

**International Conference on Technologies for Energy, Agriculture, and  
Healthcare (ICTEAH 2024)**  
**15<sup>th</sup> -16<sup>th</sup> April, 2024**

**Organised by  
K J Somaiya College of Engineering**

**Program Schedule**

Program	Day 1: 15 <sup>th</sup> April 2024	Venue
	Time	
Registration and breakfast	08:30 AM to 09:45 AM	<b>Registration</b> - Entry to Auditorium <b>Breakfast</b> - A-225
Inauguration	10:00 AM to 10:45 AM	Auditorium
Inaugural Talk	10:45 AM to 11:45 AM	Auditorium
Poster Display	Throughout the conference	Outside Auditorium
Tea Break	11:45 AM to 12:00 Noon	Outside Auditorium
Oral Presentation (Parallel Session 1)	12:00 Noon to 02:00 PM	A-315 A-202 B-113
Lunch	02:00 PM to 02:40 PM	A-225
Keynote Talk - 1 (Parallel Sessions)	02:40 PM to 03:25 PM	A-315 A-202
Oral Presentation (Parallel Session - 2)	03:30 PM to 05:30 PM	A-315 A-202 B-113
High Tea	05:30 PM to 06:00 PM	A-225
Conference Photo	06:00 PM to 06:15 PM	Entry to Aryabhata Building
<b>End of Day One Schedule</b>		

Program	Day 2: 16 <sup>th</sup> April 2024	Venue
	Time	
Registration and Breakfast	08:00 AM to 09:00 AM	<b>Registration</b> - Entry to Auditorium <b>Breakfast</b> - A-225
Oral Presentation (Parallel Session 3)	09:00 AM to 11:00 AM	A-315 A-202 B-113
Tea break	11:00 AM to 11:15 AM	Outside respective Presentation hall
Keynote Talk - 2	11:15 AM to 12:00 Noon	A-315
Keynote Talk - 3	12:00 Noon to 12:45 PM	A-315
Valedictory	01:10 PM to 01:30 PM	A-202
Lunch	01:30 PM to 02:30 PM	A-225

**End of the Conference Schedule**

**Auditorium: Smt. Sakarben Karamshi Somaiya Auditorium**

# ICTEAH 2024 Technical Program Schedule

## Inaugural Keynote Talk

Date and Time	Talk	Venue
15 <sup>th</sup> April 2024 10:45 AM to 11:45 AM	Inaugural Talk: <b>Title:</b> In Vitro Study of a Beating Heart Model <b>Speaker:</b> Dr. Shailendra D. Sharma Founder Aufflows CardioTech Pvt. Ltd. and Professor (R), Aerospace Engineering Department, Indian Institute of Technology (IIT Bombay, Mumbai)	Smt. Sakarben Karamshi Somaiya Auditorium

## Parallel Session 1: Mechanical and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
15 <sup>th</sup> April 2024 12:00 Noon to 02:00 PM	<b>Session Chair: Dr. Nilaj Deshmukh, Fr. C. Rodrigues Institute of Technology, Navi Mumbai.</b> <b>Venue: A-315</b>			
	24	Healthcare	Exploring the Correlation between Knee Flexion Moment and Joint Contact Force during Squatting Activity	Rohan Kothurkar, <b>Ramesh Lekurwale</b> , Rajesh Pansare (rameshlekurwale@somaiya.edu)
	30	Agriculture	Enhancing Stability of Agricultural Vehicle using Dynamic Lean Control	Prathamesh Patil, <b>Mustafa Pardawala</b> , Vaibhav Gala, M J Pawar (mustafa.p@somaiya.edu)
	40	Energy	Numerical Investigation of the Influence of Geometric Parameters on Heat Transfer Enhancement by Air Jet Infringement	<b>Avinash M. Rathod</b> , Nitin P. Gulhane (amrathod_p21@me.vjti.ac.in)
	51	Healthcare	Bibliometric analysis on Bioprinting: Mapping co-occurrence of keywords and future research direction using VOSviewer	<b>Kavita Kumari Thakur</b> , Ramesh Lekurwale, Rajesh Pansare, Sangita Bansode (kavitakumari.t@somaiya.edu)
	53	Agriculture	Development of Sustainable Tableware Materials Produced with Agricultural waste	<b>Shivangi V. Thakker</b> , Shweta Pandey (shivangiruparel@somaiya.edu)
	54	Healthcare	Optimizing Healthcare Delivery: A Case Study on Implementing Lean Principles in Pathological Laboratory	Dipak Khatale, R. S. Bharsakade, Kaustubh Borse, Rohan Khekade, <b>Suparshva Kale</b> , Sakshi Kotwal, Nishat Kulkarni (suparshvakale@gmail.com)
	55	Energy	Modal and Harmonic Simulation on Morphing Wing Aerofoil for Unmanned Aerial Vehicles for Structural Optimization	<b>Animesh Dolas</b> , Pratik Dixit, Pravin Doke, Mangesh Chaudhari1, Umesh Chavan (animesh.dolas20@vit.edu)
	56	Energy	Heat Storage Using Phase Change Material (PCM)	<b>Niraj Kurane</b> , Om Mali, Rohan Pawar, Dhairyashil Jadhav, Anurag Jadhav, M. B. Chaudhari, M. K. Nalawade (nirajhkurane@gmail.com)

