

VEER NARMAD SOUTH GUJARAT UNIVERSITY

**J. P. DAWER INSTITUTE OF INFORMATION
SCIENCE AND TECHNOLOGY**

DEPARTMENT OF I.C.T.

M.Sc. (I.T.)



PROSPECTUS

Master of Science (Information Technology)

24th – Batch – 2023-2028



The vision of Veer Narmad South Gujarat University as per the University Act, is to contribute in the field of Higher Education to deliver best in class knowledge. It foresees to create trained personnel in various branches of literacy keeping nation-building as a major goal. The University is dedicated to uphold eminence in both undergraduate and postgraduate teaching, promoting research and undertaking the requisite extension activities that would extend to all in the society. A semi-urban University located at Surat city, the University has a campus spread over 210 acres. The University, re-accredited 'B++' grade with 2.86 CGPA on 4 Points scale by the National Accreditation and Assessment Council in 2022, is also accredited with 'A' grade with 3.02 CGPA in 2017. The university was originally established under the South Gujarat University Act, 1965 passed by the Gujarat State Legislative Assembly. It became functional from the academic year of 1966 and was incorporated as a University on 23 May, 1967. Recognized by the University Grants Commission in 1968, it was renamed as Veer Narmad South Gujarat University in 2004 after the great Gujarati poet Narmad, Narmadshankar Lalshankar Dave. The University is committed to the ideal of excellence of the highest order, as evidenced by its constant revision of existing syllabi and continuous addition of new courses. It aims at optimal use of all its resources in creating a knowledge society, where rigorous scholarship and high ethical standards are blended to meet the challenges of the 21st century India.



HONORABLE VICE CHANCELLOR'S MESSAGE

It gives me immense pleasure to lead Veer Narmad South Gujarat University and be a part of the extended academic family. I am elated to welcome the students from different parts of the world to various graduate and post-graduate programmes. The University has a rich legacy of more than 50 years and today the alumni of the university with their outstanding credentials have spread their fragrance in different corners of the world.

I feel proud to introduce two unique courses in information technology running on the university campus, M.Sc.IT (5 Year Integrated Course) and M.Sc.ICT (2 Year Integrated PG Course) that have added a new feather to the university. In the era of technology and digitization, these courses open up various possibilities for the young minds in software development and IT Industry. The institute has made its mark with several students placed in leading IT Companies throughout the world and also owning their own software companies.

As the fatherly figure, I welcome the aspiring minds to these courses to explore their potentials and dive in the pool of knowledge. My best wishes to the faculties and students in their endeavors .



REGISTRAR'S MESSAGE

A warm welcome to all the students who aspire to be a part of the intellectual fraternity at Veer Narmad South Gujarat University. The university has attained many milestones and is emerging as an institution of quality learning with integrated academic programmes.

The university puts in continuous efforts to make a unique brand in quality education and offer leadership by way of differentiation in all its intellectual pursuits. The online admission process initiated by the university has made the functioning more easier, faster and transparent.

The main focus is on development of contemporary curriculum, meeting benchmarks of quality assurance, development of a healthy academic governance structure, providing updated research support and preparing industry ready professionals.

As a facilitator, I would like to extend my helping hand to the ICT department in all their endeavors and wish that the department continues to flourish. I also welcome the young students to the ICT family in order to fulfil their dreams and become eminent intellectuals.

ABOUT THE DEPARTMENT



Department of I.C.T. runs two courses Master of Science in Information Technology (M.Sc.(I.T.)) and Master of Science in Information and Communication Technology (M.Sc.(I.C.T.)).

M.Sc.(I.T.) is a 5 year integrated course run by V.N.S.G.U., since the year 2000. M.Sc.(I.T.) course combines various facets of computer application, electronics, communication, programming, networking etc. to equip students with skills relevant to industry demand. To get admission in this program, the candidate must have passed HSC from Commerce/ Science / Vocational Stream.

M.Sc.(I.C.T.) is a post graduate course of 2 Years commenced in the year 2005. that is offered to the students of computer graduates of BCA, B.Sc.(Computer Science), B.Sc.(I.T.) & B.E.

The Department is having well qualified 11 permanent faculties out of which 9 (Nine) have Ph.D. Degree in Computer Science, 1 (One) in Electronics and 1 (One) in English. The curriculum of both the courses is well framed keeping in mind the requirements of present-day IT industry. The intensive lab practical and several projects, during the tenure makes the students industry ready IT professionals. To impart practical knowledge, the department has 7 labs that includes Embedded systems lab, IoT lab & iOS Lab.

Placement of students in reputed IT companies and several companies owned by the Alumni of the Department bear a testimony to the endeavor and success of the institute.

INFRASTRUCTURE

A multi-million-rupee investment is done on the infrastructure which has made the institute as one of the best-equipped educational center of Veer Narmad South Gujarat University offering Degree programs in Information Technology.

GENERAL INFRASTRUCTURE

- **Theatre-type Classrooms with Smart Board and DLP Projector (Two)**



- **Spacious Classrooms with DLP Projectors (Eight)**



- **Computer Laboratories (Seven)**



- **Library**



- **Seminar Hall (with capacity of 120 persons)**



- An AMPHI Theatre with a capacity to accommodate 900 people



- Server Room



- Canteen



OTHER FACILITIES

- **IoT Laboratory (One)**
- **Faculty Rooms (Seventeen)**
- **Common Room**
- **Meeting Room**
- **Strong Room**
- **Girl's Room**
- **Administration Office Room**

OTHER RESOURCES

| Resource: | Details |
|------------------|---|
| Internet: | Fiber Optic Internet Connection |
| Server: | 1 IBM BladeCenter Blade Server with 3 blades (each with Intel Xeon Processor 2.5 GHz, 2 GB RAM, 300 GB HDD) 1 IBM System x3650 M3 Rack Server (with Xeon Processor, 4 GB RAM, 1 TB HDD) |
| GPU: | 1 HP Z4 G4 Workstation, Intel® Xeon® W-2265 CPU@ 3.50 GHZ, 64 GB RAM, 2 TB SSD |
| Desktop: | 120 HP (with i7 Processor 2.90 GHz, 16 GB RAM, 1 TB HDD) 100 HP (with i7 Processor 3.60 GHz, 8 GB RAM, 1 TB HDD) 60 Dell (with i7 Processor 2.70 GHz, 16 GB RAM, 1 TB SDD) 15 Dell (with i7 Processor 3.60 GHz, 8 GB RAM, 1 TB HDD) 15 Lenovo (with i5 Processor 3.40 GHz, 4 GB RAM, 500 GB HDD) 9 Mac (with i5 Processor 2.5 GHz, 4 GB RAM, 500 GB HDD) |

| | |
|------------------|--|
| | 12 Mac mini (with i5 Processor 1.40 GHz, 4 GB RAM, 500 GB HDD) |
| Panel: | 2 Interactive Panel |
| Laptop: | 11 Dell (with i7 Processor 2.6 GHz, 8 GB RAM, 1 TB HDD) 12 Dell (with i5 Processor 2.4 GHz, 4 GB RAM, 500 GB HDD) 1 Mac (with i5 Processor 2.5 GHz, 8 GB RAM, 500 GB HDD) |
| Storage: | QNAP NASBox (TVS 471-I3-4G) with 4 TB Storage |
| Software: | <ol style="list-style-type: none"> 1. Eset End Point Security Business Edition 2. Microsoft Campus License (Product Code: 2UJ-00007) 3. Microsoft Window 10 License 4. Soul Software |
| Wi-Fi: | 12 Access Point |
| UPS: | 2 Uninterrupted Power Supply (40 KVP) with 5 - hours battery backup |
| CCTV: | 32 CCTV cameras |

eYantra Embedded Systems & Robotics Lab



Learning Resources - eLibrary

- 32 e-books (E Library : Pearson and McGraw Hill)
- 3999 physical reference books

