



I. K. Gujral Punjab Technical University Jalandhar, Punjab, India
International Conference
on
Computing, Networks & Renewable Energy (CNRE-2021)
August 05th – 07th, 2021

About IKGPTU

IKGPTU was established in the honor to Late Sh. Inder Kumar Gujral, former Indian Prime Minister by Punjab government in 1997 to promote technical education in the state. University is creating skilled manpower for industry and academia in the region by running a number of UG, PG doctoral programmes in different streams of engineering, management, architecture, and pharmacy. At present University has 121 AICTE and 65 UGC institutes affiliated with it. IKGPTU ranked 96th in 2019 NIRF India ranking and 3rd in Punjab.

About CNRE-2021

This conference aims to provide platform to researcher, faculty members, and industry persons publish their original research in the conference proceedings. The eminent speakers will share the knowledge to the participants with the state-of-the-art work in their field of research. The objectives of this International Conference on Computing, Networks & Renewable Energy (CNRE-2021) is therefore to provide platform to Academia, Research Organizations and Industry in the form of Technical Sessions, Panel Discussions, Industry Forum, Keynote Speeches, Invited & Submitted papers, Special Sessions on Selected Topic. Since the conference aims to provide platform to present their original work, Participants would gain knowledge about the recent trends in the field aligned to the theme of conference. For more details visit: <https://conference.ptu.ac.in>

Important Dates

Regular Paper Submission:	May 15, 2021
Acceptance Notification:	May 31, 2021
Early Registration Deadline:	June 15, 2021
Camera Ready Submission:	July 30, 2021

Submission Guidelines

Prospective author(s) is/are invited to submit their original research work that has not been previously submitted or presented. Online manuscript submission through Easy Chair Conference Solution:

Easy Chair login: <https://easychair.org/cfp/cnre2021>

Conference Tracks

Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. CNRE 2021 invites academicians & researchers to submit their original contributions in the following tracks (but not limited to):

1	Soft Computing Techniques	9	Grid-Integration Renewable Energy Systems
2	Artificial Intelligence	10	Power Electronics application in Power System
3	Optical Communication Systems	11	Control & Automation Engineering
4	Application of Internet of Things	12	Power Quality & Harmonics Analysis
5	Energy Storage & Electric vehicle	13	Cloud and Mobile Computing
6	Smart/Micro Grid & DG	14	Electricity Market & Power Systems Economics
7	Deep Machine Learning	15	Hybrid and Renewable Energy Sources
8	Data Networks & Securities	16	Power System, Protection & Relaying

Registration Fees

Delegates	Early Bird (Round-1)	Regular (Round-2)
UG/PG/Ph.D. Scholars	INR 2000	INR 2500
Faculty	INR 3000	INR 4000
Industry	INR 5000	INR 6000
Without Paper	INR 1000	INR 1000
Foreign Delegates	USD 100	USD 150

A discount of 20% is admissible to all authors for 2nd and subsequent papers submission provided that they register with same author name and Email ID.

Contact

Dr. Satvir Singh

Conference Chair, CNRE-2021
Mob. No. +91-8427680001
Email ID: drsatveer.in@gmail.com

Dr. Naveen Kumar Sharma

Organizing Chair, CNRE-2021
Mob. No. +91-9882281525
Email ID: naveen31.sharma@gmail.com

CHIEF PATRON

Prof. S. K. Salwan

Chairman BOG,
IKGPTU Jalandhar, Punjab

PATRONS

Prof. Ajay Kumar Sharma

Vice-Chancellor,
IKGPTU Jalandhar, Punjab

Prof. Lalit Kumar Awasthi

Director, NIT Jalandhar

CO-PATRONS

Prof. Y. S. Brar

Dean Student Welfare

Prof. Vikas Chawla

Dean Academics

Prof. N. K. Grover

Director, Main Campus

CONFERENCE CHAIR

Dr. Satvir Singh

Deputy Dean (Engineering)

ORGANIZING CHAIR

Dr. Naveen Kumar Sharma

Department of Electrical Engineering

TECHNICAL PROGRAMME CHAIRS

Prof. J. S. Saini

Prof. Arun Khosla

TRACK CHAIRS

Heads of all Department,
IKGPTU Kapurthala



Organized by:

I. K. Gujral Punjab Technical University
Jalandhar, Main Campus, Kapurthala-
144603, Punjab, India
Website: <https://ptu.ac.in>

CNRE-2021

05th–07th August, 2021

2021 International Conference on
**COMPUTING,
NETWORKS &
RENEWABLE ENERGY**

Editors

Satvir Singh

Naveen Kumar Sharma



I.K. Gujral Punjab Technical University

Jalandhar-Kapurthala Highway, Kapurthala–144603 (Punjab) India

2021 International Conference on
**COMPUTING,
NETWORKS &
RENEWABLE ENERGY**

CNRE-2021
05th–07th August, 2021

Editors

Satvir Singh
Naveen Kumar Sharma



I.K. Gujral Punjab Technical University
Jalandhar-Kapurthala Highway, Kapurthala–144603 (Punjab) India

Edition: First, August 2021

Copyright© 2021 I.K. Gujral Punjab Technical University
Jalandhar-Kapurthala Highway
Kapurthala–144603 (Punjab) India

Title: 2021 International Conference on
Computing, Networks & Renewable Energy

Editors: Satvir Singh and Naveen Kumar Sharma

ISBN: 978-93-91355-11-1 (Paperback)

No part of this publication may be reproduced or transmitted in any form, by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owners and publishers.

DISCLAIMER

The authors are solely responsible for the contents of the papers compiled in this volume. The publishers or editors do not take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

Published by

EXCEL INDIA PUBLISHERS



91 A, Ground Floor
Pratik Market, Munirka, New Delhi–110067
Tel: +91-11-2671 1755/ 2755/ 3755/ 5755
Cell: 9899127755, 9999609755, 9910757755
Fax: +91-11-2671 6755
E-mail: publishing@groupexcelindia.com
Web: www.groupexcelindia.com

Typeset by

Excel Prepress Services, New Delhi–110 067
E-mail: production@groupexcelindia.com

Printed by

Excel Printing Universe, New Delhi–110 067
E-mail: printing@groupexcelindia.com

Preface

Participation in national and international conferences presents opportunities to teachers, students, and industry personnel to learn state-of-the-art technology from each other. I. K. Gujral Punjab Technical University, Kapurthala is also putting efforts to uplift educational standards in the region since its establishment as first technical university of Punjab state established in 1997. University's well-qualified and experienced faculty is serving our nation by producing quality engineers and researchers.

I. K. Gujral Punjab Technical University, Kapurthala is organizing an International Conference on Computing, Networks & Renewable Energy (CNRE-2021) to bring together academicians, researchers, and industry professionals to exchange and share research on various aspects of contemporary computing, renewable energy, and their applications.

During planning phase of organizing this conference we set our target to publish only 50 research papers. Every paper has been reviewed by at least two reviews and in some cases, papers were reviewed by four experts. Based on their feedback and the quality of work presented by various researchers, we decided to publish 60 papers out of 126 received research papers.

This is a small step to promote the research in the university and the state. This conference proceedings involves full paper publications with an ISBN number. Further, organizing committee has collaborated with Scopus Indexed journals to recommend selected papers for publications. In continuity, IKGPTU Kapurthala has scheduled second conference CNRE-2022 during 9–11 June 2022, in collaboration with more Scopus & SCI listed journals.

Naveen Kumar Sharma
Organizing Chair

Satvir Singh
Conference Chair

Message from Chief Guest



Prof. Lalit Kumar Awasthi

Director, Dr B R Ambedkar NIT Jalandhar
Ph.D., M.Tech., B.Tech., LMISTE, LMCSI, FIE

It's a matter of great pleasure to be a part of International Conference on Computing, Networks & Renewable Energy (CNRE-2021) being organized that I. K. Gujral Punjab Technical University, Kapurthala.

Renewable energy sources are expanding quickly but not enough to satisfy a strong global electricity demand, which resulted in a sharp rise in the use of coal power that has risks of increasing carbon dioxide emissions from the electricity to record levels in next few years. The electricity demand is set to grow by close to 5% in 2021 and 4% in 2022 according to a report. The majority of the increase is expected to come from the Asia Pacific region, primarily China and India. Therefore, emphasis has to be on new technics for generation and storage of renewable energy.

Similarly, in Computing and Networks the main emphasis has been on new technologies such as Artificial Intelligence (AI) and Machine Learning, Robotic Process Automation (RPA), Edge Computing, Quantum Computing, Virtual Reality and Augmented Reality, Blockchain, Internet of Things (IoT), 5G and Cyber Security.

It is my believe that such conferences are organized to provide a platform to researchers to present their work, interact, to learn and get motivated from each other when they come in contact with each other.

I, Professor Lalit Kumar Awasthi, Director of Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab extend my best wishes for the grand success of CNRE-2021 and hope everyone stays safe during COVID-19 pandemic.

Jai Hind!
Jai Bharat!



(Lalit Kumar Awasthi)

Message from Chairman Board of Governors



Dr. S.K. Salwan

Chairman- Board of Governor (BOG)
I.K. Gujral Punjab Technical University

It's a matter of pride that I K Gujral Punjab Technical University, Kapurthala is organizing an International Conference on the theme of "Computing, Networks & Renewable Energy" (CNRE-2021) during August 05-07, 2021. Its goal is to provide a unified platform for academicians, professionals, students, and researchers to publish their expert theoretical, technological, and multi-disciplinary studies of intelligent computing methods for various applications in the field of Electrical, Electronic Engineering, and Energy Systems. In addition, the emphasis is placed on interdisciplinary research to assist modern societies. The renowned speakers will share their research knowledge with participants, motivating and enlightening other researchers' study directions.

I, as Chairman BOG of I K Gujral Punjab Technical University extend my best wishes to the Organizing Team, delegates and participants present in the Conference CNRE-2021.



(S.K. Salwan)

Message from Vice-Chancellor



Professor Ajay Kumar Sharma

Vice-Chancellor, IKGPTU Kapurthala

Ph.D., LMISTE, LMOSA, LACSI, LMSPIE, FIETE

Former Director NIT Delhi, NIT Hamirpur & Mentor Director IIIT Una

It's a matter of proud privilege that I. K. Gujral Punjab Technical University, Kapurthala is organizing an International Conference on the theme of "Computing, Networks & Renewable Energy" (CNRE-2021) during August 05-07, 2021. This conference will provide platform to researchers, faculty members, and industry persons to present and publish their original research work in the conference proceedings. The eminent speakers will share their state-of-the-art research knowledge with participants that will further motivate and enlighten the research directions of other researchers.

I, Professor Ajay Kumar Sharma, Vice Chancellor of I. K. Gujral Punjab Technical University, Kapurthala, Punjab extend my best wishes to the organizers and participants for the grand success of CNRE-2021.



Ajay Kumar Sharma

Message from Director



Professor Vikas Chawla

Dean Academics, IKGPTU Kapurthala

Director, Main Campus Kapurthala

Ph.D., M.E., B.E., LMISTE, LMEMS, IAENG, LMPAS

I. K. Gujral Punjab Technical University, Kapurthala is organizing an International Conference on the theme of “Computing, Networks & Renewable Energy” (CNRE-2021) during August 05-07, 2021. The researchers, academicians and people from Industry will present their original research work and will share their experience in the said area of research using this platform.

I, Prof. (Dr.) Vikas Chawla, Dean (Academics) and Director (Main Campus) of I K Gujral Punjab Technical University, Kapurthala, Punjab extend my best wishes to the organizers and participants for the grand success of the CNRE-2021.

A handwritten signature in blue ink, appearing to read 'Vikas Chawla', with a horizontal line underneath.

Vikas Chawla
Director-cum-Dean Academics
IKGPTU Kapurthala

Message from Conference Chair



Dr Satvir Singh

Ph.D., M.Tech., B.Tech.
LMISTE, FIE, FIETE, IAENG

On behalf of the organizing committee of CNRE-2021, I am honored and delighted to welcome you to the 1st International Conference on Computing, Networks and Renewable Energy being organized by IKGPTU Kapurthala during August 5-7, 2021. Due to global pandemic COVID-19, we have to conduct this event in online-mode.

Originally, we had decided to publish only 50 full research papers in the conference proceeding with ISBN. After rigorous reviews by our Technical Committee recommended to publish 60 full papers in the conference proceeding out of total 126 papers received. I hereby apologize for not considering most of paper for publishing in conference proceeding; although many of them were good, but we must restrict ourselves somewhere. Every paper had been reviewed by at least two experts of the domain and in some case, there were four reviews also to ensure quality of the papers. All 60 paper have been divided into five sessions that will be chaired by eminent researchers. Most of the papers in the conference are submitted by PG and Doctoral research scholars, therefore, to encourage and guide them each technical session involves a brief talk and interactive session by a relevant domain expert.

