbai
- Adani Institute of Digital Technology Management
- MIT-ADT University

**And here is the list of some Universities abroad where our students secured admissions in 2021:**

- University of Catalonia
- University of Calgary
- University of Windsor
- University of Texas at Dallas
- University of New South Wales
- DePaul University
- York University, Canada.
- University of Massachusetts Lowell
- University of Canada West

### d) Industry Connect & Training (seminars/webinars organized by Placement Cell)

In order to bridge gaps between Academia and the industry, the Placement Cell organized events, listed below:

**June 2020 to September 2020:** Training by Tata Power Skills & Development Institute, Training by L&T Power Training Institute, Webinar on the Importance of LinkedIN, Webinar with Mr Dhanur Oberai, Webinar on Industry-Educational Institutes Digital Interaction, Webinar on Blockchain Simulation thru Google forms, Webinar for HR Training, Webinar to ensure Employability post pandemic, Webinar on advantages of linked IN and How to create a Linked IN profile: Linked in coaching webinar

**October 2020 to January 2021:** Initiated the NUV- CII MSME Association

**February 2021 to May 2021:** Virtual Round Table on Academia-Industry Partnership

## STUDENT SUPPORT ENGAGEMENT AND CLUBS

**Business@NUV** is a student body of BBA Students

**Management@NUV** is a student body of MBA students

**Law@NUV** is a student body of BBA-LLB students

The student's council provides a common ground for both faculty and students to work together in various institution building activities.

### **Google Developer Students Club NUV**

Google Developer Student Club NUV is a university based community group for students interested in Google developer technologies. We talk about Google technologies and how we can use them in the best way. We organize hackathons, workshops, boot camps [flutter, android, google cloud], watch parties, networking sessions, etc.

### **MozNUV**

MozNUV is a community of students with an aim to advance the mission of building and innovating open-source projects that keep the web open. We organize events and meetups that are not monetized in any form and educate the students who are taking their baby steps in tech or product regardless of their background. We represent Mozilla not only inside the campus but also in events around India and beyond. Hack Club NUV We are a worldwide community for the students and by the students. As a community, we emphasize building projects and providing solutions to students who are stuck in their overall journey. We conduct hackathons, networking sessions and monthly events about new technologies.

**NuVision** - Clubs are the extension activities at the Journalism and Mass Communication Program. The major aim of the clubs is to create platforms to the students to present their creative productions in

different formats like TV, Radio, photography, film etc. the different clubs include, the students work in group under the guidance of faculty coordinator. each club will conduct programs and competitions which will be planned and executed by the students themselves. These gives them opportunity to take up the responsibility and conduct the event. NuVision- TV Club- TV club offers the students to do production like News bulletin. Interviews, talks etc.

**NUvartha** - Newspaper Club - the club help students to create newsletters, magazines etc.

**NUVFM** - Radio Club - they produce podcasts, radio shows like drama, talk etc.

**NUV Phocus** - Photography Club - they conduct photography workshops, also exhibitions and photo walks were done under the guidance of faculty coordinator.

**Mehfilm Club** - Film club offers students a platform or forum to discuss film and conducts screenings and discussion too.

**The Bio Med Club**, established in 2018 by Biomedical students, wishes to reach all the curious minds and enriching them with better knowledge of Biomedical Sciences. The club strives to promote interactions among the students of various fields and discussion of innovative ideas together. The club also publishes a scientific magazine named "Ingenious Probers: Exploring the Depth". The Club also organizes a lecture series named "Phrenic" wherein they invite eminent persons from across the field of biomedical science.

Aspiring to keep up with the digital era and connect with science community, the BioMed Club has created a website. It was launched on 15th August 2020 with main aim of the website is to spread awareness

of the current ongoing in the field of biomedicine and healthcare. It serves as a medium for reaching out to all the science enthusiasts, and for engaging them in all facets of biomedical sciences. The website serves as a platform to feature all the BioMed club activities like educational trips, field visits, informative student lecture series 'Phrenic' and the digital copies of 'Ingenious Probers'. This website is an upshot of diligence and passion put forth by the entire biomed committee along with the support and guidance of our faculty members. Link to the club website: <https://biomedclubnuv.wordpress.com/>

BioMed Club has conducted many scientific visits, expert lectures, interesting and eco-friendly activities as well. The Biomedical students and the club members have actively participated in all the events with great enthusiasm. Explore more about BioMed Club's Events on: <https://biomedclubnuv.wordpress.com/about-5/>

**Phoenix club @ NUV** : established in 2019 by the BSc Life science group enhances out of the box learning through various activities. The main objective of the formation of such a club is to involve integral

development of personality and general welfare of the students. It aims at helping university programs to interact with each other disciplines to develop the feeling of the interdisciplinary concept among students. It provides a healthy competitive environment for students to become advance in extracurricular activities parallel to their academic performance. It fosters the spirit of teamwork and management among the students and administrative officials jointly with mentors. As a student council, it acts as a bidirectional way for officials of university to communicate to the students and feedbacks to officials related to the certain area including academic to bring required changes for unstoppable developmental of student's welfare in each area.

**Chem Unity** - The community of Chemistry students was established in September 2019 on the occasion of Teachers' Day. It was instituted by the undergraduate and postgraduate students pursuing Chemistry at Navrachana University with an objective of organizing activities pertaining to propagation of Chemistry. The activities include, organization of expert lecture/s, workshop, exhibition, competition, industrial visit, etc.





