SVKM's NMIMS

MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING

(SHIRPUR CAMPUS)

Newsletter Department of Computer Science

JAN - JUNE 2021

SVKM'S NMIMS Deemed to be UNIVERSITY

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MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING
(SHIRPUR CAMPUS)

From the Desk of Associate Dean-MPSTME
Dr. Kamal Mehta

It is a matter of great pride and satisfaction for MPSTME, Shirpur to bring out the Jan-June 2021 issue of the Newsletter of the Department of Computer Science. The MPSTME, Shirpur has made tremendous progress in all areas of academic, non-academic, and capacity building relevant to staff and students. I am confident that this issue of the department newsletter will send a positive signal to the staff, students, and persons who are interested in technical education and technology-based activities. A Newsletter is like a mirror that reflects a clear picture of all sorts of activities undertaken by the Department. I congratulate the editorial board of this Newsletter who have played a wonderful role in accomplishing the task in record time. Also, my heartfelt congratulations to staff members and students for their fruitful effort. With Best Wishes.

From the Desk of HOD, Department of Computer Science,
Dr. Nitin Choubey

It is with immense pleasure and pride that I introduce the Jan- June 2021 edition of the newsletter. This newsletter showcases a comprehensive record of the diverse co-curricular and extra-curricular activities organized by the Department of Computer Science. We also take special pride in acknowledging the remarkable achievements of our faculty members and students. I hope that this newsletter serves as a catalyst, inspiring all of us to strive for personal and institutional glory. I extend my heartfelt congratulations to the dedicated editorial team for their tireless efforts in bringing this edition to fruition.

From the Desk of Editors

Dear Readers,

It is with great pleasure that we bring you the Jan-June 2021 edition of the Newsletter from the Department of Computer Science. As editors, we are honored to present a diverse and informative compilation of co-curricular and extra-curricular activities that showcase the vibrant life at our institution. This edition also highlights the exceptional achievements of our esteemed faculty members and talented students. Our aim is not only to inform but to inspire. We hope this newsletter kindles a passion for reading and encourages personal and institutional excellence

Team Newsletter – Department of Computer Science

- Advisors :
    1. Director, MPTP, NMIMS, Shirpur Campus
    2. Associate Dean, MPSTME, Shirpur
- Editors from the CS Dept
    1. Prof. Bhushan Inje
    2. Prof. Sachin Chavan
- Department Faculty Coordinator
  Prof.Dhananjay Joshi
- Department Student Coordinator
  Roshan Somayajula

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About the Department

Department of Computer Science at Mukesh Patel School of Technology Management and Engineering started in the year 2007. The B.Tech in Computer Science programme at SVKM's NMIMS, MPSTME focuses on teaching the fundamentals of hardware and software, algorithm analysis, and mathematics and science knowledge. The programme provides students with solid programming and engineering fundamentals as well as research and innovation skills in Computer Science. Artificial Intelligence, Machine Learning, Data Analytics, Cloud Computing, High-Performance Computing, Internet of Things, Network and Cyber Security, are among the cutting-edge technologies taught by experienced and eminent faculty.

Vision of the Department

To excel in computer science education and research, by preparing the students with practical knowledge and ethical values. We strive to empower students, enabling them to innovate using cutting-edge computing technologies to address societal challenges.

Mission of the Department

- Empower students with a strong foundation in computer science fundamentals and technical skills through innovative teaching pedagogies, fostering practical knowledge.
- Cultivate ethical values, creativity, and an entrepreneurial mind-set among students to inspire innovation.
- Encourage students to prioritize sustainable solutions that enhance societal well-being.
- Foster a culture of research excellence in computer science by fostering collaborative partnerships between academia and industry.

