



## In Association with



INTERNATIONAL CONFERENCE ON ADVANCES IN INFORMATION TECHNOLOGY AND MANAGEMENT

# Leveraging Information Technology for Sustainability in Agriculture and Healthcare – Women Empowerment

## February 10 - 11, 2024



*Thakur Educational Trust's (Regd.)*

# Thakur Institute of Management Studies, Career Development & Research

Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai

ISO 21001 : 2018 Certified • MCA Program Accredited by National Board of Accreditation (NBA) Institute Accredited with A+ Grade by National Assessment and Accreditation Council (NAAC)

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# Our PEOs and POs

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. To enable students to gain knowledge across all domains of Information Technology with in-depth understanding of their applications.
2. To enable students to analyze problems and to design and develop software solutions using emerging tools and technologies.
3. To enable students to continue Life-long learning, Research and Entrepreneurial pursuit in their chosen fields.
4. To develop communication, teamwork, and leadership skills necessary to manage multidisciplinary projects and serve the society as responsible and ethical software professionals.

## PROGRAM OUTCOMES (POs)

**PO-1: Computational Knowledge** – Apply domain specific knowledge of computing and mathematics for designing of software solutions for defined problems and requirements.

**PO-2: Problem Analysis** – Understand and analyze a problem and suggest feasible solutions.

**PO-3: Design/ Development of Solution** – Design, evaluate, and develop effective solutions for complex computing problems to meet desired needs.

**PO-4: Conduct investigation of complex computing problems** – Design and conduct experiments and use research-based methods to investigate complex computing problems.

**PO-5: Modern tools usage** – Use appropriate techniques and software tools for computing activities.

**PO-6: Professional Ethics** – Understand and commit to professional norms, regulations and ethics.

**PO-7: Life long Learning** – Recognize the need for and have the ability to engage in independent learning for continual professional development.

**PO-8: Project management and finance** – Understand and apply project management principles, as a member or leader in multidisciplinary environments.

**PO-9: Communication Efficacy** – Effectively communicate technical information, both oral and written with range of audience.

**PO-10: Societal & Environmental Concern** – Analyze societal, environmental, cultural and legal issues within local and global contexts when providing software solutions.

**PO-11: Individual and Team Work** – Work as a member or leader in diverse teams in multidisciplinary environments.

**PO-12: Innovation and Entrepreneurship** – Use Innovation and Entrepreneurship for creation of value and wealth.

## VISION

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Thakur Institute of Management Studies, Career Development and Research will become a premier Institute renowned internationally for providing education in Software Application to graduates from various disciplines.

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## MISSION

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To achieve excellence in providing software education so that students can grasp existing as well as emerging technologies and to inculcate leadership and managerial qualities in them so that they can deliver results in the organization they join.

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## EDUCATIONAL ORGANIZATION POLICY

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We, the staff, faculty and management of Thakur Institute of Management Studies, Career Development and Research are committed to offer excellence in software education, in inclusive and conducive academic environment for holistic development of our students.

We work as a team and interact with students in proactive manner to achieve our Educational Organization Objectives and fulfill all academic, statutory and regulatory requirements. We strive for continual improvement of our Educational Organizations Management System.

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ISO 21001:2018 Certified

Website : [www.timscdrmumbai.in](http://www.timscdrmumbai.in)  
[www.thakureducation.org](http://www.thakureducation.org)



## Chief Patron's Message for ICAIM-2024

**I**CAIM 2024 International Conference titled – ‘Leveraging Information Technology for Sustainability in Agriculture and Healthcare – Women Empowerment’ focuses on a salient topic with global importance. The Thakur Educational Trust empowers many students with quality education. Of these quite a few are women.

TIMSCDR has maintained the zeal of organizing ICAIM 2024 by inviting experts from several domains to share experiences of Women Empowerment. Information Technology plays a crucial role in empowering women in an era of easy access to information. ICAIM 2024 in association with NASSCOM, GIST, MACCIA, NCSH-Sweden and CSI is intensified with workshops and presentations.