**The Cultural committee** has three different clubs i.e., Music Club, Dance Club and Theatre Club. These clubs are run by the students and they do different activities at the university level under the guidance of the faculty members of Cultural Committee. Some of the famous events that were conducted by the students are NUV Khelaiya, Music week, Theatre week, etc. The cultural committee majorly focuses on the celebrations in the campus which could be regarding any special occasions like Independence Day, Republic Day, Navratri, etc. The students from different programs get together and create vibrant and creative events and faculty members guide them for accomplishing the best possible event.



**The Sports committee** at Navrachana University focuses on helping students to carry on with their skills in different sport activities. They conduct NUV sports fiesta for the students and faculty members. Apart from conducting annual sports event the committee also provides training for students in other sports like basketball, football, athletics etc. Students are taken for participating in different national championship also.

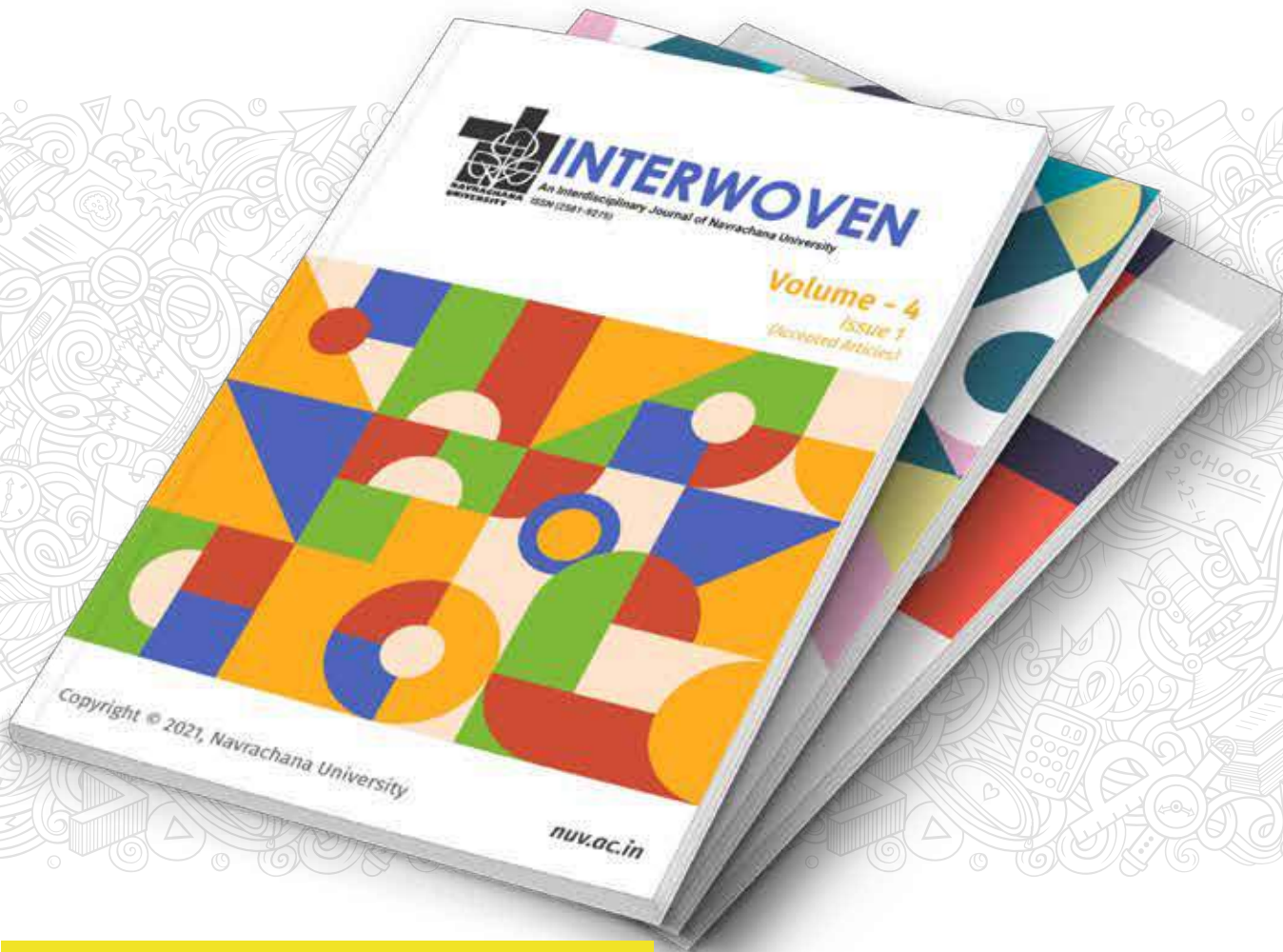


**NCC** - At NUV, we emphasis on grooming today's youth for tomorrow's nation building. Along with, physical activities like exercise and drill, special activities are conducted to inculcate nation building qualities among the cadets. Cadets are also encouraged to participate in adventure camps like trekking and mountaineering. Round the year activities like tree plantation, blood donation camp, visit to old age homes, disaster prevention/protection/relief,

Swachh Bharat Abhiyan, Yoga Day celebration, Youth Day celebration, and Vijay Diwas celebration are conducted to make cadets responsible citizen. The total cadet strength is 40 students.

