SOMAIYA VIDYAVIHAR

K J Somaiya Institute of Technology
Formerly K J Somaiya Institute of Engineering and Information Technology

Somaiya TRUST

- An Autonomous Institute Permanently Affiliated to the University of Mumbai

- Approved by AICTE, New Delhi

- Accredited with 'A' Grade by NAAC (3.21 CGPA)

- Three Programs Accredited by NBA

- Best College Award by University of Mumbai (Urban Region), ISTE (MH), CSI (Mumbai)

- Top Rated Institution's Innovation Council by MoE's Innovation Cell since 2018

- Rank Band 51-100 in NIRF – India Rankings 2022 (Innovation Category)

BROCHURE
Academic Year 2023-24

Department of Information Technology

Program: B.Tech. (Information Technology)

Intake: 120

NBA Accreditation: 3 Years from A.Y. 2022-23

Department of Information Technology

K. J. Somaiya Institute of Technology, Sion, Mumbai

Department of Information Technology

DIFFERENTIATORS – WHY CHOOSE INFORMATION TECHNOLOGY?

- ✓ Variety and Flexibility in Career Paths

- ✓ Opportunities to Work in Diverse Domains

- ✓ Specializations in Artificial Intelligence, Internet of Things, Cyber Security, Data Science, Blockchain, Cloud Computing

- ✓ Practical Applications

- ✓ Continuously Evolving Field

- ✓ More Focus on Software and Systems

- ✓ A Career Always in Demand

- ✓ Jobs is Every Part of World

- ✓ Highly Paid Jobs in MNCs

- ✓ Start-up Avenues in Numerous Interdisciplinary Fields

Core Branch –

Provides Broader Knowledge for Stability Amidst Changing Technological Trends

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Department of Information Technology

VISION

To be recognized as a centre of excellence in the field of Information Technology where inquisitive minds of students are fostered, leading to skilled professionals and contributing citizens.

MISSION

- *To produce industry ready engineers by imparting quality education and enhancing their proficiency with strong engineering foundation and in-depth knowledge of Information Technology.*

- *To encourage curiosity, creativity, innovative thinking, culture of continuous learning and multidisciplinary activities for developing state-of-the-art solutions to real-world problems.*

- *To serve humanity by creating socially responsible citizens with high ethical values who can communicate effectively and work independently or in groups.*

PROGRAM EDUCATIONAL OBJECTIVES

- *Graduates will be able to apply knowledge of engineering fundamentals and cutting edge Information Technology to identify and implement innovative solutions for engineering problems and issues in society.*

- *Graduates will be able to exhibit their employability skills and practice the ethics of their profession with a sense of social responsibility.*

- *Graduates will have strong interpersonal skills and will engage in life-long learning to enhance their career positions, both as team members and leaders.*

PROGRAM SPECIFIC OUTCOMES

- *Graduates will be able to apply standard software engineering practices in real-world project development to deliver efficient, secure and novel solutions.*

- *Graduates will be able to apply the contemporary trends in Information Technology like Internet of Things and Data Science in diverse application areas.*

Department of Information Technology

INFRASTRUCTURE

Inspiring Ambience and State-of-the-Art Laboratories for Studying Cutting-Edge Technologies

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Knowledge Alone Liberates — Somaiya Vidyavihar

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Department of Information Technology

CURRICULUM ALIGNED WITH CURRENT AND FUTURISTIC JOB DEMANDS

Legend:
- ☐ Best Career Opportunities in IT
- ■ Courses in B.Tech. (IT) Curriculum of KJSIT

Center: Information Technology

Career Opportunities (inner ring)

- Database Administrator
- Business Technology Analyst
- Chief Information Officer
- Software Engineer
- IT Manager
- Full-Stack Developer
- Mobile Application Developer
- Game Designer and Developer
- UI/UX Developer
- Web Developer
- Cloud Administrator
- DevOps Engineer
- Cloud Solution Architect
- Data Architect
- Data Scientist
- Research Scientist
- AI / ML Engineer
- Data Engineer / Analyst
- BI Analyst
- NLP (GPT) Engineer
- Computer Vision Expert
- Data Security Officer
- Information Security Analyst
- Cyber Security Engineer
- Digital Forensic Analyst
- IoT Engineer
- IoT Firmware Expert
- Edge Computing Architect
- Robotics Engineer

Courses (outer ring)