Program Outcomes (POs)

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

P:O 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

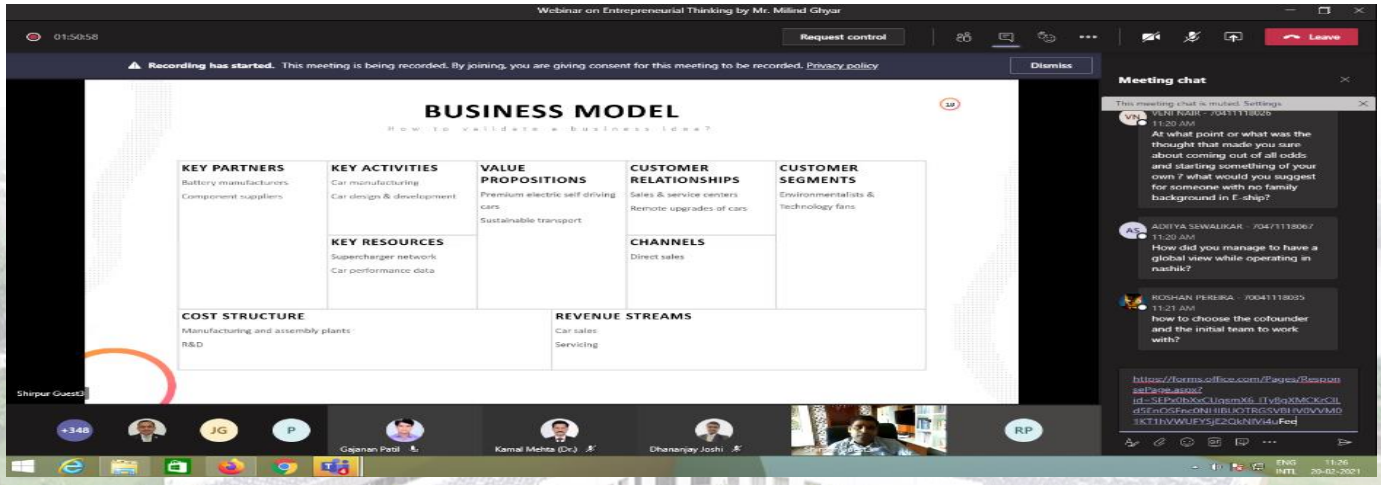
PSO1: Demonstrate the knowledge of computer science to implement programming concepts and deliver efficient solutions for emerging challenges in the computational domain

PSO2: Inculcate professional, social, ethical, and entrepreneurial practices to solve real-world problems in various domains.

WEBINAR/ WORKSHOP/FDP ORGANIZED

Webinar on 'Entrepreneurial Thinking'

The webinar targeted the individuals to educate them and to prepare them for Entrepreneurial Thinking and it was conducted on February 20, 2021. The session started with an introduction of session expert Mr. Milind Ghyar, Co-founder & Managing Director, TRIARQ Health. Mr. Ghyar shared his experiences, views on the topic and thoroughly guided the audience about entrepreneurship. It was a wonderful experience for all the attendees including students, faculty & staff. More than 350 participants attended the session.



Mr. Ghyar enthusiastically answered numerous queries and doubts as raised by the students on the topic during the Q &A session. Prof Dhananjay Joshi, and Mr. Rupesh Patil from the Department of Computer Science coordinated the activity. The wholehearted support from Shri Rajgopal Bhandari, Mentor MPTP Shirpur Campus boosted the morale of the organizing team and the participants. The event received guidance from Dr. Akshay Malhotra, Director, MPTP Shirpur Campus, and Dr. Kamal Mehta, Associate Dean, MPSTME Shirpur. Mr. Rahul Dande, Chief Accountant & Administrator, Shirpur Campus, extended all administrative support.

Webinar on "AIML: Accelerate Your Career & Thrive in The New Normal"

Department of Computer Science and Information Technology organized a webinar on "AIML: Accelerate Your Career & Thrive in The New Normal" for 12th students on 13th June 2021. The event was conducted Online through Zoom. The resource persons for the event were Mr. Anil Omanwar and Mr. Drew Johnson. The event was moderated by Dr. Sanjay Shrivatava.

Mr. Anil Omanwar is Watson Lead at IBM Australia (he is also an AI Expert, Inventor, and Data Scientist) and Mr. Drew Johnson is AI Business Architect at IBM Australia.The concepts of artificial intelligence and machine learning and their importance were explained by the speakers. They also shared knowledge about the current trends and applications of AIML in the industry. Various career opportunities in the field of AIML were discussed. Presentation from the speakers was followed by a question-answer session where the speakers, Dr. Kamal Mehta (Associate Dean, MPSTME) and Dr. N. S. Choubey (Head, CS Department) had addressed the queries of the students.