I take this opportunity to congratulate the organizing committee for their dedication and hard work for effectively arranging this event. I wish the Conference organizers a huge success in their endeavor of ICAIM 2024.

**V. K. Singh**

Chairman

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## CEO's Message for ICAIM-2024

**A** warm welcome to all for the delegates of the International Conference on Advances in Information Technology and Management titled “Leveraging Information Technology for Sustainability in Agriculture and Healthcare - Women Empowerment” organized by TIMSCDR, under the aegis of Thakur Education Group (TEG).

In the present times of fast development in every sector due to the easy access to information and affordable technology, it is necessary to ponder on the topic - Women Empowerment. Are Women in today's world actually empowered? Over the last few decades literacy in women has shown a remarkable upward trend. However, does this allow them to make decisions and put across their views confidently and without suppression.

ICAIM 2024 brings forth a matter of global discussion. The expert sessions and panel discussion on Women Empowerment will definitely enrich the views of the delegates. It is heartening to know that all invited speakers at ICAIM 2024 are women who are playing a pivotal role in empowering other women.

I congratulate team TIMSCDR for the zeal and enthusiasm with which they have organized ICAIM 2024. I extend my best wishes to the faculty, delegates, and the organizing committee for excellence in their endeavors.

**Ms. Karishma Singh**  
CEO

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## Director's Message for ICAIM-2024

“If you want something said, ask a MAN. If you want something done ask a WOMAN.”  
– Margaret Thatcher. This simple statement talks a lot about WOMEN.

It is equally true that MEN and WOMEN are a unique creation of the Universe and their existence for prosperity and happiness is complemented by each other.

Yet we have reasons to debate and discuss about Women Empowerment even in the 21st Century, as we take missions to the Moon and further. ICAIM 2024 titled “*Leveraging Information Technology for Sustainability in Agriculture & Medicine – Women Empowerment*” is a drop in the ocean of deliberations around Women Empowerment.

Empowerment in general is to have the autonomy of deciding and doing what is best in the interest of self. This ensures the important element of support of the community and the constitution. Women Empowerment in specific is enabling Women to have the autonomy of making self choices and appreciating self worth in the given ecosystem. Though there is a rise in the literacy rate of Women in India, we still have the need of Empowering Women to ensure that her self worth does not depend on the confirmation of the factors of the society. Health, Financial literacy and Education are the three pillars to empower Women. ICAIM 2024 focuses on these three pillars.

With the focus on Sustainability, ICAIM 2024 leverages Information Technology in the domains of Agriculture and Healthcare to empower Women. Empowerment is not a single capsule antidote and needs to be administered with sustainable strategy. As Education plays a pivotal role in empowering an individual, even as of today, there is a vast scope of spreading awareness about the importance of education in upliftment of self and society for national progress. Our nation still lacks infrastructure facilities to provide the right mindset and culture to make education a basic priority of those in rural India. As rightly quoted by Michelle Obama



“Communities and countries and ultimately the world are only as strong as the health of their women.” Today both the mental and physical health of women are a concern. Irrespective of their dwelling majority of women are financially illiterate. In times of ChatGPT, when mammoth information is surrounding us, we have the need for empowering Women.

ICAIM 2024 preserves the privilege of association with NCSH (Nordic Center of Sustainable Healthcare), Sweden, AMC (Association of Medical Consultants), MACCIA (Maharashtra Chamber of Commerce, Industry and Agriculture), GIST (Global Indian Scientist and Technocrats), CSI (Computer Society of India) and NASSCOM to organize a week long commemoration of activities eliciting Women Empowerment.

ICAIM 2024 proceeding encompasses research papers and technical posters penned by academicians and young researchers bearing the theme - Women Empowerment leveraging Information Technology. ICAIM 2024 commenced on February 5,2024 with the Pre-Conference sessions, AWS and Power BI Workshops and research paper and technical poster presentations. Hackathon on - Empowering Women in Rural India” and “Millet Movement” celebrated the theme of the conference - Women Empowerment.

