



**PROJECT COMPLETION REPORT**  
**OF**  
**INTERNATIONAL CONFERENCE OF**  
**UNDERGRADUATE STUDENTS**  
**(ICUS 2021)**

**November 27-28, 2021**

**WEBSITE: <https://www.icus21.scrs.in/>**

**COORDINATOR**

**DR. MANJAREE PANDIT**

**PROFESSOR & DEAN ACADEMICS**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

**MITS, GWALIOR – 474005**

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

(A Govt. Aided UGC Autonomous & NACC Accredited Institute Affiliated to RGPV, Bhopal)

**ORGANIZED BY**

**SOFT COMPUTING RESEARCH SOCIETY**

**IN PARTNERSHIP WITH**

- Indian Institute of Information Technology, (IIIT) Pune
- National institute of technology (NIT) Delhi
  - Christ University Bangalore
    - BBDNIIT
    - REC Sonbhadra
    - RIET, Jaipur and
- Anand International College of Engineering, Jaipur



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## CALL FOR PAPER

Soft Computing Research Society (SCRS) is a non-profit, scientific swarm of researchers. It was established in 2013 and has its headquarter in Delhi, India. With more than 2000 regular members, SCRS has an approach throughout India.

This society has organized (virtually) an International Conference of Undergraduate Students (ICUS 2021) from 27-28 November, 2021. This conference has been organized in partnership with different institutes of India and abroad. The objective of the conference is to provide an international platform for undergraduate students and showcase their talent in research and development.

UG students from any stream are invited to submit only abstract and/or full length paper. All the full length papers will be reviewed and accepted papers will be published as a conference proceedings in SCRS Book Series ([COMPUTING AND INTELLIGENT SYSTEMS](#)).

Corresponding author should be an undergraduate student. Faculty members/ PG Students / Research Scholar can also be an author. Opportunity for presentation will be given to all the registered participants.

The topics covered (but are not limited to) in the conference are as follows:

- Artificial Intelligence and Machine Learning
- Automation
- Automotive Engineering
- Big Data and Data Analytics
- Bioinformatics and Biosciences
- Biomedical Engineering
- Computational intelligence
- Computer Architecture and Real-Time Systems
- Control Science and Control Engineering
- Data Science
- Data Visualization and Virtual Reality Cloud & Distributed Computing
- Digital Marketing
- Disaster Management
- e-Business Applications
- E-commerce & Entrepreneurship
- Economic Sustainability
- Electrical and Electronics Engineering
- Electrotechnologies
- Embedded systems
- Environmental Management
- Human-Computer Interaction
- Image Processing/Multimedia
- Industrial Engineering
- Information and Data Security
- Intelligent control systems
- International and Internal Business Communication
- Internet of things



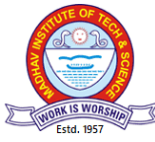
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- Manufacturing Engineering
- Mechatronics & Robotics
- Mobile App and Web Development
- Operations, Designing & Redesigning
- Parallel Processing and Distributed Computing
- Power System and its Automation
- Smart grid
- Supply Chain Management
- Sustainable Business Development & Management
- Thermal Engineering
- Wireless Networks and Mobile Computing
- Mathematical Sciences
- Chemical Sciences
- Physical Sciences



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## PUBLISHING PARTNERS

The after-conference proceeding of the ICUS 2021 will be published in SCRS Book Series, 'COMPUTING AND INTELLIGENT SYSTEMS'.





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## **IMPORTANT DATES**

**Last date of Abstract Submission and Registration: November 20, 2021**

**Conference Date: November 27-28, 2021**

**Last date of Full-length Article Submission: March 10, 2022**

**Online Publication: April 30, 2022**



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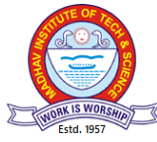
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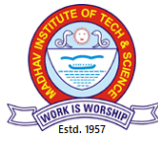
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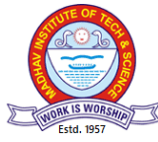
Guru Jambheshwar University of Science and Technology, Hisar

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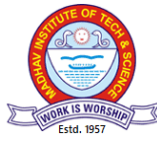
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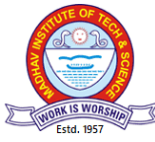
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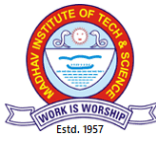


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## ICUS 2021 PROGRAM SCHEDULE

### INSTRUCTIONS

As a Technical Session Presenter, please find detailed instructions below to assist you with logging in and navigating for your technical paper session. These instructions must be read prior to logging in to your session/keynotes.