Webinar on "Data Science: Careers and Opportunities"

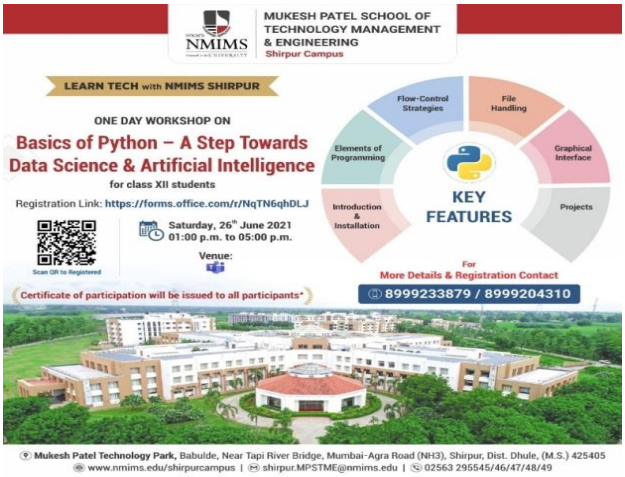
Department of Computer Science and Information Technology organized a webinar on "Data Science: Careers and Opportunities" for 12th students on 5th June 2021. The event was conducted Online through Zoom. The resource person for the event was Mr. Deepak Sekar and the event was moderated by Dr. Sanjay Shrivatava. Mr. Deepak Sekar is a Solution Architect Pre-Sales at Databricks Brisbane, Australia. He has over 10 years of experience working with big tech companies like IBM and Oracle in multiple consulting and architect roles. He is a prolific inventor and has about 5 patents to his name and 3 IPs. The concept of data science and its importance were explained by the speaker.He also informed about current trends and tools in the data science industry. Various career opportunities in the field of data science were discussed. Presentation from the speaker was followed by a question-answer session where the speaker, Dr. Kamal Mehta, Associate Dean, MPSTME, and Dr. N. S. Choubey, Head, CS Department addressed the queries of the students. The event was concluded with a presentation about various courses available at MPSTME, Shirpur by Dr. Kamal Mehta.

IEDC Shirpur Organized Webinar on Innovation and Entrepreneurship

IEDC Shirpur Organized webinars on Innovation and Entrepreneurship from 31st Jan and 1st Feb 2021. Entrepreneurship in India has spread its wings and has received tremendous support from various ecosystem players such as Government, Academic Institutions, Corporates, and Angel Investors. Taking cognizance of the same and with the vision of "Promoting innovative products and services by leveraging technology, human ingenuity and diligence". IEDC Shirpur organized webinars to bring the Startups closer to Industry, Academia/Research, Government, and Investors in Collaboration with Aspirelabs, New Delhi. Aspirelabs started as a stage and sector agnostic accelerator in 2017. It has been supporting startups in their entrepreneurial pursuit and has engaged with more than 200 startups. The end goal was to help budding entrepreneurs at IEDC Shirpur to conduct the accelerator activities in order to help them to become market and investment-ready. The interactive webinar was entrepreneurs centric and discussed the following startup related aspects:

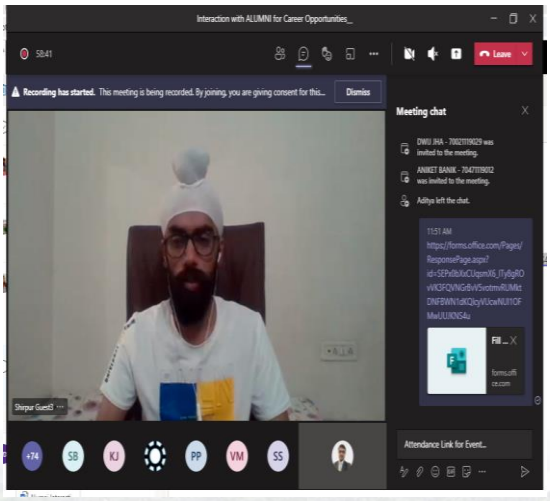
- Journey for ideation to commercialization by Mr. Abhinav Ramaria of Aspire Labs
- Idea Buzz: Influencing series by Tusar Kansal, Kansaltancy Ventures
- Million Pitch: Influencing series by Arjun Sinha Roy Zenith System