ICAIM 2024 witnessed scholarly deliberations by Experts who emphasized the significance of Women Empowerment and the perpetual role of Information Technology to strengthen it. My heartfelt gratitude to our resourceful Management whose unfailing commitment has empowered ICAIM 2024. A salute to Team TIMSCDR, for unwavering support to make ICAIM 2024 a success.

Wishing all an empowering experience - ICAIM 2024...

**Dr. Vinita Gaikwad**

Director

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## About TIMSCDR

The Thakur Educational Group comprises of three Trusts namely Thakur Educational Trust (Regd.), Zagdu Singh Charitable Trust (Regd.) and Zagdu Singh Educational Trust (Regd.) managed by the Thakur family and runs 19 Institutes located in Kandivali, western suburb of Mumbai.

TIMSCDR (Thakur Institute of Management Studies, Career Development and Research) is dynamic institute striving to provide quality higher education. The institute is an ISO 21001:2018 certified providing three years MCA (Master of Computer Application) course. The MCA Course of TIMSCDR is NBA Accredited. All possible ways of acquiring academic insight and undertaking appropriate academic initiatives are explored at the institute. TIMSCDR also has an ISTE (Indian Society of Technical Education) chapter. Residence-cum-study facility is available for boys and girls in secured modern Hostel Buildings with green, clean and healthy ambience situated near the Institute.

TIMSCDR is organizing next International Conference ICAIM-2024 which serves as a platform for gathering all academicians, industrialist, researchers and professionals in the disciplines of Information Technology, Agriculture and Medicine (Nutrition).

## About AMC

The Association of Medical Consultants (AMC) was established in 1972 by a small group of energetic active and concerned medical consultants from distant suburbs who often assembled and animatedly discussed their common problems. Over the years, the immense need rose for an organisation of this nature and the Association grew rapidly. It is now one of the fastest growing Associations of Specialist Doctors in Mumbai and boasts of a membership strength of more than 9000 Medical Consultants. AMC represents Consultants practicing at corporate and non corporate Tertiary care referral Hospitals (both Government and Private) and individual Consultants practicing through their own consulting rooms, Clinics & Nursing Homes spread across Greater Mumbai, Navi Mumbai and Thane districts. It is recognized as a frontline Medical Organization and is an important opinion making body which addresses vital public health and professional issues facing the medical profession in general and medical consultants in particular. AMC has effectively brought together consultants of various disciplines on one platform and aims to highlight and offer solutions to all the important day to day problems faced by consultants.

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## About MACCIA

Maharashtra Chamber of Commerce, Industry & Agriculture (MACCIA) is the Apex Chamber of the State. The Chamber plays a pivotal role in supplementing and augmenting the efforts of Government for the economic development of the State and advancement of its people. With more than 3500 direct Members, comprising of large, medium and Small-Scale Industries, Traders, Agriculturist and Professionals, MACCIA is the only Chamber in Maharashtra, which has deep-roots in all the 35 Districts encompassing 355 Talukas of Maharashtra. In addition over 800 Local Trade and Industry Associations and professional bodies having collective membership of over 700,000 business organizations from all over the State are affiliated to the Chamber and thus it virtually functions as the State's Apex Chamber.

## About NCSH

Nordic Center for Sustainable Healthcare (NCSH) is a cross-sectoral arena and network involving stakeholders, organizations, projects and expertise in the area of sustainable healthcare, all sharing the goal to create a more sustainable healthcare sector. The network of NCSH includes companies, hospitals, regions, universities, NGOs, clusters and more. Together they form an arena which generates collaborations, projects, business, knowledge and new innovative ideas.