- Data Structures
- Advanced Data Structures and Analysis
- Optimization Techniques
- Database Management System (SQL, MongoDB)
- Advanced DBMS and Information Retrieval
- DevOps
- Cloud Computing and Services
- High Performance Computing
- Software Testing & Quality Assurance
- Java Programming
- Go Programming
- Internet Programming
- Python Programming
- Web X.0 (MERN, MEAN)
- UI/UX Design Specialization
- Augmented Reality – Virtual Reality
- Remote Sensing and GIS
- Data Mining & Business Intelligence
- Artificial Intelligence and Data Science – I & II
- Reinforcement Learning
- Big Data Analytics
- Explainable AI & Responsible AI
- Natural Language Processing
- Image Processing
- Multimedia Systems
- Computer Network Design
- Computer Network Security
- Wireless Technology
- Ethical Hacking and Digital Forensics
- Cyber Security and Laws
- Blockchain and DLT
- Internet of Things
- Computer Organization & Architecture
- Microprocessor & Microcontrollers
- IoT Data Analytics
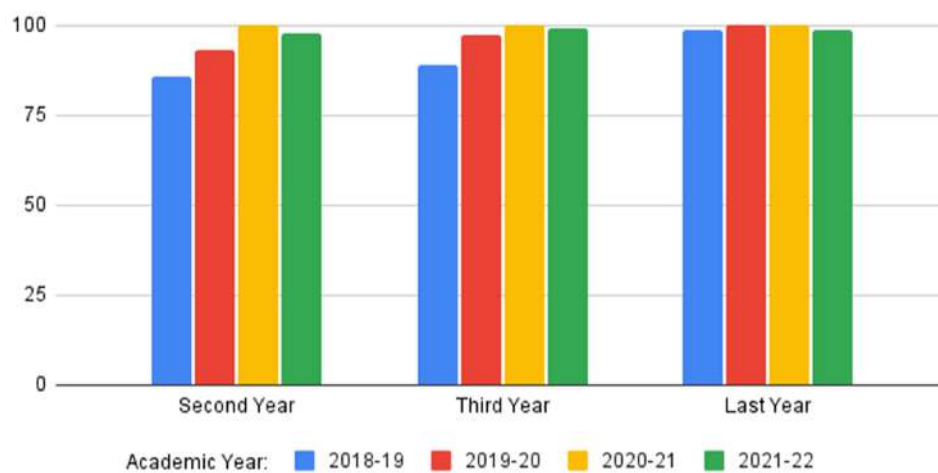- Internet of Everything
- Edge Computing

Additional *Honors Programs*

in Internet of Things, Artificial Intelligence & Machine Learning, Cyber Security, Data Science, and Blockchain for Specialization
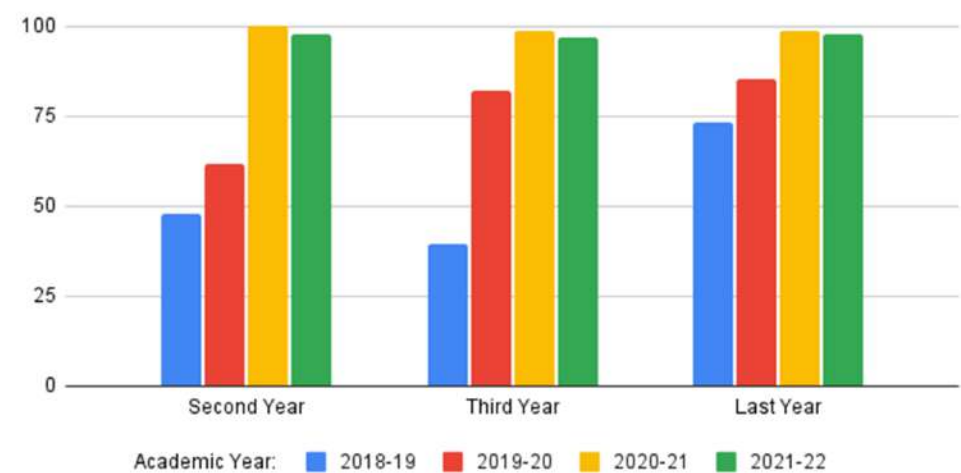
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CURRICULAR: BEST PRACTICES AND OUTCOMES

Passing Percentage of Students

Passing Percentage of Students with Distinction Marks

Academic Year: 2018-19 | 2019-20 | 2020-21 | 2021-22

- ✓ Outcome-based Education
- ✓ Project-based Learning
- ✓ Skill-based Learning
- ✓ Continuous Assessment Approach
- ✓ Innovative Pedagogical Methods
- ✓ Technology-based Learning
- ✓ Activity-based Learning
- ✓ Modern Learner-Centric Assignments