One Day Workshop on, "Basics of Python-A Step Towards Data Science and Artificial Intelligence"

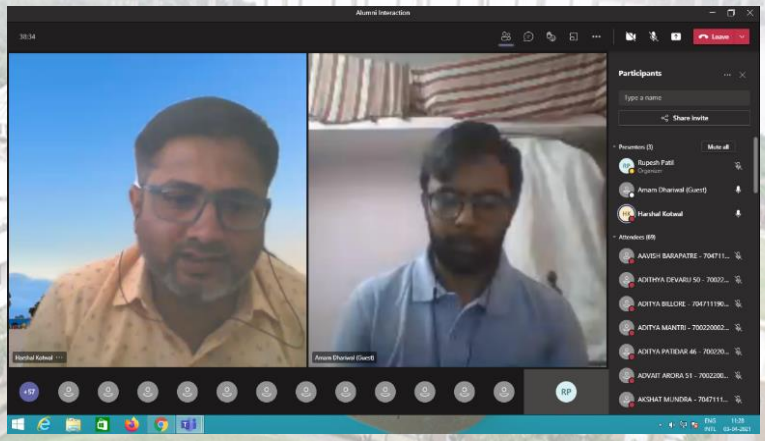


The Department of Computer Science organized a One Day Workshop on "Basics of Python- A Step Towards Data Science and Artificial Intelligence" on 26th June 2021. More than 60 participants, from across India attended the session. Participants included school going children to PhD Scholars. Prof. Dhananjay Joshi and students Shashank Yeri, Samkit Saraf, and Ananya Singh Nirwan conducted this workshop. The event received valuable guidance and support from Dr. Akshay Malhotra, Director, MPTP Shirpur Campus, Dr. Kamal Mehta, Associate Dean, MPSTME Shirpur, and Mr. Rahul Dande, Chief Accountant & Administrator, Shirpur Campus.

CAMPUS ACTIVITIES



Department of Computer Science conducted alumni interaction on 3rd April 2021, at 11:00 AM on MS Teams. The interaction was conducted in three different classes. Amam Dhariwal interacted with B.Tech first year, Ramandeep Singh Sethi interacted with B.Tech second year, Ashish Sharma and Manish Jain Interacted with B.Tech third-year students of the department. All invited alumni shared their experiences and views on career opportunities and enthusiastically answered numerous queries and doubts raised by students. More than 180 participants attended the session. Prof Dhananjay Joshi CS Dept, Prof. Harshal Kotwal CE Dept, and Mr. Rupesh Patil from the Department of Computer Science coordinated the event. The event was guided by Dr. Kamal Mehta, Associate Dean, MPSTME Shirpur.



Computer Science Department

Research Publication in SCOPUS INDEXED JOURNALS

Sr. No.	Name of the author/s	Title of the article/ research paper	Name of the Journal	ISSN No.	Volume / Page no.	Date/ year	Publishing authority	Impact Factor	Citation Index	Scopus Indexed Yes	Any other
1	Prof. Deepti Barhate	Predicting Embryo Viability to Improve the Success Rate	Computational Vision and Bio-Inspired Computing		383-400	15-06-2021	Springer			Yes	

Faculty Development Programme from IIT/NIT/IIM

Sr. No.	Name of the Faculty Member	Name of the FDP	Date	Place	Organising Body / Inst.
1	Prof. Dhananjay Joshi	Data Science	01-02-2021 to 05-02-2021	Online Mode	NIT Agartala

Patent Information

Sr. No.	Name of the Faculty Member	Name of patent	Date	Patent application Number
1	Dr. N. S. Choubey	Method for Developing a Strategic Customer-Value-Driven Plan to Create High Growth Business Opportunities	02/06/2021	2021102344 (Australia)

Coursera Certificates Count (Jan to June 2021)

Sr. No	Name of the Faculty Member	Coursera Certificate Count
1		
2	Prof. Deepti Barhate	15
3	Prof. Dhananjay Joshi	2