As a conference chair of CNRE-2021, I know that the success of the conference depends ultimately on many people who have worked with us in organizing the event. We thank the Technical Committee for support and timely review of papers. Most importantly we are thankful to the GOD who energized all of us to work together in a team.



Satvir Singh
Conference Chair, CNRE-2021

Message from Organizing Chair



Dr Naveen Kumar Sharma

Ph.D., M.Tech., B.Tech.
SMIEEE, IAENG, IACSIT

It is my immense pleasure to welcome all to the International Conference on Computing, Networks & Renewable Energy (CNRE-2021) during August 05-07, 2021. Due to global pandemic COVID-19, we have to replan organization of CNRE-2021 in online virtual mode for the safety of all delegates.

Eminent speakers from India and abroad will talk about ongoing research in computational innovations and sustainable energy sources from different perspectives during various sessions of the conference. I am thankful to the university, my worthy parents, my respective teachers, my seniors, and my friends whose unconditional support helped us in making this event a grand success.

My association with CNRE-2021 as Organizing Chair is a matter of great pleasure for me and I extend my best wishes to speakers and participants for their contributions.

Naveen

Naveen Kumar Sharma
Organizing Chair, CNRE-2021

Organizing Core Committee

CHIEF PATRON	Prof. S. K. Salwan <i>Chairman BOG, IKGPTU Jalandhar, Punjab</i>
PATRONS	Prof. Ajay Kumar Sharma <i>Vice-Chancellor, IKGPTU Jalandhar, Punjab</i>
CHIEF GUEST	Prof. Lalit Kumar Awasthi <i>Director, NIT Jalandhar</i>
CO-PATRONS	Prof. Yadwinder Singh Brar <i>Dean Planning & External Affairs</i> Prof. Vikas Chawla <i>Dean Academics</i> Prof. Neel Kanth Grover <i>Dean Student Welfare</i> Prof. Gaurav Bhargav <i>Dean Research & Development</i> Prof. Harmeem Soch <i>Dean Faculty Welfare</i>
CONFERENCE CHAIR	Dr. Satvir Singh <i>Department of Electronics & Comm Engineering</i>
ORGANIZING CHAIR	Dr. Naveen Kumar Sharma <i>Department of Electrical Engineering</i>
TECHNICAL PROGRAMME CHAIRS	Prof. J. S. Saini, <i>Retired Professor EE, DCRUST Murthal, Sonapat</i> Prof. Arun Khosla <i>Professor ECE, Dr B R Ambedkar NIT Jalandhar</i>

Technical Advisory Committee

- ▶ J.S. Dhillon, SLIET, Longowal
- ▶ A.S. Arora, SLIET, Longowal
- ▶ S. Marwaha, SLIET, Longowal
- ▶ J.S. Sani, DCRUST, Sonapat
- ▶ Y.R. Sood, NIT Hamirpur
- ▶ Sushil Chauhan, NIT Hamirpur
- ▶ A.K. Chandel, NIT Hamirpur
- ▶ R.N. Sharma, NIT Hamirpur
- ▶ K.D. Singh, GNE Ludhiana
- ▶ K.R. Niazi, MNIT Jaipur, India
- ▶ Jagdish Kumar, PEC Chandigarh
- ▶ Shiv Narayan, PEC Chandigarh
- ▶ B.S. Rajpurohit IIT Mandi
- ▶ K.S. Nagla, NIT Jalandhar
- ▶ Ashwani Kumar, NIT Kurukshetra
- ▶ C.C. Reddy, IIT Roper
- ▶ Dilbag Singh, NIT Jalandhar
- ▶ A.P. Singh, SLIET, Sangrur
- ▶ Manoj Duhan, DCRUST Murthal
- ▶ Pawan Dahiya, DCRUST Murthal
- ▶ P.S. Mann, DAVIET Jalandhar
- ▶ Amit Garg, DCRUST, Sonapat
- ▶ Rajni, SBSSTC Ferozepur
- ▶ Sunny Behl, SBSSTC Ferozepur
- ▶ Vijay Banga, ACET Amritsar
- ▶ Madhusudan Singh, DTU India
- ▶ S.V. Kulkarni, IIT, Bombay, India
- ▶ N.S. Thakur, NIT Hamirpur
- ▶ Ramesh Bansal, University of Sharjah, UAE
- ▶ Nitin Kumar Upadhe, UMS, Dubai, UAE
- ▶ Carlo Cecati, University of L'Aquila, Italy
- ▶ Tarlochan Sidhu, University of Western Ontario
- ▶ Shakti Kumar, PIET Panipat
- ▶ T.S. Kamal, Retired Eminent Professor
- ▶ R.S. Kaler, TIET Patiala
- ▶ Rajesh Khanna, TIET Patiala
- ▶ Kulbir Singh, TIET Patiala
- ▶ Mamta Khosla, NIT Jalandhar
- ▶ Arun Khosla, NIT Jalandhar
- ▶ R.K. Sarin, NIT Jalandhar
- ▶ B.S. Saini, NIT Jalandhar
- ▶ Vishal Sharma, Aston University, Birmingham
- ▶ Anis Afzal, Adama Sc & Tech Univ, Ethiopia
- ▶ Amar Pal Singh, BCET Gurdaspur
- ▶ Surinder Sodhi, SLIET, Sangrur
- ▶ Anil Kumar Rose, CCET Chandigarh
- ▶ Jagroop Singh, DAVIET Jalandhar
- ▶ Vijay Sood, University of Ontario, Oshawa, Ontario
- ▶ Vikram Mutneja, SBSSTC Ferozepur
- ▶ Jaswinder Kaur, SBSSTC Ferozepur

Internal Committee

▶ Vikas Chawla	Professor, Mechanical Engineering
▶ Yadwinder Singh Brar	Professor, Electrical Engineering
▶ Neel Kanth Grover	Professor, Mechanical Engineering
▶ Monika Sachdeva	Professor, Computer Science & Engineering
▶ Amit Sarin	Professor, Physical Sciences
▶ Gaurav Bhargava	Professor, Chemical Sciences
▶ Ashish Arora	Professor Mathematical Sciences
▶ Harmeen Soch	Professor Management Studies
▶ Prabhjot Kaur	Professor Architecture Department
▶ Rajneesh Kanth Sachdeva	Associate Professor, Food Science & Technology
▶ Avtar Singh Buttar	Associate Professor, Electronics & Comm. Engineering
▶ Reetipal Singh	Associate Professor, Electrical Engineering
▶ Gagandeep Kaur	Associate Professor, Electrical Engineering
▶ Rajiv Chauhan	Associate Professor, Civil Engineering
▶ Satvir Singh	Associate Professor, Electronics & Comm. Engineering
▶ Hitesh Sharma	Associate Professor, Physical Sciences
▶ Ranbir Singh	Associate Professor, Journalism & Mass Comm.
▶ Chander Parkash	Associate Professor, Chemical Sciences
▶ Ranbir Singh	Associate Professor, Journalism & Mass Communic
▶ Ekta Mahajn	Assistant Professor, Journalism & Mass Communic
▶ Rakesh Goyal	Assistant Professor, Electronics & Comm. Engineering
▶ Dalveer Kaur	Assistant Professor, Electronics & Comm. Engineering
▶ Amit Gupta	Assistant Professor, Electronics & Comm. Engineering
▶ Rakesh Kumar	Assistant Professor, Electronics & Comm. Engineering
▶ Raman Kumar	Assistant Professor, Computer Science & Engineering
▶ Pooja Sharma	Assistant Professor, Computer Science & Engineering
▶ Anshu Bhasin	Assistant Professor, Computer Science & Engineering
▶ Dinesh Gupta	Assistant Professor, Computer Science & Engineering
▶ Vipul Sharma	Assistant Professor, Computer Science & Engineering
▶ Neeraj Mohan	Assistant Professor, Computer Science & Engineering
▶ Brijesh Bakariya	Assistant Professor, Computer Science & Engineering
▶ Maninder Kaur	Assistant Professor, Physical Sciences
▶ Varinderjit Singh	Assistant Professor, Physical Sciences
▶ Neetika	Assistant Professor, Physical Sciences
▶ Rupesh Kumar	Assistant Professor, Chemical Sciences
▶ Roopa	Assistant Professor, Chemical Sciences
▶ Reshu Sanan	Assistant Professor, Chemical Sciences
▶ Vandana Naithani	Assistant Professor, Chemical Sciences
▶ Jujhar Singh	Assistant Professor, Mechanical Engineering
▶ Amoljit Singh Gill	Assistant Professor, Mechanical Engineering

▶ Manoj Mittal	Assistant Professor, Mechanical Engineering
▶ Vivek Aggarwal	Assistant Professor, Mechanical Engineering
▶ Amit Handa	Assistant Professor, Mechanical Engineering
▶ Deepak Goyal	Assistant Professor, Mechanical Engineering
▶ Amit Bansal	Assistant Professor, Mechanical Engineering
▶ Sukhminderbir Singh Kalsi	Assistant Professor, Mechanical Engineering
▶ Prabhkiran Kaur	Assistant Professor, Mechanical Engineering
▶ Tarun Goyal	Assistant Professor, Mechanical Engineering
▶ Sunil Kumar	Assistant Professor, Mechanical Engineering
▶ Sonu Bala Garg	Assistant Professor, Mechanical Engineering
▶ Shashi Bahl	Assistant Professor, Mechanical Engineering
▶ Md. Fuzail Jawaid	Assistant Professor, Civil Engineering
▶ Neeru Singla	Assistant Professor, Civil Engineering
▶ Damandeep Kaur	Assistant Professor, Civil Engineering
▶ Rinku Walia	Assistant Professor, Civil Engineering
▶ Mukta Sharma	Assistant Professor Architecture Department
▶ Gurkirpal Singh	Assistant Professor Architecture Department
▶ Barinderjit Singh	Assistant Professor, Food Science & Technology
▶ Shabir Sidhu	Assistant Professor, Food Science & Technology
▶ Gazal Sharma	Assistant Professor, Food Science & Technology
▶ Deepika Bhalla	Assistant Professor, Electrical Engineering
▶ Akhil Gupta	Assistant Professor, Electrical Engineering
▶ Naveen Kumar Sharma	Assistant Professor, Electrical Engineering
▶ Megha Goel	Assistant Professor, Mathematical Sciences
▶ Rajesh Narula	Assistant Professor, Mathematical Sciences
▶ Gurjinder Singh	Assistant Professor, Mathematical Sciences
▶ Vikramjeet Singh	Assistant Professor, Mathematical Sciences
▶ Kulwinder Singh Parmar	Assistant Professor, Mathematical Sciences
▶ Harpreet Kaur	Assistant Professor, Mathematical Sciences
▶ Kapil Gupta	Assistant Professor Management Studies
▶ Mandeep Kaur	Assistant Professor Management Studies
▶ Supriya Behl	Assistant Professor Management Studies
▶ Sanjeev Kumar Bansal	Assistant Professor Management Studies
▶ Pooja Mehta	Assistant Professor Management Studies
▶ Roopali Batra	Assistant Professor Management Studies
▶ Rajpreet Kaur	Assistant Professor Management Studies
▶ Sarabjit Singh Mann	Assistant Professor Hum., Languages & Cultural Studies
▶ Priyanka Mahajan	Assistant Professor Hum., Languages & Cultural Studies
▶ Deepak Sidhna	Programmer, Computer Section
▶ Ankit Kapila	Programmer, Computer Section

Contents

* Preface	iii
* Messages	iv
* Organizing Core Committee	x
* Technical Advisory Committee	xi
* Internal Committee	xii

1. The Fusion of Features to Improve Spam E-mail Classification <i>Pramod Prakash Ghogare, Manoj P. Patil</i>	1
2. Generation of Donor List From Internet Based Shopping Using Machine Learning Approach <i>Kamini, Shakti Kundu, Ravinder Singh</i>	8
3. Different Optical Filtration with DQPSK-NRZ Scheme Under Impact of Weather for 5G Optical Communication Systems <i>Sagandeep Kour, Monika Mehra</i>	12
4. Acoustic Effect Generator with Graphical User Interface: A Simulation Model <i>Bharat Bhushan Sharma, Naveen Kumar Sharma, Anuj Banshwar</i>	19
5. Efficient Pattern Mining Algorithms: A Study <i>Amit Verma, Raman Kumar</i>	22
6. Detection and Classification of Faults in High Voltage Transmission Line using Artificial Neural Network <i>Olena Rubanenko, Naveen Kumar Sharma, Mohit Bajaj</i>	28
7. A Fuzzy Algorithm Based Photovoltaic System Fed Novel Three Phase Boost Inverter <i>Lakshmi Sirisha Simhadri, Subba Rao Mopidevi</i>	36
8. Reviewing the Influence of Recycled Plastic in Construction Industry <i>Manisha Sharma, Tanpreet Singh, Jaspal Singh, Sahibdeep Singh Setia</i>	43
9. Influence of Nano-Metakaolin Proportions on the Strength Performance of Fly Ash Based Geopolymer Mortar <i>Jaspal Singh, Mandeep kaur</i>	47
10. Sustainable Use of Corn Cob Ash in Metakaolin Based Geopolymer as a Partial Replacement for Metakaolin; <i>Panwardeep Kaur, Jaspal Singh, Ritesh Jain, Sarvesh Kumar</i>	53
11. Control of Market Power Using Demand Responsiveness in Congested Restructured Power System Networks <i>Anupam Mittal, Kanwardeep Singh</i>	58
12. Dissimilar Technologies for the Prognosis of Cardiovascular Diseases: A Review <i>Monika Gupta, Harsh Sadawarti</i>	64
13. Agriculture Automation Using Machine Learning: A Review <i>Randeep Kaur, Harmeet Singh</i>	69
14. An Introduction to Engineered Cementitious Composites: A Review <i>Maninder Singh, Jagpreet Singh, Kunal Jain</i>	76
15. Static and Dynamic Analysis of Multi-Story Building with Floating Column & their Buckling Behaviour <i>Gurpal Singh, Rajiv Chauhan, Rinku Walia</i>	82