### Parallel Session 1: IT and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
15 <sup>th</sup> April 2024 12:00 Noon to 02:00 PM	<b>Session Chair: Dr. Archana Patankar, Thadomal Shahani Engineering College, Mumbai.</b> <b>Venue: A-202</b>			
	35	Agriculture	Sugarcane categorisation using Deep learning models on Sentinel dataset	<b>Mansi Kambli, Bhakti Palkar</b> ( <a href="mailto:mansi.mk@somaiya.edu">mansi.mk@somaiya.edu</a> )
	218	Energy	Predicting Solar Panel Output Performance with Advanced Machine Learning Techniques	<b>Deep Khatri, Kevin Gladstone, Umang Patel</b> ( <a href="mailto:deep.khatri@somaiya.edu">deep.khatri@somaiya.edu</a> )
	45	Healthcare	Revolutionizing Healthcare: The Transformative Power of Generative AI – Risks and Rewards	<b>Sachin R Thorat, Davendranath G. Jha</b> ( <a href="mailto:sach.thorat@gmail.com">sach.thorat@gmail.com</a> )
	49	Healthcare	MULTICLASS_RESP_DNN: A Novel Deep Learning Architecture for COVID, Pneumonia & Tuberculosis Detection from Radiology Images	<b>Prita Patil, Vaibhav Narawade</b> ( <a href="mailto:prita.patil@gmail.com">prita.patil@gmail.com</a> )
	60	Healthcare	An Assistive System for Mobility and Orientation for Visually Impaired People	Aakansha Hyaling, <b>Shruti Buwa, Sharayu Salokhe, S.T Gandhe</b> ( <a href="mailto:shrutibuwa2002@gmail.com">shrutibuwa2002@gmail.com</a> )
	98	Healthcare	AI-driven seizure detection using EEG: A synergistic approach with DWT, entropy features and ANN	<b>Indu Dokare, Sudha Gupta</b> ( <a href="mailto:indu.dokare@somaiya.edu">indu.dokare@somaiya.edu</a> )
	128	Healthcare	Blockchain-based Patient Document Storage & Access	<b>Abhiraj Kale, Bhavya Sura, Advait Khandare, Manav Rupani, Deepak Sharma</b> ( <a href="mailto:abhiraj.kale@somaiya.edu">abhiraj.kale@somaiya.edu</a> )

### Parallel Session 1: Electronics and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
15 <sup>th</sup> April 2024 12:00 Noon to 02:00 PM	<b>Session Chair: Dr. Sandeep Kakatkar, Scientist F &amp; Programme Director (Industrial Solution), SAMEER, Mumbai</b> <b>Venue: B-113</b>			
	34	Healthcare	Multi-Sensor Fusion for Indoor Navigation Assistance for the Visually Impaired	<b>Iftekar Patel, Makarand Kulkarni, Ninad Mehendale</b> ( <a href="mailto:iftekar.p@somaiya.edu">iftekar.p@somaiya.edu</a> )
	105	Energy	Piezoelectric Material-Based Energy Harvesting: A Comprehensive Overview	<b>Vinit Ingole, Aditya Gudade, S. S Vasekar</b> ( <a href="mailto:vinitingole118@gmail.com">vinitingole118@gmail.com</a> )
	108	Energy	Energy Prediction for Efficient Resource Management in IoT-Enabled Data Centres	<b>Sarika Mane, Makarand Kulkarni, Sudha Gupta</b> ( <a href="mailto:sarika@somaiya.edu">sarika@somaiya.edu</a> )
	163	Agriculture	Vision-Based Autonomous Path Follower Drone	<b>Anoushka Bhat and Kartik Patel</b> ( <a href="mailto:anoushka.b@somaiya.edu">anoushka.b@somaiya.edu</a> )
	131	Energy	AquaBot: Development of an Aquatic Environment Cleaning Robot for River Restoration and Pollution Mitigation	Shivam Sharma, Yash Patil, Smriti Singh, <b>Adwait Sumbh, Chaitali Kulkarni</b> ( <a href="mailto:adwait.sumbh@somaiya.edu">adwait.sumbh@somaiya.edu</a> )
	151	Energy	A Comparative Study on Spatial	Aditi Upadhyay, <b>Vaidehi</b>