The screenshot shows the Pearson eLibrary website interface. At the top, there is a navigation bar with the Pearson logo, 'eLibrary' text, and links for 'Get it on Windows' and 'Get it on Mac Store'. Below this, there are tabs for 'MY BOOKSHELF' and 'MY LIBRARY'. A message indicates '13 book(s) are available'. A search bar and a 'Sort By: Last Read' dropdown are present. The main content area displays a grid of six e-books, each with a cover image, title, author name, and an 'Added' button.

| Book Title | Author |
|---|-------------------|
| Programming in C | Kochan |
| Data Structures and Algorithms Using C++ | Akepogu, Palagiri |
| Database Systems Using Oracle: A Simplified Guide to... | Shah |
| Introduction to Digital Electronics | Betty |
| Software Engineering | Mishra, Mohanty |
| Object-Oriented Programming with C++ | Sharma |

The screenshot shows the McGraw Hill India Express website. The top navigation bar includes the McGraw Hill logo, 'India Express' text, and links for 'Catalog', 'Bookshelf', and 'Download App'. A search bar is prominently displayed. Below the search bar, the product page for 'Artificial Intelligence' is shown. The page features a book cover image, the title 'Artificial Intelligence', and a table with book details.

| Field | Value |
|----------------|---------------|
| Author | Khemani |
| ISBN 13 | 9789383286782 |
| Published date | 2013 |
| Publisher Name | Mcgraw Hill |

FACULTY PROFILE

Dr. Pushpal Desai

**Head of the Department
Associate Professor**



Designation: Associate Professor
Qualification: Ph.D., MCA
Teaching Experience: 22 Years
Subjects: Operating System, RDBMS
Area of Research: Data Warehouse,
Data Mining

Dr. Devendra Pandey

Assistant Professor



Qualification: Ph.D., MCM
Teaching Experience: 22 Years
Subjects: Computer Network,
Advanced Computer Network,
E-business, Cyber Law
Area of Research: Cloud Computing

Course Co-ordinator M.Sc. (I.C.T.)

Dr. Kamalendukumar Pandey

Assistant Professor



Qualification: Ph.D., MCA, ME, BE,
GSLET Qualified
Industrial Experience: 13 Years
Teaching Experience: 17 Years
Subjects: JavaEE, Cloud Computing (MSA, DevOps)
Area of Research: Sensor Networks,
Micro-Service Architecture, Cloud Computing

Dr. Tejas Shah

Assistant Professor



Qualification: Ph.D., M.Sc. (I.T.),
UGC NET Qualified

Teaching Experience: 18 Years

Subjects: Data Structure, RDBMS,
Software Engineering

Area of Research: Requirement Engineering

Dr. Payal Joshi

Assistant Professor



Qualification: Ph.D., M.Sc. (I.T.), UGC NET Qualified

Industrial Experience: 1 Year

Teaching Experience: 17 Years

Subjects: Open-Source Web Development,
Application Development using Full Stack
(MEAN Stack), Web Development-1
(XML, JavaScript, JQuery)

Area of Research: Information Retrieval, NLP, Machine Learning

Dr. Dhaval Joshi

Assistant Professor



Qualification: Ph.D., M.C.A., GSET Qualified

Industrial Experience: 1 Year

Teaching Experience: 17 Years

Subjects: Application Development using
.NET Core, C# NET, Cloud Computing
(AWS, Azure, GCP)

Area of Research: Schema Matching,

Data Migration, Cloud Computing, Micro Service Architecture

Dr. Shailesh Chaudhari

Assistant Professor



Qualification: Ph.D., MCA, M.Phil.,
UGC NET, GSET Qualified
Teaching Experience: 19 Years
Subjects: Software Engineering,
Smart Device Computing using(iOS / Android)
Area of Research: Image Processing

Dr. Parul Patel

Assistant Professor



Qualification: Ph.D., M.Sc. (I.T.), GSET Qualified
Teaching Experience: 16 Years
Subjects: C Programming, Information
Security and Applications, Advanced
Computer Network, DBMS
Area of Research: Information Retrieval,
Natural Language Processing, Machine Learning

Dr. Dilber Mehta

Assistant Professor



Qualification: Ph.D. (British Literature),
M.Phil., M.A. (English), B.Ed.
Teaching Experience: 17 Years
Subjects: Communication Skills, Business
Communication Skills, Soft Skills
Area of Research: British Literature and ELT

Dr. Hitesh Lad

Assistant Professor



Qualification: Ph.D., M.Phil., M.Sc. (Electronics)

Teaching Experience: 13 Years

Subjects: Fundamental of Electronics,
Embedded System and Internet of Things,
Microprocessor, Wireless Communication

Area of Research: Embedded Systems,
Internet of Things

Dr. Veena Jokhakar

Assistant Professor



Qualification: Ph.D., M.Sc. (I.T.)

Industrial Experience: 2 Years

Teaching Experience: 13 Years

Subjects: Java, Business Intelligence,
System Analysis and Design,
Python and Data Science

Area of Research: Data Warehouse, Data Mining

ADMISSIONS

CRITERIA

The candidate will be granted admission purely on the merit, based on aggregate marks obtained in HSC / Equivalent Examination. Marks obtained in practical will be in force in calculate aggregate marks.

TOTAL INTAKE - 240

- 168 Seats are reserved for Science Stream students
- 72 seats are reserved for General Stream (Commerce) students.
- 8 seats are available under Sports Quota.
- 16 Supernumerary seats are available under NRI/NRI sponsored category.

Eligibility

- ✓ A candidate who has passed HSC (12th) /Equivalent Examination from Science Stream (A, B, AB Group) or General Stream (Commerce) or Vocational Stream with English as one of the subjects.

M.Sc. (I.T.)