NCC at Navrachana University started in the academic year 2020-21 with the approved in-take of 120 cadets. It is the part of 1Guj Comp Unit of NCC headquartered at Vadodara, Gujarat. Both Boy cadets & Girl cadets are eligible to enroll at NUV for NCC.





## INTERWOVEN

Interwoven, Navrachana University's peer reviewed interdisciplinary journal, weaves together a wide range of ideas to offer a layered mosaic of scholarly work. Peer reviewed journals are essential for academic work as they bring new rigor to make corrections and also a completely new perspective to the proposed idea.

Interwoven offers a platform to present scholarly articles that are disciplinary and non-disciplinary, and engage in a rich academic discourse. Non-disciplinary articles, because of their generalistic content provide a means for all readers to find a common ground to connect and get involved regardless of their expertise. Disciplinary work, on the other hand, is presented in a form that non-disciplinary readers can read, understand and participate in an academic discourse to reflect, reinvent and expand traditional disciplinary boundaries.

### ■ Aim and Scope

Interwoven is a double-blind peer reviewed interdisciplinary journal of Navrachana University, published online biannually. Interwoven has been granted an e-ISSN number (2581-9275). We strongly encourage faculty, scientists, postdoctoral fellows and research scholars to contribute their scholarly work in the form of research articles, review articles, perspectives, critiques, book reviews and articles in social research. The journal covers inherently general topics as well as specialized topics written for readers from wide backgrounds. The effort is to build a strong interdisciplinary academic and research culture in the society.

Regarding review process, there is a strong set of criteria established for an article to be considered for revision, acceptance or rejection. Every article undergoes check for Plagiarism. Each article is reviewed by three referees.



## Alumni Connect - NUVAA

The Navrachana University Vadodara Alumni Association (NUVAA) is active and functional body which works to increase the alumni engagement and to further improve the relation with alumni for the benefits of Alumni as well as University. To provide networking platform to our Alumni, NUV has developed Alumni Portal ([alumni.nuv.ac.in](http://alumni.nuv.ac.in)). NUVAA had organized a grand alumni meet on 13<sup>th</sup> July, 2019 in which more than 150 alumni had participated. We have members from all the schools of the University and all are actively engaging the alumni with current students by conducting Expert sessions, Panel discussions and Workshops. The alumni association body is formed and registration process is on.

### ■ Alumni activities conducted:

**June 2020 to September 2020:** A webinar on Generation Robots, Alumni Lecture Series, Panel Discussion on Opportunities, Alumni Webinar Series: "A holistic insight into Data Centre Technology"

**October 2020 to January 2021:** Expert Talk on Sustainable Electric System - Electric Vehicle and Lights, Panel Discussion on Educational and career Opportunities Abroad, Panel Discussion on Opportunities, Scope & Requirements for higher studies in foreign countries for EEE graduates

**February 2021 to May 2021:** Panel Discussion on Future of Automobile, Virtual Alumni Meet with 2013-17 Batch of BTech Mechanical, Virtual Alumni Meet with 2015-2019 Batch BTech Electrical, Interviews and Beyond - Pre-Placement Session and Guidance for MBA Students, Alumni Talk Series - Careers in Social Media Content Creation

## CONVOCATION

8<sup>th</sup> Convocation of Navrachana University was held on December 12, 2020. At this Convocation, 18 students were awarded Gold Medals, of which 12 were girls.

826 students from different streams of learning, including undergraduate, post-graduate and doctorate programs, were conferred their degrees. The Gold medals were bagged by Miti Nagar (Education), Prekshaben Pandya (Social Work), Shreya Khandelwal (Interior Design), Aena Patel (Management), Nikita Nene (Law), Trushti Shah (MHRM), Drashti Shah (Mass Communications), Ayushi Singh (BSc), Nayanika Ghosh (MSc-Chemistry), Ayushi Patel (BTech-Electrical), Megha Malusare (BTech-Mechanical), Varun Shah (Architecture), Rushi Vyas (BBA), Harsh Shah (Life Science-PG), Harsh Mehta (BCA), Kuldeep Barge (BTech-Civil) and Anand Shivam (BTech-Computer Science). Ishita Talwar (BBA) bagged the Student of the Year Award.

Amongst the successful students, 4 completed their Doctoral Studies, 259 specialized in Engineering and Information Technology, 202 in Management Studies, 149 in Sciences, 76 in Architecture and Interior

Design, 52 in Education, 39 in Computer Applications, 26 in Mass Communications, and 11 in Social Work. While some of them have secured admission for further studies in prestigious institutions abroad as well as in other parts of India, a number of them have been placed in several corporates in Vadodara and other parts of India.

**Mr. Parag Amin, Inventor and serial entrepreneur, Founding Director at iCreate and President at Radiqal, USA, in his commencement address emphasized that given the lakhs of Indian youngsters being added to the work force every year, the competitive edge will be sharpened for only those who can bring an entrepreneurial mind-set to the workplace.** He added that the number of educated unemployed in India is already mind-boggling and will continue to increase over the next 20 years. In such a situation, the competition is intense and the ability and confidence to take the plunge, learn from failures, and learn fast must be developed and honed during the years at University. He applauded the efforts put in by the Navrachana University fraternity in shaping the academic lives of the student.