			Diversity Techniques in Multiantenna Systems over Various Fading Channels	<b>Bhiwapurkar, Kartik Patel</b> ( <a href="mailto:v.bhiwapurkar@somaiya.edu">v.bhiwapurkar@somaiya.edu</a> )
	152	Energy	Design and Development of Wilkinson Power Divider for Wifi Application	<b>Prathamesh Bagal, Aditya Mishra, Makarand Kulkarni, Nilesh Lakade</b> ( <a href="mailto:prathamesh.bagal@somaiya.edu">prathamesh.bagal@somaiya.edu</a> )
	307	Healthcare	A Low-cost Acetone Sensor using Amorphous InGaZnO Transistor for Potential Diagnosis of Diabetes by Breath Analysis	<b>Maruti B Zalte and Maryam Shojaei Baghini</b> ( <a href="mailto:mbzalte@gmail.com">mbzalte@gmail.com</a> )

Time	Keynote Talk	Venue
<b>15<sup>th</sup> April 2024</b> <b>02:40 PM to 3:25 PM</b>	<b>Title:</b> Smart Agriculture - A way forward <b>Speaker:</b> Prof. J. Adinarayana Centre of Studies in Resources Engineering IIT Bombay, Powai, Mumbai	<b>A-315</b>
	<b>Title:</b> Generative Drugs and beyond - what next for data science and AI in healthcare? <b>Speaker:</b> Dr. Clare Walsh Institute of Analytics London, United Kingdom	<b>A-202</b>

### Parallel Session 2: Mechanical and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
<b>15<sup>th</sup> April 2024</b> <b>03:30 PM to 05:30 PM</b>	<b>Session Chair: Dr. A. D. Dhale, D J Sanghvi College of Engineering, Mumbai.</b> <b>Venue: A-315</b>			
	101	Energy	Thermomechanical Analysis of Fused Deposition Modeling for ABS Turbomachinery Rotor in Energy Generation	<b>Shrikrishna Pawar, Dhananjay Dolas</b> ( <a href="mailto:shrikrishnapawar24@gmail.com">shrikrishnapawar24@gmail.com</a> )
	107	Energy	Vibration Analysis of Faults in Rotating Machinerics	<b>Shamim Pathan, Praseed Kumar, Bipin Mashilkar, Nilaj Deshmukh, Aqleem Siddiqui</b> ( <a href="mailto:praseedkumar@fcrit.ac.in">praseedkumar@fcrit.ac.in</a> )
	150	Agriculture	Rotating drum <i>Cashew</i> Nut Roaster in Commercial Domestic Oven-Toaster Griller	<b>Amit A. Deogirikar, Anagha Amit Deogirikar</b> ( <a href="mailto:amitdeogirikar@gmail.com">amitdeogirikar@gmail.com</a> )
	155	Energy	CFD Analysis of thin wall pump impeller for sustainable manufacturing and energy management	<b>Rajesh Mandale, Sangita Bansode, Ramola Sinha</b> ( <a href="mailto:rajesh.mandale@somaiya.edu">rajesh.mandale@somaiya.edu</a> )
	159	Energy	Numerical Investigation on the Effect of Inclined Delta Flow Obstructions on the Thermo-Hydraulic Performance of an Air Heater	<b>Bronin Cyriac, Akash Bidwaik, Siddappa S. Bhusnoor</b> ( <a href="mailto:bronin.c@somaiya.edu">bronin.c@somaiya.edu</a> )
	160	Energy	Modelling and Experimental Studies on Performance Evaluation of Energy Efficient Mini-channel Shell and Tube	<b>Akash S. Bidwaik, Iqbal Muzawar, Bronin Cyriac, Shailesh R. Nikam, Siddappa S. Bhusnoor</b> ( <a href="mailto:akash.bidwaik@somaiya.edu">akash.bidwaik@somaiya.edu</a> )