[5 Years integrated Course]

24th Batch

2023-2028

QUOTA / RESERVATION / ALLOTMENT

- Quota / Reservation / Allotment, in-force from time to time as per university norms will be applicable.

| Category | Percentage |
|--|-------------------------------|
| Schedule Caste (S.C.) | 7% |
| Schedule Tribe (S.T.) | 15% |
| Socially and Educationally Backward Caste (S.E.B.C.) | 27% |
| E.W.S. | 10% |
| Physically Handicapped (PH) | 3% (in respective categories) |

- 80% seats will be filled in by the applicants who have passed their 12th Standard examination from Gujarat Secondary and Higher Secondary Education Board, Gandhinagar.
- 20% seats will be filled in by the applicants who have passed their 12th Standard examination from Other Board (CBSE, ICSE, etc.).
- Admission on Sports Quota will be given as per the direction of the university. Admission to candidate of vocational stream will be given on the science quota seats. The number of seats for vocational stream candidates will be calculated on the basis of ratio of application received of science stream candidates and vocational stream candidates.
- Kashmir migrants will get admission as per university rules.

Note: University reserve rights to change total intake /Quota / Reservation / Allotment mentioned above.

Documents to be attached with the online application

The Candidate shall submit the self attested copies of the following documents along with the print out of the registration form at the Help Centre.

- ✓ S.S.C. Examination (Std.10th) Mark sheet
- ✓ H.S.C. Examination (Std.12th) Mark sheet
- ✓ School Leaving Certificate, Transfer Certificate or Migration Certificate.
- ✓ Trial Certificate issued by the school.
- ✓ Caste Certificate for a candidate belonging to Scheduled Castes (SC) / Scheduled Tribes (ST) and Socially and Educationally Backward Classes (SEBC) issued by the authority empowered by the Gujarat State Government in this behalf / Certificate of E.W.S. (If Applicable only).
- ✓ Non Creamy Layer (NCL) Certificate of the family, issued after 1st April of The relevant academic year, by the authority empowered by the State Government in this behalf. (If Applicable only)
- ✓ Certificate of Physical Disability, issued and duly signed by the Civil Surgeon / Competent.
- ✓ Medical Authority, in case of a Physically Handicapped candidate (If Applicable only).

MERIT LIST

Merit list will be based on aggregate marks obtained by the candidate in HSC Examinations / Equivalent Examination. Marks obtained in practical will be included in calculating aggregate marks. In the event of a tie, the tie will be resolved by following order:

- Comparing percentage of S.S.C. Examination, then
- Comparing Birth date

A candidate, who has passed HSC / Equivalent Examination with more than one attempt is also eligible to apply, however, the candidate will be placed in the merit list after deducting 2% marks per additional attempt.

Note: Department timing will be between 8:00 AM to 6:00 PM, depending on the availability of staff members and physical infrastructure. The student taking admission in the course will have to follow a time table decided by the department. Department may offer admission in Morning or Afternoon shifts and students taking admission in the course will have to follow a time table decided by the department.

COURSE FEES

| Year / Semester | Fees |
|---|---------------------------|
| B.Sc. (I.T.) Semester 1 to 6 | Rs. 19,250/- per Semester |
| M.Sc. (I.T.) Semester 7 to 10 | Rs. 24,750/- per Semester |
| B.Sc. (I.T.) 1 st , 2 nd and 3 rd Year (NRI/NRI sponsored candidates) | US\$ 2500 per Year |
| M.Sc. (I.T.) 4 th and 5 th Year (NRI/NRI sponsored candidates) | US\$ 3000 per Year |

*Additional fees per semester towards registration fees, library fees, identity card fees, Student Union fees, campus development fees etc. shall be collected separately as per the University Rules.

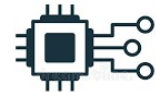
Note:

- The course fees and other miscellaneous fees may be revised by the university. In such a case, the students are liable to pay the fees as per university direction.
- The Fees Refund Rules are applicable as per the university norms.
- The admission taken on NRI/NRI sponsored seat shall not be transferred to any other quota.
- The fees once paid for NRI/NRI sponsored seat is not refundable.
- In case of any bank charges for NRI fee payment, has to be borne by the student in Indian rupees.

Instructions to the students regarding Discipline/attendance/Examination:

- All the university's rules and regulations in force from time to time, regarding anti ragging, discipline, attendance and examination will be applicable to the all admited students. Students can visit VNSGU's website www.vnsgu.ac.in in more details.
- If any incident of ragging and indiscipline come to the notice of the university authority, the authority would expel him/her from the university.

Technologies included as per latest industry trends and requirements



EMBEDDED SYSTEM

Google Cloud Platform



M.Sc. (I.T.) - 5 Years Integrated Course Structure

SEMESTER – I

| Subject Code | Subject Title | Description |
|--------------|---|---|
| 101 | Communication Skills in English | |
| 102 | Mathematics – I | |
| 103 | Fundamentals of Computer | Peripherals, Number Systems, OS, Office Tools |
| 104 | Fundamentals of Programming using C - I | C Language |
| 105 | Internet and Web Technologies | HTML, CSS |
| 106 | Practical - 1 | Based on 104 |
| 107 | Practical - 2 | Based on 105 |
| 108 | NSS/Sports/Saptdhara | |

SEMESTER – II

| Subject Code | Subject Title | Description |
|--------------|--|--------------|
| 201 | Business Communication Skills in English | |
| 202 | Mathematics - II | |
| 203 | Fundamentals of Programming using C - II | C Language |
| 204 | E Business and Cyber Laws | |
| 205 | Introduction to DBMS | MySql |
| 206 | Practical - 3 | Based on 203 |
| 207 | Practical - 4 | Based on 205 |
| 208 | NSS/Sports/Saptdhara | |

SEMESTER – III

| Subject Code | Subject Title | Description |
|--------------|-----------------------------|---|
| 301 | Soft Skills | |
| 302 | Fundamental of Electronics | Basic Electronics and Digital Electronics |
| 303 | Data Structure | Programming using C |
| 304 | Object Oriented Programming | C++ |
| 305 | Computer Network | |
| 306 | Practical - 5 | Based on 303 |
| 307 | Practical - 6 | Based on 304 |

SEMESTER – IV

| Subject Code | Subject Title | Description |
|--------------|---|--|
| 401 | Environmental Science | |
| 402 | Fundamental of Embedded System and IoT | 8-bit Microcontroller (8051 core) and 32-bit Microcontroller (ARM core), Sensors, Embedded C Language. |
| 403 | VB.NET | VB.NET |
| 404 | Relational Database Management System - I | Oracle SQL |
| 405 | Web Development - I | JavaScript, XML, jQuery |
| 406 | Practical - 7 | Based on 402 |
| 407 | Practical - 8 | Based on 403 and 404 |
| 408 | Practical - 9 | Based on 405 |

SEMESTER – V (Proposed Syllabus)

| Subject Code | Subject Title | Description |
|--------------|--|--------------------------------|
| 501 | Web Development - II | PHP, MySQL, NoSQL, AngularJS |
| 502 | Relational Database Management System - II | Oracle PL/SQL |
| 503 | Mobile Application Development | Kotlin Programming Language |
| 504 | System Analysis and Design | |
| 505 | Financial Accounting and Taxation | Basic Accounting Concepts, GST |
| 506 | Practical - 10 | Based on 501 |
| 507 | Practical - 11 | Based on 502 |
| 508 | Practical - 12 | Based on 503 |