The Opening ceremony, Closing ceremony and Conference Workshop will be held on the online platform **Webex**. All the Technical Paper Presentations will be held on the online platform **Google Meet**.

1. Click **Join** to attend/present the respective Keynotes (K)/Technical Sessions (TS).
2. Join the Keynotes (K)/Technical Sessions (TS) at least 05 minutes before the scheduled time. All the times are in **Indian Standard Time (IST)**.
3. All the participants and presenters are requested to keep their mic and video off until and unless it is asked to un-mute.
4. The presenters are requested to be ready with their presentation slides and check their mic and video settings in advance.
5. The authors (presenters) will be called one-by-one in their respective Technical Sessions (TS) by Session Chairs.
6. The presenter has to prepare presentation slides in any format.
7. Paper presentation time for each paper is 08 Min and 2 minutes for Q & A.

— **The conference was conducted in virtual mode using webex.**

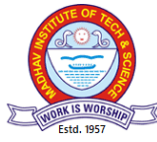
— **416 authors from different countries have submitted their abstracts/papers**

— **18 parallel technical sessions were conducted**

— **01 workshop on “Introduction to Machine Learning and Project Development by Dr. P.S. Rana, Thapar University**

### DAY 1

<b>Opening Ceremony &amp; Conference Workshop (Webex)</b>		11:00 – 12:30
<b>OC</b>	Opening Ceremony	11:00 – 11:30
<b>K1</b>	Conference Workshop on Introduction to Machine Learning and Project Development	11:30 – 12:30
	<b>Speaker:</b> Dr. P. S. Rana, Thapar University, Patiala	
<b>TS 01: Intelligent Systems (Google Meet)</b>		13:00 – 14:30



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2	Hand Gesture Controlled Robot	13:00 – 14:30
	<i>Ravi Khan, Rahul Samria, Sagar Parashar, Sachin Pareta, Lokesh Tharani, Madan Lal Meena, Deepak Bhatia</i>	
4	Face Emotion Recognition	13:00 – 14:30
	<i>Ishita Singhal, Apoorva Sharma, Jatin Yadav, Dr. Deepak Bhatia, Dr. Ajay Khunteta</i>	
5	Real-Time Recognition Framework for Indian Sign Language Using Fine-Tuned Convolutional Neural Networks	13:00 – 14:30
	<i>Rajat Soni, Aakash Khandelwal, Anshul Vijay, Radhika Vijay, Dr. Deepak Bhatia, Dr. Pankaj Shukla, Mr. Vipin Yadav.</i>	
9	AI Based Real Time Vehicle Tracking With Geofencing Capabilities	13:00 – 14:30
	<i>Mohit Kumar Meena, Vikash badsara, Vikash Kaswan, Tarun Choudhary, J B Sharma, Deepak Bhatia</i>	
13	Artificial Intelligence: Evolution, Applications and Future Technologies	13:00 – 14:30
	<i>Md Afridi, Ankit Saini, Pradeep jha</i>	
18	Artificial Intelligence: The Future	13:00 – 14:30
	<i>Rohit Kumar Seth, Prachi Porwal, Prakash Dangi</i>	
19	A Review on Artificial Intelligence	13:00 – 14:30
	<i>Mohammad Saqib, Mohammad Sahil Ansari, Kapil Sharma</i>	
<b>TS 02: Data Analytics and Computing (Google Meet)</b>		<b>13:00 – 14:30</b>
12	Cloud Computing and Big Data: An Overview	13:00 – 14:30
	<i>Miheer Sakria, Sanjay Choudhary, Kiran Ahuja</i>	
15	A Review on Data Science	13:00 – 14:30
	<i>Harsh Raj, Jaishree, Yashika Saini</i>	
17	Impact Assessment of Introducing High Speed Rail on CO2 Emissions In India	13:00 – 14:30
	<i>Aditya Verma</i>	
30	Big Data Analytics for Smart Grid Management	13:00 – 14:30
	<i>Ayushi Chakrabarty, Sri Ramalakshmi P</i>	
39	An Exploration of Disaster Management Strategies Using Big Data Analytics in Saudi Arabia	13:00 – 14:30
	<i>Eman Fahad Al Haider, Shubashini Rathina Velu</i>	
119	Virtual Tutoring for Students	13:00 – 14:30
	<i>Jose Palacios, Susana Flores, Jorge Galindo, Erick Guerrero, Marian Alfaro</i>	
<b>TS 03: Communication and Control Systems (Google Meet)</b>		<b>13:00 – 14:30</b>
1	Design And Statistical Analysis of Semiconductor Optical Amplifier For 16 Channel DWDM System Having Pre-Compensating Fiber	13:00 – 14:30
	<i>Aashi Vijay, Amandeep Swami, Asba Parveen, Himanshu Chauhan, Ritika Jeswani, M. L. Meena, Lokesh Tharani</i>	