			Heat Exchanger	
	165	Agriculture	Sugarcane crop acreage estimates for Bagalkot and Belagavi districts of Karnataka, India	Sunil Kumar Jha, <b>Vrushali Deshmukh</b> , Anupriya Jha, Priyanka Kumari ( <a href="mailto:deshmukh.vrushali@somaiya.edu">deshmukh.vrushali@somaiya.edu</a> )
	312	Energy	Energy Optimization of Highly Nonlocal Soliton via Diffraction Management	Soumendu Jana, Mohit Sharma, Brajraj Singh and <b>Manoj Mishra</b> ( <a href="mailto:manoj27@somaiya.edu">manoj27@somaiya.edu</a> )

### Parallel Session 2: IT and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
15 <sup>th</sup> April 2024  03:30 PM to 05:30 PM	<b>Session Chair: Dr Dipak Bhoir, Fr. CRCE Bandra, Mumbai</b> <b>Venue: A-202</b>			
	156	Healthcare	Comparative Analysis and Ensemble-Driven Improvement in Depression Detection on Reddit Posts	Aditya Pai, <b>Prathamesh Powar</b> , Rohan Sharma, Snigdha Bangal, Leena Sahu ( <a href="mailto:prathamesh.powar@somaiya.edu">prathamesh.powar@somaiya.edu</a> )
	167	Agriculture	Kisan Sevak: A Comprehensive Mobile-based Diagnosis System for Sustainable Agriculture	Chirag Sharma, <b>Anirudha Ta</b> , Tejas Pundlik, <b>Uditi Sinha</b> , Sarfaraz Shaikh, Atharva Tambe, Swati Mali, Archana Gupta ( <a href="mailto:anirudha.ta@somaiya.edu">anirudha.ta@somaiya.edu</a> )
	174	Healthcare	A Smart Healthcare Companion with Tesseract OCR and KNN Integration	Nishant Kathpalia, <b>Gabriel Nixon Raj</b> , Madhavan Venkatesh ( <a href="mailto:gabriel.nixonraj@gmail.com">gabriel.nixonraj@gmail.com</a> )
	177	Healthcare	Analysis of the CNN models Performance to Detect Handwriting Difficulties	<b>Nisha Ameya Vanjari</b> , Prasanna Shete ( <a href="mailto:nvanjari@somaiya.edu">nvanjari@somaiya.edu</a> )
	182	Agriculture	Innovations in Crop Health Monitoring: A Deep Dive into Disease Detection	<b>Nilkamal More</b> , Prathik Chadaga, Parthsarathi Singh, Faiz Abbas Syed, Suraj Mohan, Gautam Bulusu ( <a href="mailto:neelkamalsurve@somaiya.edu">neelkamalsurve@somaiya.edu</a> )
	186	Agriculture	Evaluating Various Learning Algorithms for Crop Disease Detection in Precision Agriculture- A Comparative Study	<b>Deepali Shrikhande</b> and Sushopti Gawade ( <a href="mailto:deepalishrikhande6@gmail.com">deepalishrikhande6@gmail.com</a> )
	43	Healthcare	Stroke Prediction and Analysis Using Different Machine Learning Algorithms	<b>Vedant Sanjay Tadla</b> , Pranav Manoj Singh, Kunal Manish Thakkar ( <a href="mailto:vedant.tadla@somaiya.edu">vedant.tadla@somaiya.edu</a> )