## 8<sup>th</sup> Convocation



## FACULTY AND STAFF

Navrachana faculty members are an acclaimed group of scholars and researchers whose teaching is augmented by the contemporariness of their academic knowledge and real world experience. Together they create a unique academic environment that stimulates creativity and critical thinking. Not only are they eminently capable teachers but also compassionate mentors to students.

### SBL

**Dr. Hitesh Bhatia**

Associate Dean

**Dr. Sujatha Patil**

Principal - BBA-LLB

**Dr. Amol Ranadive**

Associate Professor

**Dr. Priyanka Behrani**

Associate Professor

**Dr. Anupama Dave**

Assistant Professor

**Dr. Dinesh Panchal**

Assistant Professor

**Dr. Nikita Mehta**

Assistant Professor

**Dr. Pinakin Jaiswal**

Assistant Professor

**Dr. Pradeep Behera**

Assistant Professor

**Dr. Rabichandra Elangbam**

Assistant Professor

**Ms. Chandrika Raj**

Assistant Professor

**Mr. Firdos Solanki**

Assistant Professor

**Ms. Madhura Thombre**

Assistant Professor

**Ms. Neha Chawla**

Assistant Professor

**Mr. Navin Sinha**

Assistant Professor

**Mr. Rushit Dubal**

Assistant Professor

**Ms. Juhi Bakshi**

Lecturer

**Ms. Manisha Banani**

Lecturer

**Ms. Niyati Patel**

Lecturer

**Ms. Stella Joice**

Academic Associate

### SET

**Dr. Amarish Badgujar**

Head-SET

**Dr. Kedar Pathak**

Associate Professor

**Dr. Pallavi Ghalsasi**

Associate Professor

**Dr. Payal Desai**

Associate Professor

**Dr. Sandeep Patil**

Associate Professor

**Dr. Hiral Parikh**

Assistant Professor

**Dr. Jaideepsinh Raulji**

Assistant Professor

**Dr. Lipika Mazumdar**

Assistant Professor

**Dr. Prakruti Shah**

Assistant Professor

**Dr. Saloni Pandya**

Assistant Professor

**Dr. Shweta Dour**

Assistant Professor

**Dr. Umme Salma Maheeb Pirzada**

Assistant Professor

**Dr. Vishwanath Zunjar**

Assistant Professor

**Mr. Adil Khan**

Assistant Professor

**Mr. Dhaval Mehta**

Assistant Professor

**Ms. Dipali Pandya**

Assistant Professor

**Mr. Gauravkumarsingh Gaharwar**

Assistant Professor

**Ms. Gayatri Chavan**  
Assistant Professor

**Ms. Harsha Bodas**  
Assistant Professor

**Ms. Hetal Desai**  
Assistant Professor

**Mr. Ketankumar Bhavsar**  
Assistant Professor

**Ms. Kriti Jaiswal**  
Assistant Professor

**Ms. Monika Shah**  
Assistant Professor

**Mr. Niraj Patel**  
Assistant Professor

**Mr. Nirav Patel**  
Assistant Professor

**Mr. Rahul Shah**  
Assistant Professor

**Mr. Ravi Sevak**  
Assistant Professor

**Ms. Saritha K**  
Assistant Professor

**Ms. Sushma Vankhede**  
Assistant Professor

**Mr. Vaibhav Gandhi**  
Assistant Professor

**Ms. Vaibhavi Patel**  
Assistant Professor

**Ms. Vaidehi Jain**  
Assistant Professor

**Mr. Viren Parikh**  
Assistant Professor

**Mr. Yogesh Chaudhari**  
Assistant Professor

**Ms. Kinjal Patni**  
Lecturer

**Ms. Priya Vadgama**  
Lecturer

**Mr. Shardav Bhatt**  
Lecturer

**Ms. Aashna Jain**  
Academic Associate

**Mr. Vishal Shah**  
Academic Associate

**Mr. Buddhisagar Patel**  
Lab Assistant

**Mr. Dinesh Parmar**  
Lab Assistant

**Ms. Hemangini Bhatt**  
Lab Assistant

**Mr. Jitendra Patel**  
Lab Assistant

**Mr. Rajendrakumar Gohel**  
Lab Assistant

 **SEDA**

**Prof. Pratyush Shankar**  
Dean

**Ms. Advaita Jalan**  
Associate Professor

**Ms. Pragya Shankar**  
Associate Professor

**Ms. Krunali Rathod**  
Associate Professor

**Ms. Manali Bhadra**  
Associate Professor

**Mr. Pulak Sanpui**  
Associate Professor

**Ms. Shalini Amin**  
Associate Professor

**Ms. Anjal Patel**  
Senior Lecturer

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Academic Associate

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Teaching Assistant

**Mr. Darshil Patalia**  
Teaching Assistant

**Mr. Fakhruddin Fakhri**  
Teaching Assistant

**Mr. Bharatbhai Panchal**  
Teaching Assistant

 **SLSE**

**Dr. PV Xavier**  
Associate Dean

**Dr. Mandira Sikdar**  
Associate Professor

**Dr. Vandana Talegaonkar**  
Associate Professor

**Dr. Archana Tomar**  
Assistant Professor

**Dr. Javed Khatri**  
Assistant Professor

**Dr. Rishi Raj Balwaria**  
Assistant Professor

**Dr. Vaibhavi Pandya**  
Assistant Professor

**Dr. Valli Pillai**  
Assistant Professor

**Ms. Priyanka Shah**  
Assistant Professor

**Ms. Krishna Trivedi**  
Senior Lecturer

**Ms. Akhila K**  
Lecturer

**Mr. Hitarth Pandya**  
Adjunct Faculty



**Prof. A V Ramachamdran**  
Professor Emeritus & Mentor

**Dr. Darshee Baxi**  
Associate Professor

**Dr. Elizabeth Robin**  
Associate Professor

**Dr. Sumit Bhawal**  
Associate Professor

**Dr. Amit Patwa**  
Assistant Professor

**Dr. Ankita Doshi**  
Assistant Professor

**Dr. Brijeshkumar Shah**  
Assistant Professor