SEMESTER – VI (Proposed Syllabus)

| Subject Code | Subject Title | Description |
|--------------|------------------|-------------------------------|
| 601 | Java | Core Java with latest JavaSE |
| 602 | ASP.NET | ASP.NET |
| 603 | Operating System | |
| 604 | Cloud Computing | Basic Cloud Computing Concept |
| 605 | Practical - 13 | Based on 601 |
| 606 | Practical - 14 | Based on 602 |
| 607 | Project | |

SEMESTER – VII

| Subject Code | Subject Title | Description |
|--------------|--|---|
| 701 | Application Development using Full Stack | MongoDB, Angular, Express, NodeJS |
| 702 | Application Development using .NET CORE | C#.NET Core, MVC, .NET Core MVC, RESTful Web API |
| 703 | Software Engineering | Project Management, Design Patterns, Web Engineering and Software Quality Assurance |
| 704 | Optimization Techniques | Sequencing, Network Analysis |
| 705 | Practical - 15 | Based on 701 |
| 706 | Practical - 16 | Based on 702 |
| 707 | Part Time Project 1 | |

SEMESTER – VIII

| Subject Code | Subject Title | Description |
|--------------|--|--|
| 801 | Java Web Development | Using Java/Jakarta EE for Web Applications |
| 802 | Enterprise Java | Java/Jakarta EE on Distribute Architecture for business Logic And REST resources |
| 803 | Elective 1: Smart Device Computing Using iOS Elective 2: Smart Device Computing Using Android | Swift, Design Patterns Android programming |
| 804 | Artificial Intelligence | Basics of AI, Algorithms, Optimization, Gaming, Planning and Knowledge |
| 805 | Practical - 17 | Based on 801 and 802 |
| 806 | Practical - 18 | Based on 803 |
| 807 | Part Time Project 2 | |




SEMESTER – IX

| Subject Code | Subject Title | Description |
|--------------|-------------------------------|--|
| 901 | Internet of Things (IOT) | Raspberry pi and Arduino H/W Platforms, Python Programming for IOT |
| 902 | Machine Learning using Python | ML Basics, Python and its ML Libraries, Models and Regression Techniques |
| 903 | Cloud Computing | AWS, Azure, Google Cloud, Micro Services, CI/CD, DevOps |
| 904 | Business Intelligence | SSIS, SSAS, SSRS, Power BI |
| 905 | Practical - 19 | Based on 901 and 902 |
| 906 | Practical - 20 | Based on 903 and 904 |
| 907 | Part Time Project 3 | |

SEMESTER – X

| Subject Code | Subject Title | Description |
|--------------|---------------|-------------|
| 1001 | Project | |

E-Learning Initiative :

| Sr. No. | Name of the Course | Enrolled Students from Semester | Course Badge |
|---------|--|---|---|
| 1 | AWS Academy Introduction to Cloud Semester 1 | M.Sc. (IT) 5 th M.Sc. (IT) 6 th M.Sc. (IT) 7 th M.Sc. (IT) 9 th M.Sc. (ICT) 3 rd |  |
| 2 | AWS Academy Introduction to Cloud Semester 2 | M.Sc. (IT) 8 th M.Sc. (IT) 9 th M.Sc. (ICT) 3 rd |  |
| 3 | AWS Academy Machine Learning Foundation | M.Sc. (IT) 9 th M.Sc. (ICT) 3 rd |  |

Industrial Visit at

@Sahajanand Technologies Pvt. Ltd. In the industrial visit, the students learn about the innovative robotic technologies and industrial grade machineries developed by STPL R&D Department. In this session, the center of discussion was emerging technological trends, role of information & communication technology in current industrial scenario with the brief idea about the working of STPL R&D Department.



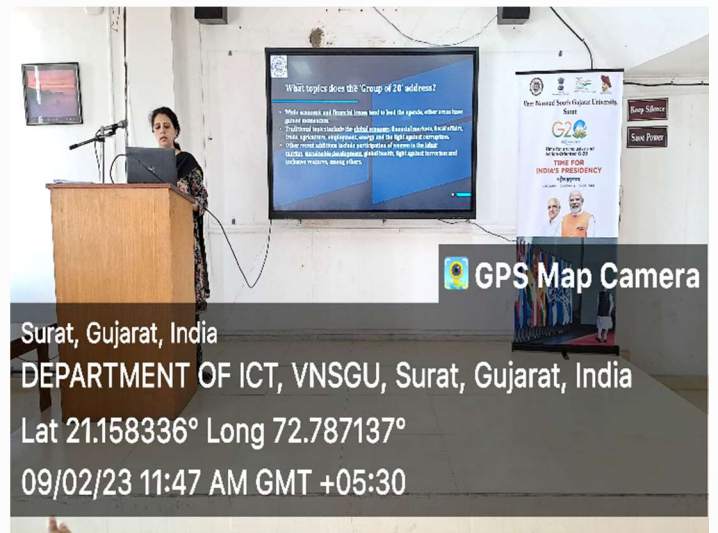
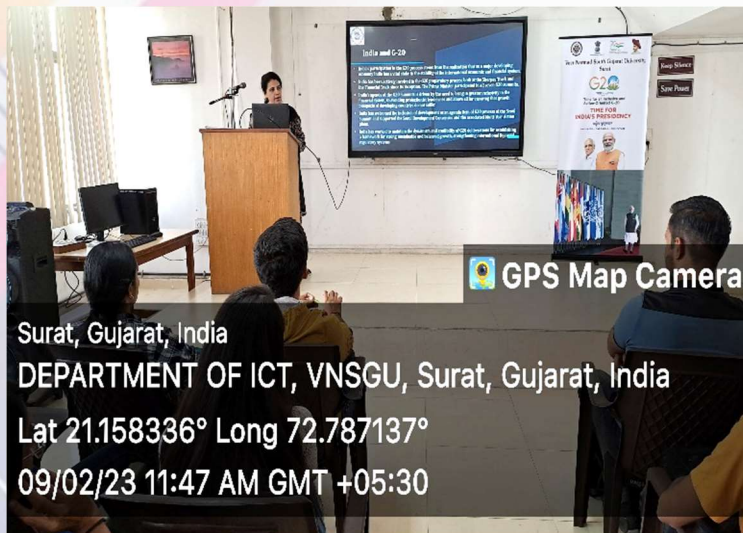
MIT World Peace University, Pune Visit

Students and Faculty of Department of ICT was participated in e-Yatra Regional Conference 2023 on 10-11th March 2023, at MIT-World Peace University, Pune.



G-20 Awareness Programme “Creating Understanding About Various G-20 Initiations”

Department of ICT, VNSGU has organized G20 Awareness Programme on 9th February, 2023. B.Sc. (I.T.) 2nd, 4th and 6th Semester Students has attended the Programme.