Contents

16. Load Forecasting Using Artificial Intelligence Neural Technique <i>Parminder Singh, Kanwardeep Singh</i>	90
17. Utilization of Plastic in the Construction of Flexible Pavements <i>Maninder Singh, Harwinder Singh, Sushil Kumar Singh</i>	96
18. Reduced Switch Count Photo Voltaic Array Integrated Novel Multi-Level Inverter Topology <i>Nitesh Prakash, Prerna Gaur</i>	101
19. A Review: Palisades to Extensive Rooftop Solar PV in India <i>Akash Kumar, Rajakumar Sakile, Umesh Kumar Sinha</i>	107
20. Analysis of SVM and RNN-LSTM on Crop Datasets <i>Kusum Lata, Sajidullah S. Khan, Onkar Kemkar</i>	112
21. Congestion Management with Feasible Placing of Distributed Generators <i>Sumit Sharma, Yog Raj Sood, Naveen Kumar Sharma, Ankur Maheshwari</i>	118
22. Competitive Evolution of Indian Power Sector <i>Anuj Banshwar, Naveen Kumar Sharma, Bharat Bhushan Sharma, Jasmine Kaur Saini, Sujit Kumar</i>	123
23. Technological Breakthrough of Artificial Intelligence for Industry 4.0 <i>Sujit Kumar, Anuj Banshwar, Naveen Kumar Sharma, Bharat Bhushan Sharma, Mohit Pathak</i>	128
24. Mobile Sensor Behaviour for Human activity recognition using Deep Convolution Neural Network <i>Neeraj Varshney, Brijesh Bakariya, Alok Kumar Singh Kushwaha</i>	132
25. Challenges, Impacts of Restructured Power System <i>Vodapalli Prakash</i>	136
26. Improved Hybrid UPQC Performance with Fuel Cell and Photovoltaic–Battery Unit <i>Vodapalli Prakash</i>	139
27. Nanotechnology: An Advanced Resolution to Energy Sector Glitches for Emerging Countries <i>Sujit Kumar, Anuj Banshwar, Naveen Kumar Sharma, Bharat Bhushan Sharma, Mohit Pathak</i>	143
28. Optimization and Techno-Economic Analysis of a Sustainable Microgrid Providing Back-up Power to a Hospital: A Case Study in Jammu & Kashmir <i>Taniya Manzoor, Preetinder Singh</i>	148
29. Utilization of Sunflower Husk Ash in Concrete: A Sustainable Option <i>Sunita Kumari, Rinku Walia, Rajiv Chauhan</i>	152
30. Develop Cloud Information Safety with Steganography Method <i>Tejinder Pal Singh Brar, Ravi Kumar Sharma</i>	157
31. Bandwidth Enhancement of Star-Shaped Fractal Antenna in X-band <i>Shally Gujral, Kamaljeet Singh Bhatia, Harjitpal Singh, Harsimrat Kaur, Nancy Gupta</i>	163
32. Refinement in the Characteristics of Microstrip Patch Antenna Using Newly Composed Ferrite Material <i>Monika Rani, Kamaljeet S. Bhatia, Harjitpal Singh, Harsimrat Kaur, Nancy Gupta</i>	169
33. A Review on Policies and Challenges Faced in Solar Photo Voltaic Technology: Indian Perspective <i>Jasmine Kaur, Rahul Prashar, Naveen Kumar Sharma, Anuj Banshwar</i>	173
34. Scrutinizing and Instigating Data Mining on Unstructured Data Pertinent to Indian Cinema <i>Jaswinder Kaur, Dinesh Kumar</i>	176

Contents

35. Evaluating Objective Value Variance and Search Position Variance using Diverse Objective Functions in PSO <i>Rajbhupinder Kaur, Deepak Kumar, Bal Krishan</i>	187
36. Experimental Evaluation of Influence of Fly Ash in Bituminous Mixtures <i>Amit Kumar Yadav, Manish Kumar, Akhilesh Kumar</i>	196
37. Energy Efficiency a Way of Life <i>Gurkirpal Singh</i>	201
38. Proposing and Evaluating the Performance of PSO Intended to Minimize the Best Cost and Energy Consumption <i>Geetu Anand Sharma</i>	205
39. Periocular Biometric Recognition Using Neural Network <i>Nidhi Gera, P C Gupta</i>	216
40. A Comprehensive Review on Internet of Things (IoT) <i>Pawan Kumar, Satvir Singh, Lavish Kansal</i>	222
41. Home Energy Management System Using Whale Optimization Algorithm <i>Mandeep Kaur, Karanbir Singh</i>	228
42. Performance Analysis of D-STATCOM and UPQC in Distribution System <i>Manpreet, Tejinder Singh Saggu</i>	234
43. Reconfiguration of Power Distribution Systems Considering Reliability and Losses using BAT Algorithm <i>Nishant Negi, Manpreet</i>	241
44. Execution of OCR for Comparative Determination of Text from Images for Serif and Sans Serif Typefaces <i>Sukhpreet Kaur Gagandeep Jagdev</i>	245
45. Estimation of Minimum Cost of Providing Energy for a Rural Microgrid Using Monte <i>Yuvraj Praveen Soni, E. Fernandez</i>	253
46. Mathematical Modeling of Nonholonomic Vehicle's Autonomous Navigation Using Fuzzy Logic <i>Vikram Mutneja, Satvir Singh</i>	256
47. IoT Based Battery Management System for Electric Vehicles Using LoRaWAN: A Review <i>Dayal Chandra Sati, Satvir Singh</i>	261
48. Replacement of Conventional Batteries with Supercapacitors in Energy Harvesting Systems <i>Meenakshi Sansoy, Avtar Singh Buttar, Rakesh Goyal</i>	265
49. Emphasize the Performance of Multi Area AGC in Deregulated Environment Tuned with PI using BFO <i>Asha Rani, Raman Kamboj, Sunil Kumar</i>	270
50. Over Voltage and Under Voltage Load Protection using GSM Alert <i>Mohit Pathak, Anuj Banshwar, Naveen Kumar Sharma, Bharat Bhushan Sharma, Sujit Kumar</i>	276
51. A Review on Soft Computing Techniques <i>Mandeep Kaur, Amit Gupta</i>	279
52. Optimal Design of Grid-Tied Solar Electric Vehicle Charging Station Using HOMER GRID <i>Kritika Verma, Shashi Bhushan Singh</i>	284

Contents

53. Sustainable HealthCare Facility Design for COVID Treatment <i>Bharat Bhushan Sharma, Raj Kumar Sharma, Naveen Kumar Sharma, Anuj Banshwar, Sujit Kumar</i>	288
54. Free Space Optics Performance Analysis Under 8dBm Impact of Power In Spatial CW Laser and Attenuation 2dB/Km in FSO Channel on Various Atmospheric Effects <i>Zahid Fazal Choudhary, Rakesh Goyal, Amit Gupta, Monika Rani</i>	292
55. Effects of Noise or Without Noise on Inter-Satellite Optical Wireless Communication System <i>Sonali Sangral, Rakesh Goyal, Amit Gupta, Monika Rani</i>	297
56. Effect of Noise on the Performance of SCM Radio Over Fiber System <i>Rabia Kousar, Rakesh Goyal, Gupta, Monika Rani</i>	302
57. A Survey of NOMA with Future Trends and Challenges: 5G <i>Rajwinder Singh, Hardeep Kaur</i>	307
58. Scheduling Algorithms for WDM Optical Networks <i>Subodh Bansal, Amit Gupta, Amit Kumar Garg</i>	313
59. Cabin Flow Modulation for Cockpit Noise Reduction on a Fighter Platform <i>A. Arunachaleswaran, S. Gunasekaran, K S Chowhan, Rahul Agrawal, Sankaraiah Mada, S. Elangovan, M. Sundararaj</i>	316
60. Integration of PSO with LSTM to Enhance Accuracy of Movie Recommendation System <i>Dhiraj Khurana, Himanshu</i>	323

Author Index

- A**grawal, Rahul, 316
Arunachaleswaran, A., 316
- B**ajaj, Mohit, 28
Bakariya, Brijesh, 132
Bansal, Subodh, 313
Banshwar, Anuj, 19, 123, 128, 143, 173, 276, 288
Bhatia, Kamaljeet S., 163, 169
Brar, Tejinder Pal Singh, 157
Buttar, Avtar Singh, 265
- C**haohan, Rajiv, 82, 152
Choudhary, Zahid Fazal, 292
Chowhan, K S, 316
- E**langovan, S., 316
- F**ernandez, E., 253
- G**arg, Amit Kumar, 313
Gaur, Purna, 101
Geetu, 205
Gera, Nidhi, 216
Ghogare, Pramod Prakash, 1
Goyal, Rakesh, 265, 292, 297, 302
Gujral, Shally, 163
Gunasekaran, S., 316
Gupta, Amit, 279, 292, 297, 302, 313
Gupta, Monika, 64
Gupta, Nancy, 163, 169
Gupta, P C, 216
- H**arsh, Sadawarti, 64
Himanshu, 323
- J**agdev, Gagandeep, 245
Jain, Kunal, 76
Jain, Ritesh, 53
- K**amboj, Raman, 270
Kamini, 8
Kansal, Lavish, 222
Kaur, Hardeep, 307
Kaur, Harsimrat, 163, 169
Kaur, Jasmine, 173
Kaur, Jaswinder, 176
Kaur, Mandeep, 47, 228, 279
Kaur, Panwardeep, 53
Kaur, Rajbhupinder, 187
Kaur, Randeep, 69
Kaur, Sukhpreet, 245
Kemkar, Onkar, 112
Khan, Sajidullah S., 112
Khurana, Dhiraj, 323
Kour, Sagandeep, 12
Kousar, Rabia, 302
Krishan, Bal, 187
Kumar, Akash, 107
Kumar, Akhilesh, 196
Kumar, Deepak, 187
Kumar, Dinesh, 176
Kumar, Manish, 196
Kumar, Pawan, 222
Kumar, Raman, 22
Kumar, Sarvesh, 53
Kumar, Sujit, 123, 128, 143, 276, 288
Kumar, Sunil, 270
Kumari, Sunita, 152
Kundu, Shakti, 8
Kushwaha, Alok Kumar Singh, 132
- L**ata, Kusum, 112
- M**ada, Sankaraiah, 316
Maheshwari, Ankur, 118
Manpreet, 234, 241
Manzoor, Taniya, 148
Mehra, Monika, 12
Mittal, Anupam, 58
Mopidevi, Subba Rao, 36
Mutneja, Vikram, 256
- N**egi, Nishant, 241
- P**athak, Mohit, 128, 143, 276
Patil, Manoj P., 1
Prakash, Nitesh, 101
Prakash, Vodapalli, 136, 139
Prashar, Rahul, 173
- R**ani, Asha, 270
Rani, Monika, 169, 292, 297, 302
Rubanenko, Olena, 28
- S**aggu, Tejinder Singh, 234
Saini, Jasmine Kaur, 123
Sakile, Rajakumar, 107
Sangral, Sonali, 297
Sansoy, Meenakshi, 265
Sati, Dayal Chandra, 261
Setia, Sahibdeep Singh, 43
Sharma, Anand, 205
Sharma, Bharat Bhushan, 19, 123, 128, 143, 276, 288
Sharma, Manisha, 43

-
- Sharma, Naveen Kumar, 19, 28, 118, 123, 128, 143, 173, 276, 288
Sharma, Ravi Kumar, 157, 288
Sharma, Sumita, 118
Simhadri, Lakshmi Sirisha, 36
Singh, Gurkirpal, 201
Singh, Gurpal, 82
Singh, Harjitpal, 163, 169
Singh, Harmeet, 69
Singh, Harwinder, 96
Singh, Jagpreet, 76
Singh, Jaspal, 43, 47, 53
Singh, Kanwardeep, 58, 90
Singh, Karanbir, 228
Singh, Maninder, 76, 96
Singh, Parminder, 90
Singh, Preetinder, 148
Singh, Rajwinder, 307
Singh, Ravinder, 8
Singh, Satvir, 222, 256, 261
Singh, Shashi Bhushan, 284
Singh, Sushil Kumar, 96
Sinha, Umesh Kumar, 107
Soni, Yuvraj Praveen, 253
Sood, Yog Raj, 118
Sundararaj, M., 316
- T**anpreet Singh, 43
- V**arshney, Neeraj, 132
Verma, Amit, 22
Verma, Kritika, 284
- W**alia, Rinku, 82, 152
- Y**adav, Amit Kumar, 196



About IKGPTU

IKGPTU was established in the honor to Late Sh. Inder Kumar Gujral, former Indian Prime Minister by Punjab government in 1997 to promote technical education in the state. University is creating skilled manpower for industry and academia in the region by running a number of UG, PG doctoral programmes in different streams of engineering, management, architecture, and pharmacy. At present University has 121 AICTE and 65 UGC institutes affiliated with it. IKGPTU ranked 96th in 2019 NIRF India ranking and 3rd in Punjab.