Department of Information Technology

CO-CURRICULAR ACTIVITIES
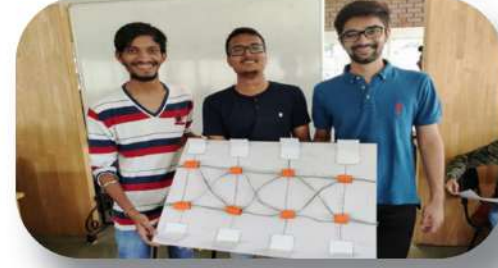
Internships, Workshops, Training Programmes, Certification Courses, Industrial Visits, Technical Activities and Competitions through Computer Society of India, Institution's Innovation Council, etc. for Enhancing Proficiency of Students

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EXTRA-CURRICULAR ACTIVITIES

Elocution, Debates, Motivation Talks, Sports & Cultural Activities
For All-Round Development of Studies

Department of Information Technology

RESEARCH AND DEVELOPMENT

Application Areas:

Healthcare · Agricultural Research · Security & Surveillance · Societal Contribution · Environment & Sanitation · Weather

Technological Focus:

Artificial Intelligence · Machine Learning · Internet of Things · Cloud Computing · Data Science · Blockchain

Research Collaborations:

- India Meteorological Department, Pune
- Myraa Technologies, Bangalore
- Databyte Services and Systems, Mumbai
- Indian Institute of Tropical Meteorology, Pune
- K. J. Somaiya Hospital, Mumbai
- Tata Power, Mumbai

And More

Department of Information Technology

INNOVATION AND AUTOMATION

Technological Focus:

ICT Hybridization with Emerging Areas of Technology
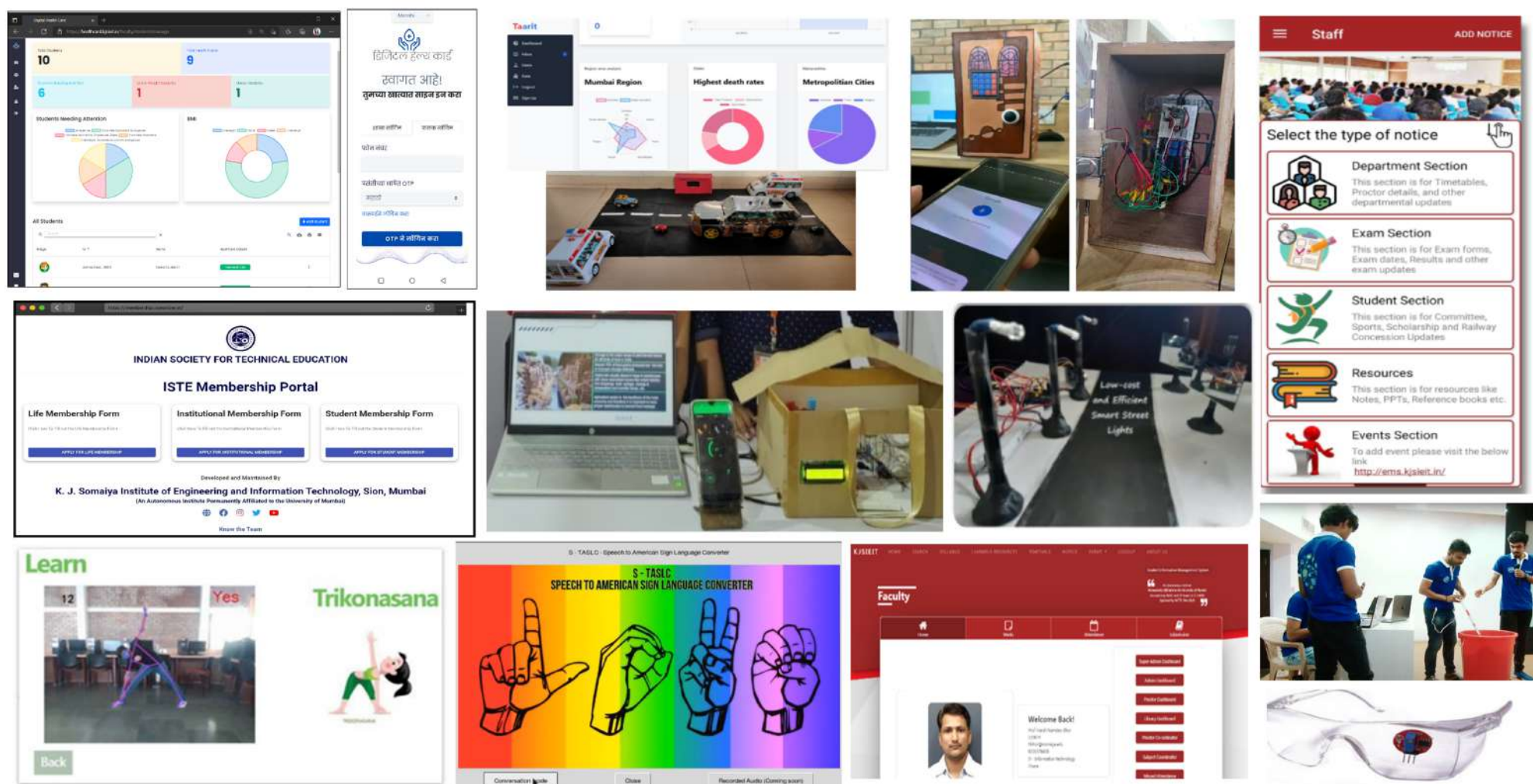
Beneficiaries:

- ✓ Indian Society for Technological Education
- ✓ Institute Faculties and Students
- ✓ Western Railways
- ✓ Schools of Somaiya Trust
- ✓ Maharashtra State Police
- ✓ Health Officers

And Society at Large

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BEST PRACTICES FOR CAMPUS PLACEMENTS

- Finishing School
- Aptitude Practice Test Series
- Competitive Programming Practice Test Series
- Mock Interviews
- Weekly T&P Guidance Lectures
- Learning from Industry Experts
- Alumni Counseling for Placement Preparations
- Internships
- Live Projects to Gain Experience

Academic Year	% Student Placed	Highest Package Offered
2018-19	100	8.3 Lakh
2019-20	100	8.3 Lakh
2020-21	100	11 Lakh
2021-22	100	12 Lakh

MULTIPLE STUDENTS with

MULTIPLE JOB OFFERS

Department of Information Technology

START-UP AND ENTREPRENEURSHIP ECOSYSTEM

Facilities at the Institute

riidl
Research.
Innovation.
Incubation.
Design.
Laboratories

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

National Innovation and Startup Policy
Implemented at the Institute

Start-up Founders from the Department

Moin Masurkar
Founder
Othrys Media
Pvt. Ltd.

Nikhil Pawar
CEO
MindScript

Jay Bhanushali
Founder
Acture Media

Nikhil Srivastava
Founder
ConnectClub Network
Pvt. Ltd.

Yash Adhiya
Founder
Yarsh Hybrid
Technology Solutions

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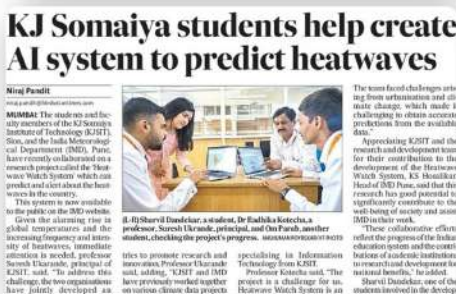### MENTORING FOR HIGHER STUDIES

- ✔ Seminars for Higher Education Awareness and Opportunities
- ✔ Seminars from Foreign University Representatives
- ✔ Guidance for Competitive Exams
- ✔ Mock Tests for GRE, CAT, TOEFL, GATE, etc.
- ✔ Portfolio Building Sessions
- ✔ Seminars on Procedures for Admission to Indian and Foreign Universities

☆ Students Placed in Universities with Acceptance Rate <12%, World Rank in Top 50.

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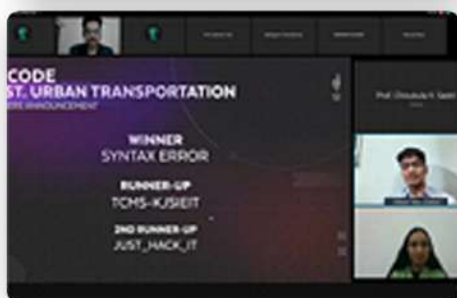# Department of Information Technology

GLIMPSES OF STUDENTS' ACHIEVEMENTS - I

Outcome of Holistic Development Approach

Department of Information Technology

GLIMPSES OF STUDENTS' ACHIEVEMENTS – II

Recognitions from AICTE, Ministry of HRD, ISRO, NASA, Somaiya Trust, University of Mumbai, Indian Society of Technical Education, Computer Society of India, Institution of Engineering and Technology, Academy of Self Defence.