Expert Talk by Mr. Bhavesh Modi & Ms. Sweety Gandhi, WebOsmotic Private Limited

Department of ICT, VNSGU has organized Career Counselling and Expert Talk on React JS on 15th December, 2022. Students of ICT has attended the expert talk.



Motivational Program and an Expert Talk on “Building Next Generation Workforce”

Department of ICT, VNSGU has organized Motivational Programme by Mr. Upendra Giri (CEO & Founder at Uplyft Global) on 23 January, 2023. M.Sc. (I.T.) 8th semester and M.Sc. (I.C.T.) 2nd semester students has attended the programme.



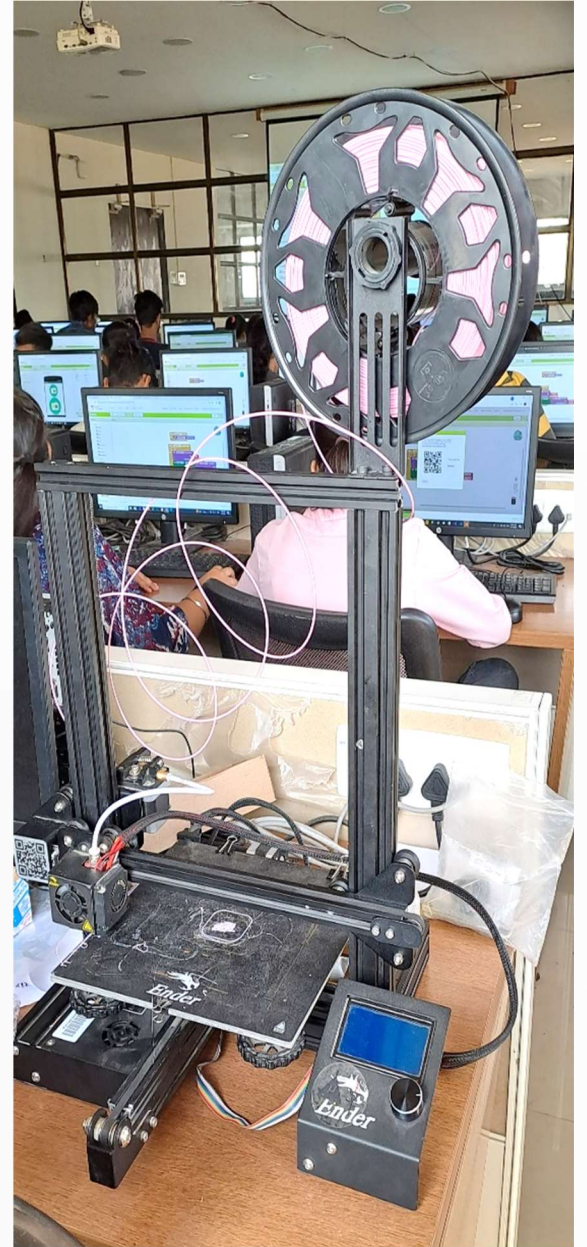
Expert Lecture “Key to a Happy Life” by Dr. Nimesh Matliwala

Department of ICT, VNSGU has organized Expert Lecture by Mr. Nimesh Matliwala on Key to a Happy Life on 30th January, 2023. Students of B.Sc. (I.T.) 4th and B.Sc. (I.T.) 2nd semester has attended the expert lecture.



KCG, Education Department, Govt. Of Gujarat Sponsored Robotics Masters Training and Certificate Program

Knowledge Consortium of Gujarat, Education Department, Government of Gujarat and Department of ICT in collaboration with Veer Narmad South Gujarat University has organize Robotics Masters Training and Certification Program on 27th February, 2023 to 10th March, 2023. Students of B.Sc. (I.T.) 2nd, 4th and 6th Semester has attended the programme.



Expert Lecture by Dr. Milind Ghael “Recoding The Algorithm Of Mind Power”

Department of ICT, VNSGU has organized Expert Lecture by Dr. Milind Ghael on “Recoding The Algorithm Of Mind Power” on 9th March, 2023. Students of B.Sc. (I.T.) 2nd semester has attended the lecture.



Expert Lecture by Dr. Arvind Singh Panwar on “Life Style Modification for Well Being in Current Context”

Department of ICT, Veer Narmad South Gujarat University, Organizes Expert Lecture by Dr. Arvind Singh Panwar (Professor, SMIMER Hospital) on Life Style Modification for Well Being in Current Context on 16th March, 2023. Students of B.Sc. (I.T.) 2nd semester has attended the expert lecture.



Expert Session by Mr. Vatsal Desai “Artificial Intelligence and Machine Learning”

Department of ICT, VNSGU has organized Expert Session by Mr. Vatsal Desai on Artificial Intelligence and Machine Learning on 25th March, 2023. Students of M.Sc. (I.T.) 8th and M.Sc. (I.C.T.) 2nd semester has attended the lecture.

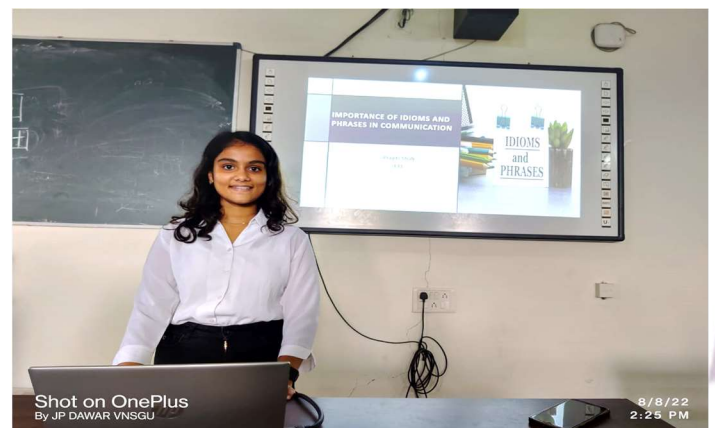


Thalassemia Awareness & Check Up Camp By Indian Red Cross Society

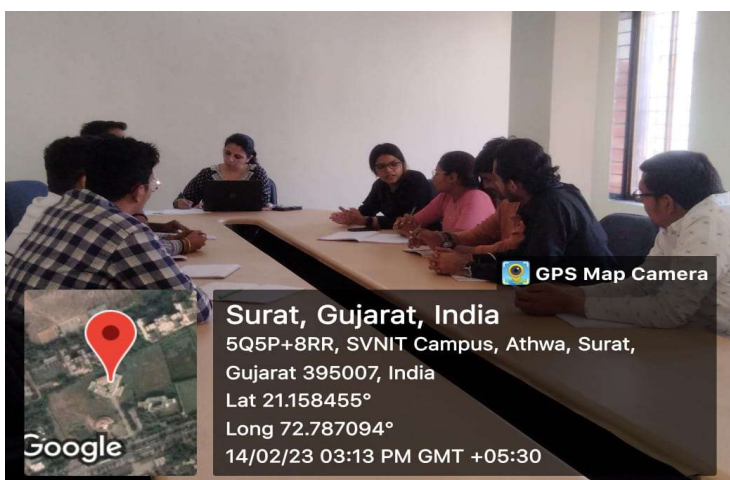
Department of ICT, VNSGU has organized Thalassemia Awareness & Check Up Camp by Indian Red Cross Society on 16th March, 2023. M.Sc. (I.T.) 2nd semester students has attended the check up camp.