About CNRE-2021

This conference aims to provide platform to researcher, faculty members, and industry persons publish their original research in the conference proceedings. The eminent speakers will share the knowledge to the participants with the state-of-the-art work in their field of research. The objectives of this International Conference on Computing, Networks & Renewable Energy (CNRE-2021) is therefore to provide platform to Academia, Research Organizations and Industry in the form of Technical Sessions, Panel Discussions, Industry Forum, Keynote Speeches, Invited & Submitted papers, Special Sessions on Selected Topic. Since the conference aims to provide platform to present their original work, Participants would gain knowledge about the recent trends in the field aligned to the theme of conference.

For more details visit: <https://conference.ptu.ac.in>



Excel
INDIA PUBLISHERS

EXCEL INDIA PUBLISHERS

91 A, Ground Floor, Pratik Market, Munirka, New Delhi-110067

Call: +91-11-2671 1755/ 2755/ 3755/ 5755 • Fax: 011-2671 6755

Cell: +9899127755/ 9999609755/ 9910757755

e-mail: publishing@grouppexcelindia.com • Web: www.grouppexcelindia.com





I. K. Gujral Punjab Technical University Jalandhar, Punjab, India

Scopus Index International Conference

on

Computing, Networks & Renewable Energy (CNRE-2022)

June 09th – 11th, 2022



CHIEF PATRON

Chairman BOG,
IKGPTU Jalandhar, Punjab
PATRONS

Vice-Chancellor,
IKGPTU Jalandhar, Punjab

Director, NIT Jalandhar

CO-PATRONS

Prof. Vikas Chawla
Dean Academics

Prof. R. P. S. Bedi
Dean Research & Development

Prof. Neel Kanth Grover
Dean Student Welfare

Prof. Harmeen Soch
Director IQAC

Prof. Yadwinder Singh Brar
Dean Planning & External Affairs

CONFERENCE CHAIR

Dr. Satvir Singh
Deputy Dean (Engineering)

ORGANIZING CHAIR

Dr. Naveen Kumar Sharma
Department of Electrical
Engineering

TECHNICAL PROGRAMME CHAIRS

Prof. J. S. Saini
Prof. Arun Khosla

TRACK CHAIRS

Heads of all Department,
IKGPTU Kapurthala



Organized by:

I. K. Gujral Punjab Technical
University Jalandhar, Main
Campus, Kapurthala-144603,
Punjab, India
Website: <https://ptu.ac.in>

About IKGPTU

IKGPTU was established in the honor to Late Sh. Inder Kumar Gujral, former Indian Prime Minister by Punjab government in 1997 to promote technical education in the state. University is creating skilled manpower for industry and academia in the region by running a number of UG, PG doctoral programmes in different streams of engineering, management, architecture, and pharmacy. At present University has 121 AICTE and 65 UGC institutes affiliated with it. IKGPTU ranked 104th in 2020 NIRF India ranking.

About CNRE-2022

This conference aims to provide platform to researcher, faculty members, and industry persons publish their original research in the conference proceedings. The eminent speakers will share the knowledge to the participants with the state-of-the-art work in their field of research. The objectives of this International Conference on Computing, Networks & Renewable Energy (CNRE-2022) is therefore to provide platform to Academia, Research Organizations and Industry.

The Objective of knowledge sharing shall be achieved through:

1. Technical & Panel Discussions
2. Interaction with Industries Experts
3. Keynote Speeches & Paper Presentations
4. Technical and Poster Sessions
5. Special Sessions on Selected Topics

For more details visit: <https://cnre2022.ptu.ac.in>

Important Dates

Regular Paper Submission:	March 31, 2022
Acceptance Notification:	April 15, 2022
Registration Deadline:	April 30, 2022
Camera Ready Submission:	May 15, 2022

Submission Guidelines

Prospective author(s) is/are invited to submit their original research work that has not been previously submitted or presented. Online manuscript submission through Easy Chair Conference Solution:

Easy Chair login: <https://easychair.org/conferences/?conf=cnre2022>

Conference Tracks

Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. CNRE 2022 invites academicians & researchers to submit their original contributions in the following tracks (but not limited to):

1	Soft Computing Techniques	9	Grid-Integration Renewable Energy Systems
2	Artificial Intelligence	10	Power Electronics application in Power System
3	Optical Communication Systems	11	Control & Automation Engineering
4	Application of Internet of Things	12	Power Quality & Harmonics Analysis
5	Energy Storage & Electric vehicle	13	Cloud and Mobile Computing
6	Smart/Micro Grid & DG	14	Electricity Market & Power Systems Economics
7	Deep Machine Learning	15	Hybrid and Renewable Energy Sources
8	Data Networks & Securities	16	Power System, Protection & Relaying

Registration Fees

Delegates	On-line Mode		Off-line Mode	
	Only presentation	Presentation and Publication with AIP Proceedings	Only presentation	Presentation and Publication with AIP Proceedings
UG/PG/Ph.D. Scholars	INR 1000	INR 7500	INR 3000	INR 9500
Faculty	INR 2000	INR 8500	INR 5000	INR 11000
Industry	INR 4000	INR 10000	INR 6000	INR 12000
Foreign Delegates	USD 100	USD 150	USD 150	USD 200

*The registration fee (off-line mode) includes entry to all session, conference kit, tea/snacks and lunch on June 09-11, 2022.

Contact

Dr. Satvir Singh
Conference Chair, CNRE-2022
Mob. No. +91-8427680001
Email ID: drsatveer.in@gmail.com

Dr. Naveen Kumar Sharma
Organizing Chair, CNRE-2022
Mob. No. +91-9882281525
Email ID: naveen31.sharma@gmail.com

pragya verma is presenting

Session 4

Differently expressed genes interactomics study shows dopaminergic and glutamatergic synapse association in cases of depression using RNA-Seq

Author Name : Pragya Verma,
Dr. Madhvi Shakya
Paper ID : 37

Presented by : Pragya Verma
Paper ID : 37
Affiliation: Ph.D. scholar
Department of Bioinformatics,
MANIT Bhopal

**2nd International Conference on
Computing, Networks & Renewable Energy (CNRE-2022)**

pragya verma

Dr. Ramana Kumar

Sachin Mishra

Mahiraj Singh Rawat

Sandeep Gupta

Sowmya G S

Anuj Banswar

2 others

You

Srikanth Goud D has left the meeting

Dr. Preeti SVSU

kamal singh

KONDREDDY SIVAKUMAR mIQD...

vijaypsingh vijaysingh

Naveen Sharma

Pooja Mallam

Gagneet Kour

Sandeep Thakur

Priyanka jangid

Dr. P S Mann

People

Add people

In call

- Naveen Sharma (You) Meeting host
- Dr. P S Mann
- Dr. Preeti SVSU
- Gagneet Kour
- kamal singh
- KONDREDDY SIVAKUMAR...
- Naveen Sharma Meeting host
- Pooja Mallam

ਪੀ.ਟੀ.ਯੂ. 'ਚ ਕਰਵਾਈ ਗਈ ਦੂਜੀ ਇੰਟਰਨੈਸ਼ਨਲ ਕਾਨਫਰੰਸ, 160 ਤੋਂ ਵੱਧ ਵਿਦਵਾਨਾਂ ਦੇ ਪੇਪਰ ਆਨਲਾਈਨ ਪ੍ਰਾਪਤ ਹੋਏ

ਕਪੂਰਥਲਾ, 18 ਜੂਨ (ਵਿਸ਼ੇਸ਼ ਪ੍ਰਤੀਨਿਧ) - ਤਕਨੀਕ ਦੇ ਯੁੱਗ 'ਚ ਵਿਦਿਆਰਥੀਆਂ ਤੇ ਅਧਿਆਪਕਾਂ ਦਾ ਹਰ ਦਿਨ ਨਵੀਂ ਜਾਣਕਾਰੀ ਨਾਲ ਭਰਪੂਰ ਹੋਣਾ ਲਾਜ਼ਮੀ ਹੈ। ਲੋੜ ਹੁਣ ਨਾ ਕੇਵਲ ਆਪਣੇ ਨਾਲ ਸਬੰਧਿਤ ਖੋਜ ਕਾਰਜਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣ ਦੀ ਹੈ ਸਗੋਂ ਵਰਤਮਾਨ ਵਿਚ ਅਤਿ ਜ਼ਰੂਰੀ ਹੋ ਗਿਆ ਹੈ ਕਿ ਅੰਤਰਰਾਸ਼ਟਰੀ ਪੱਧਰ 'ਤੇ ਵਿਸ਼ੇ ਨਾਲ ਸਬੰਧਿਤ ਨਵਾਂ ਕੀ ਹੋ ਰਿਹਾ ਹੈ। ਇਨ੍ਹਾਂ ਵਿਚਾਰਾਂ ਦਾ ਪ੍ਰਗਟਾਵਾ ਰਾਹੁਲ ਭੇਡਾਰੀ ਆਈ.ਏ.ਐਸ. ਉਪ ਕੁਲਪਤੀ ਆਈ.ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਤਕਨੀਕੀ ਯੂਨੀਵਰਸਿਟੀ ਨੇ ਯੂਨੀਵਰਸਿਟੀ ਵਲੋਂ ਕਰਵਾਈ ਦੂਜੀ ਇੰਟਰਨੈਸ਼ਨਲ ਕਾਨਫਰੰਸ (ਸੀ. ਐਨ. ਆਰ. ਈ.- 2022) ਦੀ ਸਮਾਪਤੀ 'ਤੇ ਕਾਨਫਰੰਸ ਵਿਚ ਭਾਗ ਲੈਣ ਵਾਲੇ ਵਿਦਵਾਨਾਂ ਨੂੰ ਸੰਬੋਧਨ ਕਰਦਿਆਂ ਕੀਤਾ। ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਹੁਣ ਉਹ ਸਮਾਂ ਦੂਰ ਨਹੀਂ ਜਦੋਂ ਅਜਿਹੀਆਂ ਇੰਟਰਨੈਸ਼ਨਲ ਕਾਨਫਰੰਸਾਂ ਰਾਹੀਂ ਪੰਜਾਬ ਵਿਚ ਰਹਿ ਕੇ ਅੰਤਰਰਾਸ਼ਟਰੀ ਪੜ੍ਹਾਈ ਵਿਚ ਖੋਜਾਂ ਕਰਨ ਦੇ ਮੌਕੇ ਮਿਲਣਗੇ। ਆਨਲਾਈਨ ਮੋਡ ਜਰੀਏ ਹੋਈ ਕਾਨਫਰੰਸ ਵਿਚ 'ਕੰਪਿਊਟਿੰਗ ਨੈੱਟਵਰਕ ਤੇ ਨਵੀਨੀਕਰਨ ਉਰਜਾ' ਵਿਸ਼ੇ 'ਤੇ ਆਈ. ਆਈ. ਟੀ., ਐਨ. ਆਈ. ਟੀ., ਵਿਦੇਸ਼ੀ ਯੂਨੀਵਰਸਿਟੀਆਂ ਤੇ ਕਾਲਜਾਂ ਦੇ ਫੈਕਲਟੀ ਮੈਂਬਰਾਂ ਤੇ ਹੋਰ ਵਿੱਦਿਅਕ ਅਦਾਰਿਆਂ ਦੇ ਵਿਦਵਾਨਾਂ ਦੇ 160 ਤੋਂ ਵੱਧ ਪੇਪਰ ਆਨਲਾਈਨ ਪ੍ਰਾਪਤ ਹੋਏ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ

ਅਮਰੀਕਨ ਇਸਟੀਚਿਊਟਸ ਆਫ ਫਿਜ਼ਿਕਸ ਨਾਲ ਸਕੋਪ ਇੰਡੇਕਸੇਡ ਕਾਨਫਰੰਸ ਪ੍ਰੋਸੀਡਿੰਗ ਵਿਚ ਪ੍ਰਕਾਸ਼ਨ ਲਈ ਕੇਵਲ 33 ਉੱਚ ਗੁਣਵੱਤਾ ਵਾਲੇ ਖੋਜ ਪੱਤਰ ਸਵੀਕਾਰ ਕੀਤੇ ਗਏ। ਇਸ ਮੌਕੇ ਡਾ: ਸਤਬੀਰ ਸਿੰਘ ਤੇ ਡਾ: ਨਵੀਨ ਕੁਮਾਰ ਸ਼ਰਮਾ ਨੇ ਕਿਹਾ ਕਿ ਕਾਨਫਰੰਸ ਵਿਚ ਪ੍ਰਾਪਤ ਹੋਏ ਖੋਜ ਪੱਤਰਾਂ ਦੀ ਵੱਖ-ਵੱਖ ਤਿੰਨ ਪੜਾਵਾਂ ਵਿਚ ਜਾਂਚ ਤੇ ਸਮੀਖਿਆ ਕੀਤੀ ਗਈ। ਕਾਨਫਰੰਸ ਨੂੰ ਯੂ. ਪੀ. ਟੀ. ਯੂ. ਲਖਨਊ ਤੋਂ ਭਾਰਤ ਭੂਸ਼ਣ ਸ਼ਰਮਾ, ਅਨੁਜ ਵੇਸ਼ਵਾਰ, ਡਾ: ਸੁਰਜੀਤ ਕੁਮਾਰ ਜੈਨ ਡੀਮੰਡ ਟੂ.ਬੀ. ਯੂਨੀਵਰਸਿਟੀ ਜੀ. ਟੀ. ਯੂ.