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GLIMPSES OF FACULTY ACHIEVEMENTS

Recognitions at Institute, State, and National Level for Contributions towards Education, Innovation and Student Development. Grants for Research and Development, Consultancy Services, etc

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ALUMNI ACTIVITIES

Distinguished Alumni

Jimish Kadakia
Business Intelligence Developer, 14 West, USA

Sujit Singh
Software Engineer, Wayfair, USA

Vimal Chaubey
Scientist Research & Innovation Life Science, TCS, India

Parag Sawant
Senior Software Engineer, Microsoft, USA

Ronak Shettigar
Application Engineer, Google, USA

Abhishek Mahadik
Sr. Solution specialist, Zensar Tech, India

Rujutha Shetty
Sr. Software Engineer Solveda, India

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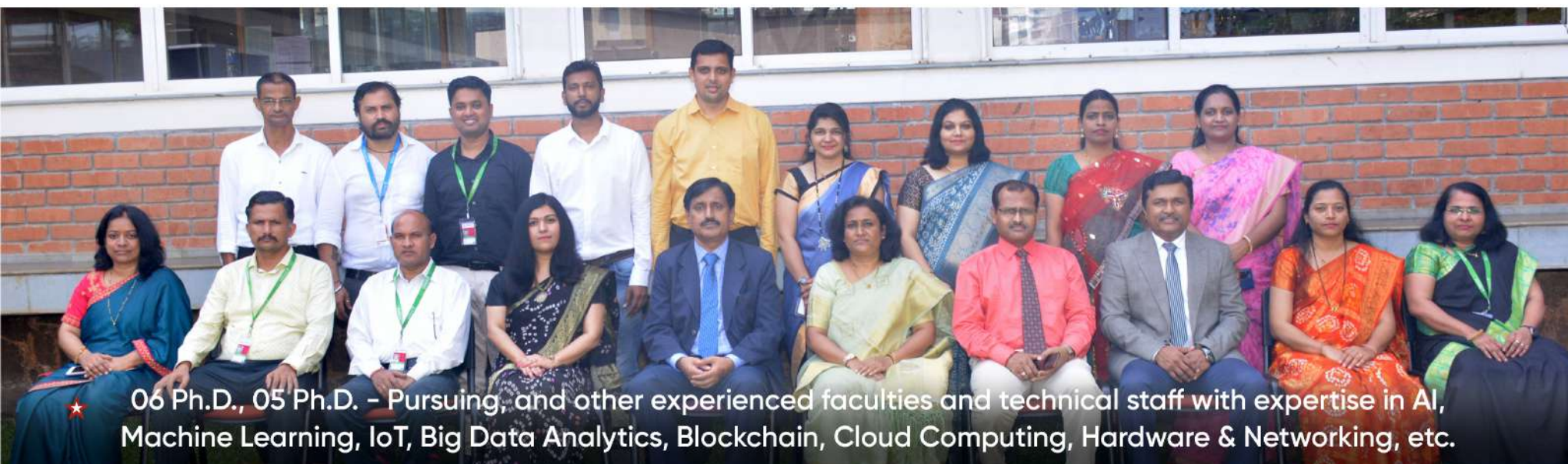
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INDUSTRY INTERACTION

Collaboration for Projects, Internships, Industrial Visits, Mentoring by Industry Experts, etc.

- Microsoft India
- NVIDIA
- Qualcomm
- IBM
- Amazon Alexa Services
- Byju's - Think & Learn
- Tata Consultancy Services
- Zycus
- Xanderine Technologies
- Digel Systems
- Standard Wings
- Nehru Science Center

- Nibban Enterprise
- 3HD Media
- Mindscript Technologies
- AY International Pvt. Ltd.
- CognitoIT Solutions
- EYuva Technologies
- L&D Infotech Pvt. Ltd.
- Tunics Labs
- BNP Paribas
- Fortrack Infotech
- Acture Media
- Cleared Europe Services

- Indoco Remedies Ltd.
- Blueshilt
- GetWings Technologies
- Distributed Ledger Tech
- Oracle
- Myraa Technologies
- Citi
- iHealth Mantra
- Loan Products
- Yarsh Hybrid Solutions
- Accenture
- UT Dallas

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DEPARTMENT FACULTIES AND STAFF

06 Ph.D., 05 Ph.D. – Pursuing, and other experienced faculties and technical staff with expertise in AI, Machine Learning, IoT, Big Data Analytics, Blockchain, Cloud Computing, Hardware & Networking, etc.

Visit Us:

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Head of Department:

Dr. Radhika Kotecha
Email: radhika.kotecha@somaiya.edu
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