Soft Skill Enhancement Events “Self Introduction Competition”



Making Industry Ready Professionals with Mock Interview and Group Discussion



Spoken Tutorial “Bright Institute Award” by IIT Bombay

❖ Award received on 27-8-2022



Students Achievements: Winner of State-Level Azadi Ka Amrit Mahotsav Hackathon 2022

Team of Department of ICT, VNSGU has secured the 1st Rank in the Grand Finale of State-level Azadi Ka Amrit Mahotsav Hackathon 2022, Organized by Education Department (Higher & Technical) Government of Gujarat.



भारत 2023 INDIA



सरकार ગુજરાત
Education Department
Government of Gujarat



आज़ादी का
अमृत महोत्सव



वीर नर्मद દક્ષિણ ગુજરાત યુનિવર્સિટી
Veer Narmad South Gujarat University
સત્યમ્ જ્ઞાનમ્ અનન્તમ્

Congratulations to the Team of Department of ICT, VNSGU, Surat

For securing the 1st Rank in the Grand Finale of State-level Azadi Ka Amrit Mahotsav Hackathon 2022

Organized by
Education Department (Higher & Technical)
Government of Gujarat

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Prize Amount: Rs. 50,000/-



Alvish Arvindbhai Ramani
(Team Leader,
M.Sc. (IT) - Sem 8th)



Anjali Jayeshbhai Patel
(M.Sc (IT) – Sem 8th)



Ritesh Ghanashyambhai Sutariya
(M.Sc. (IT) – Sem 8th)



Raj Rajnikant Patel
(M.Sc. (IT) – Sem 8th)



Pritkumar Mohanbhai Chakalasiya
(PGDCA)



**Mentor,
Dr. Payal Joshi**
(Assistant Professor,
Department of ICT)



Students Achievements: Best Technical Presentation Award at IIT Bombay

Department of ICT Students Rushil Mehta, Maitrey Patel, Tamanna Bhagat, Siddhi Naik and Mentor Dr. Hitesh lad was honored with "**Best Technical Presentation Award**" in the "e-Yatra Innovation Challenge (eYIC) 2022-23". eYIC National Final 2023 held on 5th and 6th April 2023 for project "Hydrotech" at IIT, Bombay.



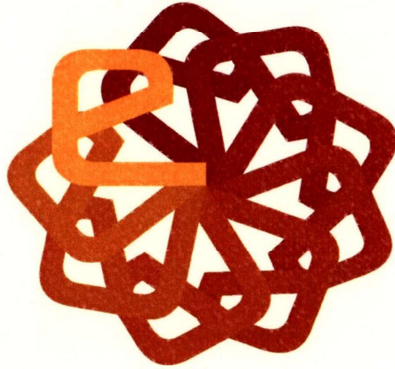
Certificate of Merit for the Best Technical Presentation by e-Yantra Innovation Challenge (eYIC), IIT Bombay



eYantra

Engineering a better tomorrow

ERTS Lab
Department of Computer Science and Engineering
Indian Institute of Technology Bombay,
Powai, Mumbai-400 076.



Certificate of Merit (Best Technical Presentation awardee)

This is to certify that *Prof. Hitesh Lad* of *Veer Narmad South Gujarat University* has mentored the project titled "*Hydrotech*" in the e-Yantra Innovation Challenge (eYIC) 2022-23.

He/She is a mentor of the team having the following team members,

1. *Rushil Mehta*
2. *Maitrey Patel*
3. *Tamanna Bhagat*
4. *Siddhi Naik*

The team has been selected as one of the 10 finalist teams out of 490 teams. This team demonstrated their project at the eYIC National Finals 2022-23 held on 5th - 6th April, 2023, and was honored with *Best Technical Presentation* award.

Prof. Kavi Arya
Principal Investigator, e-Yantra
Professor
Department of Computer Science and Engineering
Indian Institute of Technology Bombay