ਅਹਿਮਦਾਬਾਦ ਤੇ ਜੀ. ਜੇ. ਯੂ. ਹਿਸਾਰ ਤੋਂ ਡਾ: ਪਲਵਿੰਦਰ ਸਿੰਘ ਮਾਨ, ਡਾ: ਵਿਜੇ ਪਾਲ ਸਿੰਘ, ਪੀ.ਟੀ.ਯੂ. ਤੋਂ ਰਜੀਵ ਚੌਹਾਨ ਨੇ ਆਪਣੇ ਵਿਚਾਰਾਂ ਦਾ ਵਿਸਥਾਰਪੂਰਵਕ ਖੁਲਾਸਾ ਕੀਤਾ। ਯੂਨੀਵਰਸਿਟੀ ਦੇ ਡੀਨ ਅਕਾਦਮਿਕ ਪ੍ਰੋਫੈਸਰ ਵਿਕਾਸ ਚਾਵਲਾ ਨੇ ਦੱਸਿਆ ਕਿ ਖੋਜਕਰਤਾਵਾਂ ਦੁਆਰਾ 58 ਪੇਪਰ ਆਨਲਾਈਨ ਜਮਾਂ ਕੀਤੇ ਗਏ ਹਨ। ਇਸੇ ਦੌਰਾਨ ਡਾ: ਸਤਬੀਰ ਸਿੰਘ ਨੇ ਦੱਸਿਆ ਕਿ ਯੂਨੀਵਰਸਿਟੀ ਵਿਚ 22 ਤੋਂ 24 ਜੂਨ ਤੱਕ ਸੀ. ਐਨ. ਆਰ. ਈ. 2023 ਵਿਸ਼ੇ 'ਤੇ ਤੀਜੀ ਅੰਤਰਰਾਸ਼ਟਰੀ ਕਾਨਫਰੰਸ ਕੀਤੀ ਜਾਵੇਗੀ ਜਿਸ ਲਈ ਤਿਆਰੀਆਂ ਕੀਤੀਆਂ ਜਾ ਰਹੀਆਂ ਹਨ।

ਜੀ.ਡੀ. ਗੋਇਨਕਾ ਇੰਟਰਨੈਸ਼ਨਲ ਸ ਤੱਕ ਅਪਗ੍ਰੇਡ ਕੀਤੇ ਜਾਣ 'ਤੇ ਸਕੂਲ

ਕਪੂਰਥਲਾ, 18 ਜੂਨ (ਵਿਸ਼ੇਸ਼ ਪ੍ਰਤੀਨਿਧ) - ਕਪੂਰਥਲਾ ਦੇ ਪ੍ਰਿੰਸਿਪ ਜੀ.ਡੀ. ਗੋਇਨਕਾ ਇੰਟਰਨੈਸ਼ਨਲ ਸਕੂਲ ਨੂੰ ਸੀ.ਬੀ.ਐਸ.ਈ. ਵਲੋਂ 12ਵੀਂ ਜਮਾਤ ਤੱਕ ਅਪਗ੍ਰੇਡ ਕੀਤੇ ਜਾਣ 'ਤੇ ਮਾਪਿਆਂ ਨੇ ਖੁਸ਼ੀ ਦਾ ਇਜ਼ਹਾਰ ਕੀਤਾ ਹੈ ਤੇ ਸਕੂਲ ਵਿਚ +2 ਜਮਾਤ 'ਚ ਦਾਖਲੇ ਲਈ ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਉਤਸ਼ਾਹ ਪਾਇਆ ਜਾ ਰਿਹਾ ਹੈ। ਸਕੂਲ ਦੀ ਪ੍ਰਬੰਧਕ ਕਮੇਟੀ ਦੇ ਚੇਅਰਮੈਨ ਸੁਖਦੇਵ ਸਿੰਘ ਨਾਨਕਪੁਰ ਨੇ ਦੱਸਿਆ ਕਿ ਜੀ.ਡੀ. ਗੋਇਨਕਾ ਗਰੁੱਪ ਦਿੱਲੀ ਨਾਲ ਸਬੰਧਿਤ ਇਹ ਸਕੂਲ ਪੂਰੀ ਤਰ੍ਹਾਂ ਏਅਰਕੰਡੀਸ਼ਨ ਹੈ ਤੇ 24 ਘੰਟੇ ਸੀ.ਸੀ.ਟੀ.ਵੀ. ਦੀ ਨਿਗਰਾਨੀ ਹੇਠ, ਆਧੁਨਿਕ ਕੰਪਿਊਟਰ ਲੈਬ, ਲੈਂਗੁਏਜ ਲੈਬ, ਸਪੋਰਟਸ ਤੇ ਡਾਂਸ ਰਾਮ, ਆਡੀਟੋਰੀਅਮ, ਆਧੁਨਿਕ ਹਾਈਡਲ ਨਾਲ ਲੈਸ ਸਟਿੱਟਿੰਗ ਰੌਜ ਤੋਂ ਇਲਾਵਾ ਹਰ ਤਰ੍ਹਾਂ ਦੀ ਖੇਡ

ਲਈ ਮੈਦਾਨ ਤੇ ਬਿਹਤਰ ਬੱਚਿਆਂ ਨੂੰ ਆਈਲ ਇੰਗਲਿਸ਼ ਦੀਆਂ ਵਿਸ਼ੇ ਪ੍ਰਬੰਧਕ ਕਮੇਟੀ ਦੇ ਚੇਅਰਮੈਨ ਨੂੰ ਸਖ਼ਤ ਅਨੁਸ਼ਾਸਨ ਇਲਾਵਾ ਉਨ੍ਹਾਂ ਨੂੰ ਕੌਮ ਸਮਰੱਥ ਬਣਾਉਣ ਦੇ ਬੌਧਿਕ ਵਿਕਾਸ ਤੇ ਮਨ ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਸਕੂਲ ਅੰਤਰਰਾਸ਼ਟਰੀ ਪੱਧਰ ਹੈ ਤਾਂ ਜੋ ਬੱਚੇ ਆਪਣੇ

तकनीकी युग में छात्रों, शिक्षकों को रोजाना नई जानकारी से भरपूर रहना होगा : राहुल भंडारी

आईकेजी-पीटीयू में दूसरा अंतरराष्ट्रीय सम्मेलन 'सीएनआरई-2022' आयोजित, ऑनलाइन माध्यम से आयोजित सम्मेलन में 58 शोधपत्र प्रस्तुत

संवाद न्यूज एजेंसी

कपूरथला। तकनीक के युग में छात्रों, शिक्षकों को हर दिन नई जानकारी से भरपूर रहना होगा। अब जरूरत सिर्फ तकनीक से जुड़े शोध कार्य के प्रति जागरूक होने की नहीं है, बल्कि अब इस विषय पर अंतरराष्ट्रीय स्तर पर क्या हो रहा है, इस पर भी पैनी नजर रखने की जरूरत है।

ऐसी शैक्षिक साझेदारी के लिए शैक्षणिक संस्थानों के लिए एक वैश्विक सम्मेलन (अंतरराष्ट्रीय कॉन्फ्रेंस) होना आवश्यक व फायदेमंद है। पंजाब सरकार अपने शिक्षण संस्थानों व आईके गुजराल पंजाब तकनीकी विश्वविद्यालय से संबद्ध 250 से अधिक कॉलेजों में इस तरह की पहल के लिए लगातार प्रयास कर रही है। यह संदेश प्रमुख

250 से अधिक कॉलेजों में अंतरराष्ट्रीय अनुसंधान को बढ़ावा देने के लिए लगातार प्रयास जारी

सचिव, तकनीकी शिक्षा व औद्योगिक प्रशिक्षण विभाग तथा आईके गुजराल पंजाब तकनीकी विश्वविद्यालय (आईकेजी पीटीयू) के कुलपति आईएएस राहुल भंडारी का है। वे द्वितीय अंतरराष्ट्रीय सम्मेलन 'सीएनआरई-2022' की टीम एवं प्रतिभागियों को संबोधित कर रहे थे। उन्होंने कहा कि वह समय दूर नहीं है जब इस तरह के अंतरराष्ट्रीय सम्मेलनों के माध्यम से छात्रों को पंजाब में रहते हुए अंतरराष्ट्रीय अध्ययन में शोध करने का अवसर मिलेगा।

आईकेजी-पीटीयू जालंधर-कपूरथला की तरफ से ऑनलाइन मोड पर यह सम्मेलन आयोजित

किया। इसका विषय 'कंप्यूटिंग, नेटवर्किंग और नवीकरणीय ऊर्जा' था, जिसे 'सीएनआरई-2022' के तौर पर प्रमाणित किया गया। विश्वविद्यालय को इस सम्मेलन के लिए ऑनलाइन मीडिया के माध्यम से कुल 160 से अधिक पत्र प्राप्त हुए थे, जिनकी विशेषज्ञों की ओर से समीक्षात्मक समीक्षा की गई और चयनित शोध पत्र ऑनलाइन प्रकाशित किए गए।

विश्वविद्यालय ने 'अमेरिकन इंस्टीट्यूट ऑफ फिजिक्स (एआईपी) के साथ स्कोप इंडेक्सड कॉन्फ्रेंस प्रोसीडिंग्स' में प्रकाशन के लिए केवल 33 उच्च गुणवत्ता वाले पूर्ण-लंबाई वाले शोध पत्रों को स्वीकार किया है। दूसरे सम्मेलन में प्रकाशन के लिए केवल 20 अन्य अच्छी गुणवत्ता वाले पेपर स्वीकार किए जाते हैं। सम्मेलन अध्यक्ष डॉ.