## About GIST

Global Indian Scientists & Technocrats Forum (GIST) is a visionary organization that was formed to become a key platform to bring together scientists and technocrats from the Indian diaspora from across the world, who are maestros in their fields.

## About DMI

Development Management Institute (DMI) was set up on February 13, 2014 pursuant to a desire of the Government of Bihar to establish a High Performing Knowledge Institution (HPKI). DMI believes that the livelihoods of small producers and marginalised people can be enhanced by organising them to form member participation based, democratically governed institutions that leverage the strengths of collectives and build enduring partnerships with professionals for reaping the benefits of technology and market integration. Inspired by and recognising the growing need for Development Management Professionals, the Government of Bihar took the initiative to establish DMI as an autonomous institution. The rationale of DMI is best captured in its mission.

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**Anjali Makarand Churi**  
Nisarg Nirman, Matunga, Mumbai/  
Shahapur, Dist. Thane.

Best Wishes for the success of International Conference on Leveraging Information Technology for sustainability in Agriculture and Healthcare -Women Empowerment. Organized by Thakur Institute of Management Studies, Kandivali,

I convey my heartiest greetings to the organizers & participants of this conference.



**Anuja Diwate**  
Subject Matter Specialist  
(Agricultural Engineering),  
Krishi Vigyan Kendra, Palghar

May this event be a catalyst for transformative discussions, innovative ideas, and collaborative initiatives that harness the power of Information Technology to drive sustainable advancements in agriculture and healthcare, with a special focus on empowering women. Your dedication to exploring the intersection of technology and empowerment is inspiring, and we hope this conference paves the way for impactful solutions that uplift communities, foster gender equality, and contribute to a more sustainable and inclusive future. Wishing you a successful and enlightening conference filled with fruitful conversations and valuable insights.



**Ms. Anupama Padhi**  
Founder, CEO, DhaaniFoods &  
Dhaanikala

Thankyou for inviting me as a millets expert and Millets competition judge.

I wish the participants all the very best.

Millets revolution is essential for over all health of people and planet.

Congratulations to Thakur College for taking this initiative and educating the students about millet lifestyle in a fun way.



**Dr. Vilas Jadhav**  
Sr. Scientist and Head  
Krishi Vigyan Kendra Kosbad Hill,  
Tal. Dahanu, Dist. Palghar

I am very glad to know the renowned Thakur Institute of Management Studies going to organize international conference on important topic “Leveraging Information technology for sustainability in agriculture and health care, specially focused on women empowerment. I wish you all great success for this conference with fruitful interaction and valuable inputs.



**Ms. Jennifer Dhuri**  
Detician/Nutritionist

Best Wishes for the success of International Conference on Leveraging Information Technology for sustainability in Agriculture and Healthcare -Women Empowerment. Organized by Thakur Institute of Management Studies, Kandivali,

My best wishes to the organizers & participants of this conference in making the event a successful one.



**Dr Padmaja Samant**  
KEM Hospital

Dear Organizers and Participants,

Heartfelt congratulations on orchestrating and participating in the conference on Leveraging Information Technology for sustainability in Agriculture and healthcare -Women Empowerment. Your dedication to advancing these critical areas is truly commendable.

By bringing together minds passionate about women’s well-being and empowerment, you’ve created a platform for impactful discussions, knowledge sharing, and collaboration. Such initiatives pave the way for positive change and upliftment in communities worldwide.



**Mr. Sudhanshu Ojha**  
VP-Govt Affairs, CSR & D-Link  
Academy-Head

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The focus of ICAIM 2024 - Women Empowerment is eminent even today and plays an important role for sustainable development.

I feel proud and pleasant to inscribe a message for my dearest TIMSCDR campus and I also feel great to look at the continued success journey of ICAIM Journey so far. The progress and success of TIMSCDR under dynamic leadership of Dr. Vinita Gaikwad and Team has been achieving, is a matter of pride and joy for all of us. TIMSCDR is continuously marching towards the path of excellence.