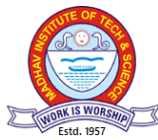


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10	Wireless Communication in IoT	
	<i>Mohd Farhan, Arjun Sharma, Ankit Agarwal</i>	
56	Evolution Of Microgrid and Hierarchical Control Of Microgrid	
	<i>HS Pranavi Peddada, Tatwamashi Panda, Annika Gupta, Sriramalakshmi P, Balamurugan P</i>	
58	Design Of Compact Z Shape Slot Graphene Antenna for 2.4 Ghz Wireless Fidelity Applications	
	<i>Shreya Sharad, Madhur Deo Upadhayay</i>	
72	Detection Of ADHD Based on Electroencephalogram Signals	
	<i>Kartikay Sinhal, Manali Saini, Madhur Deo Upadhayay</i>	
113	Polyimide based antenna for sub-6 GHz applications	
	<i>Mumuksha Gupta, Vidhi Garg, Jitendra Prajapati, Madhur Deo Upadhayay</i>	
115	Flexible Patch Antenna for WLAN applications	
	<i>Vidhi Garg, Jitendra Prajapati, Madhur Deo Upadhayay, Mumuksha Gupta</i>	
<b>TS 04: Computer Networks and Security (Google Meet)</b>		13:00 – 14:30
14	Security Challenges Posed by Ransomware for Cloud Computing and Its Solutions	
	<i>Chirag Goel, Purnima Vaishnav, Manish Kumar Mukhija</i>	
16	Bitcoin By Block Chain: A Review	
	<i>Mukesh Kumar Bansal, Neha Saxena, Yashika Saini</i>	
20	A Case Study on Infrastructure as A Service on Cloud: A Review	
	<i>Piyush Nirbhay, Prince, Satish Kumar</i>	
21	DOS & DDOS Attack	
	<i>Udit Kashyap, Harsh Bhatt, Manish Kumar</i>	
24	Ethical Hacking: White Hat Hackers	
	<i>Vikram Kumawat, Priyanshi Pal, Pradeep Jha</i>	
25	Cyber Security and It's Techniques	
	<i>Anjali kumari Soni, Harleen Kour, Himanshu Arora</i>	
123	Future of IOT and it's Application	
	<i>Tejasva Sharma, Jaya Kumari, Akash Rawat</i>	
<b>TS 05: Emerging Technologies (Google Meet)</b>		13:00 – 14:30
3	A Review: Traffic Police Handy Device	
	<i>Shivani Agarwal, Tanmay Khandelwal, Dr. Deepak Bhatia</i>	
6	IOT Based Health Monitoring System for Covid-19 Patients	
	<i>Surbhi Saxena, Manisha Yadav, Rohitash Badsara, Ansh Tiwari, Dr. Deepak Bhatia, Mr. Vipin Prakash Yadav</i>	



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7	Hand Gesture Controlled Spider Bot	Akshat Sethi , Ankit Vijay , Vishnu Chandora , Devesh Gour , Yash Rathore, Deepak Bhatia
8	Dual Axis Solar Tracker Using Dust Cleaner System	Dinesh Mahawar, Mithilesh Kumar
11	An Overview on Web Design Portfolio	Sakshi Swami, Payal saxena, Sagar Pradhan
22	Role of Blockchain	Akshat Giri, Priya tanwar, Naveen Kumar Tiwari
116	A Review on Performance of Thin-Walled Metallic Tubes as Energy Absorbing Structures	Aakash Saini, Anunjay Loda, Sanjay Kumar Tak, Ayan Dev, Dipali, Bhartesh Palasiya
<b>TS 06: Intelligent Systems (Google Meet)</b>		13:00 – 14:30
26	Virtual Reality, The Technology of Future	Ashutosh Kumar Jha, Abhinav Anand
32	Exploring The Effects of Data Augmentation for Drivable Area Segmentation.	Srinjoy Bhuiya, Ayushman Kumar, Sankalok Sen
36	Detecting Leaf Disease by Using Image Processing Method	Yash Saini, Raj Nandani, Prashant Kumar Singh
38	Optimization Of Tension Spring Design Using Artificial Bee Colony Algorithm and Differential Evolution	Sumaiya Ahmed, Osheen Khare, Yograj Singh
44	Mutation Based Operator for Applying Optimization Algorithms on The Genome Sequencing Problem	Sehej Jain, Kusum Kumari Bharti
70	Use of Deep Learning for Classification of Machined Surfaces	Sushaan K Attavar, Santhosh Pai Hosdurg, Sandesh Rao Udupi, Srinivasa Pai P
<b>TS 07: Data Analytics and Computing (Google Meet)</b>		13:00 – 14:30
40	Natural Language Processing: A Boon for Human Advancement	Aakarsh Sharma
54	Hybrid Model for The Customer Churn Prediction	Mansimar Anand, Irtebat Shaukat, Harnoor Kaler, Jai Narula, Prashant Singh Rana
69	House Price Prediction in Lucknow Region Using Machine Learning Techniques.	Ramlala Chaturvedi, Pooja Verma, Kazi Mohd Zeeshan, Ravi Krishan Pandey
71	Power Generation in India: Present Scenario, Future Outlook and Policy Implementations	