सतवीर सिंह एवं आयोजन अध्यक्ष डॉ. नवीन कुमार शर्मा ने कहा कि प्रत्येक पेपर की कम से कम तीन अलग-अलग स्तरों पर जांच और समीक्षा की गई। कुछ मामलों में शोध पत्रों की गुणवत्ता सुनिश्चित करने के लिए चार समीक्षाओं पर भी काम किया गया था।

जेएसएस अकादमिक ऑफ टेक्निकल एजुकेशन (नोडिया), यूपीटीयू लखनऊ से डॉ. भारत भूषण शर्मा, अनुज वंशवार, डॉ. सुजीत कुमार जैन (डीम्ड-टू-बी यूनिवर्सिटी) जीटीयू अहमदाबाद से जीजेयू हिसार के डॉ. पलविंदर सिंह मान, डॉ. विजय पाल सिंह, मेजबान आईकेजी पीटीयू कपूरथला से राजीव चौहान ने सम्मेलन के विशेष सत्रों को संबंधित डोमेन पर समन्वित करने का कार्य किया। मुख्य अतिथि राहुल भंडारी

(आईएएस) ने आयोजकों और भागीदारों से भविष्य में भी इस तरह की शैक्षणिक गतिविधियों का आयोजन जारी रखने का आग्रह किया। प्रो. विकास चावला, डीन अकादमिक, आईकेजी-पीटीयू कपूरथला ने कहा कि शोधकर्ताओं द्वारा 58 पेपर ऑनलाइन जमा किए गए और एससीआई और स्कोप्स पत्रिकाओं में आगे की सिफारिशों के लिए विशेषज्ञों की ओर से मूल्यांकन भी किया गया।

डॉ. सतवीर सिंह ने बताया कि विश्वविद्यालय 22-24 जून, 2023 को 'सीएनआरई-2023' विषय पर तीसरा अंतरराष्ट्रीय सम्मेलन भी आयोजित करेगा, जिसके लिए तैयारी शुरू हो चुकी है। यह शोधकर्ताओं को अपने शोध कार्य को प्रदर्शित करने के लिए एक बेहतर मंच प्रदान करेगा।

लड
स

चंडी
ट्रेक
दिल्ल
भारत
लडवि

4 कि
हासि
बेटी
चौपय
कजा
हासि

कान्वे
पास
साइवि
साइवि
के लि

कर द
पूरा स
लाई प
पर मे

जूनिय
हिस्सा
प्रोफेस
यूनिक
डिपा

पीटीयू ने आनलाइन इंटरनेशनल कान्फ्रेंस कराई

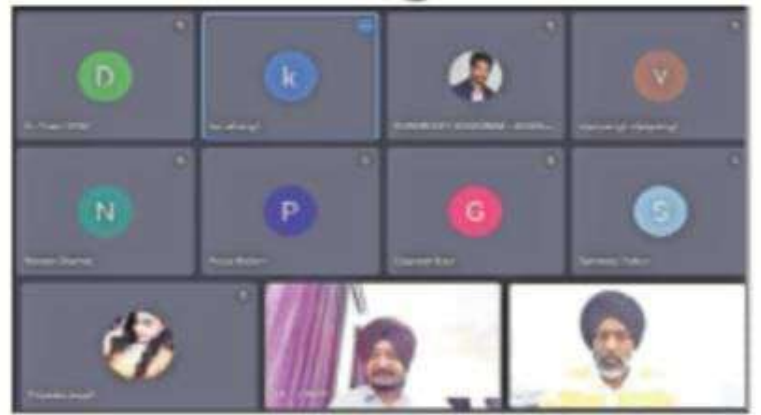
जासं, जलंधर : पीटीयू में दूसरी आनलाइन इंटरनेशनल कान्फ्रेंस आयोजित की गई। इसमें शोधकर्ताओं ने आनलाइन मिले 160 से अधिक पेपरों की समीक्षा की और चुनींदा पेपरों को प्रस्तुत किया। उपकुलपति राहुल भंडारी ने कहा कि तकनीकी युग में हर दिन नई जानकारी के साथ अपडेट होना लाजमी है। जरूरत अब केवल अपने से संबंधित विषयों पर रिसर्च करने की नहीं बल्कि मौजूदा समय में अंतरराष्ट्रीय स्तर पर क्या नया हो रहा उसे करीब से जानने की है।

शिक्षण संस्थानों के लिए ग्लोबल स्तर पर ऐसी कान्फ्रेंस विद्यार्थियों के लिए बेहद फायदेमंद है, क्योंकि विद्यार्थियों को पंजाब में रहते हुए अंतरराष्ट्रीय पढ़ाई में खोज व रिसर्च करने के मौके मिलेंगे। कांफ्रेंस चेयर डा. सतवीर सिंह और आयोजन मंडल चेयर फैकेल्टी डा. नवीन कुमार शर्मा ने कहा कि प्रत्येक पेपर की साहित्यिक जांच और कम से कम तीन पक्षों के साथ समीक्षा की गई।

तकनीक के युग में विद्यार्थियों व अध्यापकों को हर दिन नई जानकारी होना लाजमी : राहुल भंडारी

कपूरथला/जालंधर, 18 जून (महाजन): तकनीक के युग में विद्यार्थियों व अध्यापकों का हर दिन नई जानकारी से भरपूर होना लाजमी है। जरूरत अब न तो केवल अपने साथ जुड़े संशोधित कार्यों से अवगत होने की है, बल्कि वर्तमान में बहुत जरूरी है कि अंतर्राष्ट्रीय स्तर पर विषय के साथ संबंधित नया क्या हो रहा है, पर नजर रखना है और उसको करीब से जानना है।

शैक्षणिक संस्थाओं के लिए ग्लोबल स्तर पर कॉन्फ्रेंस करवाना ऐसी शैक्षणिक सांझ के लिए अवश्य व लाभदायक है। पंजाब सरकार अपने शैक्षणिक संस्थाओं और आई.के. गुजराल पंजाब टैक्निकल यूनिवर्सिटी के साथ जुड़े 250 से अधिक कालेजों में ऐसे प्रयास करवाने के लिए लगातार प्रयत्नशील है। यह कहना है कि तकनीकी शिक्षा और उद्योगिक प्रशिक्षण विभाग के प्रमुख सचिव और आई.के. गुजराल पंजाब



पी.टी.यू. में ऑनलाइन आयोजित कॉन्फ्रेंस के दृश्य। (चोपड़ा)

टैक्निकल यूनिवर्सिटी के उप कुलपति आई.ए.एस. राहुल भंडारी का।

राहुल भंडारी यूनिवर्सिटी द्वारा करवाई दूसरी इंटरनैशनल कॉन्फ्रेंस सी.एन.आर.ई.-2022, की टीम और प्रतिभागियों को संबोधित कर रहे थे। उन्होंने कहा कि वह समय दूर नहीं जब ऐसी इंटरनैशनल कॉन्फ्रेंस के द्वारा विद्यार्थियों को पंजाब में रह कर इंटरनैशनल पढ़ाई में खोज व संशोधन के अवसर मिलेंगे।

6.5.2 Institution has adopted the following for Quality assurance

Year	Conferences, Seminars, Workshops on quality conducted	Academic Administrative Audit (AAA) and initiation of follow up action	Participation in NIRF along with Status.	ISO Certification. and nature and validity period	NBA or any other certification received with program specifications.	Collaborative quality initiatives with other institution(s) (Provide name of the institution and activity)	Orientation programme on quality issues for teachers and students organised by the institution, Date (From-To) (DD-MM-YYYY)
2021	Webinar on Presenting numbers and quantities with precision and style in collaboration with Wiley on dated: 17.08.2021	--	--	--	--	--	Webinar on Grammarly on dated: 28.09.2021
2021	Webinar on Enhance Teaching through Learning Management System(LMS) in collaboration with EBSCO on dated: 15.06.2021	--	--	--	--	--	Webinar on Winning the game of publishing research papers, raising your profile and extending the impact of your publications in collaboration with Wiley on dated: 07.09.2021
2021	Webinar on ' Writing Quality Technical Paper : Publisher's Perspective' in collaboration with IEEE on dated: 20.05.2021	--	--	--	--	--	Webinar on Mastering the craft of Academic Writing in collaboration with Wiley on dated: 31.08.2021
2021	--	--	--	--	--	--	Webinar on Conquering the intricacies of citations and references in collaboration with Wiley on dated: 24.08.2021


 Deputy Librarian
 I.K. Gujral Punjab Technical University
 Jalandhar

Prepared by:-

Checked by:-

Regarding Grammarly Webinar on dated: 28.09.2021 at 02:30 PM.,
Knowledge Resource Centre, IKGPTU <library.ptu@gmail.com>

Tue, Sep 28, 2021 at 10:19 AM

To: vcsikgptu@gmail.com, Registrar IKGPTU KPT <registrar@ptu.ac.in>, Anirudh P Singh <deanric@ptu.ac.in>, "S. Paramjit Singh" <coeptu@gmail.com>, inchargesfc@ptu.ac.in, balkarsingh@ptu.ac.in, Dr Amanpreet Singh DCOE <amanpreet1970@gmail.com>, "Sh. H.P.Singh Xen" <xen@ptu.ac.in>, esjohal2001@ptu.ac.in, "Sunil Kumar (Deputy Registrar)" <drsunil@ptu.ac.in>, Geet <geet@ptu.ac.in>, dogradrptu@gmail.com, "Sh. Dinesh Juneja DR" <dfuneja10@ptu.ac.in>, Dr Amanpreet Singh DCOE <amanpreet@ptu.ac.in>, "Mr. Sandeep Kumar Kajal DCOE" <skkazal@ptu.ac.in>, niya@ptu.ac.in, madhu midha <ptu_madhu@yahoo.com>, Madhu Midha <m.midha@ptu.ac.in>, Kamal Mittal <kmittal_2007@yahoo.co.in>, navdeepak.sandhu@ptu.ac.in, msbedi@ptu.ac.in, "Sh. Nareesh Kumar AR" <nareesh@ptu.ac.in>, "Sh. Joginder Kumar" <joginder.ptu@gmail.com>, sandeep.mehmi@ptu.ac.in, devinder kumar <devinder@ptu.ac.in>, "Sh. Saurav Sharma AR" <sauroabh@ptu.ac.in>, paramjitgill.ptu@gmail.com, pk.aspal@ptu.ac.in, "Sh. Rishi Gupta AR Sec." <rishigupta@ptu.ac.in>, hardeep_ptu11@yahoo.com, kishoreluthra.ptu@gmail.com, gaganjotsingh@ptu.ac.in, "Sh. Vivek Talwar AR" <vtalwar@ptu.ac.in>, "Ms. Jasleen Kaur AR" <jasleen179@gmail.com>, rajinderk@ptu.ac.in, vaneeta@ptu.ac.in, "Sh. Vishawdeep AR" <ptulanguages@yahoo.com>, jnarula@ptu.ac.in, "Sh. Rajneesh Sharma PRO" <pro@ptu.ac.in>, eo@ptu.ac.in, ashish.sharma@ptu.ac.in, sidana.deepak@ptu.ac.in, vinaykehar@ptu.ac.in, mohitk Jain@ptu.ac.in, "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, pturajneesh@ptu.ac.in, "Dr. Avtar Singh Buttar AP KPT" <danshawtar@rediffmail.com>, monika@ptu.ac.in, dr.neelkanthgrover@ptu.ac.in, Head Civil <ptu_headcivil@gmail.com>, Dr Satvir Singh <drsativir.in@gmail.com>, Gagandeep Kaur <gagandee@ptu.ac.in>, en_rps@yahoo.com, shabir sidhu <sidhushabir@rediffmail.com>, gazal sharma <gazalisharma@ptu.ac.in>, dr.t_jh@ptu.ac.in, "A.P Dalveer Kaur" <dn_dogra@rediffmail.com>, Dinesh Gupta <dineshgupta@ptu.ac.in>, dr.deepakgoyal@ptu.ac.in, anigupta@rediffmail.com, dr.asgill@ptu.ac.in, dbhalla@ptu.ac.in, Jujhar Singh <dr.jujharsingh@ptu.ac.in>, dr.manojmittal@ptu.ac.in, drakeshgoyal15@gmail.com, dr.vivekaggarwal@ptu.ac.in, sharma_pooja@live.com, dr.alokkushwaha@ptu.ac.in, dr.anshubhasin@ptu.ac.in, dr.amitbansal@ptu.ac.in, mfwalaid@ptu.ac.in, dr.rakeshbanga@ptu.ac.in, amit s <amit.sarin@yahoo.com>, "Dr. Ashish Arora AP Math" <dr.ashish10@hotmail.com>, Gaurav <gaurav@ptu.ac.in>, "Dr. Rajesh Kumar Narula AP Mansa" <dr.knarula@gmail.com>, chander@ptu.ac.in, "Ms. Vandana Natthani Coordinator Ind Tra" <naithanivanandana@gmail.com>, Maninder Kaur <manisaini153@gmail.com>, Gurjinder Singh <gurjinder11@gmail.com>, Reshu Talwar <reshusanan@gmail.com>, Roopa <roopa_noel@yahoo.co.in>, "Rupesh K. Manaktala" <rupesh.manak@gmail.com>, dr.harpreet@ptu.ac.in, Megha Goyal <dr.meghagoyal@ptu.ac.in>, mangat_phy@yahoo.co.in, dr.neetika@ptu.ac.in, harmeensoch@ptu.ac.in, "Dr. Kapil Gupta AP KPT" <kapilfutures@gmail.com>, "Ms. Mandeeep Kaur AP Mgt" <mandeeparora.ptu@gmail.com>, supriya behl <supriyabehl1@gmail.com>, "Sh. Sanjeev Bansal AP Comm" <commerce.ptu@gmail.com>, pooja mehta <pooja24k@yahoo.com>, ROOPALI BATRA <roopalibatra@rediffmail.com>, dr.rajpreet@ptu.ac.in, ranbirsingh@ptu.ac.in, ekta.mahajan@ptu.ac.in, sarabjit singh <manrabia@gmail.com>, priyanka mahajan <priyankamahajan.info@gmail.com>, hitesh sharma <dr.hitesh.phys@gmail.com>, dr.vikramjeetsingh@ptu.ac.in, "Sh. Rajdeep Singh AP CSE" <ptup_cse@yahoo.com>, sukhminder kaisi <kaisiasr@gmail.com>, dr.prabhkiran@ptu.ac.in, dr.vipuis@ptu.ac.in, dr.naveensharma@ptu.ac.in, dr.akhilgupta@ptu.ac.in, dr.neeraj@ptu.ac.in, Sumesh Sood <sumesh64@gmail.com>, "Prof. (Dr.) Vikas Chawla, Dean (Academics)" <vikas.chawla@ptu.ac.in>, mansi.gera91@gmail.com, satishpundir@yahoo.com, preetiverma.pv2@gmail.com, gurpalsingh083@gmail.com, wallaniks@rediffmail.com, dr.sunilkumar@ptu.ac.in, shashi.bahl@ptu.ac.in, dr.brijeshbakariya@ptu.ac.in, dr.kulmaths@ptu.ac.in, sonugarg79@yahoo.com, Tarun Goyal <govallarun1@gmail.com>, dr.amithanda@ptu.ac.in, PIT Mohali <inchargemohali.ptu@gmail.com>, Mukta Sharma <r_ago@gmail.com>, neerusinglav84@gmail.com, PIT Khunni Majra <pitkhunnimajra@gmail.com>, info@ptu.ac.in, campus.amritsar@ptu.ac.in, PIT HOSHARPUR <pitshoshiarpur@rediffmail.com>

Dear Sir/ Madam,


It is to inform you that I. K. Gujral Punjab Technical University in Collaboration with Grammarly is organizing a Webinar as per the below mentioned schedule:-

> Date : 28th September, 2021
 > Time : 02:30 PM

> Registration Link:

<https://meeting.zoho.in/meeting/register?sessionid=13977702371>

We request you to please circulate the information amongst all concerned Faculty Members/ Research



 Deputy Librarian
 I.K. Gujral Punjab Technical University
 Jalandhar


Scholars/ Students so that the interested persons can register for the same.