I express my hearty wishes for the success of grand event.

I wish my best goodwill for the success for our participants, students, Faculty, Industry and Thakur Education Trust.

Wishing best of the success to all!



**Mr. Chandrashekhar  
Bhadsawle**  
Managing Trustee at Saguna Rural  
Foundatio

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Carbon neutrality is the key issue for today's society. Without understanding the problem there can not be a practical solution and its application. Able youth, such as university students can play the most important role in this subject. This is very impressive that TIMSCDR is holding this International conference on the subject.

## Well Wishers of ICAIM - 2024



**Dr. Mukesh Gupta**  
Founder Director – Le’Nest,  
Immediate Past President – AMC



**Mr. Johannes  
Brundin**  
Co-Founder NCSH, Sweden



**Dr. Suresh A. Shan**  
Mahindra & Mahindra, CIO,  
Head - Innovation & Future  
Technologies Business  
Information Technology  
Solutions (BITS)



**Ms. Rasika A. Phatak**  
Farmer and Social Worker



**Ms Nehal Mota**  
Co-Founder, Finnovate



**Ms Rupali Deshmukh**  
Scientist (Food & Nutrition  
Science)



**Dr Aarti Yyas Joshi**  
Malad medical association

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**Mr. Johannes Brundin**, Energy and Climate Manager,  
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**Mr Sudhanshu Ojha**, General Manager, D-Link India Ltd.

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# PREFACE

The theme of ICAIM 2024 - Women Empowerment resonates with the current status of women, who though are surrounded by modern tools and deluged in information, yet fettered to portray their self worth.

Empowerment bestows within an individual the potential to render their choices and beliefs irrespective of the surroundings. The chronicles of human civilization depict men to be superior gender over women. With the modern age and emphasis on gender neutrality several initiatives globally, support the upliftment of women. Literacy rate of women is 77% as compared to men i.e. 84.7 %, indicating an appreciable rise over the past decades. Even so, it is perceived that women are unable to voice their choices. With a dynamic Finance Minister, her honorable Ms. Nirmala Sithraman, on one hand, who advises on our nation's finance strategies, yet, we have the majority of women in our country who are financially illiterate. There is a surge of modern medical techniques and medicines to promote health, however, health issues in women in urban and rural India hasn't declined. Further, mental illness is a concern, specifically in women in the current times.

Principally, Health, Education and Financial Literacy are the cornerstone for empowering Women.

ICAIM 2024 Proceeding illustrates the importance of Women Empowerment through research articles, research papers and technical posters. It emphasizes the use of Information Technology to support Women Empowerment. Areas covered under health focus on the use of AI tools and personalized mobile applications for nutritional guidance for women. AI for mental healthcare. NLP Models for detecting early signs of depression pertaining to mental health. Telemedicine as a technology for Sustainable healthcare. Role of Cloud-Computing in the Healthcare sector. Research papers also covered the effects of Social Media on Mental Health. To promote women's health - Use of IoT to detect breast cancer. Blockchain technology for secure Health record management.

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Research papers covered areas of Strategies to achieve Pay Equity and close Gender Gap in IT sector, to promote Women Empowerment. Legal Laws in support of women. ICT Solutions to Micro Financing Women Entrepreneurs. Use Deep Learning for Violence detection and tracking using Surveillance videos. Work-life balance policies to Empower Women in the IT sector. Use of Wearables as safety devices to protect women.

The proceedings also encompassed research study on several IT tools and technologies used to support sustainable healthcare and agriculture. Research papers on ML techniques to detect Credit Card frauds and the impact of UPI on the spending patterns of customers.

ICAIM 2024 Proceedings a conglomeration of research articles, research papers and technical posters authored by student and faculty members was not limited to Women Empowerment but covered varied Technical topics pertaining to emerging technologies. The proceedings conveys the need for empowering women and the limitless role of Information Technology to support it.

Dr. Vinita Gaikwad  
Director

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