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	<i>Vishal Yadav, Siddharth Yadav, Man Mahendra Singh Daksh</i>	
<b>102</b>	Application of preference matching algorithm for social welfare	
	<i>Laxman Das, Shruti Bansal, Riddhi Sharma, Ishita Pabbi</i>	
<b>121</b>	Proposal for the Use of Microdata for Open Government: Case Mexico	
	<i>Diego Pérez Luna, Susana Flores, Claudia Torrero</i>	
<b>TS 08: Communication and Control Systems (Google Meet)</b>		13:00 – 14:30
<b>37</b>	A Review on Home Automation Using IOT	
	<i>Nikhil Dubey, Vedika Bansal, Pratibha Kumari</i>	
<b>86</b>	A 4096-Point Radix-4 Memory Based Fft for DSP Application	
	<i>K. Vani Sai Kumar, Y. Sai Madhava, G. Varshith Rao, Rama Krishna</i>	
<b>93</b>	In-Pipe Maneuvering Robot	
	<i>Kaustuk Hinglaspure, Ojas Maywade, Sumit Mishra, Gajanan Nikhade</i>	
<b>100</b>	Contribution to the analysis of coexistence between 5G operating at 10.5 GHz and DTH satellite system operating in Ku band	
	<i>Felipe Batista Faro Pinto, Luciano Camilo Alexandre, Arismar Cerqueira Sodr� Junior</i>	
<b>106</b>	Automatic liquid level controller Using Ultrasonic Sensor	
	<i>Rishabh Rajput, Shivam Mahawar, Bhavna Rathore, Rahul Sagwal</i>	
<b>114</b>	Microstrip Antenna for IOT application	
	<i>Bhavya Joshi, Jitendra Prajapati, Madhur Deo Upadhaya</i>	
<b>TS 09: Computer Networks and Security (Google Meet)</b>		13:00 – 14:30
<b>27</b>	Over View And Comparison Between Cyber Security and Algorithm	
	<i>Suchita Jangir, Radhika Sharma, Sagar Pradhan</i>	
<b>28</b>	Wi-Fi Cracking	
	<i>Neeraj Jain, Narendra Singh, Prachi Goyal</i>	
<b>35</b>	A Review on Cyber Security: Magnet Axiom	
	<i>Disha Sachdeva, Ayushi Tiwari, Yashasvi Agrawal</i>	
<b>55</b>	Blockchain Technology for Advancement of Smart Cities	
	<i>Sanah Mathur, Sakshi Sanadhya</i>	
<b>108</b>	A Tools and Techniques used in Wireless Network and Mobile Computing: A Review	
	<i>N Sana Fathima, Rahumath Rahima Beevi J, S Habeeb Mohamed Sathak Amina</i>	
<b>124</b>	Digital Forensics for Cyber Security	
	<i>Sushma S, Hrithika R Jagadeesh, Sushmita N, E. A. Mary Anita</i>	