## Parallel Session 2: Electronics and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
<b>15<sup>th</sup> April 2024  03:30 PM to 05:30 PM</b>	<b>Session Chair: Alice Cheeran, Adjunct Professor Somaiya Vidyavihar University, Mumbai Venue: B-113</b>			
	123	Healthcare	A Simplified Approach for Development of a Syringe Infusion Pump	<b>Abhinav Paniketty</b> , Shruti Jha, Sania Ayare, Calix Jangul, Arunkumar Ram, Amol Sakhalkar ( <a href="mailto:abhinav.paniketty@vit.edu.in">abhinav.paniketty@vit.edu.in</a> )
	168	Agriculture	A Trident shaped EBG integrated monopole antenna for wearable applications	<b>Monika Budania</b> , Bharati Singh, Vandana Satam
	201	Healthcare	Nurse Bot: Autonomous Remotely Operating Nurse Assistant Robot	<b>Bhavish Sangtani, Tanmaay Dhanawade, Kaushik Iyer</b> , Sudha Gupta, Ayesha Hakim ( <a href="mailto:bhavish.sangtani@somaiya.edu">bhavish.sangtani@somaiya.edu</a> )
	237	Healthcare	Design and Development of Drip Monitoring of IV system	<b>R. Nandita Srivatsan, Niyati A. Rolia, Gurveer Singh Bharj</b> , Sandeep Sainkar, Sudha Gupta, Kavita Kelkar ( <a href="mailto:r.srivatsan@somaiya.edu">r.srivatsan@somaiya.edu</a> )
	267	Agriculture	Interference modelling over terahertz band wireless communication network	<b>Surendra Sutar</b> and Sanjay Deshmukh ( <a href="mailto:surendra.sutar@mctrgit.ac.in">surendra.sutar@mctrgit.ac.in</a> )
	268	Healthcare	Smart IoT-Based Healthcare Monitoring System	<b>Mrunmayee Utekar, Tanisha Jadhav, Chaitanyaa Shinde</b> , J.H Nirmal, Makarand Kulkarni, Madhura Pednekar ( <a href="mailto:chaitanyaa.s@somaiya.edu">chaitanyaa.s@somaiya.edu</a> )
	270	Agriculture	Self-adaptive control system for Hydroponics	<b>Kirti Sawlani</b> , Deepti Patole, Vedant Kelkar, Manas Pange, Kiran Kardile ( <a href="mailto:kirtisawlani@somaiya.edu">kirtisawlani@somaiya.edu</a> )
	277	Energy	Advancing Sustainable Manufacturing: Designing a Supervisory and Control Interface for Sorting Stations	<b>Ms. Shaina Rathod, Mr. Shivam Verma</b> , Midhya Mathew ( <a href="mailto:shaina.r@somaiya.edu">shaina.r@somaiya.edu</a> )
	284	Healthcare	IoT Framework for Modern Battlefield: Implementation of Soldiers Health Integration for Enhanced Location Deployment (SHIELD) System	Swapna Patil and <b>Priyanka Mane</b> ( <a href="mailto:priya.manekadam28@gmail.com">priya.manekadam28@gmail.com</a> )

### Parallel Session 3: Mechanical and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
16 <sup>th</sup> April 2024 09:00 AM to 11:00 AM	<b>Session Chair: Dr. Kiran Bhole, S P C O E Andheri, Mumbai.</b> <b>Venue: A-315</b>			
	169	Energy	Check Valve Simulation through Resource-Efficient FEA-CFD Coupled Analysis	Keshav Anand Kabra, Somrick Das Biswas, <b>Siddappa S. Bhusnoor</b> (siddappabhusnoor@somaiya.edu)
	187	Energy	Theoretical Performance Analysis of Solar Pasteurization vehicle	<b>Ishan Upadhyay</b> , Kashinath Patil, Shailesh Nikam ( <a href="mailto:ishan.upadhyay.vit.edu.in">ishan.upadhyay.vit.edu.in</a> )
	203	Agriculture	Comparative study of Conventional Jaggery Making Process	<b>Ganesh D. Katala</b> , Nandkumar R Gilke, Kashinath N. Patil ( <a href="mailto:ganesh.katala@somaiya.edu">ganesh.katala@somaiya.edu</a> )
	208	Energy	HEAT LOSS ANALYSIS OF SOLAR CAVITY RECEIVER	<b>Muzammil Ahmad Shaikh</b> , Kashinath N. Patil ( <a href="mailto:muzammilahmad.s@somaiya.edu">muzammilahmad.s@somaiya.edu</a> )
	221	Energy	Charcoal Production using an Experimental Vertical Kiln	Doti Baqe, Jane G. Nyaanga, Samuel Nyakach, Wilberforce Okwara, <b>Daudi Nyaanga</b> ( <a href="mailto:dmnyaanga@egerton.ac.ke">dmnyaanga@egerton.ac.ke</a> )
	243	Energy	Experimental Study of Solar Water Heater System Using Phase Change Material	<b>Shamim Pathan</b> , Badal Kudachi, Nilesh Varkute, Apeksha Kini, Reshma Hadawale, Chinmayee Mithagri, Rahul Sitha ( <a href="mailto:shamim.pathan@fcrit.ac.in">shamim.pathan@fcrit.ac.in</a> )
	261	Energy	Computational Analysis of Ballistic Material against High Energy Impact	<b>M J Pawar</b> , Mayuresh Pathak, Vikash Gautam, Vikash Kukshal ( <a href="mailto:manoj.jp@somaiya.edu">manoj.jp@somaiya.edu</a> )
	293	Energy	Numerical Simulation of Effect of Injection Angle on Flow Mixing in A Constant Area Duct	<b>Adit V.Patel, Nandisha J.Shah</b> , Jigar B.Sura
	309	Energy	Torrefied Briquettes: A Sustainable and Renewable Energy Source	<b>M. Nikam</b> , A. Bhongade, V. Bhirud, R. Mahajan, D. Gode, R. Wankhede, S. Jadhav ( <a href="mailto:Manoj.nikam133@gmail.com">Manoj.nikam133@gmail.com</a> )