**Dr. Denni Mammen**  
Assistant Professor

**Dr. Karan Rana**  
Assistant Professor

**Dr. Krutika Abhyankar**  
Assistant Professor

**Dr. Lipi Buch**  
Assistant Professor

**Dr. Monisha Kottayi**  
Assistant Professor

**Dr. Parth Pandya**  
Assistant Professor

**Dr. Rahul Parikh**  
Assistant Professor

**Dr. Samarth Trivedi**  
Assistant Professor

**Dr. Sheetal Shende**  
Assistant Professor

**Dr. Vivek Mishra**  
Assistant Professor

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Academic Associate

**Mr. Ankit Khandelwal**  
Teaching Associate

**Ms. Forum Patel**  
Teaching Associate

**Ms. Khushali Upadhyay**  
Teaching Associate

**Ms. Jalpa Jagtap**  
Teaching Associate

**Mr. Chirag Patel**  
Lab Assistant

**Mr. Pinkal Patel**  
Lab Assistant

**Mr. Sanjay Jadhav**  
Lab Technician

**Mr. Sohil Nayak**  
Lab Attendant

## STAFF:

**Mr. Anand Ranadive**

Head, IT

**Mr. Animesh Bhatt**

Head, Admissions & Marketing

**Mr. Girikumar Sharma**

Head, Placement and  
Corporate Relations

**Mr. Bhavesh Shah**

Assistant Registrar, Admission

**Mr. Gaurang Datar**

Assistant Registrar, Accounts

**Mr. Ketankumar Bhavsar**

Assistant Registrar, Academics

**Dr. Meghana Vyas**

Deputy Librarian

**Ms. Shilpa Thakre**

Manager Communication

**Ms. Suji R**

HR- Executive

**Mr. Kalpesh Patel**

Admin Officer, Purchase and  
Facility

**Ms. Khyati Patel**

Admin Assistant, (Academics)

**Ms. Smita Biju**

Admin Assistant, (Academics)

**Mr. Sujitkumar Jha**

Admin Assistant, (Academics)

**Mr. Moinahemad Saiyed**

Admin Assistant, (Academics)

**Mr. Anilkumar Solanki**

Library Assistant

**Mr. Ankit Panchal**

Q-Lab Associate

**Mr. Ashvinkumar Chaudhari**

Data Entry Operator

**Mr. Dhairya Vaidya**

Graphic Designer

**Ms. Divya Raj**

Accounts Assisstant

**Ms. Parita Shah**

Library Assistant

**Ms. Rucha Pandya**

Library Assistant

**Ms. Ruman Saiyed**

Training & Placement  
Assisstant

**Mr. Rushikesh Karanjgaokar**

Marketing Assistant

**Mr. Sarath Pillai**

Sports Coordinator

**Mr. Shahid Saiyed**

Technical Assistant

**Ms. Swara Deodhar**

Accounts Assistant

# INDEPENDENT AUDITOR'S REPORT

To The Members of Navrachana University

## Report on the Audit of the Financial Statements

### Opinion

We have audited the accompanying financial statements of **Navrachana University** ("the University"), which comprise the Balance Sheet as at March 31st, 2021 and the Statement of Income and Expenditure for the year ended and a summary of significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give the information required by the Gujarat Private Universities Act, 2009 in the manner so required and give a true and fair view in conformity with the Accounting Standards as applicable to the University and other accounting principles generally accepted in India, of the state of affairs of the University as at March 31<sup>st</sup>, 2021, and its **excess of expenditure over income** for the year ended on that date.

We conducted our audit in accordance with the Standards on Auditing (SAs) issued by the Institute of Chartered Accountants of India. Our responsibilities under those Standards are further described in the Auditor's Responsibility for the Audit of the Financial Statements section of our report, we are independent of the University in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India (ICAI) together with the ethical requirements that are relevant to our audit of the financial statements under the provisions of the Act and the Rules made thereunder and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ICAI's Code of Ethics. We believe that the audit

evidence obtained by us is sufficient and appropriate to provide a basis for our qualified opinion on the financial statements.

### Management's Responsibility for the Financial Statements

The University's Management is responsible for the matters with respect to the preparation of these financial statements that give a true and fair view of the financial position, financial performance and cash flows of the University in accordance with the Accounting Standards applicable to the University and other accounting principles generally accepted in India. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Gujarat Private Universities Act, 2009 for safeguarding the assets of the University and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statement that give a true and fair view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the University's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and

using the going concern basis of accounting unless management either intends to liquidate the University or to cease operations, or has no realistic alternative but to do so.