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## DAY 2

<b>TS 10: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
23	Higher Education: Issues Opportunities	
	<i>Lakshita Goyal, Aayasha kulsum, Neeraj Sharma</i>	
29	Cyborg: Next Evolution or Destruction	
	<i>Sparsh Saini, Priyanshu Gupta, Rahul Sain</i>	
31	Structure of a Nanotechnology	
	<i>Verma Kushagra, Aditya Kumar</i>	
33	IoT Based Smart Wet Grinder	
	<i>Kishore R, Shini Gupta, Abhishek Kishor, Arshad Iqbal, Sriramalakshmi P</i>	
34	A Platform to Aggregate Latest Algorithmic Innovations in The Field Of Quantum Computing.	
	<i>Priyank Gupta, Mohit Bansal, Sonia Rathee</i>	
41	Fractional Integrals: Product of A Generalized Mittag-Leffler Function And H-Function.	
	<i>Prakash Singh, Shilpi Jain</i>	
117	Smart Load Shedding	
	<i>Vindhya Srivastava, Ravi Kumar Jain, Akanksha Yadav, Sachin Verma</i>	
120	Hydroponic Garden	
	<i>Jesus Diaz, Raul Ayala, Edgar Pedrueza, Susana Flores, Silvana Flores</i>	
<b>TS 11: Intelligent Systems (Google Meet)</b>		11:00 – 12:30
73	An Information Framework for Understanding Applications of Internet of Things	
	<i>Akshat Jain, Geeta Sharma</i>	
74	Explorations In Autoencoder Driven Kernelized Transfer Feature Learning for Domain Adaptation	
	<i>Linda Rose Jimson, Sneha Kumari, Lekshmi R</i>	
77	Ethereum Smart Contracts for Facial Recognition Based Payment Distribution System Using Perceptual Hashing	
	<i>Parteekpal Singh, Harpreet Singh</i>	
78	Road Audit Using Semantic Segmentation	
	<i>Harpreet singh, Parteekpal Singh</i>	
80	IOT & AI Blended Auto-Signaling of Traffic	
	<i>Pranjal Mohapatra, Priti Ranjan Sahoo</i>	
81	Human disease identification by Stress Meter	
	<i>Umang Singadiya, Yash Sharma, Vaibhav Rajoriya, Vijay Bhuria, Surabh Rajput</i>	
82	IOT Based Home Automation Using Android	



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	<i>Gaurvit Mehta, Vivek Jena, Sriramalakshmi P</i>	
<b>TS 12: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
<b>42</b>	Clustering Of 3D Protein Structure (RMSD < 5A) Using Physicochemical Properties <i>Amandeep Kaur, Vasudev Sharma, Aekamjot Singh, Mansimar Anand, Prashant Singh Rana</i>	
<b>43</b>	Saigo Fractional Integrals of Extended Hypergeometric Functions <i>Rahul Goyal, Praveen Agarwal, Mahendra Pal Chaudhary</i>	
<b>45</b>	Blockchain Research Report <i>Lucky Mishra, Vishal Singh, Ravi Prakash Verma</i>	
<b>46</b>	The Crashworthiness Performance of Thin-Walled Energy Absorbing Devices: An Overview <i>Puneet Baghel, Rajshree Swami, Manisha Prajapat, Zenab Kagzi, Sanjay Kumar Tak</i>	
<b>47</b>	Digital Twin Technology Based Model for Real Time Hospital Management and Continuous Lifecycle Integration <i>Harshita Rathore, Shainal Modi, Gaurav Todwal, Aditya Mishra, Janki Ballabh Sharma, Deepak Bhatia</i>	
<b>48</b>	Simulation Studies of Selective Methylation of Toluene Using Unisim and Spreadsheet Interface <i>Hemanth Chandrashekar, Anirudh T Gudi, Gurudatt S, Abhishek K Bagamar, Shivakumar R</i>	
<b>49</b>	Selection Of Optimal Design Parameters for Wire Mesh Fin Arrays. <i>Sriram Swaroop Rejeti, V. Nagaraju</i>	
	<b>TS 13: Intelligent Systems (Google Meet)</b>	11:00 – 12:30
<b>91</b>	Location Based Attendance System Using Geofencing Technology <i>Aaryan Bharat Porwal, Prityusha Priyadarshi, Ishita nigam, Rahul Garg</i>	
<b>95</b>	Analysis, Detection and Classification of Alzheimer Disease Using Hybrid Genetic And <i>Manpreet Kaur</i>	
<b>101</b>	A New Approach to Fuzzy Model Identification Based on Cuckoo Search algorithm <i>Parvinder Kaur, Rahul Aneja, Tanuj Singh, Shubham</i>	
<b>103</b>	Predictive analysis of cryptocurrency Bitcoin price using Deep Learning & Blockchain <i>R. B. Ghate, Yogita L.Thorat, Ashwini M. Raut, Achal D. Pise, Nikita A. Nimbekar, Fardin I. Khan, Rohan K. Chawre</i>	
<b>107</b>	Artificial Eye for Blind <i>Saumya Gupta, Abhishek Narayan Gupta, Kirti Pal</i>	
<b>109</b>	An Overview of Mobile Application in Web Development <i>A. Fazhima, Swetha S, Fathima Kaleema J</i>	
<b>110</b>	Gesture Recognition Through AUDIO Signal Transmission Using LI-FI <i>Braj Mohan Vyas, Jiti Mishra, Vikram Saini, Ankit Tiwari</i>	