### Parallel Session 3: IT and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
16 <sup>th</sup> April 2024 09:00 AM to 11:00 AM	<b>Session Chair: Dr. Sanjay Shitole, SNDT Women's University, Mumbai</b> <b>Venue: A-202</b>			
	227	Energy	Modeling Attack Tree for CAN and ECU Vulnerabilities in Electric Vehicles to drain its battery	Irfan Siddavatam, <b>Rahil Wahedna, Mohammed Haaris Shaikh, Kashmira Sonar</b> ( <a href="mailto:kashmira.sonar@somaiya.edu">kashmira.sonar@somaiya.edu</a> )
	231	Agriculture	Detection of Birds from Natural Images Using an Improved Version of Swin Transformer	<b>Nupur Pathrikar</b> and Deepa Deshpande ( <a href="mailto:vhanmante@mgmu.ac.in">vhanmante@mgmu.ac.in</a> )
	234	Energy	Classification and Stress Analysis Using Artificial Neural Network	<b>Parth Matalia, Amod Zack</b> , Dinesh Chawde ( <a href="mailto:p.matalia@somaiya.edu">p.matalia@somaiya.edu</a> )
269	Healthcare	Designing a Large-Scale Face Authentication System	<b>Akhil Nagar, Hetvi Gudka</b> , Manish Potey, Sangeeta Nagpure	



				( <a href="mailto:akhil.nagar@somaiya.edu">akhil.nagar@somaiya.edu</a> )
	271	Healthcare	Healthcare Transformation - A Comparative Analysis of the emergence of AI in the Healthcare System	<b>Meghana N Vyas</b> , Shaikh Mohammad Bilal Naseem, Shah Asif Mohd Saleem ( <a href="mailto:meghna.vyas@somaiya.edu">meghna.vyas@somaiya.edu</a> )
	273	Agriculture	Design of Efficient CNN Architecture for Rice Disease Classification with Comparative Study for Impact Analysis of Batch Size	<b>Sanam Kazi</b> and Bhakti Palkar ( <a href="mailto:sanam.kazi19@gmail.com">sanam.kazi19@gmail.com</a> )
	259	Healthcare	Innovative Solutions for Mental Well-being: A Comprehensive Monitoring System for Sustainable Development Goal 3	Vijaya Pinjarkar, Roshni Bhanushali, <b>Vaishnavi Tanna</b> , Utkarsh Jangada, Riya Shah ( <a href="mailto:vaishnavi.tanna@somaiya.edu">vaishnavi.tanna@somaiya.edu</a> )