PLACEMENT FRONT

Training & Placement Activities at MPSTME

Jan to June Semester was a happening semester for T & P activities, as it had consolidation of Placement activities for B. Tech B.Tech 3rd year CS students. T & P Department concluded the Placement season for the B.Tech program on high node with placement reaching 78.13 %. VM Ware offered this year's highest package of Rs. 11.55 Lakh to Ms. Phalguni Zambare from CS Branch. Department also carried out pre-placement training for B. Tech 3rd year students. In the GAIT (Global Assessment of Information Technology) assessment, conducted by JTP (Japan Third Party) One of our students of B.Tech 3rd year Ms. Vaishnavi Mahske (IT) secured Top position and got Silver Badge, which qualifies for International Internships in Japanese Companies based on availability

Mr. Prasanna Ojha
Placement Executive

On the path of becoming was …

We all know that we are on the way to the future becoming was someday.

Regardless, on our way to becoming past, we have lived, yes.

We have stories about the paths we have forged, followed, the roads taken--and not taken-- and our dreams. In the future, someone will want to know us. Their life might be changed knowing that you existed. They might be empowered by knowing that you and he once had the same dreams. It happens.

So it is very much important for us to leave a story well told, written, and preserved for someone next coming up. That is how we know about our Journey to today from the past.

Stories have the power to travel through generations, times and yet remain relevant ever.

Storytelling is an integral part and also the most effective way to pass wisdom from one generation to another helping the next generation to do new things learned from old ones.

As kids, we are told several stories about our families, society, and political, cultural, and historical milestones, which were achieved or missed. Also about people who made difference to families, society, and humanity as a whole.

When this storytelling approach is applied to current learnings, expressions, and understanding, it has, same lasting influence on memories of the audience, listeners, and even on the presenter.

Let us make storytelling an integral part of our training, learning, and remembering journey, in the end, we all are stories only…

ALUMNI SPEAKS

Ramandeep Singh Sethi
B TECH CS
Batch 2015-2019
Developer at PseudoNerds

Voicing out my experience at the Shirpur campus is a bit difficult as these are feelings hard to pen down. Campus gave me holistic learning because of all the factors from faculties to courses to different experiments. It helped me understand all the paths for me down the lane. This stands true even in the placement procedure as the team at our institute helped me through grabbing the opportunities coming in my way by providing all sorts of support. As I am speaking about the holistic experience at this campus, it brings me to the next most amazing thing, SPORTS! I have been a sportsperson from the beginning and this campus just added to it by providing all facilities for a lot of games. Amidst all these, we also learn tochannele our efforts in giving back to our society through Each One Save One (student social forum). Today, as an alumni of this institute, I say this with pride, I feel this place was a world full of strangers which turned into a giant home filled with family.

Ashish Sharma
B TECH CS
2013-2017
Citi bank Pune

Shirpur campus has an amazing Infrastructure and unmatched ambiance. The faculties are brilliant at academics and in guiding co-curricular activities. To sum up my 4 years at the Shirpur campus, It was filled with new experiences, learnings and overall, helped me grow personally and professionally.

Amam Dhariwal
B TECH CS
2016-2020
Software Engg at Optum

I always follow a simple motto, “Making the right decision at the right time is crucial to success.” It was after my journey at MPSTME that I am capable of starting my own entrepreneurial initiative, Content-Whale. NMIMS’ excellence-driven ambiance and concern for the overall development of each student successfully has transformed me into who I am today. All I feel for the department of B.Tech at NMIMS MPSTME is gratitude and thankfulness. The faculty’s utmost support and encouragement to push boundaries to play a pivotal role. Moreover, the placement activities are also key to learn about deal with corporate interviews confidently.

INTERNATIONAL STUDY OPPORTUNITIES FOR MPSTME STUDENTS

For B. Tech. Students:

- Study for 2 years at MPSTME and rest 2 years at leading universities in Australia:
- University of New South Wales
- University of Canberra
- Western Sydney University

M. Tech Data Science Program in academic collaboration with:

- Virginia Tech, USA

Summer School:

- University of California, Berkeley , USA
- Illinois Institute of Technology, Chicago, USA
- University of British Columbia, Vancouver, Canada
- Institute De Mines, Telecom Business School, Paris
- ESSCA - Paris, Angers, Budapest, Shanghai

Internship in USA:

- CIEE – Council on International Educational Exchange

Global Alliances and Networks:

- College Board, Graduate Management Admission Council, Shastri
- Indo - Canadian Institute.