If you have any query regarding this you may contact with Mr. Kamal Mittal, Senior Assistant at email ID workshopikgptuilibrary@gmail.com

Thanks & Regards--

**Knowledge Resource Centre
I.K. Gujral Punjab Technical University
Jalandhar- Kapurthala National Highway
Kapurthala- 144603 (Punjab)
INDIA**

 Regarding Grammarly Webinar on dated 28.09.2021.pdf
861K


Deputy Librarian
I.K. Gujral Punjab Technical University
Jalandhar



We invite you to an Online Webinar on



The world's No. 1 Research Writing Software

28th September 2021 at 14.30 IST

Exclusively for Punjab Technical University



- # 400+ Checks on Grammar than nearest word editor
- # Ensure perfect style, structure and format of technical English
- # Preventive Audit with Citation Audit tool to prevent plagiarism before it happens
- # Use Grammarly where you want with its MS Word, Outlook and Browser Plugins
- # Improve author confidence and improves publication efficacy

Program Conducted by:

Mr Mahesh Narayanan – Director, Bridge People Technology Solutions Pvt. Ltd.

Register for online webinar at:


<https://meeting.zoho.in/meeting/register?sessionId=1397702371>

Time: 14.30 – 15.30 IST

Co-ordinator: Mrs Madhu Midha-Dy Librarian

Email: library.ptu@gmail.com

Note: Participants limited to 250.


Deputy Librarian
I.K. Gujral Punjab Technical University
Jalandhar



Knowledge Resource Centre
ਨੌਲਿਜ ਰਿਸੋਰਸ ਸੈਂਟਰ

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ
ਕਪੂਰਥਲਾ
I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY
KAPURTHALA
Esid Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. IKGPTU/KRC/ 60

Dated 18-08-2021

To

All IKGPTU Research Scholars
All Faculty Members IKGPTU Main & Constituent Campuses

We are glad to inform you about the series of Webinars scheduled in collaboration with Wiley as per below mentioned details:-

Sr. No.	Date	Time	Topic	Registration Link
01	17.08.2021		Presenting numbers and quantities with precision and style	https://bit.ly/3yCtUzx
02	24.08.2021	03:00 PM To	Conquering the intricacies of citations and references	https://bit.ly/3CAZEMt
03	31.08.2021	04:00 PM	Mastering the Craft of Academic Writing	https://bit.ly/3izjE5y
04	07.09.2021		Winning the game of publishing research papers, raising your profile, and extending the impact of your publications	https://bit.ly/2VM13Ab

- Webinar is free of cost for all.
- Certificates will be given to all the participants.
- Please write to library.ptu@gmail.com in case you face any issues.

Look forward to having you with us in this learning journey.

Madhu Midha
16/08/21
(Madhu Midha)
Deputy Librarian
IKGPTU, Kapurthala

LM
Deputy Librarian
I.K. Gujral Punjab Technical University
Jalandhar

“Propelling Punjab to a Prosperous Knowledge Society”

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜਲੰਧਰ-ਕਪੂਰਥਲਾ ਰਾਸ਼ਟਰੀ ਰਾਜਮਾਰਗ, ਵਿੱਡ ਵਿੱਚ, ਜਿਲਾ ਕਪੂਰਥਲਾ-144603
I. K. Gujral Punjab Technical University, Jalandhar-Kapurthala National Highway, Village Ibban, District Kapurthala-144 603
Ph.: 01822-255515 Email: library.ptu@gmail.com, library@ptu.ac.in Website: www.ptu.ac.in

Regarding Wiley Webinars.

Knowledge Resource Centre, IKGPTU <library.ptu@gmail.com>

Mon, Aug 16, 2021 at 4:45 PM

To: Gaurav <gaurav@ptu.ac.in>, chander@ptu.ac.in, "Ms. Vandana Naithani Coordinator Ind Tra"
 <naitthanivandana@gmail.com>, Reshu Talwar <reshusanan@gmail.com>, Roopa <roopa_noel@yahoo.co.in>, "Rupesh
 K. Manakata" <rupesh.manak@gmail.com>, hitesh sharma <dr.hitesh.phys@gmail.com>, Maninder Kaur
 <manisaini153@gmail.com>, Mangat.phy@yahoo.co.in, dr.neetika@ptu.ac.in, "Dr. Ashish Arora AP Math"
 <dr.ashish10@hotmail.com>, "Dr. Rajesh Kumar Narula AP Mansa" <dr.rknarula@gmail.com>, Gurjinder Singh
 <gurjinder11@gmail.com>, dr.harpreet@ptu.ac.in, Megha Goyal <dr.meghagoyal@ptu.ac.in>, monika@ptu.ac.in, Raman
 Kumar <davraman@gmail.com>, dr.anshubhasin@ptu.ac.in, Pooja Sharma <dr.poojasharma@ptu.ac.in>, "Dr. Avtar
 Singh Buttar AP KPT" <danshavtar@rediffmail.com>, Dr Satvir Singh <drsatvir.in@gmail.com>, "A.P. Dalveer Kaur"
 <dn_dogra@rediffmail.com>, amitguptacgc@gmail.com, Gagandeep Kaur <gaganeer@ptu.ac.in>, dbhalla@ptu.ac.in,
 Yadwinder Singh <ysbrar@ptu.ac.in>, Gagandeep Kaur <gaganeer@ptu.ac.in>, dr.ashish@ptu.ac.in,
 dr.naveensharma@ptu.ac.in, "Prof. (Dr.) Vikas Chawla, Dean (Academics)" <vikas.chawla@ptu.ac.in>,
 dr.neelkanthgrover@ptu.ac.in, dr.deepakgoyal@ptu.ac.in, dr.asgill@ptu.ac.in, Jujhar Singh <dr.jujharsingh@ptu.ac.in>,
 dr.manjmittal@ptu.ac.in, dr.vivekagargwal@ptu.ac.in, dr.amitbansal@ptu.ac.in, dr.amithanda@ptu.ac.in,
 pturajneesh@ptu.ac.in, shabir sidhu <sidhushabir@rediffmail.com>, gazal sharma <gazalsharma@ptu.ac.in>,
 .bsingh@ptu.ac.in, Head Civil <Ptu.headcivil@gmail.com>, mfwalid@ptu.ac.in, harmeensoch@ptu.ac.in, "Dr. Kapil
 Gupta AP KPT" <kapilfutures@gmail.com>, "Ms. Mandeep Kaur AP Mgt" <mandeeparora.ptu@gmail.com>, supriya behl
 <supriyabehl1@gmail.com>, "Sh. Sanjeev Bansal AP Comn" <commerce.ptu@gmail.com>, pooja mehta
 <pooja24k@yahoo.com>, ROOPALI BATRA <Roopalibatra@rediffmail.com>, dr.rajpreet@ptu.ac.in,
 ranbirsingh@ptu.ac.in, ekta.mahajan@ptu.ac.in, sarabjit singh <manrabia@gmail.com>, priyanka mahajan
 <priyankamahajan.info@gmail.com>, amit s <amit.sarin@yahoo.com>, dr.prabhkiran@ptu.ac.in, sukhminder kalsi
 <kalsiasr@gmail.com>, dr.vikramjeetsingh@ptu.ac.in, dr.vipuls@ptu.ac.in, "Sh. Rajdeep Singh AP CSE"
 <ptuap_cse@yahoo.com>, Reetipal Singh <en.rpsingh@gmail.com>, dr.sunilkumar@ptu.ac.in,
 dr.brijeshbakariya@ptu.ac.in, wailarinks@rediffmail.com, dr.kulmaths@ptu.ac.in, Sonugarg79@yahoo.com,
 shashi.bahl@ptu.ac.in, Tarun Goyal <goyaltarun1@gmail.com>, Monika Sachdeva <Monasach1975@gmail.com>,
 geetpurnohali@gmail.com, neeraj mohan <erneerajmohan@gmail.com>, "Sh. Vishawdeep AR"
 <ptulanguages@yahoo.com>, Mukta Sharma <muktageo@gmail.com>, svc@ptu.ac.in, Registrar IKGPTU KPT
 <registrar@ptu.ac.in>, Anirudh P Singh <deannic@ptu.ac.in>, "S. Paramjit Singh" <coeptu@gmail.com>,
 incharge@ptu.ac.in, balkarsingh@ptu.ac.in, Dr Amanpreet Singh DCOE <amanpreet1970@gmail.com>, "Sh.
 H.P.Singh Xer" <xen@ptu.ac.in>, esjohal2001@ptu.ac.in, "Sunil Kumar (Deputy Registrar)" <drsunil@ptu.ac.in>, Geet
 <geet@ptu.ac.in>, dogradrptu@gmail.com, "Sh. Dinesh Juneja DR" <dijuneja10@ptu.ac.in>, Dr Amanpreet Singh DCOE
 <amanpreet@ptu.ac.in>, "Mr. Sandeep Kumar Kajal DCOE" <skkazal@ptu.ac.in>, "Ms. Nitya DCOE"
 <nityadcoe.ptu@gmail.com>, nitya@ptu.ac.in, madhu midha <ptu_madhu@yahoo.com>, Madhu Midha
 <m.midha@ptu.ac.in>, Kamal Mittal <kmittal_2007@yahoo.co.in>, navdeepk.sandhu@ptu.ac.in, msbedi@ptu.ac.in, "Sh.
 Naresh Kumar AR" <naresh@ptu.ac.in>, "Sh. Joginder Kumar" <joginder.ptu@gmail.com>, sandeep.mehmi@ptu.ac.in,
 Jevinder Kumar <devinder@ptu.ac.in>, "Sh. Saurav Sharma AR" <saaurabh@ptu.ac.in>, paramjitgill.ptu@gmail.com,
 pk.aspal@ptu.ac.in, "Sh. Rishi Gupta AR Sec." <rishigupta@ptu.ac.in>, hardeep_ptu11@yahoo.com,
 kishoreluthra.ptu@gmail.com, gaganiotsingh@ptu.ac.in, "Sh. Vivek Talwar AR" <vtalwar@ptu.ac.in>, "Ms. Jasleen Kaur
 AR" <jasleen1779@gmail.com>, rajinderk@ptu.ac.in, vaneeta@ptu.ac.in, jnarula@ptu.ac.in, "Sh. Rajneesh Sharma PRO"
 <pro@ptu.ac.in>, eo@ptu.ac.in, ashish.sharma@ptu.ac.in, sidana.deepak@ptu.ac.in, vinaykehar@ptu.ac.in,
 mohitk Jain@ptu.ac.in

No. IKGPTU/KRC/60

Dated: 16.08.2021

To

All IKGPTU Research Scholars,
 All Faculty Members IKGPTU Main & Constituent Campuses,

Subject: Regarding Wiley Webinars.

Deputy Librarian
 I.K. Gujral Punjab Technical University
 Jalandhar

We are glad to inform you about the series of Webinars scheduled in collaboration with Wiley as per below mentioned details:-

Sr. No.	Date	Time	Topic	Registration Link
01	17.08.2021		Presenting numbers and quantities with precision and style	https://bit.ly/3yCtUzx
02	24.08.2021	03:00 PM To	Conquering the intricacies of citations and references	https://bit.ly/3CAZEMt
03	31.08.2021	04:00 PM	Mastering the Craft of Academic Writing	https://bit.ly/3izjE5y
04	07.09.2021		Winning the game of publishing research papers, raising your profile, and extending the impact of your publications	https://bit.ly/2VMi3Ab

- > Webinar is free of cost for all.
- > Certificates will be given to all the participants.
- > Please write to library.ptu@gmail.com in case you face any issues.