### Parallel Session 3: IT and Allied

Date and Time	Paper ID	Track	Paper Title	Authors (Presenters Email)
16 <sup>th</sup> April 2024 09:00 AM to 11:00 AM	<b>Session Chair: Dr. Sunil Wankhede, MCT<sup>5</sup> Rajiv Gandhi Institute of Technology, Mumbai</b> <b>Venue: B-113</b>			
	291	Agriculture	Disease Severity Estimation of Sunflower leaf using Sequential model	<b>Rupali Sarode</b> and Arti Deshpande ( <a href="mailto:rupali.patil@thadomal.org">rupali.patil@thadomal.org</a> )
	222	Healthcare	Comprehensive Evaluation of Automated Stroke Prediction: Harnessing Machine Learning	<b>Nitin Pal</b> , Girish Gidaye, Uma Jaishankar, Ravindra Sangle, Jagannath Nirmal ( <a href="mailto:nitin.pal@vit.edu.in">nitin.pal@vit.edu.in</a> )
	279	Healthcare	Understanding Illicit Opioid Drug References on the Dark Web: A Text Mining Approach to Public Health Analysis	Ashwini Dalvi, <b>Riya Thapar</b> , Siddharth Singh ( <a href="mailto:riya.thapar@somaiya.edu">riya.thapar@somaiya.edu</a> )
	285	Healthcare	Named Entity Recognition in Healthcare: An Evaluation and Implementation of Deep Learning Models for Biomedical Data	Mohammed Danish Ansari, <b>Soham Patil</b> , Grishma Sharma ( <a href="mailto:soham14@somaiya.edu">soham14@somaiya.edu</a> )
	286	Agriculture	ResNet Models in Real World Action: A Comparative Study on Tomato Disease Recognition	Manori Sangani, <b>Jheel Gala</b> , Chaitanya Patil, Smita Sankhe ( <a href="mailto:jheel.g@somaiya.edu">jheel.g@somaiya.edu</a> )

Time	Keynote Talk	Venue
16 <sup>th</sup> April 2024 11:15 AM to 12:00 Noon	<b>Title:</b> Precision Farming: Is it Obligation or Need of the hour In Indian Agriculture <b>Speaker:</b> Dr. Nandkumar Kunchge Director, K.J. Somaiya Institute of Applied Agricultural Research, Sameerwadi, Karnataka	<b>A-315</b>
16 <sup>th</sup> April 2024 12:00 Noon to 12:45 PM	<b>Title:</b> Energy and Development: Lessons from Rural India <b>Speaker:</b> Dr. Anand B. Rao Professor, CTARA, IIT Bombay, Mumbai	<b>A-315</b>



## Contributed Poster

Paper ID	Track	Paper Title	Authors
29	Energy	CFD analysis of a rectangular duct to reduce pressure drop and turbulence for improving efficiency	Ramola Sinha & Sangita N. Bansode
57	Energy	CFD Analysis of a Convergent-Divergent Nozzle: Optimizing Mach number to Enhance performance	Yash Mhatre and Ramola Sinha
126	Healthcare	Revitalizing Medication Experience: A Design Thinking Proposition for Optimizing QR Code Usage	Pooja Birwatkar and Mahalaxmi Pillai
164	Miscellaneous	Finite Element Analysis of Disc Brake	Jash Desai, Aayush Shah, Paarth Shah, Sreenivas Konar
179	Healthcare	Knee Osteoarthritis Detection and Classification Using Deep Learning	Sujata Pathak, Anagha Raich, Gaumtes Jain, Parth Muley, Ratan Pandey and Hardik Naha
197	Agriculture	Sustainable Practices in Jaggery Processing: Insights from India's Jaggery Industry	Ishan Upadhyay Kashinath Patil and Shailesh Nikam
214	Healthcare	Material Handling Robot: An Automated Approach	Amod Zack, Atharva Srivastava, Saurabh Rane and Parag Sarode
224	Healthcare	Drone for packet dropping using IOT during Disaster Situations	Gaurang Ghadi, Om Dhuri, Sahil Shirke and Savita Raut
229	Agriculture	Autonomous Drone Navigation For Aerial Mapping Of Agricultural Terrain	Jenson Joseph, Harshit Wadhavkar, Parthiv Shah, Aryaman Gandhi, Mansi Kambli and Ninad Mehendale
262	Healthcare	Advanced mission planning of a Hexacopter drone to deliver medicinal kit in remote location autonomously	Yamish Singh, Rajanarsimha Sangam, and Abhijeet Karmarkar
278	Healthcare	Smart Glasses For Visually Impaired using IoT	Riaan Jain, Anay Khanolkar and Sayudh Khatavkar
280	Healthcare	Use of state of the art sensors & systems in real time monitoring of attendance, environment & health of workers at the construction site	Anshuli Chikhale, Priyanshi Varshney, Madhura Pednekar, Makarand Kulkarni and Jagannath Nirmal