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Director, SVKM's NMIMS, MPTP, Shirpur Campus
Associate Dean, SVKM's NMIMS, MPSTME, Shirpur Campus

Editors:

Prof.Bhushan Inje
Prof. Sachin Chavan

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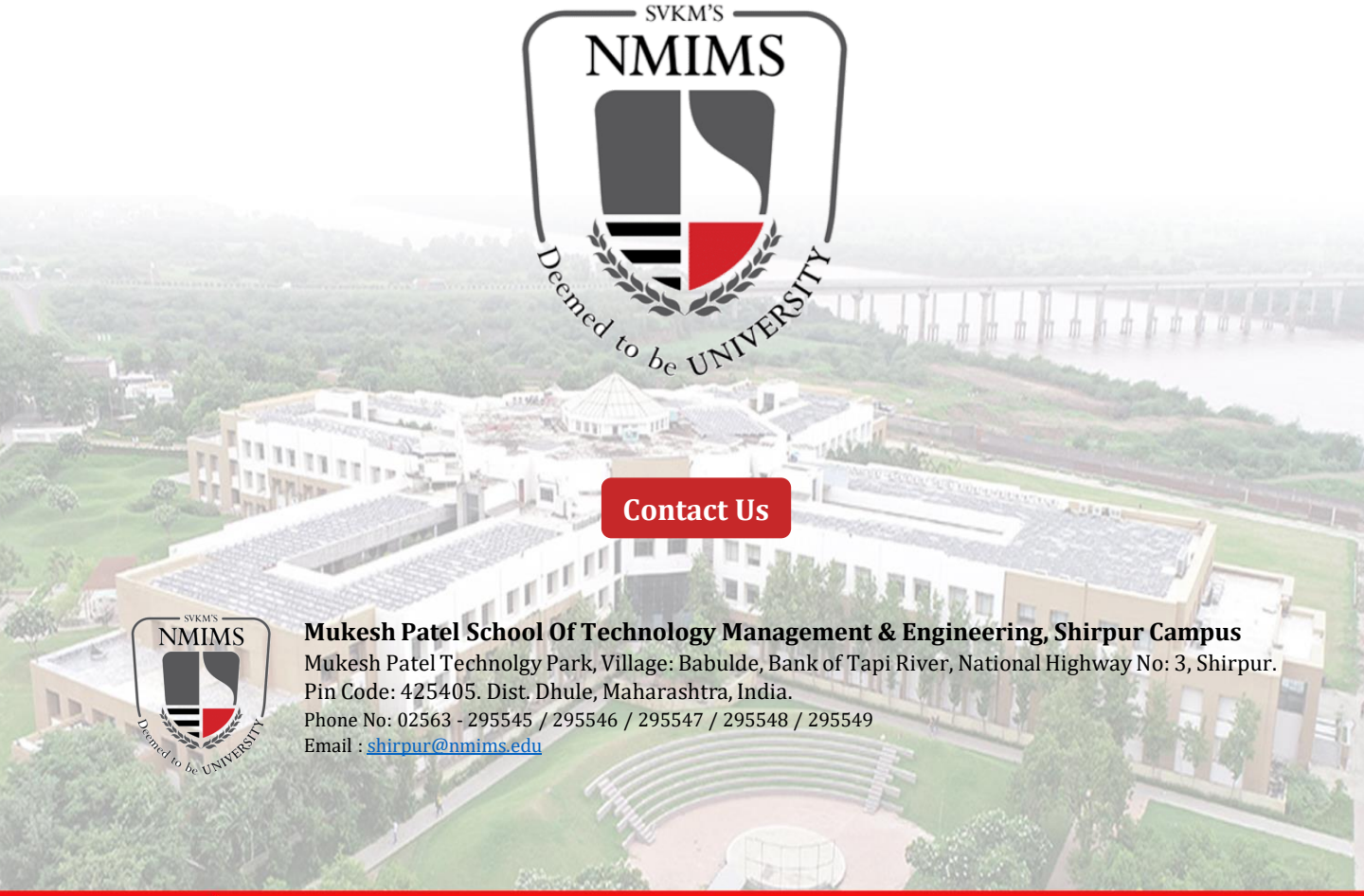

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