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111	Blue Eyes technology	
	<i>F. Aysath Rukshana, K. Annsheela</i>	
<b>TS 14: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
50	Optimal Thermal - Assisted Machining Parameters of SKD11 Tool Steel	
	<i>V Lokeswar, V. Nagaraju, V Krishna Sai Teja, Lakshman Sai kumar Tumati, V S R S Kali Prasad</i>	
51	Optimal Gas Metal Arc Welding Parameters For 1018 Mild Steel	
	<i>Karimulla Syed, Adapa Shanmukh, Adigarla Prasanth, Bogi Chakri, G.V.K.Pavan, K Sai Sarath</i>	
52	Optimal Machining Parameters in Face Milling Of AISI 4140 Steel	
	<i>V. Naga Raju, B. Charan Tej, A.R. Sreekar, C. Faurdddin, A. Sathwik,</i>	
53	First Principles Studies on Instability of Electrical Properties of Na Doped ZnO P Type TCOs.	
	<i>Debidatta Behera, Soumyadeep C. Sarkar, Ahana Mukhopadhyay, Manashish Maharana, S.K. Mukherjee</i>	
57	Simulation Of Damped Harmonic Oscillator Using Numerical Methods and Python Codes	
	<i>Prashanthi Radhakrishnan, Vadavalasa Sai Siri, Vedavathi Aluri</i>	
59	Investigation of Catalytic and Antioxidant Activities of Zinc Oxide Nanoparticles Obtained by Green Synthesis Using Aqueous Leaves Extract of P. Austroarbica	
	<i>Faiza Ahmed Mohammed Alahdal, Mohsen Taleb Awadh Qashqoosh, Saeeda Naqvi</i>	
118	Axial Performance of Thin Walled Metallic Square Tubes under Falling Weight Indenter	
	<i>Divyanshu Bhati, Diksha Choudhary, Sanjay Kumar Tak, Garima Maharshi, Anjali Karwa</i>	
<b>TS 15: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
60	Mechanical Properties of Dental Restorative Composite Materials: A Review	
	<i>Devansh Goyal, Gautam Chaturvedi, Vishrut Mahnot, Gajendra Joshi, Sonu Saini</i>	
61	Water Canal Management System	
	<i>Pulkit Bishnoi, Prajjwal Sharma, Mugdha Sharma, Lavisha Jain, Krishan Singh, Deepak Bhatia</i>	
62	Recently Made Progress in The Shear Thickening Fluid - A Review	
	<i>Sourabh Jain, Bhagwan Singh, Manish Saini, Jatin Kumar Mahawar, Naveen Kumar Prajapat</i>	
63	On The Optimal Wear Properties of Aa6063-Sic Metal Matrix Composites	
	<i>V.Nagaraju, Chaitanya Reddy, Puneet Gurnani, Sivaram Dheeraj Vishnubhotla, T.Yeshwanth Balu</i>	
64	Mechanical Characterization of Aluminum Alloy Reinforced with Al <sub>2</sub> O <sub>3</sub> and Coconut Shell Particles Synthesized by Stir Casting	
	<i>Prashant Kumar, Bhavana Mathur, Kumar Prafull, Aman soni, Yashwant Kumar Jangid, Md. Unaiib Usmani</i>	
65	Optimal Machining Parameters of Tin And Tac Reinforced Stir Casted Vitallium Metal Matrix Composite	
	<i>Vemula Mahesh Ambica Naidu, V.Naga Raju, Yenni Manoj Dikshith, Pandi Vamsi, K. Sai Sarath</i>	
66	VIKOR And TOPSIS Methods for The Selection of All Round Excellence Award	