Look forward to having you with us in this learning journey.

(Madhu Midha)
Deputy Librarian
IKGPTU, Kapurthala


Deputy Librarian
I.K. Gujral Punjab Technical University
Jalandhar

EBSCO Webinar on 15th June, 2021 at 11:00AM on Virtual Classroom: Enhance Teaching through Learning Management System (LMS).

Knowledge Resource Centre, IKGPTU <library.ptu@gmail.com>

Fri, Jun 11, 2021 at 12:27 PM

To: Gaurav <gaurav@ptu.ac.in>, chander@ptu.ac.in, "Ms. Vandana Naithani Coordinator Ind Tra" <naithanivandana@gmail.com>, Reshu Talwar <reshusanan@gmail.com>, Roopa <roopa_noel@yahoo.co.in>, "Rupesh K. Manakala" <rupesh.manak@gmail.com>, hitesh sharma <dr.hitesh.phys@gmail.com>, Maninder Kaur <manisaini153@gmail.com>, Mangat_phy@yahoo.co.in, dr.neetika@ptu.ac.in, "Dr. Ashish Arora AP Math" <dr.ashish10@hotmail.com>, "Dr. Rajesh Kumar Narula AP Mansa" <dr.knarula@gmail.com>, Gurjinder Singh <gurjinder11@gmail.com>, dr.harpreet@ptu.ac.in, Megha Goyal <dr.meghagoyal@ptu.ac.in>, monika@ptu.ac.in, Raman Kumar <dav.raman@gmail.com>, dr.anshubhasin@ptu.ac.in, Pooja Sharma <dr.poojasharma@ptu.ac.in>, "Dr. Avtar Singh Buttar AP KPT" <danshavtar@rediffmail.com>, Dr Satvir Singh <drsatvir.in@gmail.com>, "A.P. Dalveer Kaur" <dn_dogra@rediffmail.com>, amitguptacgc@gmail.com, drakeshgoyal15@gmail.com, dr.rakeshbanga@ptu.ac.in, "Dr. Yadvinder Singh" <ysbrar@ptu.ac.in>, Gagandeep Kaur <gaganeep@ptu.ac.in>, dbhalla@ptu.ac.in, dr.naveensharma@ptu.ac.in, "Prof. (Dr.) Vikas Chawla, Dean (Academics)" <vikas.chawla@ptu.ac.in>, dr.neelkanthgrover@ptu.ac.in, dr.deepakgoyal@ptu.ac.in, dr.asgill@ptu.ac.in, Juihar Singh <dr.juiharsingh@ptu.ac.in>, dr.manojmittal@ptu.ac.in, dr.vivekaggarwal@ptu.ac.in, dr.amitbansal@ptu.ac.in, dr.amithanda@ptu.ac.in, jurajneesh@ptu.ac.in, shabir sidhu <sidhushabir@rediffmail.com>, gazal sharma <gazalsharma@ptu.ac.in>, dr.bsingh@ptu.ac.in, mfwaid@ptu.ac.in, harmeensoch@ptu.ac.in, "Dr. Kapil Gupta AP KPT" <kapifutures@gmail.com>, "Ms. Mandeep Kaur AP Mgt" <mandeeparora.ptu@gmail.com>, supriya behl <supriyabehl1@gmail.com>, "Sh. Sanjeev Bansal AP Comm" <commerce.ptu@gmail.com>, pooja mehta <pooja24k@yahoo.com>, ROOPALI BATRA <Roopalbatra@rediffmail.com>, dr.rajpreet@ptu.ac.in, ranbirsingh@ptu.ac.in, eka.mahajan@ptu.ac.in, sarabjit singh <mannarabia@gmail.com>, priyanka mahajan <priyankamahajan.info@gmail.com>, amit s <amit.sarh@yahoo.com>, dr.prabhkiran@ptu.ac.in, sukhninder kalsi <kalsiasr@gmail.com>, Reetipal Singh <en.rpsingh@gmail.com>, dr.vipuls@ptu.ac.in, Rajdeep Singh AP CSE" <ptuap_cse@yahoo.com>, Reetipal Singh <en.rpsingh@gmail.com>, dr.sunilkumar@ptu.ac.in, dr.brijeshbakariya@ptu.ac.in, waiiarinks@rediffmail.com, dr.kulmaths@ptu.ac.in, Sonugang79@yahoo.com, shashi.bahl@ptu.ac.in, Tarun Goyal <goyaltarun1@gmail.com>, Monika Sachdeva <Monasach1975@gmail.com>, geelptumohal@gmail.com, neeraj mohan <erneerajmohan@gmail.com>, "Sh. Vishawdeep AR" <ptulangues@yahoo.com>, mukta1087@ptu.ac.in, Head Civil <dr.rajivchauhan@ptu.ac.in>

Dear Sir/ Madam,

It is being brought to your kind notice a Webinar on "Virtual Classroom: Enhance Teaching through Learning Management System (LMS)" will held as per the below mentioned schedule:-

> Date	:	15th June, 2021 (Tuesday).
> Time	:	11:00 AM IST
> Registration Link	:	http://bit.ly/2RD1RINVITE
> Speaker	:	(i) Dr. Rudra Rameshwar, Assistant Professor, L.M. Thapar School of management, Patiala

(ii) Sanjay Goswami, Director Sales- South
EBSCO Information Services India.

(iii) Dr. G.K. Upadhyaya, Sr. Training Manager
EBSCO Information Services India

We request you to please circulate the information amongst all concerned Faculty Members so that the interested persons can register for the same.

If you have any query regarding this you may contact with Mr. Kamal Mittal, Senior Assistant at email ID: library.ptu@gmail.com or Mobile No. 94658-84803.

Deputy Librarian
L.K. Gujral Punjab Technical University
Jalandhar

Thanks & Regards:-

Kamal Mittal
Senior Assistant
Knowledge Resource Centre
I.K. Gujral Punjab Technical University
Jalandhar - Kapurthala National Highway
Kapurthala - 144603 (Punjab)
INDIA



Wabinar Banner.jpeg
147K

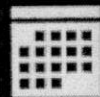
Handwritten signature
Deputy Librarian
I.K. Gujral Punjab Technical University
Jalandhar

LIVE
WEBINAR



EBSCO

Virtual Classroom: Enhance Teaching through Learning Management System (LMS)



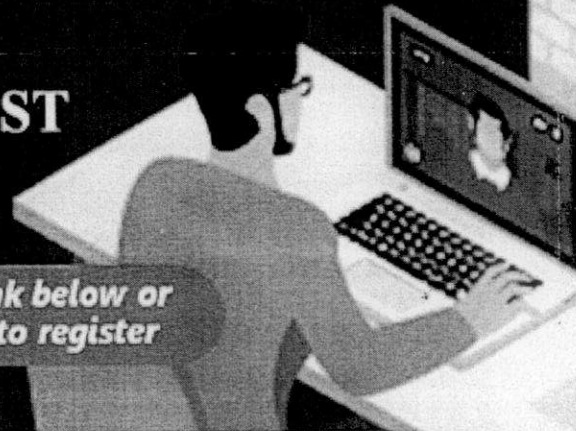
Tuesday, 15th June 2021



11:00 AM IST



Click on the link below or
scan QR code to register



Dr. Rudra Rameshwar
Assistant Professor, L.M. Thapar
School of Management, Patiala



Sanjay Goswami
Director of Sales – South Asia
EBSCO Information Services India



Dr. G. K. Upadhyaya
Sr. Training Manager
EBSCO Information Services India

HTZ

Deputy Librarian
Jatlandhar
I.K. Gujral Punjab Technical University

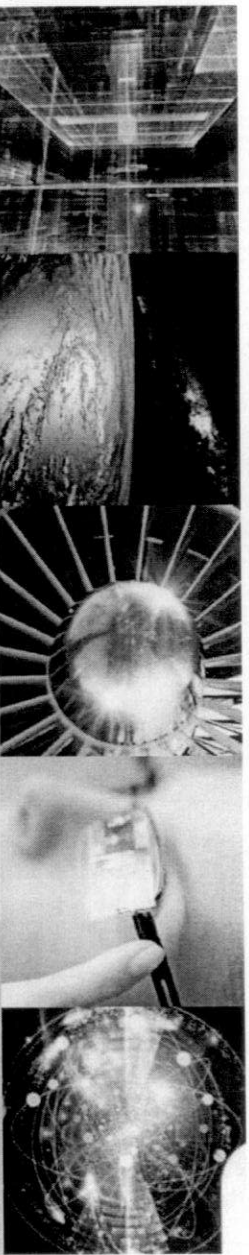
(ii) Sanjay Goswami, Director Sales- South

I.K. Gujral Punjab Technical University (Knowledge Resource Centre)

Sub: Information about conduct of IEEE webinar on dated: 20.05.2021.

Sir, This is for your kind information that, I. K. Gujral Punjab Technical University in Collaboration with IEEE organized a Webinar on 'Writing Quality Technical Paper: Publisher's Perspective' on dated: 20.05.2021 at 03:00PM through zoom app. Around 240 participants registered for the webinar. 95 participants attended the complete webinar. Ms. Madhu Midha, Deputy Librarian was the convenor of the webinar. Mr. Ranbir S. Sedhey from IEEE was the speaker of the webinar. The participants included Faculty, Research Scholars and officers of the university. The webinar was very informative and interactive. All the participants applauded the webinar. The certificates were given to the participants. Attached are some of the pictures clicked during webinar.

Submitted for your kind information please.




"IEEE Live Webinar: "How to Write Technical Paper: Publisher's Perspective"
in collaboration with "I. K. Gujral Punjab Technical University"

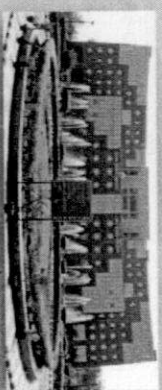


Speaker:
Ranbir S Sedhey
IEEE Client Services
India, Middle East (Asia), Africa, Bangladesh & Nepal

Convenor
Dr. Madhu Midha
Deputy Librarian
Central Library, PTU

20th May, 2021


Deputy Librarian
I.K. Gujral Punjab Technical University
Jalandhar



IEEE
Advancing Technology
for Humanity

Author Detail Pages

Authors promote their published works
[IEEE Xplore](#)

Digitally available
 a library of research
 articles

Articles on author's
 all publications &
 biography

Links to co-authors
 pages

Consolidated list of
 author's publications in
[IEEE Xplore](#)

The screenshot shows the IEEE Xplore author profile for Naveen Kumar Sharma. At the top, there is a profile picture and the author's name. Below this, there are sections for 'Affiliation' (IIT Kanpur, India), 'Publications Topics' (power systems, renewable energy, etc.), and 'Biography'. A 'Publications' table is visible, showing 12 publications in 2015 and 14 in 2014. The page also includes search filters for 'Showing 1-12 of 13' and 'Sort By: Relevance'.

IEEE NOW HAS 22 FULLY GOLD OA JOURNALS IN THE PORTFOLIO

In addition, there is a Gold Open Access option for an additional 140 journals

- IEEE Access
- IEEE Journal of the Electron Devices Society
- IEEE Open Journal of Solid-State Circuits
- IEEE Transactions on Neural Systems and Rehabilitation Engineering
- IEEE Open Journal of Vehicular Technology
- IEEE Open Access Journal of Power and Energy
- IEEE Open Journal of Intelligent Transportation Systems
- IEEE Open Journal of Engineering in Medicine and Biology
- IEEE Power and Energy Technology Systems Journal
- IEEE Open Journal of Circuits and Systems
- IEEE Photonics Journal

- IEEE Open Journal of Industry Applications
- IEEE Open Journal of Antennas and Propagation
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
- IEEE Open Journal of Nanotechnology
- IEEE Transactions on Quantum Engineering
- IEEE Journal of Translational Engineering in Health and Medicine
- IEEE Life Sciences Letters
- IEEE Open Journal of the Industrial Electronics Society
- IEEE Open Journal of Power Electronics
- IEEE Open Journal of Signal Processing
- IEEE Open Journal of the Communications Society
- IEEE Journal on Exploratory Solid-State Computational Devices and Circuits
- IEEE Open Journal of the Computer Society
- IEEE Journal of Microwaves

Deputy Librarian
 I.K. Gujral Punjab Technical University
 Jalandhar



Close Participants (85)

KM	Kamal Mittal (me)		
	Ranbir S Sedhey (Host)		
AG	Aarti Garg		
	Amandeep Singh Gabbi		
AK	Amarjeet kaur		
AG	Amit Gupta		
AK	Amrinder Kaur		
AT	Arti Talwar		
AM	Atul Mahajan		
AS	Avtar Singh		
BS	balvinder singh		
B	Bindu Goyal		
DS	Davinder Singh		

H

Ranbir S Sedhey

HARPREET KAUR

Dr. Asthok Kumar

Monika Gupta