The University's Management is also responsible for overseeing the University's financial reporting process.

## **Auditor's Responsibility for the Audit of the Financial Statements**

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

Obtain an understanding of internal financial control relevant to the audit in order to design audit procedures that are appropriate in the circumstances.

Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.

Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the University's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the University to cease to continue as a going concern.

Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

Materiality is the magnitude of misstatements in the financial statements that, individually or in aggregate, makes it probable that the economic decisions of a reasonably knowledgeable user of the financial statements may be influenced. We consider quantitative materiality and qualitative factors in (i) planning the scope of our audit work and in evaluating the results of our work; and (ii) to evaluate the effect of any identified misstatements in the financial statements.

We communicate with the management of University regarding, among other matters, significant audit findings that we identify during our audit.

We also provide to the management of University with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

**FOR AMIN PARIKH & CO.**

**CHARTERED ACCOUNTANTS**

**FRN:100332W**

CA SAMIR R PARIKH

PARTNER

M. No.: 41506

Place: VADODARA

Date: 13<sup>th</sup> November, 2021

UDIN: 21041506AAAASP6485

# FINANCIAL STATEMENT

## BALANCE SHEET AS AT 31<sup>st</sup> MARCH, 2021

Amount in Rs.

PARTICULARS	SCHEDULE	As at 31.03.2021	As at 31.03.2020
<b>SOURCES OF FUNDS :</b>			
Corpus and Funds			
Other Funds	A	13,61,57,374.52	12,74,51,400.52
Corpus Fund		1,00,00,000.00	1,00,00,000.00
Unsecured Loan	B	53,72,80,714.81	53,31,78,887.56
<b>TOTAL .....</b>		<b>68,34,38,089.33</b>	<b>67,06,30,288.08</b>
<b>APPLICATION OF FUNDS :</b>			
Infrastructure and Investments			
Fixed Assets	C	50,40,01,046.97	50,22,93,083.97
Investments	D	1,20,91,951.00	3,69,05,545.00
<b>Current Assets</b>			
Deposits (Asset)	E	3,28,534.00	3,16,300.00
Dues receivable from students	F	7,24,850.00	16,24,700.00
Other Advances	G	1,77,982.00	11,80,750.97
Cash and Bank Accounts	H	3,69,91,096.85	1,33,79,664.84
		<b>3,82,22,462.85</b>	<b>1,65,01,415.81</b>
<b>Less : Liabilities &amp; Provisions</b>			
Duties & Taxes	I	3,31,533.00	40,92,478.00
Provisions	J	9,89,721.00	6,37,399.00
Sundry Creditors	K	26,55,945.00	16,85,343.00
Deposits (Liabilities)	L	2,42,51,504.61	2,59,25,893.61
Grants (Liabilities)	M	16,42,239.00	38,74,848.27
NUV Clubs	N	2,28,323.82	2,37,636.00
Excess Fees Refundable		-	13,625.00
		<b>3,00,99,266.43</b>	<b>3,64,67,222.88</b>
<b>Net Working Capital</b>		<b>81,23,196.42</b>	<b>(1,99,65,807.07)</b>
Income and Expenditure Account	O	15,92,21,894.94	15,13,97,466.18
<b>TOTAL .....</b>		<b>68,34,38,089.33</b>	<b>67,06,30,288.08</b>
Significant Accounting Policies	V		
Notes on Accounts	W		

As per our separate report on behalf of the University of even date attached herewith

**CA Samir Parikh**

Partner

M. No. 041506

**Dr. Nilay Yajnik**

Provost

**Dr. Sandeep Vasant**

Registrar

**For Amin Parikh & Co.**

Chartered Accountants

FRN : 100332W

Place: Vadodara

Date : 13<sup>th</sup> November 2021



# INCOME AND EXPENDITURE ACCOUNT

FOR THE YEAR ENDED 31<sup>st</sup> MARCH, 2021

Amount in Rs.

PARTICULARS	SCHEDULE	As at 31.03.2021	As at 31.03.2020
<b>INCOME</b>			
Fees	P	22,80,65,825.93	23,90,42,649.98
Other Income	Q	35,16,528.81	34,10,638.23
<b>TOTAL .....</b>		<b><u>23,15,82,354.74</u></b>	<b><u>24,24,53,288.21</u></b>
<b>EXPENDITURE</b>			
Salary	R	12,05,62,017.00	11,23,44,466.57
Educational Expenses	S	2,59,62,544.00	2,24,15,343.82
Establishment Expenses	T	2,40,74,314.54	3,03,62,464.00
Finance charges	U	<b>3,78,89,877.71</b>	<b>4,27,02,816.74</b>
<b>Depreciation</b>		<b>3,09,18,030.25</b>	<b>3,57,73,714.00</b>
<b>TOTAL .....</b>		<b><u>23,94,06,783.50</u></b>	<b><u>24,35,98,805.13</u></b>
Surplus (Deficit) Carried To Balance Sheet		<b><u>(78,24,428.76)</u></b>	<b><u>(11,45,516.92)</u></b>

As per our separate report on behalf of the University of even date attached herewith

**For Amin Parikh & Co.**

Chartered Accountants

FRN : 100332W

**CA Samir Parikh**

Partner

M. No. 041506

**Dr. Nilay Yajnik**

Provost

**Dr. Sandeep Vasant**

Registrar

Place: Vadodara

Date : 13<sup>th</sup> November 2021

# NOTES TO FINANCIAL STATEMENTS

FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021

## SCHEDULE -V

### SIGNIFICANT ACCOUNTING POLICIES

#### 1. Basis of preparation of Financial Statements

- (a) The financial statements have been prepared under the historic cost convention on accrual basis in accordance with the generally accepted accounting principles in India, except otherwise stated.
- (b) Government grant is accounted when received.
- (c) Donations received from communities/ institutions for specific purpose are credited to respective earmarked funds and for other than specific purpose are credited to Income & Expenditure Account.