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	<i>Shikha Yadav, Sonia Raj Saxena, Vartika Bhardwaj, Yograj Singh</i>	
<b>TS 16: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
<b>67</b>	AI Based Motor/Water Pump Switching System	
	<i>Krishnapal Singh Rajput, Dharmendra Singh Sikarwar, Sheetal Jain, Ayan Mukharya, Krati Sabre, Deepak Batham</i>	
<b>68</b>	Wireless Charging for Electric Vehicles	
	<i>Tushar Lohia, Yash Raj, Prem Narhar Harshe, Sriramalakshmi. P</i>	
<b>75</b>	Simulation Of LR, CR Circuits with Python Codes	
	<i>Mounika Choppalli, Vedavathi aluri</i>	
<b>76</b>	A Comparative Study of Word Embeddings for Causality Detection	
	<i>Pranavi Marripudi, Amogh Saxena, Mereddy Aishwarya Reddi, Srishti Saraswat, Aruna Malapati</i>	
<b>79</b>	Electricity Production Analysis of Rooftop Solar PV System	
	<i>Ankit Kumar Tripathi, Vijay Bhuria, Saurabh Kumar Rajput, Akash Singh Bhadoria</i>	
<b>83</b>	Electric Vehicle Technology-An Overview	
	<i>Saravanan G, Harish Rao P, Akshay R, Subash K, Sriramalakshmi P</i>	
<b>84</b>	Computing Strategies Adopted to Build Trust and Assurance During Covid-19 Pandemic in E-Commerce Sector	
	<i>Sourav Mohapatra, Priti Ranjan Sahoo</i>	
<b>TS 17: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
<b>85</b>	Simulation of Liquefaction of Nitrogen Using Dwsim Software and Design of One of the Unit Operations	
	<i>Ruthu. K. S, Bhagyalakshmi. L, Sreelakshmi Diddi</i>	
<b>87</b>	Augmented Reality Survey	
	<i>Sanika Rajan Shete, Maryada Lodha</i>	
<b>88</b>	The Evolution Of Operating System - The Past, Present and Beyond!	
	<i>Kevin Joseph K</i>	
<b>89</b>	FEM Based Design of High Collision Ball Mill	
	<i>Yash Kumar Yadav, Manikandan Rajasekaran</i>	
<b>90</b>	On The Elimination of Destabilizing Motions of Guyed Offshore Wind Turbines Using Geometrical Control Mechanisms	
	<i>Neha Kumari, Manikandan Rajasekaran</i>	
<b>92</b>	Who Is Responsible for The Prolonged Use of Dark Patterns?	
	<i>Deepansha Singh, Bhakti Yadav, Samyukta Singh</i>	
<b>94</b>	Banking Operations: Understanding the Application of Parallel and Sequential Processing.	
	<i>Ronak Sharma, Ankita Chopra, Sanjeev Sexana, Navneet Joshi</i>	



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<b>125</b>	Charging Technologies for Electric Vehicles	
	<i>Dhruv Gautam, Mary Anita E A, Subhiksha M, Neil Nelson,</i>	
<b>TS 18: Emerging Technologies (Google Meet)</b>		11:00 – 12:30
<b>96</b>	Review of advancements in charging batteries of electric vehicle.	
	<i>Jhivanshu Parasar, Anupam Agarwal, Harsh Agarwal, Himanshu Jangid, Hemant Singh, Ankit Kumar Gauttam</i>	
<b>97</b>	Comparative Study of Speed Control of Brushless DC Motor	
	<i>Ikshita Trivedi, Abhishek Singh, Amit Katare, Vikram Saini, Ankit Tiwari</i>	
<b>98</b>	The Impact of Integrated Smartphone Parking Application on the Shopper's Satisfaction in the City Centre	
	<i>Haya Al Qahtani, Shubashini Rathina Velu</i>	
<b>99</b>	Porting and refactoring soft real-time systems using Design by Contract: DOOM video game example	
	<i>Ilgiz Mustafin</i>	
<b>104</b>	Review of Advancement in Electric Vehicle Technology	
	<i>Anupam Agarwal, Harshita Kumari, Kashish Sharma</i>	
<b>105</b>	Electric Vehicle control system design	
	<i>Sanskar Jangid, Harsh Sharma, Anupam Agrawal</i>	
<b>112</b>	Cloud Computing and IoT Integration : Issues, Challenges and Opportunities	
	<i>Arushi Sukhwai, Shiv Kumar Agarwal</i>	
<b>122</b>	Low-cost Housing Construction Techniques For Rural Areas.	
	<i>Deepti Choudhary, Mohit Prajapat, Jitendra Bugaliya, Lokesh Kapooriya, Mahendra Kumar</i>	
<b>Award Announcements and Valedictory Function (Webex)</b>		14:00 – 14:30



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## SCRS BEST PAPER PRESENTATION AWARD (TRACK WISE)

Soft Computing Research Society (SCRS), New Delhi, India will facilitate the awardee with a free annual SCRS membership equivalent to Rs. 1200 and an appreciation certificate.