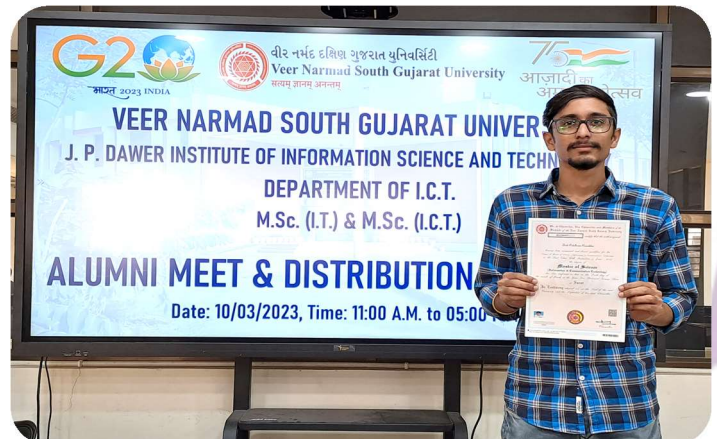
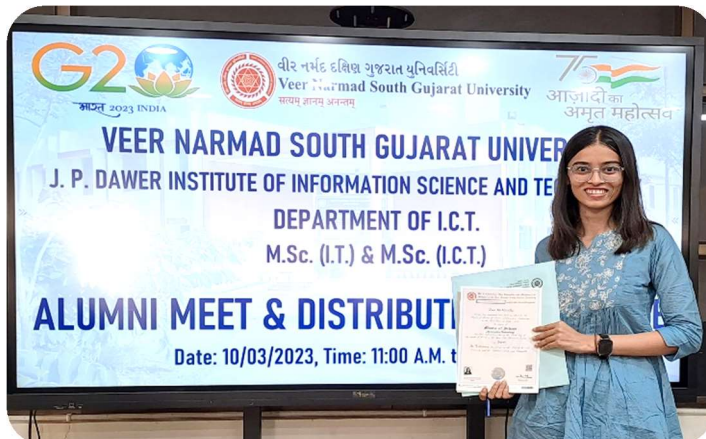
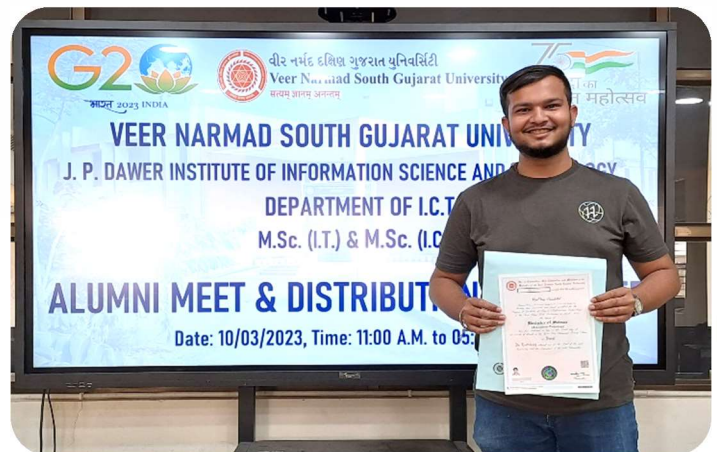
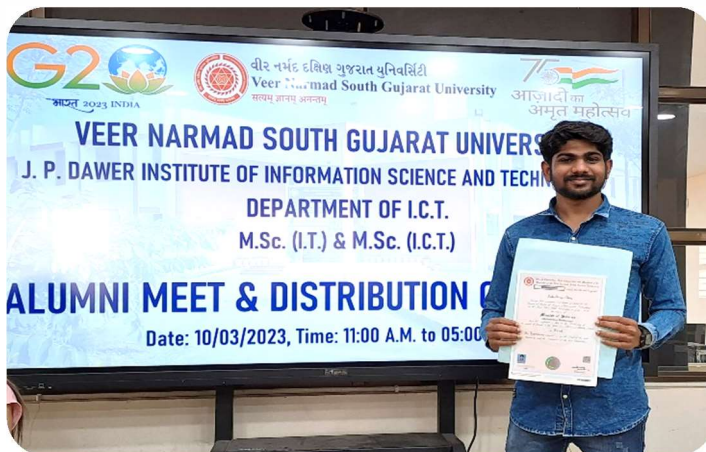
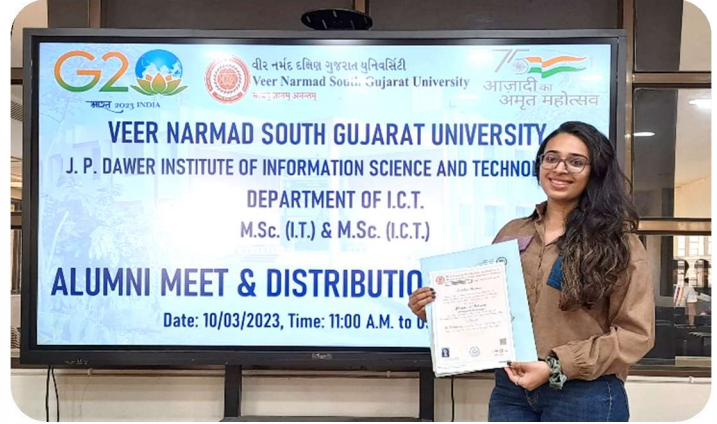
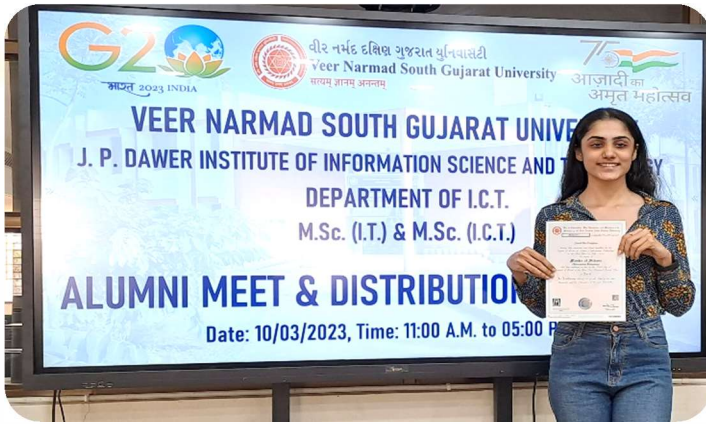
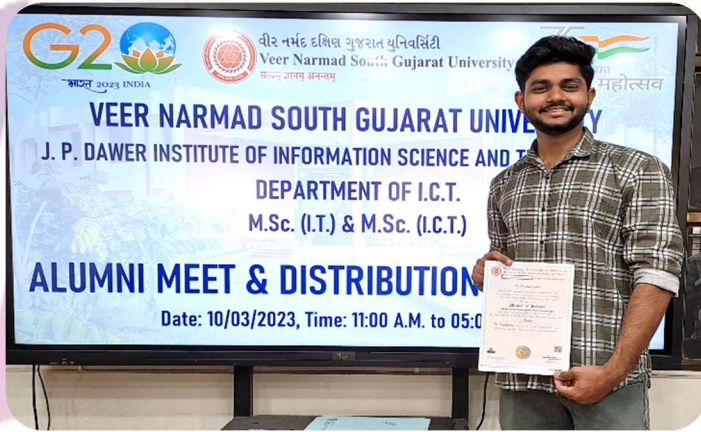
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e-Yantra is a project sponsored by MOE, Government of India, under the National Mission on Education through ICT (NMEICT).

Glimpses of Annual Function 2023



Glimpses of Alumni Meet 2023



Department of ICT, Alumni Meet 2022-2023

Alumni Meet 2022-23 (11th January, 2023)
Department of ICT (VNSGU)



Presidential address of Honorable Vice Chancellor Dr. K. N. Chavda

Alumni Meet 2022-23 (11th January, 2023)
Department of ICT (VNSGU)



Addressing the Alumni Meet 2023 Registrar Dr. Rameshdan Gadhvi

Alumni Meet 2022-23 (11th January, 2023)
Department of ICT (VNSGU)



Alumni Speaker : Mr. Amit Gandhi - Technical Program Manager, Meta (Facebook)
Expert Lecture Topic : Use of AI in Meta

Alumni Meet 2022-23 (11th January, 2023)
Department of ICT (VNSGU)



Alumni Speaker : Mr. Dhaval Nagar – Founder of APPGAMBIT
Expert Lecture Topic : Cloud Computing Is The New Normal

Alumni Meet 2022-23 (11th January, 2023)
Department of ICT (VNSGU)



Alumni Speaker : Mr. Nachiket Patel– Founder of LOGICWIND
Expert Lecture Topic : The Future of IT – A Roadmap for students & new grads

Alumni Meet 2022-23 (11th January, 2023)
Department of ICT (VNSGU)