#### 2. Use of Estimates

The preparation of financial statements requires estimates and assumptions to be made that affect the reported amount of assets and liabilities on date of the financial statement and the reported amount of revenues and expenses during the reporting period. Difference between the actual result and estimates are recognised in the period in which the results are known/ materialized

#### 3. Fixed Assets

Fixed assets are stated at cost.

#### 4. Depreciation

Depreciation on fixed assets is provided on the written down value basis at the rates as per the provisions of Income Tax Act 1961.

#### 5. Investments

Investments are carried at cost and provision is made to recognize any diminution in value, other than that of temporary nature.

#### 6. Revenue Recognition

- (a) Income from students on account of education fees is recognized on accrual basis.
- (b) Other income are recognized on accrual basis.

#### 7. Inventories

Materials are purchased and consumed and there is no inventory as on closing day of the account.

#### 8. Retirement Benefits

- (a) Contributions to Provident Fund and Superannuation Fund are charged to Income and Expenditure Account.
- (b) Gratuity Liability is determined on the basis of number of years of completed service and the last drawn salary as on 31<sup>st</sup> March, 2021, on actuarial basis as estimated by an independent actuary.
- (c) Liability for Leave Encashment benefit is determined on the basis of accumulated leave balance and the last drawn salary as on 31<sup>st</sup> March, 2021, on actuarial basis as estimated by an independent actuary.

#### 9. Library Books

Expenditure on Library Books are capitalized and shown in assets.

# NOTES TO FINANCIAL STATEMENTS

FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021

## SCHEDULE - W

### NOTES TO ACCOUNTS

#### 1. Information about the University

- Navrachana University (the 'University') a body corporate, registered under the Gujarat Private University (Amendment) Act, 2019.
- The overarching goal of the University, in general, shall be to advance education at certificate, undergraduate degree, post graduate degree level including Architect, Engineering, Law etc, and to carry out research development, extension and outreach activities either on its own or in collaboration with other universities or institutions at national /international level including continuing education, distance learning and e-learning in the field of education in particular, the objectives of the university.

#### 2. Contingent Liabilities

Sr.	Particulars	(Rs. in lacs)	
		As at 31 <sup>st</sup> March 2021	As at 31 <sup>st</sup> March 2020
		NIL	NIL

#### 3. Employee benefits

Sr.	Particulars	(Rs. in lacs)	
		As at 31 <sup>st</sup> March 2021	As at 31 <sup>st</sup> March 2020
a.	Gratuity		
	Liability as per actuarial valuations Provision in the books of accounts	249.72	225.15
	Not provided for in the books of accounts	NIL	NIL
b.	Leave encashment		
	liability as per actuarial valuations Provision in the books of accounts	Valuation not done	Valuation not done
	Not provided for in the books of accounts	NIL	NIL

4. Disclosure on related parties transactions:- During the year transaction with related parties has been carried out which are as under:

Sr. No.	Name of Parties	Nature of Transaction	(Rs. in lacs)
			Amountt
1.	Navrachana Education Society	1. Interest on borrowed Funds	378.58

5. Agreement/MOU between Navrachana Education Society and Navrachana University is executed on 25.06.2012 which referred to the transferred of operation activities of the Society to Navrachana University along with usages of properties belonging to the Society. As per MOU, Navrachana University has provided usages charges towards land and Assets usages of Rs.378.58 Lacs to Navrachana Education Society.
6. Sundry creditors, Debtors, Deposits, advances and other debit/credit balances as appearing to balance sheet are subject to confirmation and reconciliation.
7. Figures for the previous year have been regrouped or rearranged, wherever required to make them comparable with those of the current year.

**For Amin Parikh & Co.**

**On behalf of the Navrachana University**

**Chartered Accountants**

**FRN: 100332W**

**CA Samir Parikh**

Partner

M.No.041506

**Provost**

**[Dr. Nilay Yajnik]**

**Registrar**

**[Dr. Sandeep Vasant]**

Place : Vadodara

Date : 13<sup>th</sup> November, 2021

# UNIVERSITY OFFICERS

## NAVRACHANA UNIVERSITY VADODARA ADMINISTRATIVE OFFICERS

### Dr. Nilay Yajnik

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## HEAD OF THE SCHOOLS

### SCHOOL OF BUSINESS AND LAW

#### Dr. Hitesh Bhatia

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### SCHOOL OF ENVIRONMENTAL DESIGN AND ARCHITECTURE

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#### Dr. P.V. Xavier

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### SCHOOL OF SCIENCE

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**Ms. Suji R**

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**Mr. Kalpesh Patel**

Admin Officer, Purchase and Facilities

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विश्वामित्री के तट पे देखो, शहर सयाजीनगरी है,  
मां शारदा का मंदिर है जो, नवरचना युनिवर्सिटी है।