This year the winner of the best paper presentation awards are as follows:

Track Name	Paper ID	Title	Authors
TS01: Intelligent Systems	18	Artificial Intelligence: The Future	Rohit Kumar Seth, Prachi Porwal, Prakash Dangi
TS 02: Data Analytics and Computing	309	Big Data Analytics for Smart Grid Management	Ayushi Chakrabarty, Sri Ramalakshmi P
TS 03: Communication and Control Systems	58	Design Of Compact Z Shape Slot Graphene Antenna for 2.4 Ghz Wireless Fidelity Applications	Shreya Sharad, Madhur Deo Upadhayay
TS 04: Computer Networks and Security	21	DOS & DDOS Attack	Udit Kashyap, Harsh Bhatt, Manish Kumar
TS 05: Emerging Technologies	116	A Review on Performance of Thin-Walled Metallic Tubes as Energy Absorbing Structures	Aakash Saini, Anunjay Loda, Sanjay Kumar Tak, Ayan Dev, Dipali, Bhartesh Palasiya
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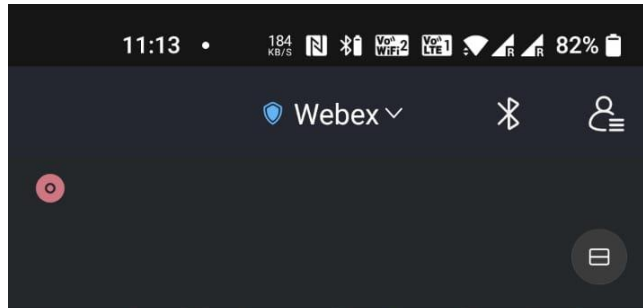


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# GLIMPSES



**International Conference of Undergraduate Students  
ICUS 2021** November 27-28, 2021

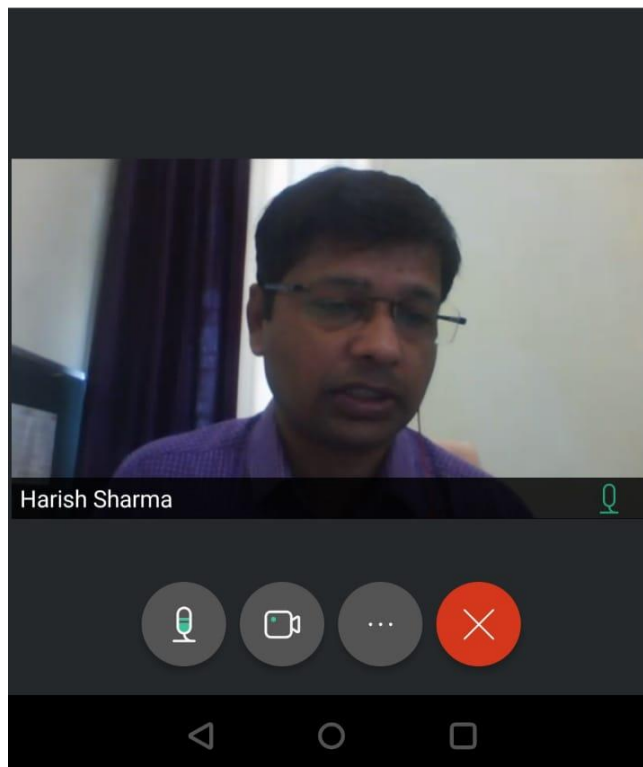
• **The conference is organised in association with 08 Partner institutes**

1. Indian Institute of Information Technology Pune
2. National Institute of Technology Delhi
3. Madhav Institute of Technology & Science Gwalior
4. Christ University Bangalore
5. BBDNIT, Lucknow, India
6. REC Sonbhadra
7. RIT, Jaipur
8. Anand International College of Engineering, Jaipur India

• **416 authors from different countries have submitted the Abstracts/Papers.**

• **18 Parallel Technical Sessions are scheduled.**

• **01 Conference Workshop on Introduction to Machine Learning and Project Development by Dr. P. S. Rana, Thapar University, Patiala**





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*M. Pandit*

**Coordinator**  
**Dr. Manjaree Pandit**  
Dean Academics

*R.K. Pandit*  
**Director**

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