❑ One to one Student-Alumni interaction at the Alma Mater



Alumni Entrepreneurs Wall, Department of ICT

Alumni Entrepreneurs Wall

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|---|---|---|---|---|--|--|--|---|---|---|---|--|
| <p>ASHVI Company: Ashvi Consultancy Service Ganpat Dhameliya M.Sc. IT, Batch 2005</p> | <p>INKEY Company: Inkey IT Solutions Pvt.Ltd. Ankit Shah, Vinay Pughla B.Sc. IT, M.Sc. IT, Batch 2009 & 2005</p> | <p>Lincowind Company: Lincowind Nehal Patel M.Sc. IT, Batch 2007</p> | <p>ACCRETE Company: Accrete Infotech Roshan Desai M.Sc. IT, Batch 2004</p> | <p>Innovative Iteration Company: Innovative Iteration Software Solution Pratik Gujarati M.Sc. IT, Batch 2004</p> | <p>CoreScripts Company: CoreScripts Technologies LLP Jatin Prajapati M.Sc. IT, Batch 2008</p> | <p>QUADROTECH Company: Quadro Softtech Milap Kankotiya, Keshav Patel M.Sc. IT, Batch 2008</p> | <p>HEY CONCEPTS Company: Hey Concepts Punit Gajera, Rahul Prajapati M.Sc. IT, Batch 2008</p> | <p>Dataio Company: Dataio Samarth Mehta M.Sc. IT, Batch 2007</p> | <p>IFUTURZ Company: IT FUTURZ Arpit Shah B.Sc. IT, Batch 2007</p> | <p>LINTEL Company: LinTel Technologies Pvt. Ltd. Hinal Prajapati B.Sc. IT, Batch 2007</p> | <p>iQinik Company: IQINIK SOFTWARE PVT. LTD. Hitesh Thakkar M.Sc. IT, Batch 2008</p> | <p>ZIPGRID Company: Zipgrid Jaydip Popat B.Sc. IT, Batch 2004</p> |
| <p>Vokontech Company: Vokontech IT Solutions Jeevish Gopani, Sagar Mandapara M.Sc. ICT, Batch 2013</p> | <p>ICED Company: ICED INFOTECH Niral Shah M.Sc. IT, Batch 2009</p> | <p>Web Ashlar Company: Web Ashlar Anand Agrawal M.Sc. IT, Batch 2008</p> | <p>XTREME THOUGHTS Company: Xtreme Thoughts SoftTech Anshul Maradia M.Sc. IT, Batch 2005</p> | <p>GVM Company: GVM Technologies LLP Anshul Prajapati M.Sc. IT, Batch 2007</p> | <p>GENERATION NEXT Company: Generation Next Arjun Bhatt M.Sc. IT, Batch 2008</p> | <p>SOFTNOESIS Company: Softnoesis Private Limited Chirag Lakhi M.Sc. IT, Batch 2010</p> | <p>Engross infotech Company: ENGRESS INFOTECH Keyur Linabachya, Bipin Jain M.Sc. IT, Batch 2010</p> | <p>PURE ITES Company: Pure ITES Limited Nilesh Pargal M.Sc. IT, Batch 2009</p> | <p>PSK SOLUTIONS Company: PSK Technology Kirtikumar Anvaya M.Sc. ICT, Batch 2012</p> | <p>SAHAJANAND INFOTECH Company: SAHAJANAND INFOTECH Hardik Kevadiya M.Sc. IT, Batch 2005</p> | <p>NirmanLab Company: NirmanLab Milan Savaliya M.Sc. IT, Batch 2009</p> | |

Alumni Entrepreneurs Wall

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|---|--|---|--|---|--|--|---|---|---|--|--|--|
| <p>Softpulse Company: Softpulse Infotech Rahul Bhisva, Sandip Hakhani M.Sc. IT, Batch 2010</p> | <p>DAVS Company: DAVS Rohank Solanki M.Sc. IT, Batch 2010</p> | <p>FM Company: Forum Marfatia Digital Marketing Training Forum Marfatia M.Sc. IT, Batch 2008</p> | <p>WINTER Company: Winter Infotech Romi Gabani M.Sc. ICT, Batch 2011</p> | <p>Inventam Company: Inventam Harin Desai, Ishani Desai M.Sc. IT, Batch 2015</p> | <p>WebOsmotic Company: Webosmotic Vipul Jain M.Sc. IT, Batch 2008</p> | <p>OMTECWEB Company: Omtec Web Tarang Patel M.Sc. ICT, Batch 2007</p> | <p>Jaimini Software Company: Jaimini Software Patal Nitam M.Sc. IT, Batch 2008</p> | <p>Metanoia Infotech Company: Metanoia Infotech Nehal Patel M.Sc. IT, Batch 2018</p> | <p>StackApp Infotech Company: Stackapp Infotech Dodiya Nihar M.Sc. IT, Batch 2017</p> | <p>InfoWeb Solution Company: InfoWeb Solution Sunny Chevli M.Sc. IT, Batch 2008</p> | <p>HANDS TOGETHER TECH Company: Hands Together Tech Sagar Bhatt M.Sc. ICT, Batch 2011</p> | <p>PAR EXCELLENCE SOLUTIONS Company: Par Excellence IT Solutions Jitesh Prajapati M.Sc. ICT, Batch 2007</p> |
| <p>i-Pangram Company: i-Pangram Digital Services LLP Jaykishan Vansandawa M.Sc. IT, Batch 2006</p> | <p>Design The Data Company: Design The Data Zubin Raja M.Sc. IT, Batch 2010</p> | <p>GOUP TECHNOLOGIES Company: GOUP Technologies Sandip Shirawala, Pune Topiwala M.Sc. IT, Batch 2007</p> | <p>SOLWIN Company: Solwin Infotech LLP Sanjay Dabhoya M.Sc. ICT, Batch 2007</p> | <p>V2 WEB SOLUTIONS Company: V2 Web Solutions Hastimal Shah M.Sc. IT, Batch 2008</p> | <p>GENISYS Company: Genisys Siddharth Sarfale, Ashish Rana, Jignesh Pandav M.Sc. IT, Batch 2014</p> | <p>BARRAI TECH LABS Company: Barrai Tech Labs Moiz Paltanawala B.Sc. IT, Batch 2014</p> | <p>Webby Infotech Company: Webby Infotech Kuldeep Shah M.Sc. IT, Batch 2010</p> | <p>LOGOTECH BARCODE Company: LOGOTECH BARCODE Rajiv Barua M.Sc. ICT, Batch 2007</p> | <p>Beyond Byte Solution Company: Beyond Byte Solution Piyyush Saraf M.Sc. IT, Batch 2008</p> | <p>DigiEn Infotech LLP Company: DigiEn Infotech LLP Urvi Adharyu M.Sc. IT, Batch 2010</p> | <p>APPGAMBIT Company: AppGambit Dhaval Nagar M.Sc. IT, Batch 2006</p> | |

Pedagogies :

- Regular Classroom Lectures
- Laboratory Work
- Projects work
- Interactive Group Discussions
- Case Studies
- Seminars
- Audio Visual Sessions



The Professional Edge through Project Training :

In the course, more emphasis is given to the project work is prime importance in this course. The details of it are given below:

In addition to classroom studies, students are required to work on real world projects preferably in industries during semester 6, 7, 8, 9 & 10. Also in the last semester, it is requires that students undergo full time training in the business organization for 6 months. A presentation of the experience related to the training received is to be given by the student along with submission of report on completion of the training.



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