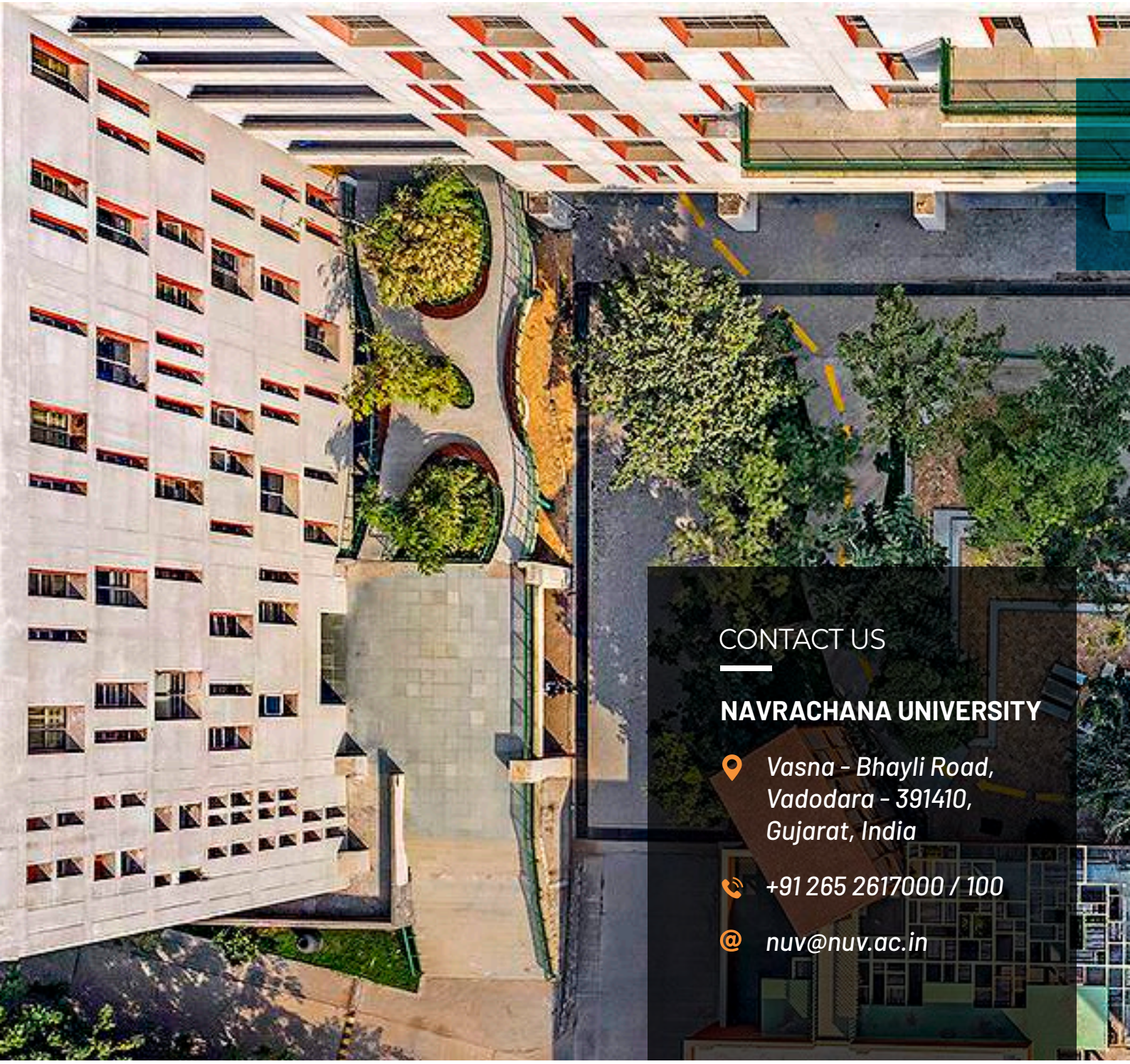
बनना है जो बन जाओ तुम, बात हमें बतलाती है,  
शिक्षण से ही स्वतंत्रता है, पाठ यही पढ़वाती है।  
नव नव रचना करते यहां पर छात्र और छात्राएं है,  
शिक्षण की खुशबू फैलाती नवनिर्मित शाखाएं है।

प्रयोग से प्रेरित शिक्षा पर यहां ज़ोर दिया जाता है,  
एनुवी का छात्र दशों दिशा में पर फैलाता है।  
निष्ठा, तप और धैर्य यहां के शिक्षक की पहचानें है,  
शिक्षा और संशोधन से जो उन्नत राष्ट्र बनाते है।

विश्वामित्री के तट पे देखो, शहर सयाजीनगरी है,  
मां शारदा का मंदिर है जो, नवरचना युनिवर्सिटी है।

नवरचना.....नवरचना.....युनिवर्सिटी  
नवरचना.....नवरचना.....युनिवर्सिटी


नवरचना.....नवरचना.....युनिवर्सिटी  
हमारी नवरचना.....नवरचना.....युनिवर्सिटी




## CONTACT US

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